CHRTC 350 Science & Religion

CLASS NOTES

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NB

Audio-Slide Episode Number

Class Notes Page Number

Abbreviations: H: Class Handouts SQ: Supplementary Quotes

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Introduction Episod	e 1
INTRODUCTION Slide	e 2
	S3 S4
in the second half of the 19 th century Thomas Henry Huxley (aka "Darwin's Bulldog") Review of Darwin's <i>Origin of Species</i> (1859):	54
1. "Extinguished theologians lie about the cradle of every science as the strangled	S5
snakes beside that of Hercules; and history records that whenever science and	S6
orthodoxy [religion] have been fairly opposed, the latter has been forced to retire	
from the lists, bleeding and crushed if not annihilated; scotched, if not slain."	
T.H. Huxley, "Origin of Species" Westminster Review 17 (1860), 556 <u>PRODUCES</u> : S8 Handout	S7 ts 1
 Science vs. Religion Dichotomy Dichotomy Greek dicha: in two temnō: to cut DEF: division of an issue into only TWO simple positions thinking about issues in 'black-and-white' & 'either/or' terms Problem: 	
 forces people into choosing between one of two positions Therefore: 	
you cannot be <u>both</u> a scientist & a religious believer	
DEVELOPS: \$9 into the Evolution vs. Creation Debate (aka "Origins Dichotomy") Problem: ● forces people into choosing between only TWO positions: EITHER (1) "Evolution" OR (2) "Creation" Therefore:	H1
you cannot be <u>both</u> an evolutionist & a believer in a Creator	
8	510 511
	S12
supernatural. The earth was not created; it evolved . So did all the animals and plants that inhabit it, including our human selves, mind and soul as well as brain and body.	~
So did religion	\$13
	S14 S15
The evolutionary vision is enabling us to discern, however incompletely, the S16 lineaments of the new religion that we can be sure will arise to serve the needs of the coming era."	-17

J. Huxley, "The Evolutionary Vision" in Sol Tax and Charles Callender, eds. *Evolution after Darwin: The University of Chicago Centennial* (Chicago, II: University Press, 1960), 252-253, 260

	Introduction Episode 2
<u>COMMENTS</u> : • evolution vs. creation dichotomy	S2 S3 H1
• COMMON understanding of "science" → "Godless" "evolution" → "Godless"	
Major Theme of this course: Challenge COMMON terms/definitions & replace with ACADEMIC term	minology
More accurately, Huxley's position is: Scientism	S4-5 H1
DEF: <u>conflation</u> of (1) science (2) secular [non-religious] philoso	ophy (3) humanist ethics
Conflation Latin <i>con</i> : together <i>flare</i> : to blow DEF: careless collapsing & co-mingling of distinct ideas into ON concept	VE undifferentiated
Humanist Ethics	
DEF: ethical position in which humans ALONE determine moral as traditionally believed ethics often tied to debates about origins	ls & values, not God
2. Common Understanding of "Religion" & "Creation" Henry Morris	S6 S7
creation scientist & founder of the Institute for Creation Research (aka Creation Science: claims that creation in 6 days 6000 yrs ago can be	Young Earth Creation)
3. "After all, there are only two basic worldviews—the God-centred	d worldview and S8
the man-centred worldview, creation or evolution	
There is no evidence whatever [for the] evolution of one kind o	f organism into a S9
more complex organism There are no proven scientific evidences that the earth	
is old Divine revelation from the Creator of the world [states	b] that He did it all
in six days several thousand years ago	
The Bible is a book of science! The Bible does contain all t	he basic principles S10
upon which true science [i.e., Creation Science] is built.	
If there is really a great personal Creator behind the origin and	meaning of all S11
things, then we urgently need to know Him and to order our l	ives according to
His will, as revealed in His inspired Word Satan himself is	the originator S12
of the concept of evolution."	
H. Morris, "Foreword" in John D. Morris, <i>The Young Ea</i> Creation-Life Pub, 1994), 4-5; <i>Many Infallible</i> 1980), 229; <i>Troubled Waters of Evolution</i> (Sar	e Proofs (San Diego, CA: C-LP,
COMMENTS:	S13 H1
 evolution vs. creation dichotomy COMMON understanding of "religion" → Bible revea "creation" → God create 	•
More accurately, using ACADEMIC terms/definitions, Morris' positio Fundamentalism DEF: conflation of (1) Christianity (2) origins in 6 days (3) biblic	
Biblical Ethics	
DEF: only God determines morals & values, and these are reveal	led in the Bible

<u>QUESTIONS</u>: • Is the relationship between science *k*

- Is the relationship between science & religion this simple?
- Are we forced to choose between only TWO positions:
 - **EITHER** (1) "science" & "evolution"
 - **OR** (2) "religion" & "creation"

 II. LAMOUREUX'S POSITION First, I am a thoroughly committed & unapologetic evangelical theologian trained to the PhD I I am a born-again Christian I believe the Bible is the Holy Spirit inspired Word of God I believe in miracles & I have experienced them I believe in Intelligent Design (traditionally defined) 	S3 evel S4
 Second, I am a thoroughly committed & unapologetic evolutionary biologist trained to the PhD I find that the evidence for biological evolution is OVERWHELMING I have yet to see evidence that falsifies the theory of evolution I recognize the explanatory power of evolutionary theory Biology makes sense in the light of evolution) level S5 S6
- Biology makes sense in the light of evolution	
III. TOWARD A SOLUTION: THE NEW SCIENCE-RELIGION DIALOGUE scholarship that arose during the 1990s	S7
1. Scientific Community	S 8
Religious Beliefs of Scientists	S9
repeated James Leuba's 1916 survey	
4. "I believe in a God in intellectual and affective communication with humankind,	S10-11
i.e. a God to whom one may pray in expectation of receiving an answer. By "answer	r"
I mean more than the subjective psychological effect of prayer."	
Edward Larson & Larry Witham, "Scientists Are Still Keeping the Fai 386 <i>Nature</i> (3 Apr 1997), 4	
<u>Results</u> : 39% believe in miracles → personal God	S12
1916 Survey: 42%	S13
Leuba predicted 20 th century secularization would destroy belief	in God
<u>COMMENTS</u> :	S14
is this proof for God's existence? NO	.1 • 1
✓ but this is serious data because these scientists are serious 1 st Class Survey → Do you believe in miracles?	thinkers
Contribution to Science-Religion Dialogue	S15-16
5. "Both the National Academy of Sciences and the American Association for the	S17
Advancement of Science have launched projects to promote a dialogue between	
science and religion. New institutions aimed at bridging the gap have been formed,	,
including the Chicago Center for Religion and Science, and the Center for Theolog	<u>y</u>
and Natural Sciences in Berkeley, California. Universities such as Cambridge and	
Princeton also have established professorships or lectureships on the reconciliatio	n
of the two camps." Gregg Easterbrook, "Science and God: A Warming Trend 277 <i>Science</i> (15 Aug 1997), 890	?"
	, 518-19 H1
NAS & AAAS \rightarrow two of the most important scientific organizations in the	vorld
add to the list of professorships:	
Oxford, Harvard, Toronto St Joseph's College University of Alb	erta!

Introduction Episode 4 2. Religious Community S2 • Roman Catholic: Pope John Paul II S3 6. "New knowledge leads to the recognition of the theory of evolution as more than a hypothesis ... Sacred scripture wishes simply to declare that the world was created S4 by God, and in order to teach this truth it expresses itself in the terms of the cosmology [science] in use at the time of the writer ... 'The Bible does not wish to teach how heaven was made, but how one goes to heaven" [aphorism inspired by Galileo]." S5 Pope John Paul II, "Message to Pontifical Academy of Sciences on Evolution," Origins: CNS Documentary Service 26 (Nov 1996),415; "Scripture and Science: The Path of Scientific Discovery," Origins 11 (15 Oct 1981), 279 COMMENTS: **S6** • NO problem with evolution • Bible is NOT a book of science • Bible uses the science-of-the-day ANCIENT SCIENCE Major Theme of this course • Evangelical Protestant: Billy Graham S7 7. "I don't think that there's any conflict at all between science today and the Scriptures. **S**8 I think we have misinterpreted the Scriptures many times and we've tried to make the Scriptures say things that they weren't meant to say, and I think we have made a mistake by thinking the Bible is a scientific book. The Bible is not a book of science. S9 The Bible is a book of redemption ... And of course, I accept the Creation story. I believe that God did create the universe. S10 I believe He created man, and whether it came by an evolutionary process and at a certain point He took this person or being and made him a living soul or not, does not change the fact that God did create man ... Whichever way God did it makes no S11 difference as to what man is and man's relationship to God." David Frost, Billy Graham: Personal Thoughts of a Public Man. 30 Years of Conversations with David Frost (Colorado Springs, CO: Chariot Victor, 1997), 73-74 COMMENTS: S12-13 • Bible is NOT a book of science • Openness to evolution is not often heard in evangelical protestant churches • but this is slowly starting to change More anon 3. Summary S14-15 H1 Science & Religion Warfare is being challenged by prominent leaders within both the scientific community & the religious community **IV. CRITICISM OF THE NEW SCIENCE-RELIGION DIALOGUE** S16 **Richard Dawkins** S17 Most important atheist in the world today

8. "Are science and religion converging? No ... Convergence? Only when it suits.

To an **honest** judge, the alleged marriage between religion and science is a shallow, empty, spin-doctored sham."

R. Dawkins, "Snake Oil & Holy Water: Illogical Thinking Is the Only Thing Joining Science & Religion Together" *Forbes ASAP* (4 Oct 1999), 235, 237

Introduction E	-
<u>COMMENTS:</u>	S2
Note the subtitle: "Illogical Thinking is the Only Thing Joining Science & Religion Toger • as you proceed through this course, ask yourself, "Is this true?"	ther"
V. CONCLUSION	S 3
The central question in this course: How do <u>YOU</u> relate Science & Religion?	S4
SOME POSSIBLE RELATIONSHIPS:	
1. Scientism: Science Dictates to Religion EG Julian Huxley	S5
evolution explains away religion & God	
2. Fundamentalism: Religion Dictates to Science EG Henry Morris Bible reveals "true science" the world was created in 6 days 6000 years age	S6
Bible reveals "true science" \rightarrow the world was created in 6 days 6000 years ago	
 3. Compartmentalization: Science & Religion Do Not Communicate EG common in academic circles prior to 1990s many students entering this course 	S7
4. The Two Divine Books Relationship: Science & Religion Complement Each Other EG Pope John Paul II & Billy Graham	S8
Sir Francis Bacon	S9
a founding member of modern science in the early 17 th century	
9. "To conclude, therefore, let no man out of a weak conceit of sobriety, or an	
ill-applied moderation, think or maintain, that a man can search too far or be	
too well studied in the Book of God's Words, or in the Book of God's Wor	ks;
divinity [ie, theology] or [natural] philosophy [ie, science]; but rather let men	
endeavour an endless progress or proficiency in both."	
Advancement of Learning (1605) COMMENTS:	1.1.3 S10
• classic time-honoured relationship between Science & Religion: (1) Book of God's Words	510
Bible \rightarrow Religion \rightarrow studied by theologians	
(2) Book of God's Works	
Nature \rightarrow Science \rightarrow studied by scientists	
 Bible & Nature are GIFTS from God → they enhance & enrich each other use <u>both</u> Books to construct YOUR personal worldview 	r S11
Bible & Nature are used for loving God with our mind Jesus	S12
10. "Love the Lord your God with all your heart and with all your heart and with all your heart and with all you	our
soul and with all your mind. This is the first and greatest	
commandment." Matt 22:37-3	8
many students at the end of this course	
• NOT just a one-way street from professor to students! students have impacted me profoundly in this class	S13
I dedicated my book <i>Evolutionary Creation</i> (2008) to my Science & R students between 1997 & 2007:	eligion
"They taught me the meaning of loving God	

faithfully & fearlessly with our mind"

CATEGORIES & PRINCIPLES

I. KEY THOUGHTS

WARNING:

S	2
S	3

Your head is going to swim!!!

1. Science & Religion Warfare	S4
Cartoons are commentaries on our culture	S5
EG Non Sequitur Common messages:	
Forced to choose between only TWO positions: EITHER Science	
OR Religion	
Science explains away Religion	
2. PROBLEM behind Science & Religion Warfare	S 6
Categories	
DEF: the foundational concepts that direct the way we:	
 look at the world think about the world 	
Note the two verbs. Categories are like: 1. Glasses → give a view of the world	
2. Software → process information through a program or worldview	
Common Categories (general public & churches) trap the mind & force people to think in:	S7
<u>Dichotomies</u>	
DEF: division of an issue into only two simple positions	
thinking in 'black-and-white' & 'either/or'	
EG: science vs. religion EG: science vs. religion	
	60
Conflations DEF: careless collapsing & co-mingling of distinct ideas into ONE undifferentiate	S8 d
concept	
EG: science & all-encompassing capital "T" Truth	
science & atheism	
religion & strict literal reading of the biblical creation accounts religion & anti-evolutionism	S9
NOTE:	
we all begin our intellectual voyage in dichotomies & conflations	
3. SOLUTION toward a Peaceful Relationship between Science & Religion	S10
Introduce Academic Categories	510
Major Theme of this course:	
challenge common categories & replace with academic categories	
4. RESULT	S11
• Offer YOU a wide spectrum of possible relationships between Science & Religion	
• Allow YOU to make informed decisions & develop:	
YOUR worldview	~ · ·
YOUR personal beliefs	S12

II. THEOLOGY: GENERAL CATEGORIES Etymology of the word "Theology" Greek: θεος (<i>theos</i>): God λογος (<i>logos</i>): word	S2 S3
If theology is the study of God's Words, then we need to be aware of the languages in the Word of God (Bible)	
GREEK ALPHABET (see supplementary episode) H6 Why bother with languages? sometimes ideas are "lost in the translation"	2 S4
COMMENTS: • always be cautious with the term "God" has a very wide range of meanings & nuances: from a personal spiritual being (Jews, Christians, Muslims) to only beauty & harmony in physical world (Einstein)	S5
• ALL the definitions given below are the MOST BASIC & CENTRIST	
Theism Greek θεος (theos): God DEF: BELIEF in a personal God Supreme Being who is all-loving, all-powerful, and all-knowing EG: God of Jews, Christians, Muslims 40% of US scientists are theists	S6
Deism Latin <i>Deus</i> : God DEF: <u>BELIEF</u> in an impersonal God Supreme Being who creates the world and then has nothing to do with it	S7
began in the 18 th century (1700s) during the Enlightenment aka "God-of-the-philosophers" this God winds the clock of the universe & leaves it run down on its own EG: God of Charles Darwin for most of his adult life	
Atheism Greek α (<i>a</i>): a prefix that negates (called 'alpha privative') DEF: <u>BELIEF</u> that God does not exist. EG:	S 8
Richard Dawkins 1. "The universe we observe has precisely the properties we should expect if there is, at bottom, no design, no purpose, no evil and no good, nothing but blind, pitiless indifference." Richard Dawkins, <i>River Out of Eden: A Darwinian View of Life</i> (New York, NY: Basic Books, 1995), 133. KEY WORDS: "nothing but" → often used by atheists	S9
AgnosticismGreek α (a): prefix of negation γνωσις (gnōsis): knowledgeDEF:BELIEFBELIEFthat there is no knowledge regarding the existence or non-existence of Godcoined by Thomas Henry Huxley in 1869EG:Charles Darwin late in life	S10

Categories 1 Episode 7

	Categories 1 Episode 8
III. CHRISTIANITY: GENERAL CATEGORIES	S2
Christianity	S3
 defined by HISTORY & 3 main branches (divisions): 1. Roman Catholicism (325) 2. Eastern Orthodoxy (1054) 3. Protestantism (1517) 	S4 H1
 defined by CREEDS (major statements of belief): 2. Apostles' Creed (150 AD/CE) 	S5
<u>I BELIEVE</u> in God, the Father almighty, Creator of heaven as	nd earth.
<u>I BELIEVE</u> in Jesus Christ, his only Son, our Lord,	S6
He was conceived by the power of the Holy Spirit and bor	
He suffered under Pontius Pilate, was crucified, died, and He descended to the dead.	was buried.
On the third day he rose again. He ascended into heaven, a right hand of the Father.	and is seated at the
He will come again to judge the living and the dead.	
<u>I BELIEVE</u> in the Holy Spirit,	S7
the holy catholic Church, the communion of saints, the fo	rgiveness of sins,
the resurrection of the body, and the life everlasting. Ame Catechism of the Catholic Church (Ottawa, ON: Canadian	
COMMENT:	S8
Father, Son, and Holy Spirit = Holy Trinity. One G	od in Three Persons
Conservative Christianity CONSERVES the beliefs of the Apostles' Creed • Jesus = fully God & fully human • Resurrection of Jesus' physical body • Bible Inspired (capital "I" inspired) by Holy Spirit	S9
Liberal Christianity	S10
REJECTS the beliefs of the Apostles' Creed • Jesus = merely an enlightened man • Resurrection of Jesus' teaching only • Bible inspiring (small "i") literature written by humans only	S11 H1
NOTE: Science a contributing factor in development of Liberal Christianit It arose <u>after</u> the birth of: modern science in the 17 th century (Galileo, <i>Dialogue</i> 1632) evolutionary science in the 19 th century (Darwin, <i>Origin of Spec</i>	y in the 19 th century
SCIENCE IMPACTS RELIGION!!!	
Fundamentalism reaction to Liberal Christianity modern science viewed as an enemy of religion	S12
 appears during the 1920s in North America, especially the United States strict biblical literalism anti-evolutionism Science & Religion Warfare 	S13 H1

Catholic & Evangelical	Categories 1 Episode 9 S2 H1
TIP: distinguish the adjectives from the nouns	
Cat/holic: Greek κατα (<i>kata</i>): with respect to όλος (<i>holos</i>): whole	
Ev/angelical:	S3 H1
Greek ευ (eu): good ανγελος (angelos): messenger	
LAMOUREUX'S RELIGIOUS BELIEFS:	S4
Pre-Protestant Reformation Christian	
Catholic \rightarrow I embrace the whole church	
Evangelical \rightarrow I focus on Good News, the Gospel	.)
Theological Education: Masters at Regent College (Evangelical Protestat PhD at U of St. Michael's College (Roman Catho	
WARNING ON PARADIGMS:	S6
paradigms are teaching tools to help organize information	
Divine Revelation	S7
DEF: <u>BELIEF</u> that God communicates with humanity	
(1) Special Revelation	S8
DEF: <u>BELIEF</u> that God communicates SPECIFIC information to hu	ımanity
• Incarnation Latin <i>in</i> : in <i>carnis</i> : flesh God became a man and revealed himself through Jesus "The Word [Jesus] was God and became flesh" Jn 1:1-3,	S9 H2
Greatest act of revelation: God in the Flesh \rightarrow Jesus	
Biblical Revelation	S10 H2
God inspired the writers of the Bible to reveal himself	
"All Scripture is God-breathed" 2 Tim 3:16 The Old Testament has the "very words of God" Rom 3:2	
The Old Testament has the very words of God Rom 5.2	
Personal Revelation	S11 H2
answered prayer, dreams, visions, signs & wonders EG 40% of US scientists believe God answers prayer	
(2) General Revelation	S12
DEF: <u>BELIEF</u> that God communicates GENERAL information to al	l of humanity
Natural Revelation	S13 H2
nature reflects God & some of his general attributes "The heavens declare the Glory of God and the skies procla	
"God's invisible qualities clearly seen and understood fro	Ps 19:1 om what has been made" Rom 1:19-20
Intelligent Design → HUGE topic in Science & Religion	S14 H2
Moral Revelation	S15 H2
human conscience & sense of morality	
"The law written on the human heart" Rom 2:14-15	
aka "moral compass" within us Supplen	nentary Quotes 1-6 S16 H2

Supplementary Quotes 1-6 S16 H2

The Two Divine Books DEF: <u>BELIEF</u> that God communicates (reveals) to humanity three	Categories 1 Episode 10 S2 ough two "books"
 time-honoured way for relating Science & Religion EG Sir Francis Bacon 	
 (1) Book of God's Words Bible VERBAL Latin <i>verbum</i>: word uses words → offers specific information 	S3 H2
 (2) Book of God's Works Nature NON-VERBAL does NOT use words → offers only general inform EG it is like music. A symphony does not use 	
The Bible	Summary 33-0 S7
 it's like an ANTHOLOGY written by roughly 50 authors over roughly 1500 years has different types of literature (ie literary genres) 	
• gives the impression of being a historical record some events align with archeological evidence & ancient his	S8 H3 storical records
 CENTRAL QUESTION in Science-Religion dialogue: What is the literary genre of Genesis 1-11? History? Allegory? Fairy Tale? 	S9 H3
SUGGESTION: read Genesis 1-11 & outline your provisional in	nterpretation
Divine Action DEF: <u>BELIEF</u> that God acts in the world	S10
Two Basic Concepts: (1) <u>CONTEXT of Divine Action</u> • Personal DEF: divine acts with people	S11
• Cosmological Greek κοσμος (<i>kosmos</i>): cosm DEF: divine acts in nature (i) origins (ii) operations	os, entire universe
 (2) <u>MODE of Divine Action</u> Interventionism DEF: dramatic divine acts God breaks into the regular routines of Providentialism DEF: subtle divine acts God works through the regular routine 	
Six Basic Categories of Divine Action:	For examples of each category see H3
1. Personal Interventionism	S13 H3
2. Personal Providentialism	S14 H3
3. Cosmological Interventionism in Origins	S15 H3
4. Cosmological Interventionism in Operations	S16-17 H3
5. Cosmological Providentialism in Origins	S18 H3
6. Cosmological Providentialism in Operations	S19 H3

	Categories 1 Episode 11
How to Determine the Category of Divine Action:	S2
1 st determine CONTEXT	
Does it deal with people OR is it with the origins/operations in	the cosmos?
2 nd determine MODE	
	-)9
Is it dramatic (interventionism) OR is it subtle (providentialism	n)?
TIP: Personal Trumps Cosmological	S3
EG	
3. Joshua & the miracle of the sun stopping	S4
Joshua said to the Lord in the presence of Israel: 'O s	
The sun stopped in the middle of the sky and delayed	
about a full day.	Josh 10:12-13
QUESTION: What category of divine action?	
QUESTION. What category of drvine action?	
Sin	85
DEF: BELIEF that certain acts are wrong/evil because they break God's int	tention for joyous and
peaceful human living.	3-3-1
God is NOT a cosmic kill-joy!!!	
Sou is iter a cosmic kin joy	
Conservative Christian Position on Sin:	S6
real & humans are accountable before God	50
	S7 H4
determined by God → 10 Commandments 2 Great Commandments of Jesus	
2 Great Commandments of Jesus	S8-9 H4
- Secular (et times Liberal Christian) Desition on Sin	C10
• Secular (at times Liberal Christian) Position on Sin:	S10
ONLY a cultural artifact, social convention & ultimately relative	
ONLY determined by humans	
LAMOUREUX'S POSITON ON SIN:	S11
 Biblical: from the opening pages to last pages 	
 Historical: major doctrine throughout Church history 	
• Experiential (life experience): have a look around the planet!	
look inside YOURSELF	
Was the Holocaust nothing but the clash of relative socio-cultural c	onventions?
OR	
Was the Holocaust truly wrong, truly evil, and truly sinful? YOU	decide.
IV. PHILOSOPHY: GENERAL CATEGORIES	S12
Term "Philosophy" is made up of:	
Greek φ i λ o ζ (<i>philos</i>): beloved, friend	
$\sigma o \phi i \alpha$ (sophia): wisdom, understanding	
Worldview (Personal Philosophy)	S13
DEF: <u>BELIEFS</u> concerning: (1) ULTIMATE character of the world	
(2) our place in the world	
(3) how to live in the world	
 everyone has a worldview or person 	al philosophy
A goal of this course:	
A goal of this course:	
to become aware of YOUR worldview and to develop it further	

Cat	egories 1 Episode 12
Metaphysics Greek μετα (<i>meta</i>): behind, beyond, after φυσις (<i>phusis</i>): nature → etymology of English words "physics" & "phys	S2 sical"
 DEF: Ultimate Beliefs beliefs about the Ultimate Reality behind and beyond nature religious & philosophical beliefs everyone has a metaphysics 	
Intelligent Design	S3
DEF: BELIEF that the beauty, complexity, and functionality in nature reflect rat	
the creative work of an Intelligent Designer	
Teleology Greek τελος (<i>telos</i>): plan, purpose, goal, final end	S4
DEF: BELIEF that the universe & life have an ultimate plan and ultimate purpose	
that the world is moving toward an ultimate goal or final end	
• teleology is based in some Ultimate Being or Power	
 Intelligent Design → REAL 	
• Intelligent Design - KEAL	
Dysteleology German: <i>dysteleologie dys</i> : to lack <i>teleologie</i> : teleology	S5
DEF: <u>BELIEF</u> that the universe & life have NO ultimate plan, NO ultimate purp	
	J088,
NO ultimate goal, and NO ultimate final end	
• universe & life arose through nothing but blind chance	
• Intelligent Design → ILLUSION	
EG Richard Dawkins	97
4. "The universe we observe has precisely the properties we should	S6 d expect if
there is at bottom no design , no purpose , no evil and no good	-
	, nothing but
blind , pitiless indifference." R Dawkins, <i>River Out of Eden</i> (NY: Ba	sic Books, 1995), 133
5. "The complexity of living organisms is matched by the elegant of	efficiency of S7
the apparent design."	
R Dawkins, <i>The Blind Watchmaker</i> (Londo	on: Penguin, 1986), xiii
METAPHYSICS-PHYSICS PRINCIPLE	S8
1 st Major Principle in this course foundational to Science-Religion scholarship	
(1) STRUCTURE	S9 H5
 Upper Compartment of METAPHYSICS (Religion & Philosophy) deals with Ultimate Beliefs 	
Scientific instruments do not work in the realm of metaphysical bel	liefs
EG cannot put God, sin, or teleology/dysteleology in a test tub	
Lower Compartment of PHYSICS (Science)	S10 H5
• Lower Compariment of PHYSICS (Science) deals with <u>Physical Facts</u>	510 113
Scientific instruments work extremely well in the natural world	
EG nature can be placed in a test tube	

	Categories 1 Episode 13
(2) COMPLEMENTARY RELATIONSHIP	S2 H5
• Latin <i>complēre</i> : to fill, complete	
In a complementary relationship, two parties add something that i	is lacking in the other
so that they complete each other \rightarrow enhance & enrich	
Two-way exchange between: Metaphysics (Religion & Philosophy) Physics (Science)	S3 H5
• Rooted in reciprocal STEPS OF FAITH (or intellectual leaps)	
informed by Intuition & Reason	
no mathematical formula to move between upper & lower compar	tments
 everyone takes these Steps of Faith whether they are aware 	e of it or not
UPWARD STEP OF FAITH	S4 H5
Science offers PHYSICAL FACTS to Religion & Philosophy	
EG: Facts of an average cell:	S5 H5
$1/1000^{\text{th}}$ inch	55 П.5
2 yards of DNA	
Storage Capacity = 1.5 GB (2 CDs) = 6500 Bool	ra(200 magaz anal)
QUESTION:	ks (500 pages each)
Does this scientific evidence reflect intelligent design	n?
DOWNWARD STEP OF FAITH	S6 H5
Religion & Philosophy offer metaphysical BELIEFS to Scier	nce
NB: this is often overlooked & rarely acknowledged	
These beliefs function like a "Metaphysical Filter" through	which we:
(1) observe nature	
(2) interpret nature	
QUESTIONS:	S7 H5
• Do atheists view nature through "Dysteleological Eyes"	
Does their Metaphysical Filter force them to believe	
	-
• Do <u>Christians</u> view nature through "Teleological Eyes? Does their Metaphysical Filter force them to believe	
Does then wetaphysical ritter force them to believe	design is real?
TIP: SEPARATE DON'T CONFLATE	S9 H5
Common error of atheists & agnostics is that they often confl	late their Metaphysics &
science, and they assume their worldview is purely scientific	2
But atheists & agnostics have ULTIMATE BELIEFS	!
PROVOCATIVE QUESTIONS:	S10 H5
• Is there a Personal Factor influencing the reciprocal Steps of Fa	aith?
Does our relationship with God (or lack of a relationship) im	pact the intellectual leap?
• If so, could there be a Commandment #1 issue with those who re	eject intelligent design?
Does sin have an impact on our thinking?	
Leads to next section:	
Epistemological Categories	
the 'mental machinery' or 'intellectual tools' that direct our th	inking and
allow us to build our worldview	-

Categories 1 Episode 13

Catego	ories 2 Episode 14
V. PHILOSOPHY: EPISTEMOLOGICAL CATEGORIES	S2
Epistemology Greek επιστημη (<i>epistēmē</i>): knowledge DEF: rules of knowing theory of knowledge	S3
STUDENTS CONFUSE THIS!!! NOT knowledge itself. NOT information BUT how we know → "Mental Tools" "Mental Software" & "Mental Hardware" that allows us to know & under everyone has an epistemology	rstand
FOUNDATIONAL EPISTEMOLOGICAL CATEGORIES	S4 H6
1. Correspondence knowledge matches external reality	54 110
2. Coherence	
knowledge internally consistent & without contradictions	
3. Consilience	
knowledge interconnects & fits tightly into one encompassing theory	
YOU have these categories otherwise you would never have made it to un	iversity
RELIGIOUS EPISTEMOLOGICAL CATEGORIES	S5 H6
1. Divine Foundation of Knowledge	S6 H6
DEF: knowledge is ultimately rooted in God6. The fear of the Lord is the beginning of knowledge. Prov 1:7	S7
COMMENT: issue with word 'fear.' 17 th English expression (KJV)	
FearHebrew: yare'KnowledgeHebrewbe afraid \rightarrow our definition aweawefacts \rightarrow our definition practical skillsmarvelpersonal experience wisdom, discernme respectwisdom, discernme morals	ion e
Biblical Notion of Knowledge: • rooted in God & relational to God • personal • wide & holistic • NOT just facts	S8 H6
QUESTION: What is the foundation of YOUR knowledge?	S9 H6
Is knowledge ultimately rooted in God (or some teleological factor)? OR	•
A brain built for & shaped by a dysteleological evolutionary process A brain produced by nothing but 4Fs:	? S10 H6
(1) (2)	
(3) (4)	

IMPLICATIONS:	S2
IF we have a dysteleological brain that was produced by nothing but 4Fs:	
Why should we trust our brains?	
Why should we trust our knowledge?	
NOTE: 4Fs argument in Alvin Plantinga "Is Naturalism Irrational?" <i>Warrant & Proper Functio</i> (Oxford, UK: University Press, 1993), 216-2	
2. Mystery	S3
DEF: knowledge that is beyond the human ability to know	
ideas that the human mind will NEVER grasp	
EG Religious:	
Where did God come from?	
Secular: Where did energy & metter some from?	
Where did energy & matter come from? Albert Einstein:	S4
	54
7. "The eternal mystery of the world is its comprehensibility." Albert Einstein, "Physics and Reality," <i>Journal of the Franklin Institu</i> .	ta
translator Jean Piccard, 221:3 (March 1936), 3.	
COMMENTS:	S5
 <u>not</u> small 'm' mystery. EG medical mysteries 	
• but capital 'M' mystery \rightarrow concepts humans will <u>never</u> understand	
• reflects the (creaturely) limits of human mind	
• word 'mystery' appears 30+ times in Bible	S 6
8. Can you fathom the mysteries of God? Can you probe the limits of the Almi	ighty?
	ob 11:7
9. Now we see but a poor reflection; then we shall see face to face. Now I know	v 1n
part; then I shall know fully. 1 Cor 13:12 Other verses on mystery: SQ) 16-18
3. Impact of Sin	S 7
DEF: knowledge is influenced by the spiritual state of a person	
Does our relationship with God (or lack of) affect our ability to know? EG: does being a God-hater affect a person's ability to think clearly & rational	a11 . .9
See Richard Dawkins' view on God in SQ 19	-
See Richard Dawkins View on God in SQ 19	S 8
The Bible on Sin & Epistemology:	S9
10. For although they knew God, they neither glorified him as God nor gave thanks	
to him, but their thinking became futile and their foolish hearts were darkened	1.
Although they claimed to be wise, they became fools and exchanged the glory o	f
the immortal God for images made to look like mortal man and birds and anima	ls
and reptiles. Rom 1:21-2:	3
COMMENTS:	S10
• in the Bible:	
words 'fool' & 'foolish' do not mean intellectually stupid	
a fool is someone missing out on the best part of life \rightarrow GOD	
• Reject Commandment #1 (God is #1), then break Com. #2 (Idolatry))
QUESTION:	S11
IF there is a Commandment #1 Problem,	
THEN is there also a Knowledge Problem?	
Does Sin Impact OUR Epistemology?	

✓ YOU DECIDE

Categories 2 Episode	e 16
EXAMPLE: Alvin Plantinga Wayanted Christian Poliof (Oxford University Press, 2000)	S2
Alvin Plantinga, Warranted Christian Belief (Oxford University Press, 2000)	
Chapter 7: Sin and Its Cognitive Consequences IV. The Noetic Effects of Sin Greek νuος (<i>nous</i>): mind B. Sin and Knowledge	
SIN & METAPHYSICS-PHYSICS PRINCIPLE S3 QUESTIONS:	3 H5
(1) IF sin is real,IF the greatest sin is breaking Commandment #1 (God is #1),THEN will sin impact the Upward & Downward Steps of Faith?	
(2) BUT IF someone believes in God, S4 THEN will this belief impact the Upward & Downward Steps of Faith?	4 H5
BE AWARE: Our Metaphysical Beliefs IMPACT Our Epistemological Tools	S5
Positivism DEF: a theory of knowledge that claims Truth is only determined by: (1) logic & (2) science	S6
"MATH & TEST TUBE EPISTEMOLOGY"	
 if you can't analyse it logically or put it in a test tube, then it is MEANINGLESS Therefore → God & spiritual realm are "meaningless" 	
 reality can be REDUCED into "NOTHING BUT" molecules Therefore → humans are "nothing but" a collection of molecules 	
LAMOUREUX'S VIEW ON POSITIVISM: I love logic & I love science BUT	S7
Problems:	
• Epistemological Loading of the Dice	
IF there is a spiritual realm, then positivists will never know it because by definition their theory of knowledge rules it out	
• Experientially Suspect (life experience) EG love is reduced to nothing but molecules in your brain BUT	S8
can you say to someone that you love:	
"I love you, but realize that love is nothing but an illusion concocted by molecules in our brain, and it is ultimately & utterly meaningless."Can you say this to your mom?	
Scientism DEF: conflation of science & secular worldview common understanding of science	S9
Secular worldview features: positivism dysteleology humanist ethics → humans decide morals & values, not God	

	itegories 2 Episode 17
Modernity (1600-1950) DEF: a period in intellectual history marked by the eventual emergence of pos dominant epistemology	S2 itivism as the
HISTORY:	
Begins with birth of Modern Science (1600s) \rightarrow Theism	
Develops during the Enlightenment (1700s) \rightarrow Deism	
Culminates with Scientism (1900s) \rightarrow Agnosticism & Atheism	
Post-Modernity (1950+) DEF: a period in intellectual history marked by an epistemological crisis & br Features:	S3 eakdown of Modernity
• truth is more than math & test tubes \rightarrow challenges Positivism	
• "humanization" of knowing. It is more: (1) Personal (2) Social	
Good News:	S4
opens the door for religious people & other teleologists:	54
 truth is not limited to just math & test-tubes 	
removes the attitude that "Science is King" & "Science Rules"	
Bad News:	\$5
no such thing as Truth (capital "T")	
all sorts & lots of "truths" (small "t")	
everyone has a "truth"	
leads to excessive relativism	
VI. HERMENEUTICAL CATEGORIES	S6
Hermeneutics	S6 S7
Hermeneutics DEF: rules of interpretation for reading a book <i>everyone has hermeneutics</i>	S7
Hermeneutics DEF: rules of interpretation for reading a book <i>• everyone has hermeneutics</i> DRAWING EXERCISE:	S7 S8-10
 Hermeneutics DEF: rules of interpretation for reading a book <i>e everyone has hermeneutics</i> DRAWING EXERCISE: 11. In the beginning God created the heavens and the earth. Now the earth 	S7 S8-10 h was formless
 Hermeneutics DEF: rules of interpretation for reading a book <i>everyone has hermeneutics</i> DRAWING EXERCISE: 11. In the beginning God created the heavens and the earth. Now the earth and empty, darkness was over the surface of the deep, and the Spirit 	S7 S8-10 h was formless
 Hermeneutics DEF: rules of interpretation for reading a book <i>everyone has hermeneutics</i> DRAWING EXERCISE: 11. In the beginning God created the heavens and the earth. Now the earth and empty, darkness was over the surface of the deep, and the Spirit hovering over the waters. 	S7 S8-10 h was formless of God was Gen 1:1-2
 Hermeneutics DEF: rules of interpretation for reading a book <i>everyone has hermeneutics</i> DRAWING EXERCISE: 11. In the beginning God created the heavens and the earth. Now the earth and empty, darkness was over the surface of the deep, and the Spirit hovering over the waters. NB: The Bible has a 3 Tier Universe The best example appears in the Kenotic Hymn (Phil 2:6-1) 	S7 S8-10 h was formless of God was Gen 1:1-2 S11 H6
 Hermeneutics DEF: rules of interpretation for reading a book <i>everyone has hermeneutics</i> DRAWING EXERCISE: 11. In the beginning God created the heavens and the earth. Now the earth and empty, darkness was over the surface of the deep, and the Spirit hovering over the waters. NB: The Bible has a 3 Tier Universe The best example appears in the Kenotic Hymn (Phil 2:6-1) Greek Κενοω (kenoō): "to empty, pour out" 	S7 S8-10 h was formless of God was Gen 1:1-2 S11 H6
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-	2 Episode 18 S2
<u>COMMENTS</u> : • English translation "UNDER THE EARTH" is not the actual Gro καταχθονιων (katachthoniōn):	
κατα = down	
$\chi \theta o v i o \zeta =$ subterranean world, chthonic realm, underwor	·ld
 More accurate translation reveals that Paul believed in a 3 Tier [1] in heaven and, [2] on earth and, [3] in the UNDERWORLD 	Universe S3 H6
Eisegesis Greek $\epsilon_{I\zeta}$ (<i>eis</i>): in, into $\eta\gamma\epsilon_{O\mu}\alpha_{I}$ (<i>ēgeomai</i>): to guide DEF: reading our views or agenda INTO a book	S4
common error in reading of ancient texts like the Bible	
EG: Reading OUR 21 st century science (spherical earth) into the Bible	
Exegesis Greek $\epsilon \kappa$ (<i>ek</i>): out, out of $\eta \gamma \epsilon o \mu \alpha i$ (<i>ēgeomai</i>): to guide DEF: reading a book's views or agenda <u>OUT</u> of it. goal of reading any book, including the Bible	S5
Hermeneutical Horizons	S6
DEF: the conceptual worlds of the (1) Bible and (2) Modern Reader EG flat earth & spherical earth	S7 H7
HUMAN REPRODUCTIVE BIOLOGY	S8 H7
GREEK σπερμα (<i>sperma</i>): 1. seed that farmers sow in fields 2. seed that ONLY males release during sex	S9 H7
One "Seed" Theory (Preformatism) ancient reproductive biology	S10 H7
ONLY males have reproductive seed & females DO NOT have repro assumed an entire miniature person inside the male "seed"	ductive seed
Miraculous Birth of Isaac (Gen 17 & 21) Abraham (100 yrs old) & Sarah (90 yrs old), but God promises a child	S11
13. By faith Abraham, even though he was past age-and Sarah herself was enabled to become a father [σπερμα + καταβαλλω] becaus	
considered him [God] faithful who had made the promise.	Heb 11:11
$\frac{COMMENTS}{\kappa \alpha \tau \alpha \beta \alpha \lambda \lambda \omega}: \text{ to thrown down}$ κατα (<i>kata</i>): down βαλλω (<i>ballō</i>): to throw σπερμα + καταβαλλω technical term = to ejaculate (only	S12
HEBREW $\mathcal{Y} \supseteq \mathcal{I}$ noun (<i>zera</i>): 1. seed that farmers sow in fields 2. seed that ONLY males release during sex	S13
"flow of seed [zera']" = ejaculation of set	
HEBREW $\mathcal{Y} \supseteq \zeta$ verb (<i>zāra</i> '): 1. to sow seed in fields 2. to be made pregnant	S14-15 H7
"a woman shall be seeded [$z\bar{a}ra$ '] with s	eed [<i>zera</i> ']" Num 5:28
HEBREW ALPHABET (see supplementary episode)	S16 H62

	Categories 2 Episode 19
Hermeneutical Gaps	S2
DEF: conceptual differences between the Bible & Modern Reader	C2
Historical Egypt a world super power in 1500 BC/E	\$3
Cultural	
Jesus washing the feet of his disciples before dinner John 13:3-1	.7
• Linguistic	
word $\sigma \pi \epsilon \rho \mu \alpha$ in the context of human reproduction Heb 11:11	
• Philosophical	S4
sin as an epistemological factor Rom 1:21-23 • Scientific	
shape of the earth in the Bible Phil 2:10-11	
CHALLENGE:	S 5
Gaps WIDEN with time	
Older the text, the stranger it will read	
21st century people steeped in 21st century science will find stateme	ents about nature in the
Bible quite unusual and even bizarre	
GOAL:	S6
Bridge or close the gap	
THINK LIKE AN ANCIENT PERSON	
	07
Biblical Inerrancy DEF: <u>BELIEF</u> the Bible is absolutely true & without error → it was inspired.	S7 red by God (Holy Spirit)
• Inerrancy based on the Bible	S8
Old Testament:	
14. Every word of God proves true. Prov 30:5	1
15. All your [God's] words are true; all your righteous laws	s are eternal. Ps 119:160
New Testament:	
16. The Jews have been entrusted with the very words of G	od. Rom 3:2
17. All Scripture is God-breathed. 2 Tim 3:16-17	
• Inerrancy rooted in God's character \rightarrow God of Truth \rightarrow God doe	s NOT lie! S9
18. God, who does not lie. Titus 1:2	
19. It is impossible for God to lie. Heb 6:18	
BUT	S10
At the name of Jesus every knee should bow,	
[1] in heaven and,	
[2] on earth and,	
[3] in the UNDERWORLD,	
and every tongue confess that Jesus Christ is Lord,	
to the glory of God the Father. Phil 2:10-11	
<u>COMMENTS</u> : IE the Christian Could in the Counter of the model and the Author of the	S11
• IF the Christian God is the <u>Creator of the world</u> and the <u>Author of th</u>	
THEN it is reasonable to expect an alignment between the Two I	Jivine Books
• Did God make an error or mistake when he inspired the biblical aut	nor Paul?

• DID GOD LIE IN THE BIBLE?

Categories 3 Episod	de 20
Categories of Biblical Statements	S2-3
	S4 H8
2 relationships	
1 date All the Bible verses in H8 SQ	21-34
THREE CATEGORIES	
	S5 H8
DEF: God & spiritual reality	
	5-9 H8
DEF: human activities in the past	
ONE DATE:	
 1st archeological evidence for the existence of Israel → 1200 BC/E (Merneptah Stell Israel appears LATE in the Ancient Near East (ANE) The writing of the Bible (Gen 1-11) is LATE 	le)
	10 H8
DEF: structure, operation & origin of the physical world	10 110
<u>Relationship #1</u>	11 H8
The Problem between Biblical Inerrancy & Biblical Scientific Statements:	
• God does NOT lie, BUT statements about nature (scientific) in the Bible DO NOT align with physical reality (EG Phil 2 & 3 Tier Universe)	
Different Approaches: Ignore Reject: modern science (many Bible-believing Christians who reject evolution) the Bible (many scientists & evolutionists who reject Christianity) Respond: 1. common hermeneutics	12 H8
2. academic hermeneutics	
1. Common Hermeneutical Responses Poetic Language Argument	S13
Statements about nature in the Bible are often in poetic passages, and they use figurative lang	uage.
They have no basis in physical reality and are simply fanciful figures of speech.	
 Therefore, <u>do not</u> take these statements literally. 	
COMMENT: a little too simplistic	
Common Definition of Poetry : poetry = figurative language & fanciful ideas EG	S14
Phil 2:10-11 is a in hymn & poetic Therefore, write-off the 3-tier universe as "poetic" & not literal	
BUT Phil 2:6-11 also affirms the Incarnation Therefore, write-off the Incarnation as "poetic" & not literal does any Christian want to do that?	
Academic Definition of Poetry: poetry = structured writing includes figurative & fanciful language BUT it can also refer to physical reality	S15

	gories 3 Episode 21
CATEGORIES OF POETIC LANGUAGE	
• Fanciful Figures of Speech "All the trees of the field will clap their hands." Is 55:12 do trees have hands?	S2
• References to Physical Reality "God established the sun and moon , he set all the boundaries of the write-off the reality of the sun, moon & earth because these ap	
 Scientific Metaphors to Depict Physical Reality "God stretches out the heavens like a canopy & spreads them out heat a tent depicts the ancient science of a 3-tier universe: domed canopy (heaven) & flat floor (earth) use of metaphors is part of science → EG magnetic field 	S4 ike a tent to live in." Is 40: 22 S5 H6
CONCLUSION: determine the type of poetic language being used by the author	S6
Phenomenological Perspective Argument Greek Φαινωμενον (phainōmenor Statements about nature in the Bible are from the perspective of what they look natural senses (eg. naked eye). They are only phenomenological and merely vis For example, check any newspaper today and you will find the times for "sunri. "sunset." But everyone knows that the sun does not literally rise or set. Therefore, do not take these statements literally.	like to the gual effects.
COMMENT: a bit more sophisticated & closer to the truth	
CRITICAL QUESTION: when <u>ancient people</u> used the words 'sunrise' or 'sunset,' did the the same way that <u>we</u> do today? ANSWER: NO	S8 by use these in
Proof → Galileo Affair up to 1600s people believed: (1) sun literally moved ac (2) earth literally did not	
<u>CATEGORIES OF PHENOMENOLOGICAL PERSPECTIVE</u> Ancient Phenomenological Perspective what <u>ancient people</u> saw, they believed was ACTUAL sun actually moves across the sky earth actually did not move	S9
Modern Phenomenological Perspective what <u>we</u> see, we understand to be only an APPEARANCE so-called "movement" of sun an appearance → earth's rotation so-called "immovability" of earth an appearance → gravity	S10
CONCLUSION: IF you write-off statements in the Bible like the sun "rising/setting" as mo THEN you are reading <u>YOUR</u> modern phenomenological perspective	INTO the Bible

Categories 3 Episod	de 22
2. Academic Hermeneutical Response	S2
Categories of Biblical Concordism & Correspondence	S3
DEF: alignment between the Bible and reality	
(1) Spiritual Correspondence	S4
DEF: spiritual statements in Bible align with spiritual reality	
(2) Historical Concordism	
DEF: historical statements in Bible align with human history	
(3) Scientific Concordism	
DEF: scientific statements in Bible align with physical reality	
NB: term "concordism" is not use in the context of spirituality	
RELATIONSHIP #2	S5 H8
	S6 H9
human origins deals with all the categories of correspondence & concordism THE MOST CHALLENGING VERSE IN SCI-REL:	S7
20. The Lord God formed the man from the dust of the ground and breathed into)
his nostrils the breath of life, and the man became a living being. Gen 2:7	
	S8 H9
Spiritual Statement?	50 117
reveals the actual method that God used to create the first human	
Historical Statement?	
reveals the actual beginning of human history	
Scientific Statement?	
reveals the <u>actual</u> origin of humans \rightarrow human evolution is false	
LAMOUREUX'S POSITION ON CONCORDISM & CORRESPONDENCE:	S9 H9
• Accept spiritual correspondence 1 st and foremost throughout the Bible	
 Accept historical concordism roughly from Gen 12 onward in the Bible 	
Reject historical concordism in Gen 1-11	
Reject scientific concordism throughout the Bible	
Scientific Concordism	S10
DEF: common assumption that the Bible aligns (or is supposed to align) with modern science NB often referred to as simply 'Concordism' in Sci-Rel literature	
	C11
 Reasonable Expectation: God inspired the Bible ✓ 	S11
God created the world \checkmark	
Therefore → God's Two Books should align	
Church History:	
scientific concordism was part of <u>academic hermeneutics</u> up to the 20 th century common view today held by most evangelicals & fundamentalists	
QUESTION:	S12
Is scientific concordism true?	
MY ANSWER:	
NO	
MY REASON: Bible is NOT a book of science (EG, Pope John Paul II & Billy Graham)	
	\$13
Major Theme in this course	515
➡ Bible uses the science-of-the-day → ANCIENT SCIENCE	S13

Message-Incident Principle	S2
The 2 nd Major Principle in this course foundational to the relationship between the Bible & science NOTE: this principle is <u>limited</u> to statements about the natural world in the Bible	
(1) STRUCTURE	S3 H5
 Upper Compartment: The MESSAGE Spiritual Truths INERRANT → absolutely true & without error 	
• Lower Compartment: The INCIDENT Ancient Science Science-of-the-day Ancient Phenomenological Perspective of the natural world	S4 H5
(2) INCIDENTAL RELATIONSHIP	S5 H5
• DEF of Incidental: to occur in connection with something important that which helps	
• Incidental ancient science is a vessel that helps deliver the more important Spiritual T	ruths
 though ancient science is incidental, it is <u>essential</u> in transporting the Message During the process of inspiring the Bible, God <u>accommodated</u> & allowed the ancient authors to use the science-of-the-day 	S6 S7 H5
APPLICATION: Phil 2:10-11 Message: Jesus is Lord of the entire universe Incident: 3-tiered universe	S8 H5
TIP: SEPARATE DON'T CONFLATE common error of Christians is that they often <u>conflate</u> the Message & the ancient science	S9 H5
VII. ORIGINS DEBATE: GENERAL CATEGORIES	S10
In this debate, the distinction clearly emerges between: 1. Common (Church & Public) Categories 2. Academic Categories	
 "Evolution" vs. "Creation" Debate DEF: common view of the origins debate BOTH inside & outside the church leads to Science & Religion warfare 	S11
Creation DEF (Common): origin of universe & life in six 24-hour days 6000 yrs ago based on a strict literal reading of Gen 1 CONFLATION: Christianity & literal interpretation of Gen 1	S12
DEF (Academic): RELIGIOUS <u>BELIEF</u> the world (creation) was made by a Creator Physical How? questions are not part of theology	

S2

Evolution

DEF (Common): a natural process of molecules-to-humans through blind chance only CONFLATION:

UNILATION.

atheism & evolution

atheism & evolution	
DEF (Academic): SCIENTIFIC <u>THEORY</u> that describes the nature heavens, the earth, and all living organisms, inc	
ANIMALS: molecules → single cells → soft-bodied marine with skeletons → jawless fishes → jawed fishes mammals → primates → pre-humans → humans PLANTS: molecules → single cells → marine plants → lan flowering plants	\rightarrow amphibians \rightarrow reptiles \rightarrow
Metaphysical Why? questions are not:	part of science
	-
Darwinism DEF (Common): atheistic evolution CONFLATION: atheism & Darwin	S3
NOTE:	S4
• Darwin never was an atheist!!!	
21. "I have never been an atheist in the s	
the existence of a God."	Darwin to Fordyce (7 May 1879) Life & Letters of Darwin, I:304
• Term "Darwinism" is not often used in biology computer search of biological abstracts (B) Evolution (93,696) Darwinism (151)	IOSIS) between 2011-2015:
SUGGESTION:	
don't use the term 'Darwinism'	
it misrepresents Charles Darwin & it only cause	es confusion
Re-Categorizing Origins QUESTIONS:	S6-9 H5&9
Is evolution teleological or dysteleological?	
Is it possible to be both a creation <u>ist</u> & an evolution <u>ist</u> ? TIP: Embryology-Evolution Analogy → God uses na	atural processes
VIII. ORIGINS DEBATE: SPECIFIC CATEGORIES	S10
Evolutionary Sciences	S11
<u>Cosmological Evolution</u>	
13.8 billion yrs ago there was a massive explosion (termed "The space, time, and matter, and eventually led to the evolution of	
Coological Evolution:	

Geological Evolution:

4.5 billion yrs ago planet earth formed. Natural processes such as erosion, volcanic activity, and the movement of continents have caused the earth to evolve and change over time.

Evolutionary Biology

3.8 billion yrs ago inert molecules self-assembled into living cells from which evolved plants and animals, including humans

С	ategories 3 Episode 25
Young Earth Creation	S2
DEF: God created the universe & life in six 24-hour days, 6000 yrs ago	
Gen 1: strict literal interpretation	
common view of a "creationist" & <u>THE</u> Christian position	
Progressive Creation	S3
DEF: God created life intermittently (progressively) at different points over b	
Gen 1: Creation Days = Geological Periods millions of yrs long	·
Enclose the second Connection	
Evolutionary Creation DEF: Personal God created universe & life through evolution	S4
Gen 1: reveals Spiritual Truths, not modern scientific facts	
has an ancient science \rightarrow ancient understanding of origins	
uses the academic definition of the term 'creation'	
evolutionary creationists believe in a Creator & the worl	d is his creation
evolutionary creationists believe in a creator & the wort	
Deistic Evolution	S5
DEF: <u>Impersonal God</u> created universe & life through evolution	
Gen 1: rejects Biblical Revelation	
NB: Darwin's view of evolution through most of his adult life	
Theistic Evolution Be Careful with this Term!	S6
DEF (Common): Impersonal God created through evolution → deistic evolut	ion
DEF (Academic): <u>Personal God</u> created through evolution - evolutionary cr	eation
	~-
Evolution of Categories: Theistic Evolution & Evolutionary Creation	S7
the substantive (the noun) is the more important term in a category Theistic Evolution:	
"Evolution" is primary & "Theistic" (God) secondary older category → tends to be used today by Liberal Christians	
Evolutionary Creation:	
"Creation" is primary & "Evolutionary" secondary	
newer category \rightarrow tends to used today by Conservative Christians	
Dysteleological Evolution	S8
DEF: universe & life evolved without any ultimate plan, purpose or final goal	
natural processes are run by nothing but blind chance	
Gen 1: rejects God & Biblical Revelation	
common view of an "evolutionist" & THE scientific position	
EG: Richard Dawkins	
Summary: Origins & Hermeneutics	S9 H9
Note the relationship between scientific concordism & the origins positions	S10 H9
anti-evolutionism is connected to scientific concordism	011 110
QUESTION:	S11 H9
IF the Bible has an ancient science of origins,	antifia appaardiam)?
THEN is anti-evolutionism based on poor hermeneutics (sci	entitie concordism)?

Categories 5 Episod	10 20
IX. PRACTICAL CONSIDERATIONS	S2
Pedagogical Considerations Greek παιδιον (<i>paidion</i>): child	S 3
DEF: educational issues	
QUESTION:	
What view of origins do we teach in schools?	
(1) Public Schools	S4
22. The diversity of life on earth is the outcome of evolution: an unsupervised ,	
impersonal, unpredictable and natural process of temporal descent with genetic	
modification that is affected by natural selection, chance, historical contingencies	
and changing environments.	
National Association of Biology Teachers, "Statement on Teaching Biology,"American Biology Teacher 58 (1995), p. 61	
QUESTIONS:	
• What type of metaphysics?	S5
• Is this acceptable in public education in the US & Canada?	
American <i>Declaration of Independence</i> (1776) refers to a Divine Being 4 times: "Nature's God" "divine Providence" "men are endowed by their Creator" "Supreme Judge of the World"	S6
Canadian <i>Charter of Rights and Freedoms</i> (1982) begins with:	S7
"Whereas Canada is founded upon principles that recognize	
the supremacy of God and the rule of law."	
 (2) Christian Schools & Sunday Schools (in Churches) Most teach anti-evolutionary views → young earth creation & progressive creation BUT IF God created through evolution, THEN can you imagine the STUMBLING BLOCK anti-evolutionism has been to young people educated in Christian schools & Sunday Schools when they come to university and see the evidence for evolution firsthand? 	S8
23. Jesus: "It is inevitable that stumbling blocks should come, but woe to him through whom they come! It would be better for him if a millstone were hung around his neck and he were thrown into the sea, than that he should cause one of these little ones to stumble.	S9
<u>COMMENT</u> : will young people indoctrinated with anti-evolutionism lose their faith I lost my faith in 1 st year university after a course on evolution I've seen this happen too many times BUT evolution is <u>not</u> a reason to reject religion	

Categories 3 Episo	
Pastoral Considerations DEF: practical aspects of the Christian faith. Spiritual practices & traditions in the church	S2
QUESTION: how should Christians deal with origins in the church?	
Church Harmony is origins a reason for a DIVISION between Christians? OR	S3
is origins only a DIFFERENCE between Christians?	
Church & Evolution should the church withhold communion & baptism from evolutionists? should evolutionists be stopped from teaching in churches & theology schools? does one have to reject evolution in order to become a Christian?	S4
X. CONCLUSIONS	S5
1. Categories are Absolutely Vital	S 6
• BE AWARE of conflations & false dichotomies	S7
<u>COMMON CATEGORIES</u> trap us & chain us	S 8
conflations \rightarrow false dichotomies \rightarrow false choices \rightarrow missed choices	
<u>ACADEMIC CATEGORIES</u> free us & open our mind spectrum of choices → allows informed choices → OWNERSHIP of your worldy	S9 V iew
• CONTROL the categories \rightarrow control the debate	S10
I don't like the "C" word, but that's the reality	510
 BEWARE of the categories of your professors → includes Lamoureux! did I miss some categories in this section? am I loading the categories to promote my position? IF so, not malice on my part, but pure INCOMPETENCE ← CHALLENGE ME & CORRECT ME 	S11
2. Categories & Critical Thinking	
• There is no such thing as PURE OBJECTIVITY	S12
our categories are historically & culturally conditioned everyone (1) <u>looks</u> at the world and (2) <u>thinks</u> about it through a CATEGORICAL FILTEF EG 21 st century AD/CE North Americans: religion is filtered thru Christianity & science thru modern science 21 st century B/CE Egyptians: religion is filtered thru polytheism (many gods) & science thru ancient scien	
• However, through critical thinking we can become MORE OBJECTIVE	S13
(1) Identify your categories	
(2) Decide which categories you accept or reject	
(3) Construct your categorical filter	
this way you will <u>not be controlled</u> by historically & culturally conditioned catege that you have inherited and force you to think in only one way	gories

S3

S4

3. Define YOUR:

EPISTEMOLOGY

- Do you feel the tug of **positivism**?
- But is there a WIDER category set?

an epistemology not limited ONLY to correspondence-coherence-consilience? maybe includes religious epistemological categories?

HERMENEUTICS

• Do you feel the tug of scientific concordism?

4. Consider the Two Foundational Principles for Science & Religion:

- But is there a WIDER category set?
 - a view of revelation in which God used ancient science in the Bible
 - a view of Biblical Inerrancy that does not include statements about nature in the Bible?

i constati the 1000 contactorial i interpres for Science & Rengion.	51
METAPHYSICS-PHYSICS PRINCIPLE	S5 H5
a philosophical concept	
Common Problem:	
Atheists & Agnostics tend to conflate science & their metaphysics	
TIP:	
SEPARATE & DON'T CONFLATE	
Atheism & Agnosticism are Ultimate Beliefs and not science	
Message-Incident Principle	S6 H5
a hermeneutical concept	
Common Problem:	
Christians tend to conflate the ancient science in the Bible & Message of Faith	
TIP:	
SEPARATE & DON'T CONFLATE	
Ancient science is not a Spiritual Truth	
5. Post-Modernity & the Personal	S7

• Post-modernity is a 'brave new epistemological world' that is beyond modernity & positivism knowledge is much more social & personal

40% of US Scientists → believe in a personal God

KEY WORD: Personal

• Don't be embarrassed for personal aspects in your worldview, because after all you are a person!!!

		Religio	n 1 Episo	de 29
W	HAT IS RELIGION?			S2
I. KEY THOUGHTS				S3
1. Religion is Difficult to Define				S4
this is because there is such a EG religion has somethin	6			S1
God in heaven Nirvana Energy in Nature Moral Duty Ultimate Concern	Judaism, Christianity, Islam Buddhism New Age Religions Moralism All Belief Systems	Spiritual Being State of being Cosmic Force Practice of good Whatever! \$\$\$	× × × ×	S6
COMMENTS:				
	Being in many religions (X)			
• Is viewing "\$\$	\$ " as a religion such an odd idea?			S 7
	No one can serve two masters. Eith	her he will hate the o	ne and lo	ve
	the other, or he will be devoted to	the one and despise	the other.	
	You cannot serve both God & M	oney."	Matt 6:	24
2. Academic Definition of Religion Religion ≅ Metaphysics (≅ EG some scholars view M		on		S 8
3. Religious Ideas → Pervasive, P	owerful & <u>MOSTLY UNEXAM</u>	INED		S9
2. "I find that religious belie	f is the most influential of all beli	iefs, and the most po	werful	S10
force in the world. Relig	ious belief has the most decisive in	fluence on everyone	e's	
understanding of the ma	jor issues of life across the entire s	pectrum of human ex	xperience	•
Moreover, it exercises th	nis influence upon all people indep	endently of their co	onscious	
acceptance or rejection of	of the religious traditions with whi	ch they are acquainte	ed. The	
enormous influence of re	eligious beliefs remains, however,	largely hidden from	n casual vi	iew."
	Roy A. Clouser, Myth of Religious Neutr of Religious Beliefs in Theor			
COMMENTS:	• •• • • ••			S11
• Tacit Categories DEF: silent c • GOAL of education	ategories that impact our thinking	& that we are not aw	vare of	
	aware of YOUR <u>silent</u> religious/m	netanhysical categori	es	
-	efining the term "religion"? More		•••	
II. STATISTICS ON RELIGION 1. Global Population	OUS BELIEF			S12 S13
	OBAL RELIGIOUS LANDSCAPE" (20	12)		
	surveys & population registers			
32% Christianity 23% Islam				
15% Hinduism				
7% Buddhism				
6% Folk Religions	(eg, aboriginal religions)			
1% Other Religions				
- · ·	ffiliation (not categorized—agnostic	e, atheist, spiritual not	religious,	etc)
84% accept Traditio	nal Religions			

	Religion 1 Episode 30
2. American Population	S2
<u>PEW RESEARCH CENTER "US RELIGIOUS LANDSCAPE" SURVEY</u> (2015) survey of 35,000 individuals	
Survey of 55,000 individuals ■ 89% believe in "God or a universal spirit" → Teleology	
71% Christianity	\$3
decrease from 78% in 2007 Pew Survey	
6% Other Religions (eg, Judaism, Islam)	
23% No Religious Affiliation → increase from 16% in 2007	
16% "Nothing in Particular"	
74% of 16% believe in "God or universal spirit"	(12% overall)
4% agnostic	
3% atheist	
77% accept Traditional Religions	
PEW RESEARCH CENTER "SCIENCE & RELIGION" SURVEY (2015)	S4
survey of 2000 individuals	
59% believe science & religion are often in CONFLICT	
cause of the conflict for 36% of these individuals \rightarrow Origins	
GALLUP POLL (2014)	S5
survey of 1000 American adults that has been conducted 12 times since	1982
50% accept human evolution	
range: 46-52%	
3. Canadian Population	S6
STATISTICS CANADA "NATIONAL HOUSEHOLD SURVEY" (2011)	
based on 4.5 million households	
67% Christianity	
decrease from 77% in 2001 Census	
8% Other Religions	
24% No Religious Affiliation \rightarrow increase from 16% in 2001	
not categorized into agnostic, atheist, spiritual not religiou	is, etc
probably similar to USA	
 75% accept Traditional Religions 	S7
Angus Reid "Britons & Canadians More Likely to Endorse Evolut	
based on 1500 Canadians	(2012)
61% accept human evolution	
4. Conclusions	S8
 humans still quite religious in an age of science 	
roughly 75% of US & Canada accept Traditional Religions	
Christianity decreasing in both countries & No Religious Affiliation	
roughly 90% of US (probably Canada too) believe in a God or Universal	Spirit
Therefore, at least 90% are Teleologists	
with 3% of US atheist \rightarrow at best 5% are Dysteleologists	
 anti-evolutionism is significant in US & Canada 	S9
roughly, only 50-60% accept human evolution	

III. OXFORD ENGLISH DICTIONARY	S2
 QUESTION: There is lots of it, but what is religion? Etymology doubtful & not helpful <i>relegere</i> (Latin): to read over again 	S3
religare: to bind	
 Definition 3. (5a) recognition on the part of man of some higher unseen power as having control of his destiny, and as being entitled to obedience, reverence, and worship; the general acceptance of this feeling as a standard of spiritual and practical life. SQ 1 for the rest of this entry 	S4
Academic Schools: (1) Religious Studies (2) Psychology (3) Philosophy	85
IV. RELIGIOUS STUDIES DEFINITION OF RELIGION	S6
Ninian Smart	S 7
"The Dean" of the modern study of religion	
method used in Departments of Religion in public universities	
Importance of the Study of Religion	S 8
 4. "To understand human history and human life it is necessary to understand religion." Ninian Smart, <i>The Religious Experience of Mankind</i> (NY: MacMillan, 1991 [4th ed.]), 3. EG: US politics → state-church separation, stem cell, abortion English literature → Biblical allusions 	
	50
 Phenomenological Method Greek φαινωμενον (<i>phainōmenon</i>): appearance 5. "The intention is to describe, rather than to pass judgment, on the phenomena of religion 	S9 "
COMMENTS: Smart, 4	
goal of Departments of Religious Studies	S10
claim NOT to deal with truth or falsity of religion	~
often termed the "Scientific" study of religion	
usually steeped in a positivistic epistemology	
Theological Method	S10
theologians respectfully "pass judgment" on the truth or falsity of religion	
Definition of Religion: "Six-Dimensional Organism" (1) <u>RITUAL DIMENSION</u>	S11 S12
DEF: 6. Ritual is "some form of outer behavior coordinated to an inner intention	
to make contact with, or to participate in, the invisible world however	
interpreted, whether as [1] God's presence, as [2] nirvana, as [3] sacred	
energy pervading nature." Smart, 6	
<u>COMMENTS</u> :	S13
from elaborate (Catholic High Masses) to simple (closing eyes)"the invisible world"	
WIDE range of beliefs: [1] God → Spiritual Being	
[2] nirvana \rightarrow state of being	
[3] sacred energy \rightarrow Cosmic Force	

S3

(2)	MYTHOLOGICAL DIMENSION	
	PROBLEM with the term	'MYTH'

Common DEF: false & not true

Appears in the Bible:

7. "For a time will come when men will not put up with sound doctrine ...

They will turn their ears away from **the truth** and turn aside to **myths**." 2 Tim 4:3-4

HOWEVER, myth is an academic category in literature, theology & religious studies S4 Academic DEF: main message or ultimate (metaphysical) belief of a religion or

philosophy

EG

Christian Myth \rightarrow God became a human in the person of Jesus Myth of Dysteleological Evolution \rightarrow Dawkins

• everyone has a myth!

Evolution as a Myth & a Religion

S5

8. "Evolution is the creation-myth of our age. By telling us our origins it shapes our views of what we [ultimately] are. It influences not just our thoughts, but our feelings and actions too, in a way which goes far beyond [μετα] its official function as a biological [scientific] theory.

In calling it a '**myth**,' I am **not** of course saying that it is a **false story**. I mean that it has great symbolic power, which is independent of its truth. Is the word **religion** appropriate to it? This will depend on the sense we give to that **very elastic word**."

Durant, ed.,
1985), 154 S6
50
physics
S7 H5
a biological
S 8
S9
S10

(5) <u>Social Dimension</u>	S2
DEF: community aspects of a religion	
religions are not merely belief systems, but involve communities of religious p	people
Two Way Relationship:	S3
1. Religion Impacts Society	
EG English Common Law based on the Bible	
2. Society Impacts Religion	
EG modern science shaping Liberal Christianity	
origin of this Science-Religion course	
it arose in response to the impact of evolution on Chris	stianity
(6) EXPERIENTIAL DIMENSION	S4
DEF: inner experience of the Invisible World	
religion → internal & PERSONAL	
CONCLUSION: Smart's Religious Studies Definition of Religion	S5
Last paragraph of his The Religious Experience of Mankind:	
9. "Altogether the history of the religions of the human race has been multiple: often	
bitter, often noble, often sweet, at times cruel, sometimes beautiful, often ugly.	
It can teach us many lessons. Whether we feel ourselves [1] surrounded by a	
spiritual world, [2] or guided by the one God, [3] or striving toward nirvana, or	
[4] alone in an empty universe, WE [my capitals] as religious people asking	
spiritual questions have tried to see beyond [$\mu \epsilon \tau \alpha$] our senses. Is it just	
<i>imagination or is it a holy power that impels us?</i> " Smart, 576.	
COMMENTS:	S 6
• WIDE definition of religion	
religion includes belief in:	
[1] spiritual world, or	
[2] one God, or	
[3] nirvana, or	
[4] alone in an empty universe!!!	
IMPLICATION:	S7
Is a dysteleological worldview religious?	
Is everyone religious, including dysteleologists? YOU DECIDE	
Reflects Metaphysics-Physics Principle	S8 H5
"WE as religious people asking spiritual [metaphysical] questions have tried to see beyond [μετα] our [physical] senses."	
Non-Judgment Method	S9
"Is it just imagination or is it a holy power that impels us?" consistent with the Phenomenological Method Smart doesn't give an answer or judgment	
• Religious Studies → excellent descriptive scholarship	S10
but in private, these scholars judge truth/falsity of religion for many religion is nothing but human imagination	210

	Religion 1 Episode 34
V. PSYCHOLOGICAL DEFINITION OF RELIGION	I S2
William C. Tremmel	
educated as a theologian & worked in a department	of religious studies
Religion is Difficult to Define	S3
10. "A good definition of religion is hard to come by, m	-
an enormous array of beliefs and activities all the wa	
from private prayer to sacred community."	William C. Tremmel, <i>Religion, What Is It?</i> (NY, Holt, Rinehart & Winston, 1984), 3
Phenomenistic Method	S4
11. In the phenomenistic method one is interested in des	scribing and defining questions
concerning value and truth are suspended ."	Tremmel, 9
Phenomenistic → Greek φαινωμενον (<i>phainōm</i>	nenon): appearance
Purpose of Religion	S5
to meet human psychological needs	
 why do people 'do' religion? practical benefits: deals with psychological pair 	n
• what happens to people?	
personal experience: offers a happy psychologic	cal state
Definition of Religion: "Functional-Experiential"	S6
(1) PREPARES FOR PSYCHOLOGICAL PAIN	S7
horrendous & uncontrollable events death, suffering, guilt, meaninglessness, etc.	
	00
(2) BELIEF IN A CENTRAL DIVINE REALITY12. "The conviction that there is at the center of https://www.convertice.com/action/ac	S8 suman experience, and even of all
reality, [1] a being , or [2] beings , or [3] pro	-
through which a person (or community of pe	
traumas of human existence, can overcome t	
(3) Techniques	S9
beliefs, rituals, ethics	57
(4) ENTER A PSYCHOLOGICAL STATE	S10
comfortable & satisfying state	
COMMENTS:	S11
• WIDE definition of religion	
Divine Reality can be: [1] a being	
[2] beings	
[3] a process any belief or technique that deals with	our psychological pain is a religion
 truthfulness or falsity of a relig 	
• an eloquent "Religion is a Crutch or Drug"	
similar to the well-known criticism of	-
13. "Religion is the opium of the	
	ubel, eds. Karl Marx (NY: McGraw Hill, 1964), 41
• many religious people are suspicious of ps	sychology S14
Religion = psychological & not roote	-
= emotion & wish fulfilment	
= nothing but imagination i	in head of religious devotees

Religion 1 Episod	
QUESTIONS	S2
• Is the <u>BELIEF</u> that God does <u>NOT</u> exist:	S3
psychological & not rooted in reality?	
emotion & wish fulfilment that there is no God and that we are not accountable to him after our death?	
nothing but imagination in the head of atheistic & agnostic devotees?	,
nothing but imagination in the head of atheistic & agnostic devotees?	
• Do atheists & agnostics have Beliefs & Techniques that prepare them	S4
for their psychological pain?	
IF SO, are these Beliefs & Techniques:	
(1) the opium of atheists & agnostics?	
(2) a religion according to Tremmel's definition?	
VI. PSYCHOLOGICAL DEFINITION OF RELIGION II	S5
Tom Pyszczynski, Jeff Greenberg & Sheldon Solomon	
social psychologists & founders of the field of Terror Management Theory	S 6
Terror Management Theory	S 7
14. "Knowledge of the inevitability of death gives rise to the potential for paralysing terror,	
which would make continued goal-directed behavior impossible. The theory posits	
that this terror is managed by a dual-component cultural anxiety buffer, consisting of	
(1) an individual's personalized version of the cultural worldview, which consists	
of a set of benign concepts for understanding the world and one's place in it, a set	
of standards through which one can attain a sense of personal value, and the promise	
of literal and/or symbolic immortality to those who live up to these standards; and	
(2) self-esteem, or a sense of personal value, which is attained by believing that one	
is living up to the standards of value that are part of the cultural worldview .	
Pyszcynski, Greenberg, Solomon, "Why Do We Need What We Need? A Terror Management Perspective on the Roots of Human Social Motivation," <i>Psychological Inquiry</i> 8:1 (1997), 2	
Features	S 8
awareness of inevitable mortality	
"potential for paralysing terror" \rightarrow cripples us psychologically	
• worldview manages terror	S9
KEYWORD: worldview → our beliefs & metaphysics	
offers the promise of immortality: literal (in heaven after death)	
symbolic (one's legacy on earth)	
• practice of worldview	S10
leads to self-esteem & keeps us psychologically functional	
Definition of Religion (Implicit)	S11
Religion is a Terror Management Technique	
terror of death is managed by the hope of life after death	
Religious worldview is nothing but "cultural" and "a set of benign concepts"	
truthfulness or falsity of a religion is irrelevant	

Religion 1 Episode	36
QUESTIONS	S2
What keeps atheists & agnostics psychologically functional? Are atheistic & agnostic worldviews nothing but Terror Management Techniques?	
IF GAME	S3
• assume God exists	
• assume the Bible is correct:	
"It is a terrifying thing to fall into the hands of the living God." Heb 10:31 THEN	
Do atheistic & agnostic worldviews manage the terror of facing God after deat	h?
CONCLUSION: Psychological Definitions of Religion I & II	S4
1. Focus is on functional & practical aspects of religion, not the truth value	S5
religion has a psychological component → don't be embarrassed, we are psychological beings! it provides comfort, happiness & meaning to life	
it meets the challenge of horrendous situations like suffering & death	
2. Modern psychology offers excellent DESCRIPTIVE work	S 6
EG James Fowler, <i>Stages of Faith: Psychology of Human Development & Quest for Meaning</i> SQ2 see if these categories apply to your faith/philosophical development	S7
3. BE AWARE of dysteleological metaphysics CONFLATED into modern psychology 50% of US psychologists are atheists & 11 % are agnostic	S 8
N Gross & S Simmons, "Religiosity of American College & University Professo Sociology of Religion 70:2 (2009), 116	ors"
SUGGESTION for religious & teleological people:Use the Metaphysics-Physics Principle in Psychology	S9
SEPARATE DON'T CONFLATE:	
dysteleological metaphysics & psychological sciences	
• INTEGRATE your metaphysics (eg, belief in reality of sin, guilt & forgiveness) with the psychological sciences to develop YOUR worldview on psychology	S10
EG Evolutionary Creation integrates the science of evolution & the metaphysics of creation	
MORE IF GAMES	S11
IF sin & guilt are SPIRITUAL REALTIES	511
THEN modern secular psychology is missing a valuable piece of information this would be like doing biology without evolutionary theory	
IF a psychological problem is a SPIRITUAL PROBLEM	S12
THEN physical protocols won't work	
spiritual protocols are required	
EG spiritual experience of God's forgiveness	
4. Clinical Psychology & Psychiatry	S13
• a blessing to our culture and wonderful career choice	
• treatment & healing of:	
marriages, sexual abuse, eating disorders, depression	
• if you need the medications, use them under medical supervision	S14
it is NOT against God's will	
anti-depressants = insulin	
DO NOT be ashamed if you need medication	
• I've struggled with depression & have been successfully treated using anti-depressants	S15
See my paper: "I Sleep a Lot" online at: www.ualberta.ca/~dlamoure/pdepression.pdf	

Religion 2 Episode	37
VII. PHILOSOPHICAL DEFINITION OF RELIGION I	S2
Michael Peterson, William Hasker, Bruce Reichenbach & David Basinger philosophers of religion	S3
Philosophical Method	S4
15. "The traditional conception of philosophy , which was dominant throughout the history	54
of Western thought, was that philosophy can investigate the content of our beliefs,	
including the truth or falsity of theological beliefs."	
Michael Peterson, W. Hasker, B. Reichenbach & D. Basinger,	
Reason & Religious Belief (Oxford: U Press, 1991) 8	
<u>COMMENTS</u> :	S5
Describes & Judges truth value of religion goes beyond phenomenological method (eg Religious Studies)	
Traditional Method	S6
• Define	
clarify the meaning of terms & concepts \rightarrow CATEGORIES	
 Criticize look for hidden assumptions → TACIT CATEGORIES 	
Key Thought #3: Religious Ideas: are pervasive, powerful &	
mostly unexamined	
• Justify	
use rational arguments to defend a position	
Synthesize construct a theory	
make a TRUTH claim \rightarrow novel notion in post-modern age!!!	
	~-
Definition of Religion: "Tentative, Working Definition"	S7
16. "Religion is constituted by a set of beliefs, actions, and emotions, both personal and	
corporate, organized around the concept of the Ultimate Reality ." Peterson, 4	C 0
<u>COMMENTS</u> : • Beliefs	S 8
KEY \rightarrow religion has an INTELLECTUAL component	
religions make truth claims	
beliefs can be JUDGED for their truth or falsity	
<i>explicitly</i> organized into religious doctrines	
<i>implicitly</i> seen in practice	
real believers \rightarrow walk the talk	
• Actions	S9
rituals, ethics, institutions	39
• Emotions	
psychological aspect with feelings of:	
goodness	
piety & humility	
hope & optimism	
awe & mystery	
Personal & Corporate	
individual & social community	

	n 2 Episode 38
 The Ultimate Reality "This [Ultimate] Reality may be understood as a [1] unity [2] personal or non-personal, [3] divine or not, and [4] 	
differing from religion to religion."	Peterson, 4
COMMENTS:	i eterson, i
WIDE range of Ultimate Realities, including those	hose that are:
[2] non-personal	
[3] not divine	
[4] so forth \rightarrow WHATEVER!!!	
Therefore: anything can be the Ultimate Reality	у
CONCLUSION: Peterson et al Philosophical Definition of Religion	S3
1. Very WIDE definition of religion	
2. Asserts some religions are <u>not</u> true!	
Excursus: Criticisms of Philosophical Approaches to Religion	S4
 Problem of Impersonal Analysis of a Personal Faith 	S5
some complain that critical analysis leads → impersonal God of the philosophers not the living & personal God of relig	gion
BUT not a substitute for religion or God	
instead an instrument to <u>improve & strengthen</u> your relationship with God EG marriage counselling	
• Problem of Fideism	S6
Fideism Latin <i>fides</i> : faith	
DEF: religious truth rests ONLY on faith, not reason Therefore: religion cannot be analysed rationally	
aka the 'Just Believe' or 'Faith Only' Argument	
← IRONICALLY this is an ARGUMENT	
fideism attempts to be RATIONAL!!!	
BUT Jesus commands Christians to think!	S7
18. "Love the Lord your God with all your heart and with all your soul and w	
all your mind. This is the first and greatest commandment." Matt 22:37	
Problem of Political Correctness	S8
a Post-Modern cultural value	
don't criticize or judge anyone's religion today	
practical importance \rightarrow keeps the peace	
BUT it leads to the death of thinking	
criticism is valuable!!!	
my atheistic/agnostic critics are some of my best colleagues if my religious beliefs cannot stand criticism, then I get rid of them	
	50
SUGGESTION:Openness—to all ideas. No idea unimportant	S9
in my class that means questioning & rejecting the existence of God	
• Respect Critics—at all times no matter what is said	
• Thicken—your own skin → theology is a contact sport!	
• Select Critics Carefully—some people you just can't talk with	
• Goal—to increase dialogue \rightarrow get rid of the LUST to always be right	
• "Speak Truth in love" Eph 4:15	
you don't have to be a Christian to appreciate this verse	

Religio	on 2 Episode 39
III. PHILOSOPHICAL DEFINITION OF RELIGION II	S2
Roy A. Clouser philosopher of religion	S3
Philosophical Method	S4
19. "Logic requires that religious trust can be either [1] well placed or [2] misp	
as can nonreligious trust , since beliefs about the divine areas all other be	liefs
either true or false but not both at once. It follows, therefore, that when two	beliefs
disagree about what is divine, one or both of them must be (at least partly) f	
Roy A. Clouser, <i>Myth of Religious Neutrality</i> (Notre Dame	
<u>COMMENTS</u> : • Describes & Judges truth value of religion	S5
asserts some beliefs are WRONG	
such a counter-cultural idea today in a post-modern wor	ld!!!
• asserts two types of TRUST:	S 6
[1] religious	
[2] non-religious	
• asserts two types of trust can be misplaced:	
[1] religious \rightarrow BLIND FAITH	
[2] non-religious \rightarrow BLIND UNBELIEF	
Definition of Religion: <u>ALL</u> Theories Are Religious Thesis Statement of Book:	S7
20. "No theory can avoid presupposing something to have the status of divinit	y." Clouser, 18
The Divine DEFINITION:	S8
21. "A religious belief is any belief in something or other as divine. ' Divine ' m	
having the status of not depending on anything else All [religions] be	
that the divine is whatever is 'just there.''' Clouser, 19,	21
<u>COMMENTS</u> :	
The Divine is something/s or someone/s that are <i>self-existent</i> & on anything or anyone EG eternal God of traditional religions eternal energy & matter of secular belief	not dependent
Types of Religious Beliefs	S9
CORE BELIEFS	
statements about the characteristics of the Divine	
WIDE variety of attributes: personal/impersonal, singular/multiple, good/e	vil/indifferent
SECONDARY BELIEFS	S10
statements about how humans relate to the Divine	
WIDE variety of relationships: loved/hated/indifferent, worshipped/not wo	rshipped
Types of Religions	S11
Three basic types: (1) Pagan (2) Pantheist (3) Biblical	
based on the arrangement of the Divine to the non-divine	
CAUTION:	
a bit of a cartoon, because religions are much more complex but for our purposes, a reasonable instructional tool	

Religion 2 Episode 40

(1) Discuss Drugsong	
 (1) <u>PAGAN RELIGIONS</u> DEF: the Divine is some Force <u>within</u> the universe (non-divine) Note: not a derisive term → an academic category in religious studies 	S2
<i>Ritualist Pagan</i> Nature Religions: a Cosmic Force in the earth, sun, trees, <i>etc</i> (teleological)	S3
Non-Ritualist Pagan • Popular Culture: Fate, Destiny, the "Meant To be" (teleological)	S4
• Marxism: a Cosmic Force that pushes society forward (teleological)	
feudalism \rightarrow capitalism \rightarrow socialism \rightarrow communism	~ •
• Materialism: a purposeless Force in nature with no final goal (dysteleological)	S5
The Divine: blind chance	
The Non-Divine: matter & energy	
QUESTION: Can you call Richard Dawkins religious? Clouser would!	
Dualistic Pagan Two Divine Forces in opposition with each other (both teleological) Chinese Yin & Yang	S 6
(2) <u>PANTHEIST RELIGIONS</u> Greek $\pi\alpha v$ (<i>pan</i>): all $\theta \epsilon o \varsigma$ (<i>theos</i>) God	S7
DEF: everything is the Divine	
Idealistic Pantheist	S 8
the physical universe (non-divine) is believed to be an illusion	50
even the person & logical thinking are an illusion!	
22. [Idealistic] Pantheistic traditions insist that what is wrong with people is	S9
their attachment to the illusory world as it is encountered in ordinary	
experience by reason Logical criticism, they say, fails to recognize	
that logical thinking is also part of the everyday world of illusion.	
As such, logical thinking is part of the deception that prevents people	
from discovering the divine unity of all reality." Clouser, 42	
COMMENTS:	S10
the goal is to detach from the illusion of the world & the self through mystical experience	510
annihilate the self & melt into The Divine	
EG Buddhism: to achieve Nirvana and melt into Nothingness	
Naturalistic Pantheist (NB: not included by Clouser) the physical universe is the only reality	S11
EG Albert Einstein (1879-1955)	S12
raised Jewish & rejected a personal God at 12 yrs of age God \rightarrow the <u>physical</u> world with its beauty & harmony	
Complementary View of Science & Religion:	
23. "Science without religion is lame, religion without science is blind."	,
A. Einstein, "Science & Religion" <i>Ideas & Opinions</i> (NY: Crown, 1982 [1954]), 46	

(2) DIDUCAL DEFICIONS $Creat (0,0) \log (h;hles)$; heat	Religion 2 Episode 41
(3) <u>BIBLICAL RELIGIONS</u> Greek βιβλιος (<i>biblos</i>): book DEF: religions with Holy Books	S2
believe in a Creator (Divine) who made a creation (non-divir	ie)
EG Judaism, Christianity, Islam	
The Creation not an illusion (Idealistic Pantheist) → but real	S3
not eternal (Pagan & Pantheist) → but temporal not exalted as Divine (Pagan & Naturalist Pantheist) →	but good
Excursus: Doctrine of Creation Central concept: the belief THAT God created, not on HOW God created	S4
1. Realism	S5
<u>BELIEF</u> the creation is real and not merely an illusion we are not trapped in some sort of computer program like the M	fatrix (the movie)
2. Transcendence <u>BELIEF</u> the Creator is radically distinct from the creation	
3. Ordinance	
<u>BELIEF</u> the creation was ordained (ordered) into existence by the Create the universe is NOT a fluke or mistake	or
 4. Creatio Ex Nihilo Latin creatio: creation ex: out of nihil: nothing <u>BELIEF</u> the Creator made the creation out of nothing the Creator created not only matter, but space & time as w 	S6 vell
5. Temporality <u>BELIEF</u> the creation has a beginning & an end	
6. Dependence <u>BELIEF</u> the creation is utterly dependent on the Creator the creation cannot exist outside the will of the Creator	
7. Sustenance	
<u>BELIEF</u> the Creator sustains the creation (matter, space & time) every n in contrast to deism, the Creator does not stand outside the creater	
8. Omnipresence Latin <i>omnis</i> : all, every BELIEF the Creator is present everywhere throughout the creation	S7
9. Omnipotence Latin <i>potentia</i> : power, force <u>BELIEF</u> the Creator is all-powerful and can act upon the creation at any through dramatic interventionism & subtle providentialism	time
10. Omniscience Latin <i>scientia</i> : knowledge <u>BELIEF</u> the Creator is all-knowing and understands everything about the	e creation
11. Revelatory Intelligibility	S8
BELIEF the creation reveals understandable messages from the Creator • physical world → non-verbal revelation of general attribute • human conscience → non-verbal revelation of general mora	s of the Creator
 12. <i>Imago Dei</i> Latin <i>imago</i>: image <i>deus</i>: God <u>BELIEF</u> the Creator made human creatures in his likeness & image (aka 	
13. Goodness <u>BELIEF</u> the Creator made the creation good	

1. Extremely WIDE definition of religion	
ALL beliefs, including dysteleological beliefs, are religious	
2. Many religions are FALSE	S3
24. "Although there are strong similarities among [religious] traditions of the s	ame type,
those which fall into different types [Pagan, Pantheist, Biblical] are hope	
incompatible. Far from being different paths up the same mountain, th	·
	Clouser, 34
	_10use1, 54
 <u>COMMENTS</u>: • challenges the common understanding of different religions They are NOT paths up the same mountain to the same 	S4 God
• challenges the so-called "Problem" of Exclusivism today you can't make exclusive claims that you know "TH	S5 E TRUTH"
 challenges Relativism → Post Modern Cultural Value truth is relative & everyone has their own "truth" everyone is "right" & no one is "wrong" 	S6
BUT recognize the Fallacy of Relativism ironically, relativism makes an exclusive TRUTH claim!! it states that truth is relative AND it excludes those who believe in absolute true	
SUGGESTION:	S8
since we can't help but make exclusive truth claims, consider Respectful Exclusivism \rightarrow "Speak truth in love	?" Eph 4:15
IX. CONCLUSION: WHAT IS RELIGION?	S9
1. Common Definition	S10
religion has something to do with a Supreme Being, rituals & ethics	510
in North America coloured by Christian categories	
in North America coloured by Christian categories	
2. Academic Definition	S11
Religion \cong Metaphysics \rightarrow WIDE definition of religion	
Modern Examples:	S12
religion associated with being/s, process/es, state/s of being, etc Ninian Smart:	
invisible world (spiritual world, one God, nirvana, empty universe) William Tremmel:	
divine reality (being, beings, process)	
Tom Pyszczynski <i>et al</i> :	
management of terror (psychological state)	
Michael Peterson <i>et al</i> :	
ultimate reality (including the "so forth")	
Roy Clouser:	

CONCLUSION: Clouser's Philosophical Definition of Religion

Religion 2 Episode 42

S2

the just there

Religion 2 Episode	e 43
HISTORICAL EXAMPLES:	S2
Jesus Christ (5 BC/E to 30 AD/CE)	S3
25. "No one can serve two masters. Either he will hate the one and love the other,	
or he will be devoted to the one and despise the other. You cannot serve both	
God and Money." Matt 6:24	
<u>COMMENTS</u> :	
WIDE definition of religion not just spiritual beings, but things \rightarrow \$\$\$	
Martin Luther (1483-1546)	S4
Protestant Reformer	
26. "That to which your heart clings and entrusts itself is, I say, really your God." Martin Luther, "Larger Catechism" in <i>Book of Concord</i> (Philadelphia: Fortress, 1959), 365	
COMMENTS:	
WIDE definition of religion whatever we trust & whatever gives us psychological comfort \rightarrow G	iod
 3. Near Universality of Religion A corollary (ie, built into) of the academic definition of religion (Religion ≅ Metaphysics) is the notion that nearly everyone is religious 	S5
Immanuel Kant (1724-1804)	
Philosopher	S6
27. "That the human mind will ever give up metaphysical researches is as little to	
be expected as that we, to avoid inhaling impure air, should prefer to give up	
breathing altogether. There will therefore always be metaphysics in the world."	
I. Kant, Prolegomena to Any Future Metaphysics B Logan, ed (NY: Routledge, 1996 [1784]), 12-	
COMMENTS:	S7
IF Religion ≅ Metaphysics	
IF everyone has a metaphysics (according to Kant)	
THEN nearly everyone is religious	
• WIDE definition of religion	
• The cause of the metaphysical (religious) impulse according to Kant:	S 8
28. "Two things fill the mind with ever new and increasing admiration and reverence,	
the more often and more steadily one reflects on them: [1] the starry heavens	
above me and [2] the moral law within me."	
I. Kant, Critique of Practical Reason A Wood, ed	
(Cambridge: U Press, 1996 [1788]), 269 COMMENTS: S9) 9 H2
General Revelation	/ 112
[1] Natural Revelation	
"starry heavens above" → intelligent design (Ps 19:1)	
[2] Moral Revelation	
"moral law within" \rightarrow law written on the heart (Rom 2:14)	

Summary Chart of Religious/Metaphysical Beliefs See handouts manual page 10	S2-5 H10
Larson & Witham "Scientists Are Keeping the Faith" (1997) Revisited Now that you have new categories, this study of the religious beliefs of US scientists can be seen in a new light See handouts manual page 10	S6-7 H10
X. TOWARD A WORKING DEFINITION OF RELIGION Lamoureux	S8
• Religion deals with teleology in the world and The Ultimate Foundation/s of Teleology Teleology: <u>BELIEF</u> the world has an ultimate plan & purpose & the world it is headed toward an ultimate final goal	S9
• Religion has been practised throughout history, because nearly every human being has atter to be in a relationship with his or her Foundation/s of Teleology	mpted
• Religion offers psychological comfort and contributes to the psychological stability of he giving them the ability to function in life	umans,
<u>COMMENTS</u> :	S10
WIDE definition of religion	
Religion = Teleology	
 I can't put dysteleologists (eg, Dawkins) in the religious camp 	
The Ultimate Foundation/s of Teleology:	S11
Being/s or Thing/s (personal or impersonal): called "The God"	
Religion is Relational: most humans yearn/crave a relationship with "The G	od"

Religion is Psychological: "The God" comforts & stabilizes humans

Science 1 Episode 45

WHAT IS SCIENCE?

WHAT IS SCIENCE?	S2
I. KEY THOUGHTS	S 3
1. Science is Difficult to Define	S4
• Did the Babylonians practice science?	
they made remarkable celestial observations & predictions BUT believed that stars are gods & influence human lives	
 Was Sir Isaac Newton (1642-1727) a scientist? formulated Law of Gravitation & key figure in the 17th century scientific revolution BUT 	S 5
Principia Mathematica (1687):	S6
1. "This most elegant system of the sun, planets, and comets, could not have	arisen
without the design and dominion of an intelligent and powerful Being .	"
I. Newton, <i>Mathematical Principles</i> , Cohen-Whitm 3 rd ed (Berkeley: California U Press, 19	
<u>COMMENTS</u> :	99), 940
Newton accepted: (1) a Creator	
(2) intelligent design	
(3) divine action in Origins & Operations	
"dominion of an intelligent and powerful Being"	S7 H3
 Cosmological Providentialism in Operations 	
DOUBLE BUT:	S8
2. "The fixed stars would, through their gravity, gradually fall on each other,	
were they not carried back by the counsel of the supreme Being ."	
I. Newton, Annotation in <i>Mathematical Principles</i> , Cohen & K 2 nd ed(Cambridge: Harvard U Press, 197	
<u>NEWTON'S REWINDING OF THE UNIVERSE THEORY</u> Newton believed the universe is like a clock and that as it runs do	own
God has to intervene and wind it up	
 Cosmological Interventionism in Operations 	S9 H3
2. Trend in the History of Science	S10
• further back into the Past \rightarrow science connected to religion	
increase in teleology increase in Divine Interventionism & Providentialism	
• closer to the Present \rightarrow science disconnected from religion	
increase in dysteleology	
increase in natural laws & no need for divine action in explanations	
NB: Science is inevitably associated with metaphysics	nce
3. Post-Modern Epistemological Crisis (roughly around 1950)	S11
• breakdown of Modernity & rise of Post-Modernity	
Contributing Factors:	
new physics of the 20 th century	
beginning of a new academic discipline: History & Philosophy of Sciencechallenges the so-called "pure objectivity" of science	
science much more personal & social	
•	

Science 1 l	Episode 46
II. OXFORD ENGLISH DICTIONARY	S2
• Etymology	S3
Latin <i>scientia</i> : "knowledge"	
term "natural philosophy" in the past = term "science" today term "scientist" coined in 1833 by William Whewell	S4
• Definitions	S5
General (older): knowledge in general	55
Narrow (newer): knowledge of the physical world	
3. "4b. in modern use, often treated as synonymous with 'Natural and Physical Scien	ce,'
and thus restricted to those branches of study that relate to the phenomena of the	
material universe and their laws." SQ 1 for the rest of this entry	1
III. CONCEPTIONS OF SCIENCE	S 6
Historian of Science David C. Lindberg	S7
4. "The nature of science has been the subject of vigorous debate for centuries—a deba	te
conducted by scientists, philosophers, historians, and other interested parties [theo	logians ©]
Although no general consensus has emerged, several conceptions of science have	attracted
powerful support." David C. Lindberg, <i>The Beginnings of West</i>	ern Science
(Chicago: U Pre	ss, 1992), 1
<u>COMMENTS</u> : "no general consensus" → science is difficult to define	
• Technology	S 8
gaining power over nature	
Theoretical Knowledge theories behind the technology	
• Laws	S9
universal, law-like statements about nature using the language of science \rightarrow mathematics, stats & formulas	
Method observation & experiment	
 Knowledge of the Physical World non-physical realm (eg, spiritual world) not investigated by science 	
• Epistemology a way of knowing reality that is tentative and based on evidence, not dogma or authority	S10
 Exacting Procedure characterized by "rigour, precision & objectivity" 	
• Epithet of Approval a cultural value today	
IV. ANCIENT SCIENCE	S11
the study of history always offers helpful insights to understand the present QUESTION:	
was there science in the past?this is a key idea in this course	
Outline:	S12
 Prehistoric Science (in Preliterate or Oral Societies) Egyptian & Mesopotamian Science Greek Science 	

Sc	eience 1 Episode 4	17
1. Prehistoric Science DEF: science in societies without writing → preliterate or oral societies	ŝ	S2
characteristic: emergence of many technologies		
spears for hunting (450,000 years ago)		
tools for farming (10,000 years ago)		
QUESTION	5	S3
Is prehistoric science limited only to technology ?		
Problem: no written records → oral societies Solution: Cultural Anthropology & the study of preliterate societies		
ANSWER		
found in ORAL TRADITION		
BE AWARE: Lamoureux has a hermeneutical agenda!	:	S4
did the ancient preliterate Hebrews have an Oral Tradition?		
did the basic ideas in Gen 1-11 first begin as an Oral Tradition?		
A. Oral Tradition	·	S5
DEFINITION:		55
5. "Oral tradition serves as the principle repository for the collective experi-	ience and	S6
general beliefs, attitudes, and values of the community The primary fu	inction of oral	
tradition is the very practical one of explaining , and thereby justifying , th		
and structure of the community, supplying the community with a continuo	-	
'social charter'		
[Oral traditions] will almost always include an account of origins —the b	eginning	S7
of the world, the appearance of first humans, the origin of animals, plants,	, and other	
important objects, and finally the formation of the community		
Oral traditions typically portray the universe as consisting of [1] sky and	[2] earth, S8 H	H6
and perhaps also an [3] underworld.		
Related to the account of origins is often a genealogy of gods, kings, or ot	ther heroic	S9
figures in the community's past , accompanied by stories about their hero	ic deeds	
Deity is an omnipresent reality in the world of oral traditions."	Lindberg, 6-8	
COMMENTS:		
Reflects: Metaphysics-Physics Principle Message-Incident Principle	S10 F	15
Beliefs & Values → Metaphysics & Message		
Account of Origins → Physics & Incidental Ancient Science	S11 H	H5
community's understanding of nature (science)		
the origin of: plants & animals	1	
1 st humans & community \rightarrow beginning of hum 3 tier universe [1] sky (heaven)	han history	
3-tier universe [1] sky (heaven) [2] earth		
[3] underworld		

Science 1 Ep	oisode 48
REMEMBER Purpose of oral tradition is Social , not Scientific	S2
social charter (Beliefs & Values) cements the community together If it doesn't, then the community dies	
account of origins does not cement the community together all have a 3-tiered universe ALL are wrong → the ancient science is incidental to the socia	l charter
QUESTION	
Are you starting to see the similarities to Gen 1-11?	
B. <u>The Account of Origins in Oral Traditions: Is it Science?</u>	S3
Characteristics of Oral Traditions:	
• Explanatory a psychological need → where do we & the world come from?	S4
EG <u>Genesis 1-11</u> origins of the universe, living organisms, the Hebrew community & surrounding	g nations
isn't explanation part of science? YES	
Use of Models & Metaphors	S5
employ familiar objects & processes in explanations agricultural & human reproductive models (EG, 1-seed theory/preformatism)	
EG Egyptian Origin of the Universe	S6
god Atum masturbates & from his seed arise: the gods Shu (air) & Tefnut (moisture)	
Shu & Tefnut mate & give birth to earth & sky	
Mesopotamian Origin of Humans	S 7
gods planted the seeds of humans in the earth and then " humans broke through earth's surface like plants " <i>Hymn to E'engura</i> , Line 3	n the
Origin of Animals in Genesis 1 on the 6 th Day of Creation	S8
"God said, 'Let the LAND produce living creatures according to their kinds:	
livestock, creatures that move along the ground, and wild animals." Gen 1:24	4
similar to Sumerian origins \rightarrow animals sprout out of the earth	
Hebrew verb translated "produce" is yātsā'	
same verb used for the origin of plants on the 3 rd Day of Creation	
"The LAND produced vegetation: plants" Gen 1:12	
☞ isn't the use of models & metaphors part of science? YES	
• Notion of Causality (Causation) in Nature a deeply rooted instinct in all of us something causes something, which causes something, etc, etc, etc	S9
HOWEVER:	S10
Ancient Causality	
Agentic (a personal agent) → actions of the God/s, angels, demons, etc	
decisive, dramatic, isolated events EG <u>Genesis 1: Origin of the Universe in Six Days</u> "And God said, 'Let there be'"	

S8

S9

Science 1 Episod Modern Causality: impersonal & mechanical natural processes repeatable & usually gradual for isn't causality part of science? looking for natural causes: YES looking for personal agents: NO	de 49 S2
Excursus: De Novo Creation Latin: de 'from' novus 'new' DEF: creation that is: (1) quick (2) complete rapid origins into fully formed: living creatures & inanimate structures (earth, sun, stars, etc characteristic of Divine Action in most ancient accounts of origins	S3)
	S4 H3
QUESTIONS Does God's <i>de novo</i> creative action in the origin of the world in Gen 1 ultimately reflect an ancient (agentic) understanding of causality? Does divine action in Gen 1 ultimately reflect an ancient science?	S5
Is God's creative action in Gen 1 ACCOMMODATED?	
 No Clear Demarcation between Natural & Supernatural the God/s, angels, demons, etc & humans are intertwined EG Garden of Eden in Genesis 2 & 3 Adam & Eve are in the presence of the Lord God and talking with him isn't this lack of a natural-supernatural demarcation part of science? NO science limited to the physical world 	S6
• Brevity the length of oral traditions are limited by human memory	S7
EG Genesis 1-11	

amounts to only about 10 written pages

most people can remember the basic contents

NOTE

not an exhaustive record *therefore expect incompleteness* \rightarrow won't answer all your questions

• isn't brevity part of science? NO science is dependent on massive amounts of written information

• Genealogies

explain the origins of the community (nation) limited by human memory & usually only 5-10 generations

EG Genealogies of the Hebrews in Genesis 1-11 descend from one man-Adam Gen 5 & 11 genealogies--10 generations each

• isn't this part of science? NO science (genetics) recognizes that communities (nations) descend from a group of individuals, not just one person

• Lack of Concern for Strict Coherence

termed a "primitive" or "pre-logical mentality" account are contradictory at times therefore expect some contradictions

EG Conflicts in the Order of Creation Events:

Genesis 1		Genesis 2	
birds	5 th Day	man	v. 7
land animals	6 th Day	land animals & birds	v. 19
man & woman	6 th Day	woman	v. 22

SOLUTION:	S4
two different creation accounts were edited together:	
Priestly Account (500 BC/E) \rightarrow Gen 1	
Jahwist Account (1000 BC/E) \rightarrow Gen 2 More Anon	
 isn't a lack of concern for strict coherence part of science? NO science is hyper logical 	
QUESTION:	S5
Is there an ANCIENT EPISTEMOLOGY in oral traditions?	
an epistemology not obsessed with the foundational epistemological categories of coherence, correspondence, and consilience?	
David Lindberg → YES	S 6
6. "A cosmology [a view of nature] exists within every oral tradition, but	
often beneath the surface, seldom articulated, and almost never assembled	
into a coherent whole." Lindberg, 6	
Therefore,	
be cautious <u>not</u> to read oral traditions through our 21 st century epistemological stand	lards
IMPLICATION FOR HERMENEUTICS	S 7
Don't read an ancient text (Bible) which features an ancient epistemology through mode	rn
(hyper-logical) 21st century epistemological categories	

• EISEGESIS can extend to epistemology

SUGGESTION:

CUT THE BIBLE SOME EPISTEMOLOGICAL SLACK

IF historians like Lindberg can recognize & respect ancient epistemology in ancient texts,

THEN so too Christians with the Bible

• don't be concerned Christians!

only a loosening of incidental features

EG order of creative events

NOT a loss of the Message of Faith

• this will solve a lot of so-called "contradictions" in Scripture

CONCLUSION: The Account of Origins in Oral Traditions: Is it Science?

Is the Origins Account in Oral Traditions Science? Yes & No

Oral Traditions feature an Ancient Science

S9

S8

S3

S	Science 1 Episode 51
. Oral Tradition & Genesis 1-11	S2
QUESTION #1	S3
Did the Hebrews have an Oral Tradition before they wrote down Gen 1-11?	
Assume:	S4
Traditional view of authorship	
Moses wrote the Pentateuch (1 st five books of Bible):	
Genesis, Exodus, Leviticus, Numbers, Deuteronomy	
• 1 st References to Writing in the Bible are in the Book of Exodus	S5
7. "The Lord said to Moses, 'Write down these words, for in accordance	nce with these
words I have made a covenant with you and Israel' And he wrot	
the words of the covenant —the Ten Commandments ." Exo 34:27-	
SQ 2-6. Other references to	
COMMENTS:	S6
Termed "Mosaic Covenant"	
Covenant	
DEF: an agreement between God & humans	
• NO references to the Hebrews writing in the Book of Genesis	S7
<u>Abrahamic Covenant</u> (Gen 15:1-19, 17:1-14) establishes the Hebrew peoples	
BUT in contrast to Moses, Abraham is not told to write down the cover	ant
circumcision is "the sign of covenant" (Gen 17:11)	14111
✓ indicates Abraham & his family were an oral commun	ity
	•
Assume:	S8
Traditional biblical dates: Abraham 2000 BC/E	
Moses 1250 BC/E	
Question:	
What kept the preliterate Hebrew community cemented together for 7:	50 yrs?
Answer:	5
Hebrews were an oral society & <u>must</u> have had an oral tradition with	a social charter to
keep them functioning as a community	
NEWED TO OLIECTION #1	60
NSWER TO QUESTION #1 YES	S9
Hebrews had an Oral Tradition before they wrote down Gen 1-11	
Fundamental Beliefs & Values of Gen 1-11 had Oral Phase	
based on the Covenant with God \rightarrow social cement \rightarrow Messages of Faith	
CONCERN & FEAR	S10
by having an Oral Phase, was there a problem with memory & the loss of	
BUT	
How powerful is your God?	
8. Jesus: "The Holy Spirit, whom the Father will send in my	
will teach you all things and will remind you of e	
I have said to you."	Jn 14:26
Therefore, the New Testament had an oral	phase

QUESTION #2	S2
Were the Hebrews influenced by the Oral Traditions of the Ancient Near East (ANE)? Answer: YES & NO	52
(1) <u>YES</u>	S3
FORMAT & characteristics of oral traditions appear in Gen 1-11	
SOCIAL CHARTER (Messages of Faith)	
Beliefs & Values of the Hebrews	
ACCOUNT OF ORIGINS (Ancient Science)	
9. To repeat part of Quote 5	S4
"[Oral traditions] will almost always include an account of origins—	
the beginning of the world [Gen 1 & 2],	
the appearance of first humans [Gen 1 Day 6; Gen 2:7 & 22],	
the origin of animals [Gen 1 Days 5 & 6; Gen 2:19-20],	
plants [Gen 1 Day 3; Gen 2:8-9], and	
other important objects [eg, Tigris & Euphrates Rivers, Gen 2:14] and final	lly
the formation of the community [Hebrew Genealogies in Gen 5 & 11]	2
Oral traditions typically portray the universe as consisting of	S5
[1] sky [Gen 1 Days 2 & 4; Gen 2:4] and	
[2] earth [Gen 1 Day 3; Gen 2:4] and perhaps also an	
[3] underworld	
Related to the account of origins is often a genealogy of gods, kings, or other	
heroic figures in the community's past, accompanied by stories about their	
heroic deeds [Hebrew Genealogies in Gen 5 & 11; Table of Nations in Gen 10]	
Deity is an omnipresent reality in the world of oral traditions [Gen 1-11]."	
Lindberg, 7-8	
(2) <u>NO</u>	S6
CONTENT of the Social Charter	
• Radical	
compared to the surrounding ANE nations charter is a Covenant with <u>ONE</u> Holy God (Ethical <u>Mono</u> theism)	
• Polemical	S7
it's in your face	~ .
EG creation of sun, moon & stars on 4 th Day in Gen 1	
not gods, but created by the God of Hebrews TO SERVE HUMANS!	
• Foundational Beliefs & Values of the Hebrews:	S 8
EG there is only one holy God	
ANE: many gods & they behaved badly (eg, murders, liars, adulterers, et	tc)
God created humans to be in a relationship with him	
ANE: gods created humans to be their slaves	
God chose the Hebrews to bless the entire world	
ANE: other nations were to be conquered & subjugated	

Oral Tradition & Message-Incident Principle FORMAT	S2 H5
Account of Origins (Ancient Science) → Incidental CONTENT	
Social Charter (Covenant with God and Beliefs & Values) → Inerrant Message o	f Faith
Success of Hebrew Oral Tradition is its Message, not its Ancient Origins Science impact of the Message is still felt here today in synagogues & churches	;
Advantages in Recognizing the Oral Tradition behind Genesis 1-11	S3
Relieves problems of incoherence (so-called "contradictions")	
Gen 1-11 has an Ancient Epistemology	
Therefore CUT THE BIBLE SOME EPISTEMOLOGICAL SLACK	
Relieves problems of incompleteness	
Gen 1-11 is brief and limited by human memory	
Therefore it's not an exhaustive record & it won't answer all your questions	
• Avoids conflicts between the Bible & science	S4
Gen 1-11 features an Ancient Science	
Therefore scientific concordism not possible	
• Directs attention to the Message of Faith, not the Ancient Science	
Biblical Inerrancy is found in the Message	
Power of Bible is in the Message which changes the lives of men & women	
D. Transition from Prehistoric Science to Science in Literate Societies	S5
Contributing factors:	
Invention of Writing	S 6
Dates:	
3000 BC/E: pictographs 1700 BC/E: alphabet	
Modest & Practical Beginning:	
lists \rightarrow abstractions \rightarrow criteria for classification & evaluation (CATEGORIES)	
Becomes more complex:	
charting celestial motions \rightarrow patterns \rightarrow mathematical astronomy	
Results:	S7
replaces memory	57
can deal with high volumes of information	
allows for new thought patterns \rightarrow CRITICAL THOUGHT emerges:	
• inspection	
• comparison	
• development of theories	
• emergence of rhetoric (rules of argument)	
Prosperous Society with Scribes & Scholars	S 8
society with divisions of labour that is capable of absorbing an academic class	
included individuals who could dedicate their attention to understanding the physical wor	ld

Science 2 Ep	oisode 54
2. Egyptian & Mesopotamian Science (3000-500 BC/E)	S2
Key Thought #2: Trend in the History of Science further back into <u>the Past</u> → science <u>connected</u> to religion	
<u>Mathematics</u> SCIENCE:	\$3
• Egypt	
engineering & construction of pyramids	
Mesopotamia (Babylonians)	
mathematical astronomy & celestial predictions simultaneous base 10 (decimal) & 60 (sexagesimal) system	
we have inherited from them 60 minutes in an hour, 360 degrees in a circle, etc	,
Quantification → Language of Science	
RELIGION:	S4
Mystic-mathematicians \rightarrow numbers viewed as Divine	51
Mystical Numbers	
7, 10, & 60 and their multiples	
EG	07 1111
W-B 62 Sumerian King List <u>BEFORE</u> the Flood extremely long reigns → 10s of 1000s yrs	S5 H11
all multiples of 100	
mathematical formula with the Mesopotamian mystical number 60	
Purpose:	
legitimize the divinity of the Kings	
Excursus: Biblical Genealogies & Stylistic Numbers NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point	S6
NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood	S6 S7 H11
NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point	
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 	
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 	
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 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy 	S7 H11 S8
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews 	S7 H11 S8
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews <u>MAYBE</u> to emphasize that the Hebrews are the people of the 5 Books (Pentated 	S7 H11 S8 uch)?
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews <u>MAYBE</u> to emphasize that the Hebrews are the people of the 5 Books (Pentated Implication for the Origins Debate 	S7 H11 S8 uch)?
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews <u>MAYBE</u> to emphasize that the Hebrews are the people of the 5 Books (Pentated Implication for the Origins Debate numbers in the genealogy are stylistic 	S7 H11 S8 uch)? S9
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews are the people of the 5 Books (Pentated Implication for the Origins Debate numbers in the genealogy are stylistic Therefore genealogies cannot be used to date the age of the earth 	S7 H11 S8 uch)? S9
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews <u>MAYBE</u> to emphasize that the Hebrews are the people of the 5 Books (Pentated Implication for the Origins Debate numbers in the genealogy are stylistic therefore genealogies <u>cannot</u> be used to date the age of the earth young earth creationists add up the genealogies & claim the world is 6000 	S7 H11 S8 uch)? S9 O yrs old
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews <u>MAYBE</u> to emphasize that the Hebrews are the people of the 5 Books (Pentated Implication for the Origins Debate numbers in the genealogy are stylistic therefore genealogies <u>cannot</u> be used to date the age of the earth young earth creationists add up the genealogies & claim the world is 6000 NB not all numbers in the Bible are stylistic EG The Reigns of the Kings of Judah: 	S7 H11 S8 uch)? S9 O yrs old S10 H11
 NOTE: no hint of divinity in numbers, but sometimes used stylistically to make a point Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood very long lifespan: average 912 yrs 15/20 multiples of 5: should be only about 4 in 20. 5 non-multiples of 5: become multiples of 5 if you subtract 7 Statistics: 1 in 700 million chance of being a real/natural genealogy Why the emphasis on number 5? legitimize the importance of the Hebrews <u>MAYBE</u> to emphasize that the Hebrews are the people of the 5 Books (Pentated Implication for the Origins Debate numbers in the genealogy are stylistic therefore genealogies <u>cannot</u> be used to date the age of the earth young earth creationists add up the genealogies & claim the world is 6000 NB not all numbers in the Bible are stylistic 	S7 H11 S8 uch)? S9 O yrs old S10 H11

	Science 2 Episode 55
Genealogies of Jesus (Matthew 1:1-17 & Luke 3:23-38)	S2
• they don't align with Old Testament genealogies (EG 1 Chr 1-3)	S3 H12
• they don't align with each other	S4 H12
Matthew 1	S5-6 H63
Central Theme of Book: Jesus is the Son of David	
David's Gematria $\rightarrow 4 + 6 + 4 = 14$	S7 H12
3 groupings of 14 individuals emphasize the theme	S8-9 H12
Luke 3	
77 individuals in genealogy from Jesus to God	S10 H12
7 & its multiples carried notions of: (1) perfection	
(2) fulfilment	011
Jesus is the fulfilment of the Bible	S11
10. Jesus: "Do not think that I have come to abolish the Law and	
Testament]; I have not come to abolish them, but to f	
Conclusion 11. Regarding biblical genealogies: "If such non-literal, non-chronologi	S12
strange to us, that is OUR problem and our challenge to understa	-
	s, Creation & Creationism
is, after all, our teacher.	(NY: Paulist, 1993), 58
Don't read our modern concept of genealogies <u>INTO</u> the biblic	al genealogies
Astronomy	S13
SCIENCE:	515
Babylonians	
excellent observations & developed mathematical astronomy	
could predict seasons, new moons & lunar eclipses	
RELIGION:	S14
priest-astronomers & astral religion	
celestial events \rightarrow influenced the lives of people	
continues today with astrology & horoscopes	
Agentic Notion of Causality stars "act" on the world & change seasons, etc	
therefore stars are gods \rightarrow NOT an unreasonable notion	
-	015
Medicine SCIENCE:	S15
medications, surgery, treatments, wrote up case studies	
	01/
RELIGION: demons/evil spirits cause diseases → Agentic Notion of Causality	S16
treated by priest-healers through exorcisms, prayers & sacrifices	
Excursus: Demons, Diseases & Disabilities in the Bible blindness, deafness, speechlessness & crippling afflictions caused by demons/	S17 evil spirits
	-
12. A man in the crowd called out, "Teacher, I beg you to look at my son,	
child. A spirit seizes him and he suddenly screams; it throws him int	
that he foams at the mouth . It scarcely ever leaves him and is destroy	-
Even while the boy was coming, the demon threw him to the ground it	n a convulsion.
But Jesus rebuked the evil spirit, healed the boy and gave him back to) his father. Lk 9:38-40, 42

Science 2	Episode 56
<u>COMMENTS</u> :	S2
convulsions & a foaming mouth are classic signs of epilepsy Matt 17:15 identifies the boy is epileptic. See SQ 7	
Ancient Medicine demons/evil spirits cause diseases → Agentic Notion of Causality	
Principle of Accommodation is Jesus accommodating & using ancient medicine? See SQ 8-11	
	52
 QUESTIONS: were ancient people able to understand neuro-pathological mechanisms of epile were ancient people capable of knowing a miracle had happened with the epilep was it within their scope of understanding to know that a miracle had happenet though they did not know the neuro-pathological mechanisms behind epilepsy. Also see Hermeneutical Principle #8 Scope of Cognitive Competence 	ptic boy? S4 ed even
CONCLUSION	
 CONCLUSION Is Egyptian & Mesopotamian science, science? Yes & No YES: observations, math, predictions NO: Agentic Notion of Causality (God/s & demons) Again, I term it 'Ancient Science' 	S5
3. Greek Science (500-300 BC/E) called the "Greek Miracle" or Birth of Philosophy asked questions about:	S6
Natural World	S7
• composition: what is it made of?	
• operation: how does it work?	
focussed on <u>natural</u> causes	
gods not in the explanations	
EG eclipses: not supernatural omens	
natural cause \rightarrow the sun was a bowl of fire that turns awa	y
RESULT: <u>decrease</u> in Divine Interventionism in nature <u>increase</u> in natural processes	
CHARACTERISTICS:	S 8
 NOT anti-god most believed in the gods & their activity in nature a shift in divine action from interventionism → providentialism 	
• BUT	S9
by asking questions, it led to fewer functions for the gods in nature the gods became redundant & DISPOSABLE	57
Historical Trend: De-Sacralization (De-Deification) of Nature → elimination of god & div	vine action
• BUT	
the Greeks did produce the Atomists 1 st Dysteleologists no mind & no divinity in the world	S10
the world 'nothing but' atoms in random motion	

56

• Huge impact on science in the western world	S2
Aristotle (384-322 BC/E)	
1 st great scientist More anon in Galileo Affair	
CONCLUSION	S3
Is Greek science, science?	
• Yes & No	
YES: focus on natural causes	
NO: presence of teleology & divine providentialism	
Getting closer to our idea of science	
CONCLUSION: Ancient Science	S4
Science & Religion → closely connected in past	
13. "The historian, then, requires a very broad definition of 'science' we should expect	S5
that the farther we go [back in history], the broader we will need to be." Lindberg, 3	
<u>COMMENT</u> :	
WIDE definition of science	
V. MODERN* SCIENCE *as in 'Modernity' (1600-1950)	S 6
BEGINS in 17 th century as a METHOD to study nature	S 7
Sir Francis Bacon Novum Organum (1620) Latin: New Instrument	S 8
INDUCTION	
DEF: reasoning from particular facts to general principles empirical facts → laws of nature	
DEDUCTION:	
DEF: reasoning from general principles to particulars	
NOT Anti-God: most 17 th century scientists were Christians	S9
still believed in some divine interventionism in operations	
EG	
Newton's Rewinding of the Universe Theory	
BUT there was a significant shift in divine action	S10
focus on natural processes led to:	
 <u>decrease</u> in Cosmological Interventionism 	
 <u>increase</u> in Cosmological Providentialism 	
 God seen as acting through natural processes 	
ENDS in mid-20 th century as a METAPHYSIC about nature	S11
Features: redundancy of God \rightarrow no need for divine action	
natural laws can explain everything	
de-sacralization (de-deification) of nature \rightarrow dysteleological	
Result: SCIENTISM	
<u>conflation</u> of science with positivism, dysteleology & humanist ethics	
NB Excellent Evidence → SCIENCE IMPACTS RELIGION	S12
	512

• why bother believing in God & religion?

	Science 2 Episode 58
The Peak of Scientism	S2
Hebert Feigl, " <u>The</u> Scientific Outlook: <u>Naturalism</u> and <u>Humanism</u> " (1949) H Feigl & M Brodbeck, eds <i>Readings in the Philosophy of Science</i> (NY: A	nnlaton (1052) 8 19
1 st paper in an 800+ page volume & included 3 papers by Albert Einstein	.ppieton, 1955), 8-18
Naturalism better → Metaphysical Naturalism	S3
DEF: a dysteleological worldview conflated with science \rightarrow Sci	entism
Methodological Naturalism	
DEF: study of the physical world limited to nature and natural pr	ocesses
Purpose of Paper "to dispel certain confusions & misunderstandings" between sciences & hu	S4 Imanities
Cause of the Problem	S5
humanities "largely ignorant of the nature of modern science"	
humanities hold "a distorted view of the philosophical basis of the humani-	ties"
Errors of Humanities	S6
<u>SEDUCTIVE FALLACY</u> or " <u>SOMETHING MORE</u> " Myth	50
humanities believe in the existence of an irreducible spiritual element	
<u>REDUCTIVE FALLACY</u> or " <u>NOTHING BUT</u> " Problem	
humanities believe that science reduces the world into "nothing but"me	olecules
they believe that science leads to no human values	
BUT Feigl has values (as you'll see)	41 - (N-41 D42 - 07
14. "Neither a philosophy of the 'Something More' nor a philosophy of	-
will do for our time. Only an approach that is resolutely guided by the	-
what?' will avoid reading mysteries into the facts , as well as refra	
them by reduction to something less than experience attests them to	
• reject pre-scientific thought patterns:	S8
magic, miracles, theology & METAPHYSICS	
Do you see the problem?	
doesn't Feigl have a metaphysics?	
 disengage human values from theology & METAPHYSICS 	S9
Feigl is blind to the fact he has his own metaphysics!!!	
15. Theology & <u>METAPHYSICS</u> :	
"immature, if not infantile, trait of thinking," "tender-m	inded,"
"maladjusted individuals," "largely emotive" etc, etc, etc	;
Synthesize scientific attitude & human values	S10
16. "Mature mankind should be able to determine its own value star	ndards on the basis
of needs, wants, and the facts of the social condition of man."	Feigl, 18.
COMMENT:	
humanity is ultimate determiner of values \rightarrow HUMAN	NIST ETHICS
Achievement	S11
"intellectual adulthood" & "mature thinking"	
last sentence of the paper: 17. "A Scientific Humanism emerges as a philosophy holding consid	erable promise for
mankind— <i>if</i> mankind will at all succeed in growing up ."	Feigl, 18
COMMENT:	10.51, 10
demeaning remark to "grow up" was common by scien	ntism in the 1950s

 explanation: using causal interpretation (natural causes only) prediction: fruitfulness & confirmation Criteria of Science objectivity: open to public testing 	85
Criteria of Science	85
	85
 reliability: repeatable & confirmable precision: quantitative (math & stats) instead of qualitative coherence: internally consistent 	
• comprehensiveness: connectedness of all scientific disciplines (consilience	e)
THE PROBLEM	S6
SCIENTISM'S METAPHYSICAL BLIND SPOT	
DEF: most who accept scientism fail to recognize that they hold a metaphys they think that their view is purely "scientific" Feigl believes METAPHYSICS = TELEOLOGY BLIND to fact scientism has a dysteleological metaphysic & BLIND to the Metaphysics-Physics Principle	-
Lamoureux's suggestion to Feigl: To repeat Feigl's words in Quote 14 "Only an approach that is resolutely guided by the question 'What is w avoid reading mysteries into the facts."	S7 vhat?' will
Dr Feigl how about if you:	
"avoid reading your dysteleological metaphysics into the facts" Better:	
"avoid CONFLATING your dysteleological metaphysics and the fa- it off as " <u>The</u> Scientific Outlook" as you attempt to do in your paper	cts" and passing
CONCLUSION: The Peak of Scientism 1. Common view of science science offers pure Objective Truth	S8
wickedly anti-theological & anti-teleological	
fuels Science-Religion conflict \rightarrow academic trash talk	
2. Conflates scientific METHOD & dysteleological METAPHYSIC scientism attempts to pass itself off as "science" & " <u>THE</u> scientific position" BUT in reality it is a dysteleological metaphysic that baptizes itself with sci DISTINGUISH Methodological Naturalism from Metaphysical Naturalism	-

Science 2 Episode 59 S2

	cience 2 Episode 60
3. Confident, Triumphant & Patronizing Bertrand Russell	S2 S3
depicts the reign & attitude of scientism between 1900-1950 :	
18. "The world which Science presents for our belief: That Man is	the product
of causes which had no prevision of the end [teleology] they	were achieving;
that his origin, his growth, his hopes and fears, his loves and b	celiefs, are
[nothing] but the outcome of accidental collocations of atom	ns;
	S4
all the labours of the ages, all the devotion, all the inspiration,	, all the noonday
brightness of human genius, are destined to extinction in the	vast death of
the solar system all these things, if not quite beyond dispu	te, are yet so
nearly certain , that no philosophy which rejects them can ho	pe to stand."
Bertrand Russell, "Free Man's Worship" (1903) in Writings of Bertrand Russell 1903-1959 (NY: Simo	- Egner & Dennon, eds.
<u>COMMENTS</u> : • CONFLATES science and a dysteleological me tries to pass this off as "science"	S5 etaphysic
• common view of science by mid 20 th century still here today	
• The 50 Year Rule it takes about 50 yrs for major concepts to Why? people have to die!!! EG Science-Religion Dialogue appears in about 50 yrs after Feigl's paper	C C
VI. POST-MODERNITY & ANTI-REALISM Roughly around 1950:	S7
• a reevaluation of science & scientific certitude	
 led to a crisis in rationality/epistemology 	
• gave birth to Anti-Realism	
DEF: BELIEF that science cannot know physical reality "out there"	
Factors Precipitating the Epistemological Crisis: 1. <u>Professionalization of the History & Philosophy of Science</u> becomes an academic discipline	S8
19. "Philosophers long made a mummy of science. When they finally	
the cadaver and saw the remnants of an historical process of be	-
discovering, they created for themselves a crisis of rationality . around 1960 ." Ian Hacking, <i>Representi</i>	ing and Intervening
<u>COMMENTS</u> : Science is "historical process" NOT pure Objective Truth BUT dirtier & messier → more (1) social & (2) personal	e: U Press, 1983), 1 S9

Science 2 Episode 61 S2 S3-6

	th Century Scien led "New Physic	tific Discoveries	•	S2 53-6
so-cai	ied new rilysic			55-0
		Modern Science 1600-1900	Post-Modern Science	
		NEWTON	1900 to present EINSTEIN	
"Rig I	Physics"	CLASSICAL MECHANICS	THEORY OF RELATIVITY	
Tin		universal uniform flow	relative to observer	
			(everyone experiences own time)
Ma	ISS	static & unchanging	varies with motion	
Spa	ace	3-dimensional	4-dimensional; includes time	
		NEWTON	Bohr	
		CLASSICAL MECHANICS	QUANTUM MECHANICS	
"Smal	ll Physics"	deterministic	indeterministic	
	usality		probabilistic	
	<u>To summarize</u>			S7
		space & time \rightarrow separate space & time \rightarrow together		
	Newton:	causality → precisely predictabl	e	
		sality \rightarrow "roughly" predictable		
EPIST	FEMOLOGICAI	LIMPLICATIONS		S 8
• u	ndermine the for	undations of reason to understar	nd REALITY	
		f time, mass & space		
	2. notion of ca	· •		
• c		science can study REALITY		
	gave birth to A	-		
Anti-Realism				S9
DEF: BEL	IEF that science	cannot know physical reality "o	out there"	21
		's claim to truth		
m	ostly the work of	f philosophers		
	of Anti-Realism rentionalism	<u>l</u>		S10
		erely democratic truth		~
		ws & theories are only "convent	tions" of the scientific community	
• Instri	umentalism			S11
		vs & theories are only tools to r		011
		Iniverse Astronomy	1	
	could	still bring ships safely to a port	despite incorrect astronomy	
	Science = W	Vhat Works		
• Anar	chism			S12
DI		ust replace rationalism		
		nything goes"		
	EG astronor	ny & astrology equally valid!		

Science = Personal Whatever!

	Science 2 Episode	e (
CRITICAL REALISM: BET	IWEEN SCIENTISM & ANTI-REALISM	S
John Polkinghorne		1
Cambridge University theoretica	1 physicist 25 yrs	
became an Anglican priest leading Sci-Rel scholar today		
reading Ser-Ker senoral today		
Proposes a middle road between	extremes of:	
Scientism:		
ACCEPTS realism	s assumptions & narrow positivistic epistemology	
Anti-Realism:		
	ic assumption that physical reality cannot be known	
ACCEPTS social & per	rsonal factors as being influential in science	
Criticizes the Common Accour	nt of Science (Scientism)	
20. "There is a popular acco	ount of the scientific enterprise which presents its method as	
surefire and its achiev	ement as the inexorable establishment of certain truth .	
Experimental testing v	erifies or falsifies the proposals offered by theory. Matters	
	ng satisfaction; laws which never shall be broken are	
displayed for all to see	-	
	sience's achievements other forms of discourse [eg religion]	;
000	earing mere expressions of opinion . The widespread thought	
e 11	ow 'disproved religion' is based on a psychological effect	
	lysis. It is a continuation of the Enlightenment [18 th century]	
e e	ge which is not patterned according to the paradigm of the	
scientific method."	John Polkinghorne, One World: The Interaction of Science & Theo. (Princeton: U Press, 1980)	
COMMENTS:		S
с	ommon triumphalist belief that "Science is King" ommon belief that "science has somehow 'disproved religion" ommon belief that religion is only "opinion"	,
	the "Religion = Psychology" Argument	S
	ss of science → blinds us to the assumption: Science = Only Valid Truth	
	BUT	
	Nothing But a "psychological effect"	
	Scientism = Psychology	
Criticizes Common Belief that	Science is Purely OBJECTIVE	1
• No such thing as PURE OF	BJECTIVITY	
we always see through		•
EG duck-rabbit ske	tch S10	0-
 This is also in Science → science has "spectacles 	Observation through a FILTER behind the eyes"	
Science is Theory Laden		S
	n a society that is culturally & historically conditioned	3
1. Social Factors → practised i		

Science 2 Epi	sode 63
1. Theory Laden Character of Science—Social Factors	S2
• Scientific Community	
embraces a PARADIGM (foundational theory)	
EG evolution is the paradigm accepted by biologists new data is FILTERED through the paradigm	
• Society at Large	S3
science is influenced by social needs & values of our society	
EG discovery of telescope in 1609 \rightarrow military	
space travel in 1960s → US-USSR Cold War	
internet -> military	
BUT NO Post-Modern Excesses: Science ≠ Sociology	S4
• scientific discoveries & revolutions do occur	
EG geocentricity to heliocentricity in 17 th century	
WHY? PHYSICAL WORLD DICTATES	
 society can retard or accelerate the pace of scientific discovery 	S5
BUT society does not control scientific truth	
WHY? PHYSICAL WORLD DICTATES	
2. Theory Laden Character of Science—Personal Factors	S6
• Science is practised by fallible & limited people	
influenced by human values & judgment	
EG physics \rightarrow beauty & parsimony (simplicity) are values in the	ories
• Science is NOT ONLY the application of STRICT LOGIC	S 7
includes personal judgment & the operation of silent (tacit) categories	
called the "art" of science	
Personal Skill	S 8
DEF: application of a set of rules which are not known as such to the	•
person following them	
EG <i>riding a bike</i> : are you aware you adjust the curvature of	
bicycle's path in proportion to the ratio o	•
unbalance over the square of your speed?	17
<i>language</i> : are you aware of the rules of grammar? <i>working in a lab</i> : "learn by example" of authority	
like an intellectual "osmosis"	
	50
Personal Intuition includes flashes of genius, illuminating insights, hunches	S9
EG Einstein at 16 yrs of age gets an intuition about theory of rela	ativity
	e SQ 12
Personal Trust	S10
scientists trust & believe:	
• physical world really exists (realism) → we're not in the Matrix	C C
• paradigm → to set up experiments	
 laws of nature & their repeatability EG scientists trust no God/s or demons tinker with natural pr 	rocesses
-	
BUT NO Post-Modern Excesses: Science ≠ Personal Whatever! WHY? PHYSICAL WORLD DICTATES	S11
it even shapes our skills, intuitions & trust	

	~~~
Excursus: Critical Realism–A New Philosophy of Science this view of science is in the process of being developed & is embraced by many Sci-Rel scholars	S2
1. Realism	S3
ASSUMES (BELIEVES) the physical world is real and not merely an illusion	55
we are not trapped in some sort of computer program like the Matrix	
2. Intelligibility	
<u>ASSUMES</u> (BELIEVES) the physical world features a deeply embedded rationality & coh EG Einstein: "The eternal mystery of the world is its comprehensibility"	erence
ASSUMES (BELIEVES) humans can know & understand the physical world no "4 Fs" mind problem	
3. Explanatory Limitations	S4
<u>RECOGNIZES</u> scientific knowledge is <u>limited</u> to the physical world & natural processes scientific explanations are <u>limited</u> to natural causality	
science <u>does not</u> recognize agentic/supernatural causality (God/s, demons, <b>NB</b> science <u>does not</u> discount supernatural causality $\rightarrow$ can't detect	
<u>RECOGNIZES</u> scientific knowledge is <u>limited</u> to different levels of the physical world EG Newton's Laws for objects falling to earth Einstein's Theory of Relativity for traveling at the speed of light	S5
<b>4. Verisimilitude</b> Latin <i>vēra</i> : true <i>similus</i> : similar	S6
<u>RECOGNIZES</u> scientific knowledge is most likely true & corresponds to physical reality but not absolute or complete or purely objective knowledge	
<b>5. Historically Progressive</b> S7-9 H6	, 22-23
$\frac{\text{RECOGNIZES}}{\text{EG 3-tier universe}} \text{ scientific knowledge is tentative and becomes more accurate over time} \\ \text{EG 3-tier universe} \rightarrow \text{geocentric universe} \rightarrow \text{heliocentric universe} \rightarrow \text{too}$	lay
6. Comprehensiveness & Interconnectedness	S10
<u>RECOGNIZES</u> scientific knowledge is extensive & consilient all sciences fit together into one large-scale explanation of the physical wo	orld
7. Fruitfulness	
<u>RECOGNIZES</u> scientific knowledge leads to new explanations & predictions	
8. Counterintuitiveness	S11
$\frac{\text{RECOGNIZES}}{\text{EG } 20^{\text{th}} \text{ century "new" physics}}$	
9. Human Factor	
<u>RECOGNIZES</u> scientific knowledge is influenced by personal and social factors EG human values of beauty & parsimony in scientific theories	
10. Primacy of Nature	S12
<u>RECOGNIZES</u> the physical world ultimately <u>dictates</u> scientific knowledge nature imposes itself upon us, more than we impose upon it	
11. Practice of Day-to-Day Scientists	
<u>RECOGNIZES</u> scientists may not be fully aware of Critical Realism, but they employ man of its categories in their scientific work	у

#### **CONCLUSION: Polkinghorne & Critical Realism**

Science 2 Episode 65

S2

**S**3

Polkinghorne's critical realism leads him to a healthy relationship between Science & Religion

21. "I have attempted to defend a view of science which asserts its achievement to be a tightening grasp [over history] of an actual reality [realism]. In the course of the discussion we have acknowledged the role that [1] personal judgement, presented for the approval of [2] the [social/scientific] community and pursued along lines which are rational but **not wholly specifiable** [tacit categories & personal skill], has to play in the enterprise.

In my view this means that science is not different in kind from other kinds of S4 human understanding involving evaluation by the knower, but only different in degree. It is clear that the **personal element** is less significant in science [thus, science is more objective] than in, say, judging the beauty of a painting, **but it is not absent**.

We are to take what science tells us with great seriousness but we are not to assign S5 it an **absolute superiority** [scientism] over other forms of knowledge, so that they are neglected, relegated to the status of mere opinion [religion]. Our discussion has taken science off the pedestal of rational invulnerability and placed it in the arena of human discourse. It is not the only subject with something worth saying.

If differing disciplines, such as science and theology, both have insights to offer	S6
concerning a question (the nature of man, for example) then each is to be listened	
to with respect to its appropriate level of discourse." Polkinghorne, 24-25	
<u>COMMENTS</u> : • criticizes common perceptions: science <u>not</u> "absolute superiority" religion <u>not</u> "mere opinion"	S7
<ul> <li>opens a COMPLEMENTARY relationship between Science &amp; Religion Latin <i>complēre</i>: to fill, complete take insights from each at their "appropriate level of discourse" science → physical religion → metaphysical</li> </ul>	S8
VIII. CONCLUSION: WHAT IS SCIENCE?	S9
1. Common Definition Science = Scientism Conflation: science & dysteleological worldview	S10
Distinguish: <u>Method</u> of Science from <u>Metaphysic</u> of Scientism Methodological Naturalism from Metaphysical Naturalism	
2. Academic Definition	S11

No consensus

History reveals a **WIDE** definition of science (some scientists accept divine action; eg Newton) Trend Today: moving toward Critical Realism?

# 3. Science <u>IMPACTS</u> Religion History of Science reveals: science has contributed to the de-sacralization (de-deification) of nature

• natural processes have replaced Cosmological Interventionism in <u>both</u> Origins & Operations	
QUESTION:	S3
Is the loss of divine action in the physical world a rejection of God,	
or a rejection of an ancient agentic causality?	
• a shift in understanding divine action with religious scientists	S4
decrease & rejection of Cosmological Interventionism	
increase in Cosmological Providentialism	
QUESTION:	
Why bother keeping God?	
4. History of Science has Significant Implications for Hermeneutics	S5
Gen 1-11 points back to an earlier Oral Tradition	
Features of Oral Tradition:	
Ancient Epistemology $\rightarrow$ conflicts between events (eg creative acts in Gen 1 & 2)	
Ancient Agentic Notion of Causality $\rightarrow$ De Novo Creation of the universe & life (Gen 1 &	2)

- Ancient Science → Ancient Science of Origins
  - we need to RECOGNIZE & RESPECT these ancient features when reading the Bible

IX. TOWARD A WORKING DEFINITION OF SCIENCE	Lamoureux
• Science deals with <b>knowledge</b> of the <b>physical world—understan</b> operation, and origin.	nding its structure, S'
• Science has been practised by humans throughout <b>history</b> , resulting such as "Ancient Science," "Modern Science," and "Post-Modern Science," and "Post-Mod	•
• Science throughout history has been intimately connected to <b>meta</b>	physics, including a wide
variety of religious beliefs as well as a dysteleological worldview	v in recent times.
<u>COMMENTS</u> : <b>WIDE</b> definition of science includes the Babylonians, Newton, Dawkins, <i>et al</i>	S
"physical world" → assumes belief in realism recognizes the primacy of nature →	SS PHYSICAL WORLD DICTATES
"knowledge" & "understanding" → assumes intelligibility	<ul><li>(1) in nature</li><li>(2) by humans</li></ul>
"practised by humans throughout history" $\rightarrow$ recognizes	human factor: (1) social S10 (2) personal
"broad distinctions such as" $\rightarrow$ recognizes science is h	istorically progressive
"intimately connected to metaphysics" → science & religi reflects M	ion can't help but be related S1 Ietaphysics-Physics Principle

# MODELS ON THE RELATIONSHIPS BETWEEN SCIENCE & RELIGION

SCIENCE & RELIGION	S2
I. KEY THOUGHTS	S3
<b>1. Warfare is the Common Perception of the Relationship between Science &amp; Religion</b> 59% of Americans believe science & religion are often in CONFLICT (Pew 2015)         N         BUT science-religion scholarship has moved well beyond warfare	S4 Jotes 30
2. Foundation of Science-Religion Scholarship Reflects the Metaphysics-Physics Principle Two steps: 1 st distinguish the fundamental differences between science & religion 2 nd look for points in common for a reciprocal exchange of information → relations	S5 S6 H5 hip S7
<ul> <li>3. Science-Religion Scholarship is a Young Academic Discipline <ul> <li>emerged during the 1990s</li> <li>still in the process of developing</li> <li>two founding scholars: Ian Barbour &amp; John Haught</li> </ul> </li> </ul>	S8
II. SCIENCE & RELIGION MODEL OF JOHN F. HAUGHT	S9
Science and Religion: From Conflict to Conversation (NY: Paulist Press, 1995) Roman Catholic theologian	S10
<ul> <li>Haught's MODEL of Science &amp; Religion</li> <li>NB: a model includes as many relationships as possible, including those we do not accept</li> <li>Four Relationships between Science &amp; Religion: <ol> <li>Conflict</li> <li>Contrast</li> <li>Contact</li> <li>Confirmation</li> </ol> </li> </ul>	S11
<ul> <li>Haught's <u>POSITION</u> on Science &amp; Religion</li> <li>NB: a position is a personal &amp; specific view of the relationship between Science &amp; Religion Haught: <ul> <li>rejects Conflict</li> <li>starts with Contrast</li> <li>integrates Contact &amp; Confirmation</li> </ul> </li> </ul>	S12
<ol> <li>"The 'contrast' approach, while perhaps a necessary first step away from both conflation and conflict, is also unsatisfying I think that the 'contact' approas supplemented by that of 'confirmation,' provides the most fruitful and reason response to the unfortunate tension that has held so many scientists away from appreciation of religion, and an even larger number of religious people from enjoying the discoveries of science." Haught, 4</li> <li>TIP: Select &amp; Combine the relationships to develop YOUR position</li> </ol>	ach, able 1 an
<ul> <li><b>1. CONFLICT RELATIONSHIP</b></li> <li>Common perception of the relationship between Science &amp; Religion asserts it is impossible to be both religious &amp; scientific</li> <li> <ul> <li>especially if you are honest or not crazy!!!</li> </ul> </li> </ul>	S14
Science & Religion are completely <i>irreconcilable</i> therefore, they are in a constant & never-ending conflict	
Conflict fuelled by two groups: 1. Scientific Skeptics 2. Biblical Literalists	

	Models 1 Episode 68
SCIENTIFIC SKEPTICS	S2
DEF: 2. People who "reject religion in the nam	e of science" Haught, 11
Religion $\rightarrow$ oppressor & enemy of t Science $\rightarrow$ liberator & saviour	ruth & enlightenment
Criticisms against Religion	S3
Epistemological Problems	
religion is not testable & not objective	
	thout providing any <b>concrete evidence</b>
[ie, scientific evidence] of Go	od's existence." Haught, 10
BUT	
Do God & religion lend themselv	ves to scientific methods & standards?
Historical Problems	S4
church's persecution of Galileo (17 th co	
church's rejection of Darwin (19 th cen	• /
BUT	
Is this good history? More Ar	10n
Hermeneutical Problems	\$5
Bible is full of contradictions	
	RALISTS like Young Earth Creationists!!!
BUT	6
Is this good hermeneutics? Mo	ore Anon
Ethical Problems	S6
Why is there suffering & evil in the wo	orld?
This is a serious challenge	
Why would an all-loving, all-powerful	, and all-knowing God allow Holocaust?
<ul> <li>Yet religious people just keep</li> </ul>	on believing
BUT	
Is the problem of suffering & evi	l that simple? More Anon
Conflict Relationship of Scientific Skeptics common perception of science & religion b	S7-8 by those who reject religion
RELIGION	SCIENCE
• based on mindless faith	• based on hard facts & logic
• <i>a priori</i> reasoning (Deduction)	• a posteriori reasoning (Induction)
general rule to particular case	particular case to general rule
• emotional & irrational	dispassionate & rational
SUBJECTIVE	OBJECTIVE

Latin *a priori*: from something earlier (not based on observation/experience) *a posteriori*: from something later (based on observation/experience)

#### COMMENTS:

trapped in simple dichotomies & conflations entrenched in black & white and either/or thinking S9

	People who think the word	ls of the Bible are literally true" Haught, 11	52
DLI . <b>4.</b>	Modern Science $\rightarrow$ enem	• -	
	Religion $\rightarrow$ defender of F	•	
		ce is Creation Science (Young Earth Creation)	
<b>Conflict F</b>	Relationship of Biblical Li	teralists	S3-4
<u>comn</u>	non perception of science &	c religion by many who accept religion	
	RELIGION	MODERN SCIENCE	
•	offers True science	• offers False science	
•	based on hard facts	• misinterprets the facts	
•	Godly & competent	Satanic & incompetent	
	OBJECTIVE	SUBJECTIVE	
	COMMENTS:		S5
		lichotomies & conflations	
	entrenched in black	k & white and either/or thinking	
	CONCLUSION: Conflict Relationship		<b>S</b> 6
1. Ironical BOT		iblical Literalists are quite similar	
	ppeal to the "hard facts"		
	aim to be "purely objective	<b>,</b> "	
		Latin: against the person (ie, they disrespect people)	
	eeped in simple dichotomic		
	ink in black & white and e		
		$\rightarrow$ assume <u>scientific concordism</u> is a feature of the Bib	ole
2. Scientif	ic Skeptics alienate religiou	us people from modern science	<b>S</b> 7
Biblica	Literalists alienate scienti	fic people from religion	
2. CONTRA	ST RELATIONSH	IP	S8
	tween Science & Religion		50
	h RADICALLY different is	ssues & questions	
		Science & Religion: CONFLATION	
DEF: <b>5.</b> '	<b>Conflation</b> simply mean	ns the collapsing of distinct items in such a way that	S9
	their differences are appar	ently lost [Conflation blends] science and belief	
	into an undifferentiated sn	nudge a careless commingling of science with belief	
	a tangled muddle."	Haught, 13-14	
	COMMENTS:		S10
	Note the word " <b>b</b>	elief"	
	ultimate belie	$f \rightarrow$ metaphysic $\rightarrow$ religion	
	WIDE definit	tion of religion	
	Types of Conflat	tion:	
		flated with: 1. Religious Belief (Concordism)	
		2. Secular Belief (Scientism)	
		69	

**BIBLICAL LITERALISTS** 

#### 69

## Models 1 Episode 69

S2

# SCIENCE CONFLATED WITH RELIGIOUS BELIEF

Concordism			
DEF: 6. "Concordism forces the biblical text to correspond, at least in a loose way	, with		
the contours of modern cosmology (ie science). In order to salvage the literal truth			
of the biblical book of Genesis, for example, some religious scientists ma	tch the		
six days of creation with what they consider to be six corresponding e	pochs		
	Haught, 13		
COMMENTS:	S3		
Haught uses classic definition → Day-Age Theory (Progressiv	e Creation)		
Days of Genesis $1 = Cosmological/Geological Periods (mi$	,		
BUT some serious problems:	S4		
<ul> <li>light created on Creation Day 1, but the sun created on D light before the sun?</li> </ul>	ay 4		
• plants created on Day 3, but the sun on Day 4			
frozen plants through a geological age? More Ano	n		
BE AWARE OF MY DEFINITION & QUALIFICATION Lamoureux	S5		
Scientific Concordism			
DEF: common belief held by <u>both</u> religious individuals & religious skeptics that the	Bible		
corresponds, or is supposed to correspond with modern science			
<ul> <li>I have a WIDER definition</li> </ul>			
I also include young earth creation			
Destand Concern recording Concerdian	S.C.		
Pastoral Concern regarding Concordism 7. "The contract [relationship] wisely points out how dengerous it is for religio	S6		
7. "The contrast [relationship] wisely points out how <b>dangerous</b> it is for religion			
seek support for its teachings in any particular scientific theories, since cur	-		
accepted scientific theories may easily be <b>discarded by the next generati</b>			
<b>explorers</b> ." Ha	ught, 22		
COMMENTS:	S7		
excellent pastoral insight			
IF you conflate science & your religion,			
AND new discoveries overturn your science,			
THEN do you also toss away your religion?	~~~~~		
EXAMPLES Structure of the Universe	S8 H13		
Martin Luther's geocentric universe in his 1534 Bible			
<b>Geocentricity</b> Greek $\gamma\eta$ ( $g\bar{e}$ ): earth			
DEF: the earth is at the centre of the <u>entire</u> universe			
Heliocentricity Greek ηλιος ( <i>hēlios</i> ): sun			
	S9 H24		
DEF: the sun is at the centre of the <u>entire</u> universe	S9 H24		

PASTORAL QUESTION:

Did the readers of Luther's Bible lose their faith with the discovery of heliocentricity by Copernicus in 1543?

	Models 1 Episode 71
Operations in the Universe	S2 H13
Retrograde Motion of Planets Latin <i>retro</i> : backward DEF: a short backward loop (east-to-west) by a plane	t from its normal
west-to-east "motion" across the sky.	t from its normal
entirely a VISUAL effect	
<b>BUT</b> for Luther $\rightarrow$ REAL	S3
he believed that planets literally looped back east-to-	
8. "The retrograde motion of the planets also	
created through his word. This work belor	-
and is <b>too great to be assigned</b> to the <b>an</b>	-
	on Genesis 1-5, J. Pelikan, ed Louis: Concordia, 1958), 30
PASTORAL QUESTIONS:	S4
Did the readers of Luther's <i>Lectures on Genesis</i> lose the discovered heliocentricity and that retrograde motion w Did they lose their faith in God once there realized that ( intervene to cause planets to move backward?	vas merely a visual effect?
EXCURSUS: God-of-the-Gaps	S5
DEF: belief that God <u>intervenes</u> at different times in: (1) <b>origins</b> of the cost	
	cosmos (eg Luther above)
NOTE: term <u>not</u> used in a <b>Personal Context</b> only used in a <b>Cosmological Context</b>	
FEATURES	S7
• Term carries a negative nuance	
BUT logically feasible:	
God can intervene in nature at any time he wants to	<b>C</b> 0
• Prediction IF gaps in nature are real,	S8
THEN gaps should <u>WIDEN</u> with scientific research	
No natural explanations or mechanisms will be found Therefore a point in nature where God intervenes	
History of Science	S9
ALL proposed gaps have <u>CLOSED</u>	
natural explanations or mechanisms have been found gaps are Gaps in Knowledge, <u>NOT</u> Gaps in Natur	e
EG Isaac Newton's Rewinding of the Universe Theory	S10
saw wobbles in the orbits of Saturn & Mercury	
believed God intervened to fix wobbles & stop the colla	pse of the universe
BUT a <b>Gap in Knowledge</b>	
wobbles are self-correcting & explained by:	
1. gravitational pull of Uranus on Saturn	
telescopes in Newton's day were too	weak to see Uranus
2. Theory of Relativity for Mercury only discovered in 20 th century	
Pastoral Concern	S11
IF new scientific knowledge closes gaps in nature (which religious THEN does this lead to a lost of belief in God?	

## Scientism

DEF: 9. "Scientism may be defined as 'the <b>belief</b> that science is the <b>only</b> reliable guide to
truth.' Scientism, it must be emphasized, is by no means the same thing as science.
For while science is a modest, reliable, and fruitful method of learning some
important things about the universe, scientism is the assumption that science is
the only appropriate way to arrive at the totality of truth. Scientism is a
philosophical belief (strictly speaking an 'epistemological' one) that enshrines
science as the only completely trustworthy method of putting the human mind in
touch with <b>'objective' reality</b> ." Haught, 16

## <u>COMMENTS</u>: Note the word "belief" Scientism is NOT science!

## Haught's Criticism of Scientism

Metaphysically Blind

10. "Without usually being aware of it, scientific skeptics have uncritically fused [conflated] the scientific method with scientism, a belief system that assumes, without any scientific demonstration, that science is the only appropriate way to look at things." Haught, 17

COMMENTS:	S5
Scientism's Metaphysical Blind Spot	Notes 59
conflation of: methodological naturalism &	
metaphysical naturalism	
NB: there is no scientific experiment to prove that sc	ience is the

• Religious in Character

11. Scientism "is a kind of faith-commitment not entirely unlike the kind we find in religion. Devotees of scientism place their trust in the scientific method itself, but no more than religious believers can they scientifically demonstrate the truth of this faith ... Skeptics trust in science almost as though, like the gods of religion, it were our savior from the original sin of prescientific ignorance." Haught, 16

best & only way to understand the world

Note religious language! WIDE Definition of Religion

## **Contrast Relationship of Science & Religion**

separate science & religion from each other & recognize their fundamental differences

## **SCIENCE**

## **RELIGION**

HOW questions of nature

- patterns & processes
- natural causes
- works of nature

- WHY questions of belief
  - meaning & mystery
  - ultimate causes
  - Foundation of Nature

<u>COMMENTS</u>: NO conflict is possible: Science → Physical Religion → Metaphysical S7-8

**S**6

Models 1 Episode 72

S2

S3

S4

## Models 1 Episode 73

## S2

2. Contrast is the 1 st step toward a peaceful relationship between science & religion	S3
12. "Perhaps it is even almost essential for us to pass through the discipline of	
<b>contrast</b> as we make our way out of the confusions of conflation and move	
toward a more nuanced discussion of science and religion." Haught, 15-16	
COMMENTS:	
also called: "an important step toward clarity"	
"helpful first approximation" Haught, 17 reflects the 1 st Principle in this course → Metaphysics-Physics Princi	
3. Leaving science & religion in separate compartments is UNSATISFYING	
	S4
<ul><li>13. "The urge to discover the coherence of all our ways of knowing is too powerfu for us to suppress indefinitely." Haught, 17</li></ul>	L
<u>COMMENTS</u> : many students enter this course with science & religion compartment BUT we all want an INTEGRATED worldview	alized
3. CONTACT RELATIONSHIP	S5
<u>Cautious</u> (but not too intimate) move toward a relationship between science & religion beginning of a more integrated picture of reality	
Two-Way Relationship:	<b>S</b> 6
• science <b>broadens</b> religion's horizon of the natural world	
offers physical facts • religion <b>deepens</b> science's understanding of the ultimate meaning of nature	
offers metaphysical beliefs	
SCIENCE CONTACTS RELIGION	<b>S</b> 7
14. Theology "must pay attention to what is going on in the world of scientists. It must	
seek to express its ideas in the terms that take the best of science into account lest	
it [theology] become intellectually irrelevant." Haught, 18	
<u>COMMENTS</u> : being intellectually relevant is loving God with our mind (Matt 22:37) "best of science" → a call to relate evolution & theology?	
<b>15. "Whether they are aware of it or not</b> , theologians always bring at least S	8-10 H5
implicit cosmological assumptions to their talk about God, and it is only	0 10 115
honest that they acknowledge this fact." Haught, 18	
Implicit Cosmological Assumptions = Implicit Scientific Concepts (Herm Pr	in 7)
THEOLOGY'S HERMENEUTICAL BLIND SPOT	S11
DEF: most religious people are <u>not</u> aware they use science in their theology	
EG, dark watery earth in Gen 1:2 → most think it's a spherical earth! ■ BLIND to the fact they use modern science	S12
NOTE: IF religious people are going to talk about the creation,	S13
THEN they can't help but use the science of their generation	

1. Conflation is the main problem in the common conflict perception of science & religion

**CONCLUSION: Contrast Relationship** 

SUGGESTION: IF religious people use science,

THEN they should be reasonably competent

<ul> <li>Contributions of Science to Theology:</li> <li>Improves Hermeneutics         modern science: reveals there is an ancient science in the Bible         assists religious people to focus on the Message of Faith         <ul> <li>formulation of the Message-Incident Principle</li> </ul> </li> </ul>	S2
• Enriches & Magnifies the Doctrine of Creation EG Who has a greater & more magnificent picture of God's grandeur in nature? Biblical writers (3-Tier Universe) & Luther (Geocentricity)? OR	S3 S4
Our generation with the Hubble Telescope?	S5
<b>Rejects the Proof/Argument from Design</b> REMEMBER: Cautious (but not too intimate) move toward a science-religion relationsh	S6 nip
16. The Contact Relationship "does not strive to prove God's existence from science	
It does not seek to shore up religious doctrines by appealing to point directly to a <b>divine designer</b> . The days in which scientific ideas could be used to seal	
arguments for God's existence are over."       Haught, 18 <u>COMMENTS</u> :       NOT Haught's personal view, but that of Contact relationship he accepts intelligent design         problem with the terms <b>Proof</b> or Argument ???	S7
<ul> <li>Lamoureux's Position on Intelligent Design <ul> <li>Term "proof" is too strong, but term "argument" is more accurate</li> <li>Arguments for Design:</li> <li>Historical: common belief in philosophy &amp; theology throughout history</li> <li>Biblical: Ps 19 &amp; Rom 1</li> <li>Scientific: Anthropic Principle → fine-tuning in laws of nature</li> <li>Experiential: Most people sense the world is designed</li> </ul> </li> </ul>	S8 S9
Religion Contacts Science         not as substantive as science contacting religion         religion does not impact/change/add to science	S10
<ul> <li>17. The Contact relationship "is content simply to interpret scientific discoveries within the framework of religious meaning." Haught, 18</li> <li><u>COMMENTS</u>: S</li> <li>religion brings "religious meaning" (metaphysics)</li> <li>EG: God is the creator cosmos is heading in an ordained direction</li> </ul>	511 H5
<ul> <li>CONCLUSION: Contact Relationship</li> <li>1. <u>NOT</u> recognizing Implicit Cosmological Assumptions is a problem with religious people EG an understanding of nature is needed <u>BEFORE</u> a doctrine of creation is formulat</li> <li>a physics is needed <u>BEFORE</u> a meta—(after)—physics</li> </ul>	S12
2. Science impacts Religion more than Religion impacts Science science: improves hermeneutics offers a greater & more magnificient picture of God religion only adds a metaphysic & has no real effect on scientific research	S13

religion: nourishes science at a "very deep level"	S3
impacts science substantively	
NB: Haught uses a WIDE definition of religion (metaphysics)	
claims that religious elements are COMPONENTS of science!!!	
Metaphysics-Physics Principle	S4 H5
downward movement of religious ideas into science!!!	
ACKNOWLEDGES THE FIDUCIARY CHARACTER OF SCIENCE	S5
<b>Fiduciary</b> Latin <i>fides</i> : faith DEF: to have faith and belief	
<b>18.</b> "Science, to be more specific, cannot even get off the ground without <b>rooting</b> itself in	S6
a kind of <i>a priori</i> 'faith' that the universe is a rationally ordered totality of things.	
Scientists always rely on a <b>tacit faith</b> (which they seldom reflect on in an explicitly	
conscious way) that there is a <b>real world</b> 'out there,' that this <b>real world</b> hangs	
together <b>intelligibly</b> , that the human mind has the capacity to comprehend at least	
some of the world's <b>intelligibility</b> , and that no matter how far we probe there will	
still be further <b>intelligibility</b> to uncover. Without this kind of <b>trust</b> there would be	
no incentive to look for the <b>order</b> present in nature or to keep looking deeper into	
the specifics of this <b>order</b> ." Haught, 23	
COMMENTS:	<b>S</b> 7
scientists have: " <i>a priori</i> 'faith'" → assumed & not empirically proven "tacit faith" → silent	57
scientists: "seldom reflect on [this faith] in an explicitly conscious way"	
THE RUSE "CONFESSION"	<b>S</b> 8
Michael Ruse	
atheist & famed philosopher of biology	
<b>19.</b> "I think philosophically that one should be sensitive to what I think	
history shows, namely, that evolution, akin to religion, involves	5
making certain <i>a priori</i> or <b>metaphysical assumptions</b> , which at	
some level <b>cannot be proven empirically</b> . I guess we all knew that	,
but I think that we're all much more sensitive to these facts now.	
Well, I've been very short, but that was my message, and I think it's	5
an important one."	
Moderator: "Any questions?" [There is a momentary silence]	
Ruse: "State of shock?!?" M Ruse, "The New Anti-Evolution 1993 AAAS Meeting trans P. Ne	lson
<u>COMMENTS</u> : scientists have " <i>a priori</i> or metaphysical [religious] assump also recognized by skeptics of religion like Ruse	S9 otions"
Therefore $\rightarrow$ <u>not</u> special pleading by religious people	

**4. CONFIRMATION RELATIONSHIP** 

Intimate relationship between Science & Religion

Models 1 Episode 75

S2

## 75

<b>IDENTIFIES METAPHYSICAL (RELIGIOUS) FOUNDATIONS IN SCI</b>	
Quote 18 → first two features of Critical Realism	Notes 64
Realism BELIEF "there is a real world 'out there'"	
refers to "real world" 2X	
Intelligibility of Nature	S3
BELIEF "universe is a rationally ordered totality of things"	
refers to world's intelligibility 3X and orderliness $3X \rightarrow$ Intell	igent Design
Human Intelligence	
BELIEF "human mind has the capacity to comprehend" & truly can know	^v nature
NO <b>4Fs</b> mind problem here!	
Metaphysics-Physics Principle	S4 H5
downward movement of metaphysical/religious ideas into scier	ice
PROPOSES A METAPHYSICAL (RELIGIOUS) ROOT FOR SCIENCE	S5
20. "Science has nothing to lose and everything to gain by rooting itself in reli	gion's
fundamental vision of <b>reality</b> as an <b>intelligible</b> whole <b>grounded</b> in the ul	timately
trustworthy Being that followers of Moses, Jesus, and Muhammad call by	the
name 'God.'" Hau	ught, 22
QUESTION	S6
In who or what do we root:	Notes 14
tacit faith of scientists, reality, intelligibility of nature & h (1) a dysteleological universe & 4 Fs brain? OR	uman intelligence
(2) the Foundation of a teleological universe (eg God that was intended to know the world through scie	-
CONCLUSION: Confirmation Relationship	S8
1. Don't overstate impact of Religion on Science	
EG some Christian historians say science in 16 th century rose <u>because</u> of C BUT science was being practised well-before Christianity (eg ancient	•
2. Religion can be in a peaceful relationship with modern science	S9
<ul> <li>Confirmation appreciates fiduciary aspects of the human epistemological <u>DO NOT</u> be embarrassed to say that we are creatures of FAITH</li> </ul>	l condition
<ul> <li>Confirmation asserts that science has <i>a priori</i> metaphysical (religious) for Christianity offers science a metaphysic → rooted in God</li> </ul>	oundations
NCLUSION: Science & Religion Model of John Haught	S10
1. Haught's Personal Position on Science & Religion	(Quote 1) S11
rejects Conflict	
begins with Contrast as a "necessary 1 st step away from conflation & conflict"	
accepts Contact supplemented by Confirmation Therefore → <u>Select</u> & <u>Combine</u> various categories & relationships	S12
2. The Problem of Conflation	S13

		Mo	dels 2 Episode 77
I. SCIENCE & RELIGION I	Model of Ian	G. Barbour	S2
Religion in an Age of Science (	-	er, 1990)	S3
"The Dean" of the science-			
PhD physics & Master of D Protestant Christian	ivinity		
Barbour's <u>MODEL</u> of Science	& Religion		S4
		ossible, including those we do no	
Four Relationships between			
1. Conflict			
2. Independence			
<ol> <li>Dialogue</li> <li>Integration</li> </ol>			
Barbour's POSITION on Scier	nea & Poligian		S5
		e relationship between Science	
Barbour:		r	
• rejects Conflict			
<ul> <li>starts with Independence</li> </ul>			
<ul> <li>integrates Dialogue &amp; a</li> </ul>	spects of Integration		
<b>21.</b> "I will argue that	none of the options of	considered above [Conflict & II	ndependence] S6
is adequate to th	e task I will sugge	st reasons for supporting <b>Dialog</b>	gue, and with
some qualification	ons, certain versions	of Integration."	Barbour, 3 & 16
TIP: Select	& <u>Combine</u> the relat	tionships to develop <u>YOUR</u> pos	ition
The Challenge to Religion			S7
The Success of Science			
<b>22.</b> "The first major cl	hallenge to religion i	n an age of science is the succes	ss of the
methods of scier	nce."		Barbour, 3
COMMENT	<u>S</u> :		
aligns wit	h Polkinghorne's "P	sychological Effect" Argument	Notes 62
The Problem			S8
Epistemological: science app	ears to be the only w	vay to find Truth (capital "T")	
23. "Science seems to	provide the only rel	liable path to knowledge. Man	y people view
[1] <b>science</b> as ob	jective, universal, ra	tional and based on solid eviden	ice.
[2] <b>Religion</b> , by	contrast, seems to be	subjective, parochial, emotiona	al, and based
		ree with each other."	Barbour, 3
COMMENT	e		<b>S</b> 9-10
		elationship between science & re	
	SCIENCE	RELIGION	C
	objective	subjective	
	objective	subjective	
	universal	narochial	
	universal rational	parochial emotional	
	universal rational Based on:	parochial emotional Based on:	

• trapped in simple dichotomies & conflations entrenched in black & white and either/or thinking

S10

## **1. CONFLICT RELATIONSHIP** S2 Never-ending conflict between science & religion Fuelled by two groups: 1. Scientific Materialists 2. Biblical Literalists **SCIENTIFIC MATERIALISTS** S3 **Foundational Principle** reality is "nothing but" energy & matter $\rightarrow$ there is no spiritual reality **Foundational Method** Reductionism everything is explainable by reduction into physical laws EG love & religion are "nothing but" energy & matter **EXAMPLES Carl Sagan** S4 astronomer & hosted the most popular science TV series in 1980s HUGE impact promoting the conflict relationship & the idea Science = Atheism 24. "THE COSMOS IS ALL THAT IS OR EVER WAS OR EVER WILL BE." C Sagan, Cosmos (NY: Random House, 1980), 4. Capitals original **QUESTIONS:** • is this a scientific or religious statement? is it not the same as: **S**5 25. Jesus: "I am the Alpha and Omega, the First and the Last, the Beginning and the End." Rev 22:13 • did Sagan alienate the 90% of teleologists in Canada & US? **S6** did he do a disservice to science by discouraging them to be scientists? **Jacques Monod S**7 Nobel Prize winning molecular biologist 26. "Man knows at the last that he is alone in the universe's unfeeling immensity, out of which he emerged only by chance." J Monod, Chance and Necessity (NY: Vintage Books, 1972), 180 OUESTION: • is this not an overstatement: "Man knows . . . " 90% of Canadians & Americans are teleologists & would disagree **Excursus: God, Chance & Christians S**8 Christians demonize: chance, randomness, indeterminancy RESULT another false dichotomy → between God & chance BUT could chance, randomness, indeterminancy be a part of God's good creation? could there be some freedom & flexibility in nature? EG **S**9 Video Gambling Machines computer program in these machines are set up for them to win over time a randomness generating chip is ultimately directed by the overriding computer program

• randomness is used by the machine for the purpose of winning

## Chance & Creation

God sets up the laws of nature to create the world over time

chance processes in nature are ultimately directed by the overriding laws of nature

chance is used by God to create the world

S10

## **Purpose of Chance in the Creation** offers an element of Divine Hiddenness

termed "Deus Absconditus" Latin: God who hides offers a non-coercive environment for free-will & the development of faith

## E. (Edward) O. Wilson **S**3 Harvard professor & Father of Sociobiology (Evolutionary Psychology) religion is "nothing but" a survival behavior of human species religion chosen by natural selection & tribes with religious behavior were the fittest • the brain was "hardwired for God" God "exists" only in the brain 27. "The ultimate question: Do religion and moral reasoning also have a S4 biological origin? Are they the products of evolution? So stated, the meaning of spiritual authority breaks into **TWO** competing possibilities, **TWO** competing hypotheses that now appear susceptible to empirical testing. EITHER [1] humanity is guided by moral principles that were formulated outside human existence, in other words by divine will or natural law, **OR** else [2] humanity has evolved these principles on its own during its long genetic and cultural history ... The [metaphysical] naturalistic hypothesis arising from scientific knowledge holds that the powerful emotions of religious experience are entirely neurobiological, that they evolved as part of the programmed activity of the brain favoring survival of the tribe and individual." E. Wilson, "Hardwired for God" Forbes ASAP (4 Oct 99), 132, 134. Capitals added COMMENTS: S5 • trapped in a deep ditch dichotomy!!! "two competing possibilities" "two competing hypotheses" "Either . . . or . . ." • an admission that everyone has a religious impulse confirmation $\rightarrow$ 90% believe in teleology Excursus: The 3rd Hypothesis—Evolutionary Psychology & Evolutionary Creation S6 God created through evolution (teleological) a set of neurons that are sensitive to him and spiritual realities like moral revelation in our conscience & Intelligent Design in nature Analogy I **S7** God created through evolution optic neurons for seeing the physical world God created through evolution God neurons for seeing the spiritual world **GOD'S EVOLUTIONARY HARDWIRING** is behind: Natural Revelation (ID) S8 H2 Moral Revelation Analogy II S9 we have the freedom:

to close our physical eyes & not see the physical world to close our *spiritual eyes* & not *see* the spiritual world

QUESTIONS on Intelligent Design

• has your evolved brain been built to *see* the beauty, complexity, and functionality in nature as reflections of the design of an Intelligent Designer?

• have you been hardwired BY God through evolution so that you can find him?

**Comments on Scientific Materialism** For the skeptics of religion: Historical Trend: science

alain ra & mora cts of natu d life

Historical Trend: science explains more & more aspects of nature and life science eliminates a God-in-the-gaps	
QUESTIONS:	<b>S</b> 3
• will science eventually explain away God & religion?	
• can we extrapolate this trend and <u>PROVE</u> there is no God?	
NO. Categorically not possible	
Metaphysics-Physics Principle stops extrapolation of physics to metaphys	ics
BUT you can take a Step of Faith and come to the <u>BELIEF</u> there is no God	
BIBLICAL LITERALISTS	S4
Foundational Principle	
Bible reveals <u>True</u> science	
Therefore, biological evolution is false	
Foundational Method	
Scientific Concordism align the scientific evidence with the literal statements about nature in the Bible	
EXAMPLE	S5
Institute for Creation Research	
most important Young Earth Creationist organization in the world	
founded by Henry Morris in 1972	
28. LITERAL JESUS & LITERAL RESURRECTION:	<b>S</b> 6
"The entire <u>HOPE</u> of the Christian rests on the existence of a	
(1) <i>literal</i> Jesus Christ, described by Scripture as the Second Adam, wh	10
(2) <i>literally</i> offered up His body as a sacrifice for sinners loved by God	l,
and who paid the price for their sins on a	
(3) <i>literal</i> cross—a Jesus Christ who	
(4) <i>literally</i> was the Son of God. It was this God-man who	
(5) <i>literally</i> died and was	
(6) <i>literally</i> resurrected on the	
(7) <i>literal</i> third, 24-hour day after His crucifixion."	
LITERAL GENESIS & LITERAL CREATION IN SIX DAYS	<b>S</b> 7
"This was necessary BECAUSE the	
(8) <i>literal</i> first man, named Adam, who was created on the	
(9) <i>literal</i> sixth 24-hour day of creation with all of creation in a state of	2
(10) <i>literal</i> deathless perfection, and was	

(11) *literally* declared by God to be

- (12) *literally* perfect. Adam lived in a
- (13) *literal* garden called Eden, and broke a
- (14) *literal* commandment which was

S3

S4

S5

S6

- (15) *literally* spoken to him by God Almighty, a commandment which S2 instructed him not to eat of a
- (16) *literal* tree of knowledge of good and evil, thus causing
- (17) *literal* death to fall on all men and animal life. Now all of creation is
- (18) *literally* dying, the subject of entropic forces of decay, and creation is waiting for the final redemption in which the earth will
- (19) *literally* be restored to its original glory—the same
- (20) literal sinless/deathless perfection of the
- (21) literal first creation as described in Genesis 1."

## SUMMARY

"Remove any one of these foundation blocks and the entire structure collapses,

# leaving the believer with <u>NO HOPE</u> ... If Genesis did not happen exactly

as the Creator said it did, then our view of God, of man, of sin, and of

the world collapses." D Phillips "An Urgent Appeal to Pastors" Back to Genesis (119) Acts & Facts (Nov 98) Italics & numbers original

## COMMENTS:

- on the surface, a very reasonable argument held by many conservative Christians → I use to believed it
  BUT conflates 6-day creation & the resurrection of Jesus
- BUT connates 6-day creation & the resurrection of Jesus
- QUESTIONS: • do you see the importance of hermeneutics? especially the hermeneutics of Gen 1-11?
  - do you see the potential PASTORAL disaster? IF you reject a literal Genesis THEN do you need to reject Jesus?

## THE REALLY BIG QUESTION:

Does the reality of sin need a real Adam?

<b>CONCLUSION: Conflict Relationship</b> 1. Fuels the common perception that there are only two choices— <u>either</u> Science <u>or</u> Religion	<b>S</b> 7
29. "Both sides [scientific materialists & biblical literalists] err in assuming that	
evolutionary theory is inherently atheistic, and they thereby perpetuate the	
false dilemma of having to choose between science and religion." Barbour, 10	
<u>COMMENTS</u> : common assumption: evolution "inherently atheistic" = dysteleological "false dilemma" = false dichotomy	S
2. Misappropriation of Academic Authority DEF: an expert in one academic discipline acts like an expert in another	SS
<b>30.</b> "Scientists are no wiser than anyone else when they step out of their	
laboratories and speculate <b>beyond</b> [μετα] strictly scientific work." Barbour, 14	
<u>COMMENTS</u> :	S10
echoes the Metaphysics-Physics Principle	
also happens with religious experts speculating about science	

# ONSHIP

## 2. INDEPENDENCE RELATIONSHIP

Science & Religion are totally independent & autonomous each asks different **questions** each uses different **methods** each is **limited** THEME

☞ it's impossible for Science & Religion to conflict

## EXAMPLES

Langdon Gilkey

S3-4

Langdon Gilk	key		\$3-4
	SCIENCE	RELIGION	
Questions	Physical HOW?	Metaphysical WHY?	
Domain	Public	Personal	
A (1 ·	Objective Repeatable Data	Good, Evil, Meaning	
Authority	Nature	God	
Language	Logic & Experiment	Revelation & Spiritual Experie	nce
Language	Quantitative	Symbolic & Analogical	
<ul> <li>     it[™] </li> </ul>	's impossible for Science & Religi	on to conflict	
Karl Barth			S5
Neo-Orthod	lox Christian		
Religion is l	based on the Bible ONLY		
<u>REJECTS</u> N	Natural Revelation		
	nt Design arguments based on sinf	ul human reason → even idolatro	ous!!!
	has NO VALUE for Religion		
ſ it	's impossible for Science & Relig	ion to conflict	
<b>Rudolf Bultm</b>	ann		S6
	th century Liberal Christianity		50
REJECTS I	Divine Action		
	hologization of Bible		
	ompetent" biblical interpretation r		les
fe	ocus on personal/existential lessor		
	<ul> <li>it's impossible for Science &amp;</li> </ul>	Religion to conflict	
CONCLUSION: I	ndependence Relationship		S7
	n moving beyond the conflict relation	ionship	57
•	he <b>independence</b> of science and re	-	point
	first approximation."		bour, 5
	COMMENTS:		
	similar to: Haught's Cont	rast Relationship	
	e	s course (Metaphysics-Physics Pri	nciple)
2 BUT incomr	olete & unsatisfying		<b>S</b> 8
<b>32.</b> "W	e do not experience life as neatly		ents; we
ex	perience it in wholeness and inte	rconnectedness There are also	biblical
gr	ounds for the conviction that God	is the Lord of our total lives and	of <b>nature</b> ,
ra	ther than of a <b>separate</b> 'religious'	sphere."	Barbour, 16
	COMMENTS:		
	ainsilan tax Harral 4?	(1, 1, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	

similar to: Haught's criticism of his Contrast Relationship many students entering this course

3. DIALOGUE RELATIONSHIP S2 The beginning of a discussion between Science & Religion Deals with indirect interactions & leads to questions at the boundary between Science & Religion History & the Origins of Science **S**3 **QUESTION:** why did modern science arise in the Jewish-Christian-Muslim West? many leading scientists were Christians EG astronomer Johannes Kepler: science was "thinking God's thoughts after him" Royal Society (1st scientific society)  $\rightarrow$  70% Puritans (conservative Christians) ANSWER: S4 impact of Doctrine of Creation  $\rightarrow$  at a TACIT (silent) level • realism—God created a real world • intelligibility & order in nature-natural revelation & intelligent design • de-sacralization of nature-nature is not a god • consistent & trustworthy laws of nature-faithfulness of God COMMENT **S**5 some historians overstate this argument all four categories above can be dissected from Christianity However, Christianity & the Doctrine of Creation are certainly compatible with science Cosmology **S**6 **QUESTIONS:** what happens before the Big Bang? physics can go back to 10⁻⁴³ sec after the Big Bang (called Planck Time) S7 H14 why are the laws & initial conditions of the Big Bang so finely-tuned? S8 H14 EG explosive & gravitational forces balanced to 1 part in  $10^{60}$ Ethics **S**9 **QUESTIONS:** when does life begin? implications for the abortion debate when does life end? implications for the physician-assisted death debate **EXAMPLE Stephen Jay Gould** S10 leading evolutionary biologist at Harvard University contributor to Science-Religion dialogue 33. "No such conflict should exist [between science & religion] because each S11 subject has a legitimate magisterium, or domain of teaching authorityand these magisteria do not overlap (the principle that I would like to designate as NOMA, or 'non-overlapping magisteria'). The net of science covers the empirical universe: what is it made of (fact) and why does it work this way (theory). The net of religion extends over questions of moral meaning

and value. These two magisteria do not overlap, nor do they encompass all

inquiry (consider, for starters, the magisterium of art and the meaning of beauty).

## Models 2 Episode 84

"To cite the arch cliches, we [scientists] get the **age of the rocks**, and religion S2 retains the **Rock of Ages** [God]; we study **how the heavens go**, and they [theologians] determine how to go to heaven [aphorism from Galileo]. This resolution might remain all neat and clean if the nonoverlapping magisteria (NOMA) were separated by a no man's land. But, in fact, the two magisteria **bump right up against each other**, **inter-digitating** in wondrously complex ways along their **joint border**. Many of our **deepest questions** call upon aspects of both for different **parts** of a **full answer**."

L L	
Stephen Jay Gould, "Non-overlapping Magiste Natural History 106 (1997), 19-	
COMMENTS:	<b>S</b> 3
NOT an independence relationship	
because Science & Religion: "bump right up against each other" share a "joint border"	
NOT all sci-rel contributors are RELIGIOUS	
<ul> <li>Gould was an agnostic</li> </ul>	
NOMA allows Gould to state:	S4
34. "Evolution [is] both true and entirely compatible with	
Christian belief—a position I hold <b>sincerely</b> ." Gould, 16	
BUT not everyone is happy with Gould:	S5
<b>35.</b> "The belief that religion and science occupy separate	
	Q 8 N4
Richard Dawkins, "Snake Oil & Holy Wa	ter"
Forbes ASAP (4 Oct 1999), 2	237
CONCLUSION: Dialogue Relationship	<b>S</b> 6
1. Boundary questions between Science & Religion are quite valuable	
especially in cosmology & ethics	
2. Dialogue between Science & Religion only informs the other party	<b>S</b> 7
exchanges of information do not support or change either of them	57
4. INTEGRATION RELATIONSHIP	S8
• an integration between the content of Science & the content of Religion in areas that overlap	
Science supports and even changes Religion	
Types of Integration:	S9
1. Natural Theology: part of traditional Conservative Christianity throughout history	
2. Theology of Nature: a new approach originating from modern 20 th century Liberal Christian	ity
NATURAL THEOLOGY	S10
tends to be a confusing term because it is used in a variety of ways:	
wide definition: General Revelation	
narrow definition: Natural Revelation $\rightarrow$ definition used by Barbour	
General Revelation	S11 H2
Moral Revelation	
Natural Revelation	
Integration Relationship uses science to argue for Intelligent Design/er	

EXAMPLES OF NATURAL THEOLOGY (INTELLIGENT DESIGN ARGUMENTS)	
William Paley famed book Natural Theology: Or Evidences of the Existence and Attributes of Der	S2 ity,
<i>Collected from the Appearances of Nature</i> (1802) science-of-the-day in early 19 th century	
Watch Maker Argument	S3
IF you find a watch in a field,	
THEN it is reasonable to believe in a watchmaker	
IF you find design in nature, THEN it is reasonable to believe in a Designer	
Perfect Adaptation belief that <u>each</u> & <u>every</u> detail in nature is perfectly adapted & fitted Therefore → a STATIC world won't work in a DYNAMIC (evolutionary) world	S4
Darwin was educated in Paley's categories perfect adaptation later conflicted with his evolutionary science Mor	re anon
<b>Anthropic Principle</b> Greek ανθρωπος ( <i>anthrōpos</i> ): man, human DEF: observation that the physical laws of the universe are finely-tuned and that m changes to them would not allow the evolution of human life	S5 inor
Big Bang Physics	S6
• the math reveals:	
"mysterious numerical coincidences" "delicate fine-tuning"	
• raises the questions:	
are the coincidences a reflection of intelligence? is Someone/s or Something/s behind the universe?	
• no one questions the amazing fine-tuning	
In the desitions the analysis intertaining Intertaining Intertaining Intelligent Design	gner
	S7
<u>Types of Anthropic Principles</u> <b>1. Strong Anthropic Principle</b>	5/
fine-tuning is intentional & points to a Fine Tuner	
held by those who <u>BELIEVE</u> in intelligent design & God	
2. Weak Anthropic Principle	<b>S</b> 8
fine-tuning is nothing but an accident	20
held by those who do <u>NOT BELIEVE</u> in intelligent design & God	
Multiple Worlds Hypothesis (2 variations)	S9
1. Sequential: many Big Bangs in a <b>sequence</b> over time	S10
our universe is the successful Big Bang $\rightarrow$ produced humans	
2. Parallel: many universes exist <b>parallel</b> to our universe at the same time our universe is successful → produced humans	S11
COMMENTS:	S12
<ul> <li>proposing a high number of universes reduces statistical improbability.</li> <li>EG assume that the universe is fine-tuned to 1 part in 10¹⁰⁰</li> <li>IF there are 10¹⁰⁰ universes,</li> <li>THEN one is bound to be like ours</li> </ul>	ility

<ul> <li>NO scientific evidence for sequential or parallel universes Therefore, Multiple Worlds Hypothesis is NOT scientific</li> <li>it is an "out-of-this-world" argument just like RELIGION</li> </ul>	S2
<ul> <li>John Haught's Lack of Gratitude Theory</li> <li>36. "In brief, the multiple-worlds hypothesis provides skeptics with</li> </ul>	S3 1 a
convenient way to avoid an interpretation of the universe that wo call forth the religious response of gratitude for its truly gracious existence So in order to avoid the obligation of responding to c existence with the gratitude appropriate to such an improbable gi skeptics must find a way to show that in the final analysis there is nothing 'remarkable' or improbable about our being here at all." Haught, <i>Science &amp; Religion</i> (NY: Paulist Press, 1995),	our ft, s
EXAMPLES OF THE STRONG ANTHROPIC PRINCIPLE <b>SEE SQ 4-9</b> Note Terminology: "coincidences," "fine-tuning," "delicately balanced," "uniquely fit," "precisely organized," "just right," "chain of coincidences" Note Publishers: Oxford & Cambridge University Presses	S4
Paul Davies SQ4 physicist & leading Science & Religion scholar Big Bang → explosive force & force of gravity → 1 part in 10 ⁶⁰	S5
Sir Roger Penrose SQ 5 Oxford University mathematical physicist amount of precise order in the Big Bang $\rightarrow 1$ part in $10^{10^{123}}$ estimated number of atoms in the entire universe $\rightarrow 10^{80}$	S6
Hugh RossS7-8 H1astronomer & leading progressive creationistfine-tuning evidence that is accessible to popular audiences	5-16
Michael Denton SQ 8 geneticist & defender of teleological evolution Nature's Destiny: How the Laws of Biology Reveal Purpose in the Universe (1998)	S9
<ul> <li>Simon Conway Morris SQ9</li> <li>Cambridge University paleontologist</li> <li>believes "the emergence of human intelligence is a near-inevitability"</li> <li> <ul> <li> ● evolution is setup or loaded for humans to evolve </li> <li>evidence: pattern of convergence in the fossil record points to a teleological evolution</li> </ul> </li> </ul>	H17
<u>Convergent Evolution</u> S11 DEF: appearance of the same basic structures on <u>unrelated</u> evolutionary bran EG eye evolved 40 X camera-like eye 6 X (eg humans & octopus)	H17 ches
CHALLENGES Stephen Jay Gould's "Re-Play the Video Tape of Evolution" Analogy Gould: rewind the tape of evolution & played it again DIFFERENT living organisms, or maybe NONE at all	S12
BUT Conway Morris: SIMILAR living organisms would evolve	

Excursus: Intelligent Design Theory	S2
American evangelical anti-evolutionary movement that emerged in the 1990s	
created a FALSE DICHOTOMY between biological evolution & intelligent design	
• why can't evolution reflect design?	
Central Claim: ID is Detectable Scientifically	S3
• BUT fails to understand that ID is a BELIEF	
TRADITIONAL DEFINITION OF INTELLIGENT DESIGN	S4
BELIEF that the beauty, complexity, and functionality in nature reflect rational and the creative work of an Intelligent Designer	ity
BELIEF THAT nature reflects design, not HOW design arose in nature	
• DO NOT Conflate (or confuse):	S5
Intelligent Design Theory & Traditional Belief in Intelligent Design	
Central Concept: Irreducible Complexity	S6
• some biological structures are too complex to have arisen through evolution	20
EG bacterial flagellum	S7
Therefore, divine intervention is needed	
God-of-the-Gaps theory of origins	
should be called $\rightarrow$ <u>INTERVENTIONISTIC</u> Design Theory	
• NB: most of the parts of the bacterial flagellum are already present in the cell membrane	<b>S</b> 8
performing other functions	
reuse of cellular parts to make new structures is a well-known evolutionary	
mechanism termed "Recruitment"	
Lamoureux on the Flagellum & Design	S9
flagellum SELF-ASSEMBLES $\rightarrow$ evolutionary intelligent design	
EXAMPLE	
Michael Behe SQ10	S10
biochemist who coined term "irreducible complexity"	
claims $1^{st}$ cell arose "in one fell swoop" $\rightarrow$ the One-Fell-Swooper is God	
<u>COMMENTS</u> :	S11
science of biochemical evolution is in its infancy	:
many theories are being proposed, but none accepted throughout scientific commun	ity
QUESTION is this lack of agreement in science evidence of: (1) gap in nature? OR	
(2) gap in knowledge?	
THEOLOGY OF NATURE	S12
	512
DEF: science used to <b>reformulate</b> traditional theological doctrines	
37. "Theology of Nature holds that some traditional doctrines need to be reformulated	S13
in the light of current science. Here science and religion are considered to be relatively	/
independent sources of ideas, but with some areas of <b>overlap</b> in their concerns.	
In particular, the doctrines of creation, providence, and human nature are affected by	
the <b>findings of science</b> ." Barbour, 26	
COMMENTS:	S14
the work of 20 th century Liberal Christianity Conservative Christians will be concerned [Lamoureux included]	

EXAMPLES OF REFORMULATION	S2
(1) God's Interventionistic Action	
science reveals only natural processes	
Therefore, God <b>does not</b> <u>intervene</u> in the universe or in the lives of people	
(2) God's Omniscience (all-knowing)	S3
science reveals random & indeterministic natural processes	
Therefore, God <b>does not</b> <u>know</u> the future of the universe	
(3) God's Omnipotence (all-powerful)	S4
science reveals vicious & wasteful character of biological evolution	
Therefore, God <b>does not</b> <u>control</u> the universe	
The Attraction of Theology of Nature	S5
a solution for the problem of suffering & evil in the world	
<b>Theodicy</b> Greek θεος ( <i>theos</i> ): God δικη ( <i>dikē</i> ): justice	
DEF: arguments justifying the existence of suffering & evil in a world create	d by
an all-loving, all-powerful, and all-knowing theistic God	
THEREFORE:	S6
It is beyond God's ability to:	50
(1) <u>intervene</u> in the world & deal with suffering & evil	
(2) <u>know</u> that suffering & evil will arise	
(3) <u>control</u> suffering & evil in the world	
This is a god that is "becoming" just like us	
NOT the eternal & unchanging God of traditional religions	
	<b></b>
<b>Panentheism</b> Greek $\pi\alpha v$ ( <i>pan</i> ): all $\epsilon v$ ( <i>en</i> ): in aka <b>Process Theology</b>	S7
DEF: <u>BELIEF</u> that the world & God are inseparable realities, yet distinct rea	
DEF: <u>BELIEF</u> that the world & God are inseparable realities, yet distinct rea therefore, not pantheism	lities
<ul> <li>DEF: <u>BELIEF</u> that the world &amp; God are inseparable realities, yet distinct rea therefore, not pantheism</li> <li>38. "God is in the world, but the world is also in God, in the sense that</li> </ul>	lities God
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	Models 2 Episode 89
CONCLUSION: Science & Religion Model of Ian Barbour	S2
1. Barbour's Personal <u>Position</u> on Science & Religion	(Quote 21) S3
rejects Conflict	
begins with Independence as a 1 st step	
integrates Dialogue & parts from Integration	G.4
Therefore $\rightarrow$ <u>Select</u> & <u>Combine</u> various categories & relationships	S4
<b>2. Natural Theology (Natural Revelation &amp; Intelligent Design)</b> Barbour is positive. Why?	S5
he once was a professional physicist & was impacted by the fine-tuning in	the laws of nature
IV. TOWARD A WORKING MODEL OF SCIENCE & RELIGION	Lamoureux S6 H18
My Position: reject Warfare, start with Compartment, and integrate Boundary &	Complementary S7
1. Warfare Relationship	S8 H18
• Scientism	
• Fundamentalism	
2. Compartment Relationship Science & Religion in separate airtight <u>containers</u>	S9 H18
NO contact whatsoever between them	
EG: Science restricted only to physical reality	
Religion restricted only to spiritual reality	
3. Boundary Relationship	S10 H18
Science & Religion share a <u>border</u> & contact each other	510 1110
One picks up where other stops	S11 H14
EG: Science takes us to the edge of physical reality & $10^{-43}$ of a second	after the Big Bang
Religion reveals that God is on the other side of this boundary & o	created the Big Bang
<b>4. Complementary Relationship</b> Science & Religion overlap on certain topics & have a two-way exchange	S12 H18 of information
They enhance, enrich, and complete each another	
Reflects the reciprocal relationship of the Metaphysics-Physics Principle	S13-14 H5
RELIGION UNDERGIRDS SCIENCE UNDERGIRD: to support, reinfor	ce from beneath S15
Metaphysical (Religious) Beliefs in Science $\rightarrow$ W I D E definition	
EG: belief in realism & belief in the intelligibility of nature (Int	e
Fiduciary Character of Science	S16
EG: scientists have faith in the laws of nature & faith in their sc	cientific paradigms
Ultimate Metaphysical (Religious) Foundation of Science	S17
EG: belief God ordained & sustains nature & belief science is a	ı gift from God
SCIENCE BOLSTERS RELIGION BOLSTER: to boost, fortify, empow	
Science Improves Hermeneutics	S19 H5-6
EG: identifies ancient science in the Bible → Message-Incident	-
Science Magnifies the Doctrine of Creation	S20
EG: Hubble telescope gives us a great appreciation of God's ma	arvellous creation S21 S22
Science Strengthens Belief in Intelligent Design EG: anthropic fine-tuning evidence & biological complexity (fl	
<ul> <li>the creation SELF-ASSEMBLES through evolution</li> </ul>	

<b>INTELLIGENT DESIGN &amp; NATURAL REVELATION</b> s	52
I. KEY THOUGHTS	33
	54
DEF: <u>BELIEF</u> that the beauty, complexity, and functionality in nature reflect rationality and the creative work of an Intelligent Designer	
BELIEF THAT nature reflects design, <u>not</u> HOW design arose in nature	
2. ID is the Classic Complementary Relationship between Science & Religion	55
reflects the Metaphysics-Physics Principle S6 H1	
features reciprocal Steps of Faith between Intelligent Design & nature	
Requirement of Faith:	57
1. "By faith we understand that the universe was formed at God's command." Heb 11:3	
	88
ID is <u>not</u> a <b>proof</b> , but at best an <b>argument</b> • EVERYONE—believers & skeptics of ID—takes a step of faith/intellectual leap	,
	59
at best ID only points to a teleological reality: Someone, Someones, Something, or Somethings	
2	
II. INTELLIGENT DESIGN ARGUMENTS S1	0
Two basic arguments:	
ARGUMENT FROM DESIGN TO NATURE (Downward Arrows) S11 H1	8
Presuppositional Approach → often overlooked & not acknowledged	
BEGINS with the belief in God & design,	
THEN uses this belief as a Metaphysical Filter to view nature	
EG Cardinal John Henry Newman S1	2
famous 19th century Roman Catholic theologian	
2. "I believe in design because I believe in God; not in God because I see design.	"
C Dessain & T Gornall, eds. <i>Letters &amp; Diaries</i> 25 (Oxford: Claredon, 2006), 25:97	
ARGUMENT FROM NATURE TO DESIGN (Upward Arrows) S13 H1	8
Evidential Approach $\rightarrow$ ID often limited to this argument	
aka: argument from design for God's existence	
<u>BEGINS</u> with the natural world, THEN looks for physical evidence to argue for belief in design & God	
EG Antony Flew S14-1	5
famous atheist who became a deist because of ID in biology	
3. "Biologists' investigation of DNA has shown, by the almost unbelievable	
complexity of the arrangements to produce life, that intelligence must	
have been involved The only satisfying explanation for the origin of	
such 'end-directed, self-replicating' life as we see it on earth is an	
infinitely intelligent Mind."	
A Flew, There Is a God: How the World's Most Notorious Atheist Changed His Mind (NY: HarperOne, 2007), 123, 13	2

Design Episode	91
<b>III. RICHARD DAWKINS &amp; INTELLIGENT DESIGN</b> <i>The Blind Watchmaker</i> (1986) famed book that rejects ID title mocks William Paley & his watchmaker argument	S2 S3
Blind Watchmaker = blind evolutionary processes	
4. "The <b>problem</b> is that of complex design every single one of more than a trillion	S4
cells in the body contains about a thousand times as much precisely-coded digital	
information as my entire computer. The complexity of living organisms is matched	ł
by the elegant efficiency of the apparent design. If anyone doesn't agree that this	
amount of complex design CRIES OUT for an explanation, I give up	
Our world is dominated by [1] feats of <b>engineering</b> and [2] works of <b>art</b> .	S5
We are entirely accustomed to the idea that <b>complex elegance</b> is an indicator	
of premeditated, crafted design. This is probably the most powerful reason	
for the <b>belief</b> , held by the <b>vast majority of people</b> that have ever lived, in some	
kind of supernatural deity It is as if the human brain were specifically designed	d
to misunderstand Darwinism, and find it hard to believe." R Dawkins, <i>The Blind Watchmaker</i> (London: Penguin, 1986), xiii, xvi, xv; my capi	itals
COMMENTS:	S6
<ul> <li>despite being only "apparent" design (not real &amp; nothing but an illusion nature powerfully IMPACTS Dawkins "cries out for an explanation"</li> </ul>	):
<ul> <li>impact of nature is the "most powerful reason for the <u>BELIEF</u>" in God an argument from nature to design "held by the vast majority of people" an admission that nearly everyone has a religious impulse confirmation → 90% believe in teleology</li> </ul>	l S7
<ul> <li><u>Characteristics of ID</u>:         <ul> <li>(1) engineered → "complexity" &amp; "efficiency" (functionality)</li> <li>(2) artistic → "elegance"</li> <li>combines both characteristics in the terms:</li> <li>"elegant efficiency" "complex elegance"</li> </ul> </li> </ul>	<b>S</b> 8
• common definition of "Darwinism"	S9
Darwinism = Atheism = Dysteleological Evolution BUT is this Darwin's view? <b>NO!</b> more anon	0,
DAWKINS ANTI-THESIS	S10
"It is as if the human brain were <b>specifically designed</b> [by God] <b>to UNDERSTAND</b> Darwinism [atheistic evolution], and find it hard to believe."	
<ul> <li>✓ our brain has been designed by God to say:</li> <li>"You can't possibly believe in atheistic evolution" confirmation → 90% of teleologists today</li> </ul>	
<ul> <li>Excursus: The 3rd Hypothesis—ID, Evolutionary Psychology &amp; Evolutionary Creation God created through evolution (teleological) a set of neurons that are sensitive to reflections of ID in nature.</li> <li>God hardwired the brain with <i>ID sensitive neurons</i> for <i>seeing</i> ID in nature</li> </ul>	S11

- We have the freedom to close our ID sensitive eyes & not see in ID in nature
  - GOD'S EVOLUTIONARY HARDWIRING is behind Intelligent Design S12 H2

Design Ep	isode 92
IV. Scripture & Intelligent Design	S2
NB: term "Intelligent Design" does not appear in the Bible	
BUT the concept of ID is definitely there	
The Classic Passages:	<b>S</b> 3
(1) Psalm 19 (Old Testament)	
(2) Romans 1 (New Testament)	
(3) Wisdom of Solomon 13 (Deutero-Canon or Apocrypha)	
Characteristics of the Revelation in Nature according to Scripture:	S4
• Active	
the creation powerfully impacts humans	
• Intelligible	
humans are fully equipped to understand the revelation in nature	
• Incessant	
natural revelation never stops	
• Universal	S5
natural revelation is heard by everyone (both religious & non-religious people)	
• Non-Verbal	
natural revelation is like music $\rightarrow$ it does not use words, but it definitely commun	icates
• Revelatory	
natural revelation reveals general attributes of the Creator	
• Rejectable (Rom 1 & Wis 13)	<b>S</b> 6
humans have the freedom to reject natural revelation	
• Accountable (Rom 1 & Wis 13)	
humans "are without excuse" if they reject natural revelation	
1. PSALM 19:1-6	S7
features two parallel panels reflecting the Two Divine Books & concludes with a meditation	

<b>Book of God's Works</b>		<b>Book of God's Words</b>
¹ The heavens declare the glory of God;	<b>S</b> 8	⁷ The law of the Lord is perfect, reviving the soul.
the firmament proclaims the work		The statutes of the Lord are trustworthy,
of his hands.		making wise the simple.
² Day after day they pour forth speech;		⁸ The precepts of the Lord are right,
night after night they display knowledge.		giving joy to the heart.
³ They have no speech, they use no words;	S9	The commands of the Lord are radiant,
no sound is heard from them.		giving light to the eyes.
⁴ Yet their voice goes out into all the earth,		⁹ The fear of the Lord is pure, enduring forever.
their words to the ends of the world.		The ordinances of the Lord are sure
In the heavens he has pitched a tent for the sun,	S10	and altogether righteous.
⁵ which is like a bridegroom coming forth		¹⁰ They are more precious than gold,
from his pavilion, like a champion		than much pure gold;
rejoicing to run his course.		They are sweeter than honey,
⁶ It rises at one end of the heavens		than honey from the comb.
and makes its circuit to the other;		¹¹ By them is your servant warned;
nothing is hidden from its heat.		in keeping them there is great reward.

## **Design Episode 93**

COMMENTS:	
<ul> <li>note all the verbs in the Active Voice (subject does an action) Heavens: "declare" "proclaim" "pour forth" "display" Dawkins: "complex design CRIES OUT for an explanation"</li> </ul>	S2
	S3
<ul> <li>note all the terms related to intelligent communication</li> <li>"speech" "knowledge" "language" "words" "voice"</li> </ul>	55
Hebrew <i>qaw</i> (translated as "voice" in v. 4) means "line"	
can be rendered "a chord of music"	
<ul><li>nature is like a heavenly hymn</li></ul>	
Non-Verbal Revelation	S4
³ They have no speech, they use no words;	
no sound is heard from them. ⁴ Yet their voice goes out into all the earth,	
their words to the ends of the world.	
• Ancient Astronomy S	5 H86
"firmament" "ends of the heavens" movement of sun & tent metaphor	
Message-Incident Principle	S6 H5
Message: the heavens are a Natural Revelation	
they reveal: God's glory that they were created by God	
Incident: ancient astronomy -> 3-tier universe	
it is the vessel that transports the spiritual truths	
2. ROMANS 1:19-23	S7
Book of God's Works	<b>S</b> 8
¹⁹ Since what may be known about God is plain to them, because God has made it plain	
to them. ²⁰ For since the creation of the world God's invisible qualities—his eternal power	
and divine nature—have been clearly seen, being understood from what has been made,	
so that men and women are without excuse.	
Epistemological Impact of Sin	S9
²¹ For although they knew God, they neither glorified him as God nor gave thanks to him,	
but their thinking became futile and their foolish hearts were darkened. ²² Although they	
claimed to be wise, they became fools ²³ and exchanged the glory of the immortal God	
for images made to look like mortal man and birds and animals and reptiles.	
COMMENTS:	
<ul> <li>Nature reveals some of God's general attributes</li> <li>"his eternal power and divine nature"</li> </ul>	S10
<ul> <li>Natural Revelation &amp; ID are connected to Commandments #1 &amp; #2</li> </ul>	S11
5	12 H4
replace God with: idols of "mortal man and birds and animals and reptiles"	
• Sin Impacts Thinking	S13
"their thinking became futile" → "they became fools" in the Bible the words 'fool' & 'foolish' do not mean intellectually stupid	
a fool is someone who is missing out on the best part of life $\rightarrow$ GOD	
• Natural Revelation makes all humans accountable	S14
The Without Excuse Clause:	~1 r

"so that men and women are without excuse"

Design Episode	e 94
3. WISDOM OF SOLOMON 13:1-9	S2
¹ For all people who were ignorant of God were <b>foolish</b> by nature; and they were unable from the good things that are seen to know the one who exists, nor did they recognize the Artisan while paying heed to his works;	S3
² but they supposed that either fire or wind or swift air, or the circle of stars, or turbulent water, or the luminaries of heaven were the gods that rule the world.	S4
³ If through delight in the <u>beauty</u> of these things people assumed them to be gods, let them know how much better than these is their Lord, for the Author of <u>Beauty</u> created them.	
⁴ And if people were amazed at their power and working, let them perceive from them how much more powerful is the One who formed them.	S5
⁵ For from the greatness and <u>beauty</u> of created things come a corresponding perception of their Creator.	
⁶ Yet these people are little to be blamed, for perhaps they go astray while seeking God and desiring to find him.	S6
⁷ For while they live among his works, they keep searching, and they trust in what they see, because the things that are seen are <u>beautiful</u> .	
⁸ Yet again, not even they are to be excused.	S7
⁹ For if they had the power to know so much that they could investigate the world, how did they fail to find sooner the Lord of these things?	
<u>COMMENTS</u> : • Nature reveals some of God's general attributes "greatness and beauty" → "corresponding perception of their Creator" • 4 references to beauty	S8
<ul> <li>Natural Revelation &amp; ID are connected to Commandments #1 &amp; #2 reject:         <ul> <li>"Creator" "Artisan" "Author of Beauty""Lord of these things" replace God with:                 idols of "fire or wind or swift air, or the circle of stars, or turbulent water,                 or the luminaries of heaven" → thought to be gods</li> </ul> </li> </ul>	S9
Natural Revelation makes humans accountable	S10
The Without Excuse Clause: "not even they are to be excused"	
<ul> <li>Verse 9 updated with Antony Flew in mind (Quote 3):</li> <li>⁹ For if <i>we today</i> have the power to know so much about <i>molecular biology</i> that we <i>can open</i> and investigate the <i>cell and DNA</i>, how <i>do we</i> fail to find</li> </ul>	S11

sooner the Lord of these things?

Design I	Episode 95
V. CHRISTIAN TRADITION & INTELLIGENT DESIGN	S2
Pope John Paul II	S3
5. "Developing a philosophical argument in popular language, the apostle [Paul] dec	lares
a profound truth: Through all that is created, the 'eyes of the mind' can come to	know
God. Through the medium of creatures, God stirs in <b>reason</b> , an <b>intuition</b> of his 'p	ower'
and his 'divinity' (Rom 1:20) By discoursing on the data provided by the sense	з,
reason can reach the cause which lies at the origin of all perceptible reality. In	
philosophical terms, we could say that this important Pauline text affirms the hum	an
capacity for <b>metaphysical</b> inquiry." Pope John Paul II, "Faith & Reason" Orthogona Documentary Service 28 (15 Oct 1	-
<u>COMMENTS</u> :	
• reflects the Metaphysics-Physics Principle	S4 H5
creatures (physics) → intuition & reason → God's attributes (met	aphysics)
Argument from Nature to Design	S5 H18
this is the most common design argument	
• God hardwired the brain with <i>ID sensitive neurons</i> for <i>seeing</i> ID in nat "the 'eyes of the mind'"	ure S6
6. "This is to recognize as a first stage of divine revelation the marvellous 'book of a	nature,' S7
which, when read with the proper tools of human reason [ie, science], can lead to	
knowledge of the Creator. If human beings with their intelligence fail to recognize	e God as
Creator of all, it is <b>not because they lack the means to do so</b> , but because their <b>f</b>	ree will
and their <b>sinfulness</b> place an impediment in the way."	Ibid., 324
COMMENTS:	
accepts The Two Divine Books	S8 H2
two stages of divine revelation:	
1 st Stage $\rightarrow$ Book of Nature $\rightarrow$ Works point toward God	~ .
$2^{nd}$ Stage $\rightarrow$ Book of Scripture $\rightarrow$ Words reveal who exactly i	s God
• humans have "free will" & can reject ID & Natural Revelation	S9
• epistemological Impact of Sin with regard to ID & Natural Revelation sinfulness "an impediment"	
VI. CONCLUSION: NATURAL REVELATION & INTELLIGENT DESIGN	S10
1. ID & Natural Revelation are Powerful	S10
experienced even by skeptics (Dawkins) & former skeptics (Flew)	
affirmed by Biblical Texts & Christian Tradition	
2. ID & Natural Revelation Require Reciprocal Steps of Faith (or Epistemological Jumps)	S12
<u>ALL</u> skeptics of ID & <u>ALL</u> believers of ID make a leap of faith	
<ul> <li>✓ whether they are aware of it or not → so be aware!</li> <li>ID is a metophysical PELIEE</li> </ul>	
ID is a metaphysical <u>BELIEF</u>	

ID is <u>not</u> a **proof**, but at best an **argument** 

# 3. ID & Natural Revelation are Limited S2 only points to Someone, Someones, Something or Somethings only reveals general attributes of the Intelligent Designer/s ID is Non-Verbal calls for a Verbal Special Revelation (eg Bible) → fuller revelation of the Intelligent Designer/s 4. Christian Views of ID & Natural Revelation Informed by the Bible & Include Spiritual Factors

• sufficiency of nature to reveal God	S3-4
<ul> <li>proficiency of humans to understand natural revelation</li> </ul>	
<ul><li>everyone is impacted by nature</li></ul>	
BUT not everyone wants to accept this revelation	
• requirement of faith	S5
By faith, we believe nature reflects ID	
• epistemological impact of sin	
ID connected to Commandments #1 & #2	
<ul> <li>humans have the freedom to accept or reject ID</li> </ul>	S6
<ul> <li>humans accountable regarding the message of ID</li> </ul>	
The Without Excuse Clause	

VII. TOWARD A WORKING MODEL OF INTELLIGENT DESIGN Lamoure	eux S7
NB: a model includes as many positions on ID as possible, including those that reject	ID
Parameters of Intelligent Design	S8
<b>Ontological Parameter</b> Greek OVTOS ( <i>ontos</i> ): participle of the verb "to be"	S9
Asks the question: What <b>IS</b> Intelligent Design?	
• Character:	
ARTISTIC & ENGINEERED	
• Gradient:	
(1) Artistic $\rightarrow$ OPTIMAL to NONE	
(2) Engineered $\rightarrow$ OPTIMAL to NONE	
• Integrity:	
REAL or an ILLUSION	
EXAMPLES	S10-11 H19
Epistemological Parameter	S12
Asks the question: How <b>CERTAIN</b> is knowledge of intelligent design?	
• Range:	
Proof—Argument—Suggestive—Consistent—Inert	
• Epistemological Impact of Sin (1 st Commandment):	S13
YES or NO	
• Integrity:	
TRUSTWORTHY or UNTRUSTWORTHY	
EXAMPLES	S14-15 H19

	Design Episode 97
POSITIONS ON INTELLIGENT DESIGN	S2
intersection of the two parameters results in a countless number of positions	
EXAMPLES	
Richard Dawkins	S3-4 H20
ID is an illusion	
Intelligent Design Theorists	S5-6 H20
ID can be proven scientifically	
Lamoureux	S7- 8 H20
ID is real & we are accountable	
$ID \rightarrow Beyond a Reasonable Doubt$	
Wenter Iverset Correction Correction and Correction and Correction	
WHY IS INTELLIGENT DESIGN SUCH A CONTROVERSIAL TOPIC?	S9
My Answer: the implications of ID are <b>DEEPLY PERSONAL</b>	
<b>IF</b> intelligent design is real:	S10
THEN it points to an Intelligent Designer/s	
raises the question of our relationship to this Designer/s	
<ul> <li>is the Intelligent Designer/s ultimately in charge over of</li> </ul>	our life?
are we accountable to Someone/s or Something/s great	ter than ourselves?
THEN nature is an incessant reminder forcing us to deal with Command	lment #1 S11 H4
raises the question, "Who or What is #1 in our life?"	
What about you?	S12

# **MIDTERM EXAM**

# is on material up to here

# FINAL EXAM

# is on material from next section (Galileo) to the end

<b>ASTRONOMY &amp; THE GALILEO AFFAIR</b>	S2
I. KEY THOUGHTS	S3
<b>1.</b> The scientific issue in the Galileo Affair was NOT about a flat earth! anti-religious individuals in 19 th century concocted that myth debate was between:	S4
Old Science (Geocentricity)vs.New Science (Heliocentricity) $\rightarrow$ Copernicus & GalileoEarth at center of universe $\gamma\eta$ ( $g\bar{e}$ ) earthSun at center of universe $\dot{\eta}\lambda \log$ (helios) sun	
<ul> <li>2. Galileo had a PEACEFUL relationship between Science &amp; Religion         IMPLICITLY he accepted the Metaphysics-Physics Principle &amp; Message-Incident Principle             his hermeneutics were remarkable &amp; ahead of church theologians!             Features:                 • Principle of Accommodation         </li> </ul>	S5
Incidental Ancient Science in Scripture	
<ul> <li>Baconian Hermeneutic → science assists biblical interpretation</li> </ul>	
<ul> <li>3. The Re-cycle Thesis         QUESTION: Is the origins debate today a re-cycling of the Galileo Affair with a different science?         evolutionary biology instead of astronomy     </li> </ul>	S6
4. Pattern & Process in Science	S7
Galileo's day (early 1600s):	
<ul> <li>Pattern (observation) is known → movement of the planets</li> <li>Process (mechanism) is not known → believed planets were in moving heavenly spheres</li> <li>✓ Isaac Newton's Theory of Gravity only appears in late 1600s</li> </ul>	
II. BRIEF HISTORY OF ASTRONOMY	<b>S</b> 8
Ancient Greek Astronomy	S9
Basic features:	
THE EARTH	
<ul> <li>centre of the <u>entire</u> universe (Geocentricity)</li> <li>spherical</li> </ul>	
<ul><li>curved shadow of earth on face of the moon during an eclipse sightings of stars not previously seen as they travelled south</li><li>immovable</li></ul>	
they did not feel the movement of earth's rotation	
they argued objects would be thrown off & birds left behind	
THE HEAVENS	S10
• spherical	
single or multiple spheres	
last sphere called "the <b>Firmament</b> "	
<ul> <li>motion of the spheres caused movement of the stars</li> <li>Two Types of Store</li> </ul>	011
• Two Types of Stars (1) Fixed Stars	S11
attached to the Firmament & they move together in unison as Firmament move (2) Wandering Stars (Planets)	s
travelled on their own path	
Retrograde Motion S12 H DEF: a brief east-to-west loop by a planet from its normal west-to-east movement across the sky	
believed to be real $\rightarrow$ not a visual effect	

EXAMPLES	
<b>Plato</b> (427-347 BC/E)	S2 H22
single heavenly sphere rotates daily	
<b>Aristotle</b> (384-322 BC/E)	S3 H22
multiple heavenly spheres & the last sphere (Firmament) rotates daily	
universe features two parts:	
(1) Terrestrial	
sublunar $\rightarrow$ below the sphere of the moon	
bodies changeable & destructible	
(2) Celestial	
unchangeable & indestructible	
Galileo will challenge this idea	
Guineo win enanenge uns idea	
Claudius Ptolemy (100-170 AD/CE)	S4
Great System of Astronomy (150 AD/CE)	51
basically Aristotelean → geocentric with many spheres	
dominant astronomy for the next 1400 years	
Achievement:	
accurate predictions	
offered an explanation for retrograde motion of "wandering stars"	S5 H23
Galileo will challenge Ptolemaic astronomy	55 1125
• Gameo will channenge riolemate astronomy	
Nicholas Copernicus (1473-1543)	<b>S</b> 6
formulated heliocentric astronomy	50
• sun is at the of the <u>entire</u> universe	S7 H24
• planets & moon are in their own sphere	<i>S</i> , 11 <b>2</b>
<ul> <li>motion of spheres caused the motion of the planets &amp; moon</li> </ul>	
• fixed stars are attached to the firmament (last sphere of the universe)	
• firmament is immovable	
faithful Christian	<b>S</b> 8
	58
church cannon (a religious assistant/administrator) for 40 yrs	
had a peaceful relationship between Science & Religion	
Brief Treatise (1514)	S9
written anonymously & given to trusted friends	59
made 7 assertions	
1. ASSERTION #3	S10
"All the spheres revolve about the sun as their mid-point, and therefore the	
sun is the center of the universe." E Rosen, <i>Three Copernican Tr</i> (NY: Dover 19:	
COMMENT:	, 50
heliocentricity is NOT our understanding!	
2. <u>Assertion #7</u>	S11
"The <b>apparent</b> retrograde and direct motion of the planets arises <b>not</b> from	their
motion but from the earth's. The motion of the earth alone, therefore, suf	fices
to explain so many apparent <b>inequalities</b> in the heavens."	Ibid, 59
	1010, 37
<u>COMMENT:</u>	
retrograde motion is only an <b>appearance</b> $\rightarrow$ a visual effect	S12 H13

## On the Revolutions of the Heavenly Spheres (1543)

Copernicus's most famous book

heliocentricity was rarely taught openly by end of 16th century

if so, as a "hypothesis" and not as description of physical reality

an academic book written in Latin

therefore, no negative reaction from common people

Galileo wrote in Italian  $\rightarrow$  common people drawn into the controversy

3. "The machinery of the world ... has been built for us by the Best and Most Orderly S3

Workman of all ... And although I realize that the conceptions of a philosopher

[ie, natural philosopher or scientist] are placed beyond the judgment of the crowd ...

it is his loving duty to seek the truth in all things, in so far as God has granted that

## to human reason."

N. Copernicus, On the Revolutions of the Heavenly Spheres, Great Books of the Western World, RM Hutchins, ed (Chicago: Encyclopaedia Britannica, 1543 [1948]), 6, 508

## COMMENTS:

• world was designed by God

- reason & science were rooted in God
- Scientific Knowledge Gap between the academics & common people "conceptions of a philosopher" & "the crowd"

## **Copernicus Anticipated Theological Criticism**

4. "But if perchance there are certain 'idle talkers' who take it upon themselves to pronounce judgment, although wholly ignorant of mathematics, and if by shamelessly distorting the sense of some passage of Holy Writ to suit their purpose, they dare to reprehend and to attack my work; they worry me so little that I shall ever scorn their judgments as foolhardy... Mathematics is written for mathematicians; and among them, if I am not mistaken, my labours will be seen to contribute something to the ecclesiastical commonwealth [the church], the principate of which Your Holiness [Pope Paul III] now holds."

## COMMENTS:

- Scientific Knowledge Gap between the academics & common people "mathematicians" & those "wholly ignorant of mathematics"
- Hermeneutical debates over New Science
  - eisegesis  $\rightarrow$  "distorting the sense of some passage of Holy Writ"
- Science a contribution to the church dedicated *Revolutions* to Pope Paul III

## **Example of a Critic: Martin Luther**

5. "The new astronomer [Copernicus] wants to prove that the Earth goes around [the sun] and not the heavens, the Sun, and the Moon [around the earth] ... The fool will S9 turn the whole science of Astronomy upside down. But, as Holy Writ declares, it was the Sun and not the Earth which Joshua commanded to stand still [Josh 10:12-13]."

M Luther, *Table Talk* (4 Jun 1539), in A. Armitage World of Copernicus (NY: Signet, 1951), 90

6. "Joshua said to the Lord in the presence of Israel: 'O sun, stand still ... The sun stopped in the middle of the sky and delayed going down about a full day."

Josh 10:12-13 SQ 1 for full passage

S7-8 H13

**S**6

S4

S5

G	Galileo 1 Episode 101
<u>COMMENTS:</u>	S2
• Luther accepts SCIENTIFIC CONCORDISM	
"But, as Holy Writ declares, it was the Sun"	
Luther's geocentricism:	ing of the Dible
based on a literalist & concordist read	e
<ul> <li>classic example that Scientific Concordism FAILS the Bible should <u>not</u> be used as a book of scier</li> </ul>	
CONCLUSION: Brief History of Astronomy	S4
1. <u>ALL</u> astronomers accepted the earth is spherical in 1600s	
Galileo Affair is not about a <u>flat earth</u> !	
2. Scientific Knowledge Gap growing between the academics & common peo	-
3. Hermeneutical debates beginning to emerge because of heliocentricism	S6
III. BRIEF HISTORY OF GALILEO GALILEI (1564-1642)	S7
Preamble	S8
volatile time & volatile personality $\rightarrow$ a formula for disaster	~~
SOCIAL FACTORS	S9
• Roman Catholicism on the defensive	
fresh off the Protestant Reformation • Works of Aristotle rediscovered in 12 th to 13 th centuries	C10
	S10
became the <b>Science-of-the-Day</b>	
integrated (conflated) into Roman Catholic theology • Invention of Printing	S11
wide distribution after 1500 & public accessibility	511
1559 Roman Catholic Church establishes the <b>Roman Index</b> (prohi	hited books)
-	
Personal Factors	S12
• Galileo: arrogant, sarcastic, quick to anger → many enemies	
• wrote his books in Italian	S13
common people became a factor	<b>C14</b>
• used DIALOGUE style → to protect the author	S14
Galileo put the words of opponent professors in mouths of peasants	8!
1564	S15
born 15 Feb in Pisa, Italy	
raised a Roman Catholic	
his father Vincenzio was a music theorist & experimentalist	
in many contentious debates	
1581	S16
studied medicine at U of Pisa, but did not complete program	
nicknamed "Wrangler" for his argumentative style	
1585	
moved to Florence	
studied <b>physics &amp; math</b> with tutor	
important scientific advances in 16 th century Italy were made outside th	ne universities

		Galileo	1 Episode 102
1589	1	L - C D'	S2
	became a professor of mathematics at U		
	mathematicians deemed inferior & susp Therefore, part of the Galileo Affa		S3
	NATURAL PHILOSOPHERS	MATHEMATICIANS	
	Aristotelians	Galileo	
	qualitative	quantitative	
	based on Aristotle's works	based on experiments	
	DEDUCTIVE	INDUCTIVE	
	Aristotle's Categories • coined the term 'catego	pry'	S4
		nmon sense perceptions of daily life	
	• 'quantity' was only 1 o		
	<b>quantity</b> , quality, action, being acted	substance, relation, place, time, posture, ha	aving,
1590	On Motion		S5
	THESIS: motion & math are the key t		
	attacks Aristotle's common s	ense views	
	EG	s proportional to weight (ie, heavier objects	a fall factor)
		WRONG $\rightarrow$ theme throughout Galileo's ca	
	Famous Experiment	A Rono - anone anoughout Guineo s et	
		oalls off Tower of Pisa is probably not true	;
1592			<b>S</b> 6
10/2	became a math professor at U of Padua		20
	L		
1597		• • •	
	admits he had long ago accepted Cope	rnican Astronomy	
1604			
	Supernova (exploding star)		
	Aristotle → celestial realm doesn't	change	
	a comet is friction bet	ween air & lunar sphere	
	Galileo → new star		
	ARISTOTLE WRONG		
	gives 3 PUBLIC lectu	ires	
1608			S7
	telescope was invented by Hans Lipper	shey	
1609			
	Galileo made his own telescope & poin	ted it to the heavens:	S8
	• moon was not a perfect sphere as	-	
	Aristotle: heavens were perfec	t spheres	
	<ul> <li>moving spots on sun</li> </ul>		
	Aristotle: heavens do not chan	ge	
	• four moons of Jupiter		
	Aristotle: all heavenly bodies		
	phases of Venus indicated that V     Aristotle: earth was the centre	Venus & the earth revolve around sun	S9 H24
		or the universe	
	ARISTOTLE WRONG		S10

102

1610	Starry Messenger	S2
	THESIS: telescope findings reveal the Aristotelian universe is incorrect	
	BUT	
	ambiguous about heliocentricism 2 nd edition made Galileo famous throughout Europe frenzy of telescope watching	
	ARISTOTELIAN REACTIONS: refused to use the telescope claimed to see nothing argued flaws in lenses claimed optical illusions accused Galileo of fraud	S3
	SIMILAR TO ANTI-EVOLUTIONARY ARGUMENTS TODAY? refuse to study fossils claim to see no transitional fossils argue flaws in the fossil record claim transitional fossils are illusions → diseased creatures accuse paleontologists of fraud (and even demonic deception!)	S4
	Clergy drawn into the debate pastoral concern emerging: was Galileo undermining the faith of Christians with his astronomy?	S5
1610	left U of Padua & returned to Florence became "Philosopher & Mathematician" of the <b>Grand Duke of Tuscany</b> an opportunity to challenge the ideas in the universities	S6
1611	visited <b>Rome</b> → very positive very good dialogue with astronomers at Roman College (Jesuits) elected to Lincean Academy (scientific society) had audience with the Pope who was impressed	S7
1612	<ul> <li>Discourse on Floating Bodies</li> <li>THESIS: AUTHORITY in science is based on experiments (Induction)</li> <li>NOT based on the works of Aristotle (Deduction)</li> <li>ARISTOTLE WRONG</li> </ul>	S8
1613	Letters on Sunspots fully embraces Copernican heliocentric astronomy Lincean Academy in Rome publishes it	S9
1613		S10
	<ul> <li><u>THE BREAKFAST</u></li> <li>Grand Duchess Christina asks about theological implications of Galileo's astronomy: was Galileo undermining Christian Faith?</li> <li>Benedetto Castelli informed Galileo         <ul> <li>1st response is the "Letter to Castelli" (1613)</li> <li>later expanded to the "Letter to Grand Duchess" (1615)</li> </ul> </li> </ul>	

S2

S3

S4

Roman Catholic church informed that Galileo was interpreting the Bible

☞ THE PROTESTANT PROBLEM

## 1616

church placed Copernicus' <i>On the Revolutions</i> (1543) on the Roman Index	
"suspended for correction"	

## THE COMMITTEE:

made up of only theologians & pastors, and they consulted for only a few days examined the propositions:

- 1. The sun is at the centre of the world & does not move
- 2. The earth is not at the centre of the world & is in motion

## THE JUDGMENT

11 to 0 vote

7. "All said that this proposition [1] is foolish and absurd in philosophy [natural

philosophy = science], and formally **heretical** since it **explicitly contradicts** in many places the sense of **Holy Scripture**, according to the **literal meaning** of the words and according to the **common interpretation & understanding** of the Holy Fathers and the doctors of theology ...

All said that this proposition [2] receives the same judgment in philosophy S5 and that in regard to theological truth it is at least **erroneous in faith**."

M.A. Finocchiaro, ed/trans, *The Galileo Affair: A Documentary History* (Berkeley, CA: U of California Press, 1989), 146

COMMENT:	S6
<ul> <li>church was entrenched in SCIENTIFIC CONCORDISM</li> </ul>	
hermeneutics was a significant factor in the Galileo Affair	
Galileo summoned to Rome	<b>S</b> 7
Cardinal Robert Bellarmine:	
warned Galileo against the REALISM of heliocentricism	
asked him to call it a HYPOTHESIS	
Bellarmine was correct $\rightarrow$ no experimental evidence the earth moved	
only appears in 1838 with stellar parallax	
	<b>S</b> 8

## 1618

	3 comets appear	
	Jesuits of Roman College publish a book on comets	
	they used an Aristotelean interpretation	
	comets not celestial, but sparks between air & lunar sphere	
1623	The Assayer	S9
	Galileo's work on comets	
	attacks Jesuits & alienates them $\rightarrow$ in the end they'll get Galileo!	
1624		S10

## Galileo visited Rome & met with Pope Urban VIII this Pope was a friend of Galileo's encouraged to write up his views as **HYPOTHESIS**

worked on book between 1624 and 1630 argued that tides are evidence of the earth's motion

	Galileo 1 Episode 10	
1631	Galileo receives the <i>Imprimatur</i> for his book $\rightarrow$ church's seal of approval	S2
	Gameo receives the <i>Imprimatur</i> for his book – church's sear of approval	
1632		S3
	<u>February</u> Galileo's most famous book	
	PROOF the earth moves $\rightarrow$ tides	
	used the dialogue style	
	Jesuits convinced Pope Urban VIII that he is the character named "Simplicio" Pope feels betrayed & never talks to Galileo again	
		S4
	the church stopped distribution of the book committee was formed to examine it	
	October	
	Galileo called to Rome	
1633		S5
	June 16	
	recommendations of committee:	
	<ul><li>Galileo publicly recant his views</li><li>Galileo put under house arrest</li></ul>	
	Dialogue to be banned	
		S6
	Galileo's Heresy Trial & "Recantation"	50
	8. "I, Galileo, son of the late Vincenzio Galilei of Florence, seventy years of age	
	I have been judged vehemently suspected of heresy, namely of having held and	
	believed that	
	[1] the sun is the center of the world and motionless	
	[2] and the earth is not the center and moves	
	With a sincere heart and unfeigned faith I abjure, curse, and detest the aforesaid	Į
	errors and heresies." <i>Galileo Affair</i> , 292	
	COMMENTS:	S7
	regrettable, but somewhat understandable	
	Galileo was 70 yrs old & sick $\rightarrow$ wants to get home	
	BUT	
	Galileo becomes the SYMBOL of the WARFARE relationship of Science & Religion	)
		<b>S</b> 8
	returned to Florence & was under house arrest for rest of his life NOT in a dungeon & in chains!!!	
	continued scientific work & focussed on motion	
1(27		<b>G</b> 0
1637	abandoned his theory that tides are proof the earth moves	S9
1638	Discourses & Mathematical Demonstration Concerning Two New Sciences       S <ul> <li>ARISTOTLE WRONG again!!!</li> </ul>	10
1642	S	11

dies January 8 & was buried in Florence, Italy

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## Epilogue 1687

Newton describes Theory of Gravity in *Mathematical Principles* (1687) NB

Galileo did not have the concept of gravity in his science

## 1835

Roman Catholic church removed Dialogue from the Roman Index

## 1838

stellar parallax confirms earth that moves

<b>DNCLUSION: Brief History of Galileo Galilei</b> 1. The Galileo Affair much more complex than simple Science & Religion Warfare	S3 S4
numerous contributing factors:	51
<ul> <li>Social Roman Catholicism still reacting to the Protestant Reformation</li> <li>Personal Galileo's bad attitude</li> <li>Professional</li> </ul>	
Aristotelians (Old Science) vs Mathematicians (New Science)	
<ul> <li>Theological <ul> <li>Church was steeped in scientific concordism</li> <li>Aristotle was conflated into Roman Catholic theology</li> </ul> </li> <li>Scientific <ul> <li>Geocentricity vs. Heliocentricity</li> </ul> </li> <li>Knowledge Gap <ul> <li>between growing academic knowledge vs. common knowledge</li> </ul> </li> </ul>	S5
2. History of Scientific Discovery	S6
1 st a pattern (observation) is discovered, 2 nd a process (mechanism) is discovered	
Pattern: 1543 Copernicus & heliocentricity	
Process: 1687 Newton & Theory of Gravity	
Parallel to Evolutionary Biology?	S7
Pattern: 1800s fossil record	
Process: today just beginning to be understood through genetics	
3. Hermeneutics (poor) played a significant part in the Galileo Affair	<b>S</b> 8
Lesson for Today:	
IF we are going to be involved in the origins debate,	
THEN we need to have competent hermeneutics of Genesis 1-11	
let's not repeat the hermeneutical errors of the church in Galileo's day	

Galileo 2 Episode 1	107
IV. GALILEO'S HERMENEUTICS AND SCIENCE & RELIGION RELATIONSHIP	S2
Background: 1613 a breakfast & 2 hr discussion afterward	52 S3
Grand Duchess Christina asks about theological implications of Galileo's astronomy:	05
was Galileo undermining Christian Faith?	
Galileo responded with "Letter to Castelli" (1613)	
expanded into "Letter to Grand Duchess Christina" (1615)	S4
1. FOUNDATIONAL PRINCIPLE: THE TWO DIVINE BOOKS	S5
Scripture & Nature Rooted in the Trinitarian God	S6
9. "For the Holy Scripture and nature derive equally from the Godhead, the former as the	
dictation of the Holy Spirit and the latter as the most obedient executrix of God's orders."	
COMMENTS: "Letter to Christina" in Finocchiaro, 93	
"Godhead" a term for the Holy Trinity—Father, Son & Holy Spirit	
balance between the Two Books $\rightarrow$ both "derive equally" from God	
Scripture & Nature Reveal God	S7
<b>10.</b> "God reveals himself to us no less excellently in [1] the effects of nature than in	57
[2] the sacred words of Scripture, as Tertullian [theologian;160-220 CE/AD] perhaps	
meant when he said, 'We postulate that God ought <b>first</b> to be known [1] by nature, and	
afterward further known [2] by doctrine—[1] by nature through his works, [2] by doctrine	
through official teaching."	
COMMENTS:	<b>S</b> 8
balance between the Two Books $\rightarrow$ both equally "excellent"	50
strong view of Natural Revelation (ID)	
✓ start 1 st with Nature in order to know God	
<ul> <li><u>Priority of Scripture over Nature in Theological Issues</u></li> <li>11. "I have no doubt at all that, where human reason cannot reach, and where consequently</li> </ul>	S9
one <b>cannot have a science</b> , but only opinion and <b>faith</b> , it is appropriate piously to conform	11
absolutely to the <b>literal meaning of Scripture</b> ." "Christina" 104	G10
COMMENTS: reflects Metaphysics-Physics Principle	S10
theology (metaphysics) is <b>beyond</b> science (physics)	
accepts the literal meaning of theological statements	
	S11
12. "I think that in disputes about natural phenomena one must begin NOT with the authority	
of scriptural passages, but with sensory experience and necessary demonstrations [science	]
after becoming certain of some physical conclusions, we should use these as	
<b>very appropriate aids</b> to the <b>correct</b> interpretation of Scripture." "Christina" 93	
COMMENTS:	S12
REJECTS scientific concordism	
science contributes to hermeneutics	
"very appropriate aids to the correct interpretation of Scripture"	
<b>Baconian Hermeneutic</b> (Principle #11) $\rightarrow$ "creatures are a <u>key</u> to Scripture	es"
τ.	S13
Is <b>evolutionary biology</b> a "very appropriate aid to the correct interpretation of the Genesis 1 & 2 creation accounts?	1"

	Galileo 2 Episode 108
NATURE: THE BOOK OF GOD'S WORKS	SZ
God Created Faithful Laws of Nature	S
13. Nature is "the most obedient executrix of God's orders Nature is	inexorable and
immutable, [and] never violates the terms of the laws imposed on h	ner." "Christina" 93
<u>COMMENTS</u> :	
implications: God is faithful & not deceptive → we can nature is not a God-of-the-Gaps world	trust nature & science
Science is a Gift from God 14. "I do not think one has to believe that the same God who has given	S
and intellect would want us to set aside the use of these Indeed,	
mind put to death? When one is in possession of this [scientif	
gift from God.'	"Christina" 94, 96, 105
COMMENTS:	Christina 94, 90, 103
crushes the science vs. religion dichotomy	
human epistemology & knowledge rooted in God	
✓ science ultimately rooted in God!	
QUESTION	S
Is <b>evolutionary biology</b> also a gift from God?	
Practice of Science IMPLICITLY Affirmed in Scripture 15. "To prohibit the entire science [astronomy] would be no different th	S nan to reject hundreds
of statements from the Holy Writ, which teach us how the glory a	nd the greatness of the
supreme God are marvellously seen in all his works and by divine	e grace are <b>read</b> in the
open book of the heavens."	"Christina" 103
COMMENTS:	
Two Divine Books Metaphor $\rightarrow$ "book of the heavens"	
strong view of natural revelation (ID) Ps 19:1 re-written:	
"The open book of the heavens declare the glory	& greatness of God"
Nature is Intelligible & Written in Language of Mathematics	S
<b>16.</b> From <i>The Assayer</i> (1623) "Philosophy [i.e., natural philosophy, or s	science] is written in
this grand book, the universe, which stands continually open to ou	r gaze. But the <b>book</b>
cannot be understood unless one first learns to comprehend the lang	guage and to read the
letters in which it is composed. It is written in the language of ma	athematics without
which it is humanly impossible to understand a single word of it; w	rithout these, one wanders
about in a dark labyrinth." S. Drake, <i>Discoveries &amp; Opinions of Galileo</i> <u>COMMENTS</u> :	
nature is rational & understandable → strong view of nat	
Albert Einstein: "The eternal mystery of the world is its compreh BUT	S8 N1 nensibility." Q7 N15
no mystery for Galileo $\rightarrow$ God wrote th	he mathematics into nature
QUESTION	S
What do we need to "first learn" before understanding	•
geology, palaeontology, genetics, comparative anat	•
Otherwise, will we "wander about in a dark labyrinth"?	•

# 3. SCRIPTURE: THE BOOK OF GOD'S WORDS

Scripture is Inerrant, NOT its Interpreters

17. "Holy Scripture can never lie or err, and its declarations are absolutely and inviolably true ... Though the Scripture was inspired by the Holy Spirit ... we cannot assert with certainty that all interpreters speak by divine inspiration since if this were so then there would be no disagreement among them about the meaning of the same passages ... Holy Scripture can never lie, as long as its true meaning has been grasped.

<u>COMMENTS</u>: accepted Doctrine of Biblical Inspiration "Scripture was inspired by the Holy Spirit"

accepted Doctrine of Biblical Inerrancy Bible "can never lie or err" Biblical "declarations" "absolutely & inviolably true"

human interpreters are the problem • we need hermeneutics!

Intention of Scripture is for Salvation, NOT Science

18. "I should believe that the authority of Holy Writ has merely the aim of persuading men of those articles and propositions which are necessary for their SALVATION and surpass all human reason, and so could not become credible through some other science or any other means except [1] the mouth of the Holy Spirit ... If [2] the first sacred writers had been thinking of persuading the people about the arrangement and the movements of the heavenly bodies, they would not have treated them so sparsely." "Castelli" 51-2

COMMENTS:

Principle of Authorial Intentionality (Principle #10) Dual authorship of Scripture: [1] Divine Intention → SALVATION "mouth of the Holy Spirit"

"the aim" of the Bible

[2] Human Intention → NOT SCIENCE "first sacred writers would not have treated [astronomy] so sparsely"

Science in Scripture is INCIDENTAL

19. The Scripture "speak[s] incidentally of the earth, water, sun, or other created thing ... sciences [are] discussed in Scripture to a very minor extent and with disconnected statements; such is precisely the case of astronomy, so little of which is contained therein that one does not find there even the names of the planets, except for the sun, the moon, and only once or twice Venus, under the name Morning Star." "Christina" 93-4 <u>COMMENTS</u>:

reflects the Message-Incident Principle

science in Scripture is "incidental"

science only appears to a "very minor extent and with disconnected statements"

QUESTION

does Scripture "speak incidentally" of the origin of the world?

**S**6

**S**7

**S**8

**S**9

Galileo 2 Episode 109

"Letter to Castelli" in Finocchiaro, 49, 51; "Christina" 92, 96

S3

S4

Science in Scripture is ACCOMMODATED 20. "Propositions dictated by the Holy Spirit were expressed by the sacred writers in such a way as to accommodate the capacities of the very unrefined and undisciplined masses ... in order **not to sow confusion** into the minds of the **common people** and make them more obstinate against dogmas involving **higher mysteries** ... Indeed I shall further say that it was not only respect for popular inability, but also the current opinion of those times ... This doctrine [accommodation] is so commonplace and so definite among all theologians that it would be superfluous to present any testimony for it." Ibid., 92, 106

COMMENTS: S3 reflects the Message-Incident Principle science is "current opinion of those times" → science-of-the-day ancient science **Principle of Accommodation** (Principle #3) S4 refers to accommodation 8 X in "Letter to Christina" "so commonplace" in the 17th century reason for accommodation: to avoid **pastoral** problems "in order not to sow confusion into the minds of the common people" S5 QUESTION: Why is evolution not in the Bible? • to avoid pastoral problems

# 4. THE CONFLICT BETWEEN GALILEO & HIS CRITICS

Central cause  $\rightarrow$  poor hermeneutics

**QUESTION:** 

Are the issues similar today with Anti-Evolutionism?

#### Scientific Concordism is the Root of the Conflict

**21.** "So the reason they [Galileo's critics] advance to condemn the opinion of the earth's mobility and sun's stability is this: Since in many places in Holy Scripture one reads that the [1] sun moves and the [2] earth stands still, and since the Scripture can never lie or err, it follows as a necessary consequence that the opinion of those who want to assert the [1] sun to be motionless and the [2] earth moving is erroneous and damnable ... They want to extend, not to say abuse, its [ie, the Bible's] authority, so that even for purely **physical** [scientific] **conclusions**, which are not **matters of faith**, one must totally abandon the senses and demonstrative arguments [ie, scientific] in favour of any scriptural passage whose apparent words may contain a different indication." Ibid, 92, 90

COMMENTS: Galileo's critics accepted Scientific Concordism "authority" of the Bible "extends" to "physical conclusions" a superficial logic to the argument of the critics: S9 • The Bible states the "sun moves" & "earth stands still" • The Bible "never lies or errs" Therefore: belief the sun stands still & earth moves is "erroneous & damnable"

BUT critics fail to appreciate Message-Incident Principle:

• "physical conclusions ... are not matters of faith"

Galileo 2 Episode 110

S2

**S6** 

**S**7

#### .1:1 2 Enio do 111

Galileo 2 Episode	111
Recasting Galileo's Words for TODAY:	S2
"So the reason <b>anti-evolutionists</b> advance to condemn the opinion of the	
evolution of life is this:	J
• Since in many places in Holy Scripture one reads that <b>life was create</b>	1
<i>de novo</i> [quick & complete; Gen 1 & 2], and	
• since the Scripture can never lie or err,	
[Therefore]: it follows as a pagessary consequence that the opinion of these who	
it follows as a necessary consequence that the opinion of those who want to assert the <b>evolution of life</b> is erroneous & damnable."	
	<b>G</b> 2
QUESTION: Can you <b>empathize</b> with scientific concordists & anti-evolutionists?	S3
on the surface this argument is reasonable BUT	
in the end falls short hermeneutically	
similar to Galileo's critics, it assumes scientific concordi is a feature of the Bible	sm
Excessive Biblical Literalism	S4
22. "Though the Scripture cannot err, nevertheless some of its interpreters and expositors ma	
	.y
sometimes err in various ways. One of these would be very serious and <b>very frequent</b> , namely to want to limit oneself always to the <b>literal meaning of the words</b> ." "Castelli" <u>COMMENTS</u> : interpreters are the problem, not the Bible	49
<ul><li>"frequent" error is literalism</li></ul>	
TODAY 2004 ABC TV survey: 87% Evangelical Protestants & 51% Roman Catholics accept Gen 1 is literal → Young Earth Creation	S5
Proof-Text "Hermeneutics" aka "Sound-Bite TV Reporting"	S6
23. "They published some writings full of useless discussions and sprinkled with quotations	
from the Holy Scripture, taken from passages which they <b>do not properly understand</b>	
and which they inappropriately adduce." "Christina" 87	,
TODAY	<b>S</b> 7
anti-evolutionists often use the <i>de novo</i> creation of living organisms "after their kinds" in Gen 1 to claim that God did not create through evolution they fail to recognize that <i>de novo</i> creation is an ancient science of original science of science of science of original science of	r
Misappropriation of Academic Authority	S8
DEF: an expert in one academic discipline acts like an expert in another unrelated disciple	20
Absolute Prince Analogy	
<b>24.</b> "Officials and experts of theology should not arrogate to themselves the authority	
to issue decrees in the professions they <b>neither exercise nor study</b> [eg, astronomy];	
for this would be the same as if an absolute prince, knowing he had unlimited power	

to issue orders and compel obedience, but being neither a physician nor an architect, wanted to direct medical treatment and the construction of buildings, resulting in serious danger to the life of the unfortunate sick and in the obvious collapse of structures."

"Christina" 100-101

	Galileo 2 Episode 112
<u>COMMENTS</u> :	S2
theologians are not astronomers!	
TODAY most of the leading anti-evolutionists <u>do not</u> have biology de law, engineering, history, philosophy, mathematics, astro theology, etc	6
SUGGESTION always ask: What type of Doctor?	
CONCLUSION: Galileo's Hermeneutics and Science & Religion Relationshi	ip S4
1. Galileo had a <u>peaceful</u> relationship between his astronomy & his Christiani there was no hint of conflict	ty
2. Galileo believed that science does not deal with religion	\$5
25. "The motion or rest of the earth or the sun are not articles of faith	h and are
not against morals."	"Christina" 109
3. Galileo believed that the purpose of Scripture was for worship & salvation	S6
26. "The primary purpose of the Holy Writ [is] the worship of God	l and
the salvation of souls."	"Christina" 93
4. Galileo's hermeneneutics reflect the Message-Incident Principle	S7
to summarize his views, he used Cardinal Baronio's hermeneutical apl	norism S8
27. "The intention of the Holy Spirit is to teach us how one goes to	) heaven,
and not how heaven goes."	"Christina" 96
Message of Faith	S9 H5
How to Go to Heaven "articles of faith" "morals" "worship of God" "salvation of so "primary purpose of the Holy Writ" "intention of the Holy S	
Incidental Ancient Science	S10 H5
How Heaven Goes (astronomy) in the Bible:	
appear "incidentally" Q 19	
mentioned "sparsely" Q 18	
"current opinion of those times" Q 20	
"accommodated" to the level of "common people" Q 20	
"in order not to sow confusion" Q 20	

	Episode 113
V. GALILEO'S HERMENEUTICAL GAFFE: LITERALISM & CONCORDISM Despite Galileo's excellent hermeneutics in the "Letter to Christina," he succumbs to lite	
scientific concordism near the end of the letter	
<ul> <li>moving completely beyond literalism &amp; concordism is difficult!</li> </ul>	
The firmament is LITERALLY the last sphere in the heavens	S3
28. "The word firmament [in the Bible] is literally very appropriate for the stellar spectrum of the s	phere
[ie, the sphere of fixed stars] and everything above the planetary orbs, which is to	otally
still and motionless according to this arrangement [Copernican astronomy]." "	Christina" 118
COMMENT:	S4 H24
Galileo believed the firmament was the boundary of the physical unive	rse
The sun is LITERALLY in the middle of the heavens	S5
29. "With the Copernican system one can very clearly and very easily give a literal m	eaning
to another detail which one reads about the same miracle [Josh 10]; that is, that the	ie sun
stopped in the middle of the heavens."	Ibid, 117
COMMENT:	S6 H24
Galileo believed the sun was literally in the <u>center</u> of the entire univers	se
The rotation of the sun LITERALLY turns the spheres of the planets	S7
30. "The sun is both the source of light and THE ORIGIN OF MOTION [my capital	s], and
given that God wanted the whole world system to remain motionless for several	hours as
a result of Joshua's order, it was sufficient to stop the sun, and then its immobili	ity stopped
all the other turnings, so that the earth as well as the moon and the sun (and all	the other
planets) remained in the same arrangement; and during that whole time, night die	1 not
approach, and the day miraculously got longer."	Ibid, 117
COMMENT	
• Galileo believed:	S8-9 H24
the rotation of the sun caused the movement of the spheres & plane Therefore: stop the rotation of the sun and it stops the earth's ro the sun will not "set"	
Galileo believed:	
Josh 10 miracle really happened resonal interventionism	
The Problem of Scientific Concordism	S10
with the advance of science: the concordism of one generation is rejected by the next generation	
it's like the God-of-the-Gaps	
with regard to Galileo's Scientific Concordism:	S11
<ul><li>sun is NOT in middle of heavens</li><li>sun is NOT surrounded by spheres with a planet</li></ul>	
<ul> <li>firmament does NOT exist above planets</li> </ul>	
• sun's rotation does NOT transmit motion to spheres & planets	
PASTORAL CONCERN:	S12
IF science advances & destroys your scientific concordism,	512
THEN is your faith in God also destroyed?	

### VI. THE "APOLOGY TO GALILEO"

Pope John Paul II "Lessons of the Galileo Case" (1992)

#### The Problem

hermeneutical **incompetence** of 17th century theologians of the Church

31. "The new science [Copernican astronomy] ... obliged theologians to examine their

own criteria of scriptural interpretation. Most of them did not know how to do so ...

The majority of theologians did not realize the formal distinction between

[1] Sacred Scripture and [2] its interpretation, and this led them unduly to transpose

[conflate] into the realm of the **doctrine of the faith** a question that in fact pertained

#### to scientific investigation."

COMMENTS:

JP II, "Lessons of the Galileo Case," Origins: CNS Documentary Service 22 (1992), 372-373

S4

S2

S3

The Bible is NOT the problem  $\rightarrow$  the interpreters are!

Failure to distinguish:

- [1] "Sacred Scripture" from
- [2] "its interpretation"

#### **Problem of Conflation:**

"transpose [conflate] into the realm of the doctrine of the faith a question that in fact pertained to scientific investigation."

The Tragic Consequence	S5
Galileo has become the SYMBOL of Science & Religion Warfare	
32. "The Galileo case has been a sort of 'myth' in which the image fabricated out of th	e
event was quite far removed from reality This myth has played a considerable	
cultural role. It has helped anchor a number of scientists of good faith in the idea	ı
that there was an <b>incompatibility</b> between [1] the spirit of science and its rules o	f
research on one hand and [2] the <b>Christian faith</b> on the other." Ibid, 373	3
COMMENTS:	S6 H1
today this Galileo myth continues to fuel: Science & Religion Warfare Science vs. Religion Dichoto	
The Problem Re-Stated	S7
Cardinal Paul Poupard	
commissioner of 13 yr study that led to the Galileo apology	
33. "Galileo's judges, incapable of dissociating faith from an age-old cosmology,	
believed quite wrongly that the adoption of the Copernican revolution, was such	
as to undermine Catholic tradition." P. Poupard, "Report" Ibid, 3	374-5
COMMENTS:	<b>S</b> 8
Problem of Conflation	
17 th century theologians conflated "faith" & "age-old cosmology"	
The Solution	S9 H5

**QUESTIONS:** 

Are Christians today:

"incapable of dissociating faith" from an "age-old biology"?

"incapable of dissociating faith" from an "age-old biology of human origins"?

Message-Incident Principle → Separate, Don't Conflate!

#### 5

S10-11 H5

VIII. CONCLUSION: ASTRONOMY & THE GALILEO AFFAIR	52
1. Galileo did <u>NOT</u> view Science & Religion in a Warfare Relationship	53
He believed:	54
Two Divine Books	
God reveals equally well:	
(1) "the effects of nature" Quote 10	
"book of the heavens" Q 15	
"grand book" Q 16	
(2) "the sacred words of Scripture" Q 10	
• Science was a "gift from God." Q 14	
• Science was a "very appropriate aid to the correct interpretation of Scripture." Q 12	
<b>2. Galileo was a Christian</b> (though far from perfect $\rightarrow$ but who is?)	S5
He believed:	56
The Trinitarian God of Christianity	
referred to as the "Godhead" Q 9	
• The Bible was inspired by God	
"the Scripture was inspired by the Holy Spirit" Q 17	
Biblical Inerrancy	
"its [Scripture's theological] declarations are absolutely and inviolably true" Q 17	
"conform absolutely to the literal meaning of Scripture" Q11	
	57
"the glory & the greatness of the supreme God are marvellously seen in all His works" Q 15	5
1 st stage of knowing God	
"God ought first to be known by nature" Q 10	
• Divine Action	
Cosmological Providentialism in Operations	
"nature [was] the most obedient executrix of God's orders" Q 9	
Personal Interventionism	
Josh 10 stopping of sun miracle Q 29 & 30	
<b>3. Galileo had Academic Hermeneutics</b> Despite his minor hermeneutical gaffe, he rejected scientific concordism	58
He accepted the hermeneutical principles of:	<b>S</b> 9
Accommodation Q 20	
• Authorial Intentionality: Divine & Human Q 18	
• Baconian Hermeneutic → Science is a KEY to understanding the Scriptures Q 12	
Message-Incident Principle (Implicit) Q 19, 20, 25-30	10
• Incidental Ancient Science in Scripture Q 19	

	Galileo 2 Episode 116
4. Lessons from the Galileo Affair for Today	S2
History reveals:	S3
• anti-heliocentrism (anti-Copernicism) rooted in: (1) tradition (Aristotle)	
(2) scientific concordis	m
<ul> <li>scientific concordism → failed</li> </ul>	
• solution to Science-Religion conflicts → competent hermeneutics	
Similarly, TODAY reveals:	S4
• anti-evolutionism rooted in: (1) tradition (87% evangelical Protestants -	✤ Young Earth Creation)
(2) scientific concordism	
<ul> <li>scientific concordism → will fail</li> </ul>	
• solution to Sci-Rel conflicts $\rightarrow$ competent hermeneutics of Gen 1-11	
IF Lamoureux were the Pope of evangelical Protestants • I would write a letter of apology to all evolutionary scientists	S5
5. Time for a New Symbol for Science & Religion?	S6
Galileo as a symbol of a <u>PEACEFUL</u> relationship between Science & Religi	ion? S7
Time for a new aphorism?	S8
<u>GALILEO TAUGHT THE $17^{\text{TH}}$ CENTURY CHURCH:</u>	
"The intention of the Holy Spirit is to teach us how one goes to l	heaven,
and <u>not</u> how heaven goes."	
	89
GALILEO COULD TEACH THE 21 st CENTURY CHURCH:	
"The intention of the Bible is to teach us <b>THAT</b> God is the Cro	eator,
and not HOW the Father, Son, and Holy Spirit created."	

D. Lamoureux, Evolutionary Creation (2008), 35

**S**8

S9

<b>- -</b>	
<b>GEOLOGY &amp; THE BIBLICAL FLOOD</b>	S2
I. KEY THOUGHTS	S3
1. As Geology develops, it <u>shifts</u> the understanding of God's action in the world	S4
increase in understanding natural mechanisms → decrease in God-of-the-Gaps	
<u>decrease</u> in Cosmological Interventionism $\rightarrow$ <u>increase</u> in Cosmological Providentialism	
<ul> <li>Science IMPACTS Religion's understanding of divine action</li> </ul>	
2. As Geology develops, it <u>shifts</u> the interpretation of the Biblical Flood Account (Gen 6-9)	S5
increase in understanding natural mechanisms → decrease in Scientific Concordism	
<u>decrease</u> in worldwide (global) flood interpretations $\rightarrow$ <u>increase</u> in local flood interpretations	
<ul> <li>Science IMPACTS Religion's understanding of the Bible</li> </ul>	
3. Logic of the Science-of-the-Day	S6
everyone thinks within their "Intellectual Tool Box"	
very rational considering their limited knowledge	
4. Pattern & Process in Science	S7
Pattern (observation) is discovered FIRST	
fossil pattern in the strata (layers) of the earth's crust	
Process (mechanism) is discovered AFTERWARD	
17 th century geologists believed Noah's worldwide flood produced the strata. EG Newton	
natural mechanisms were only understood in the 19 th century	

#### **II. BIBLICAL TEXTS ON THE FLOOD**

#### **Old Testament**

Biblical Flood Account (Gen 6:9-9:29)

1. "600th year of Noah's life, 17th day of 2nd month ... The waters rose and increased greatly on the earth, and the ark floated on the surface of the water. They rose greatly on the earth, and all the high mountains under the heavens were covered. The waters rose and covered the mountains to a depth of more that 15 cubits (20 ft). Every living thing that moved S10 on the earth perished—birds, livestock, wild animals, all the creatures that swarm over the earth, and all mankind ... Only Noah was left, and those with him in the ark ... The water receded steadily from the earth ... the ark came to rest on the mountains of Ararat. The waters continued to recede ... until the tops of the mountains became visible ...

601st year of Noah's life by the 27th day of the 2nd month the earth was completely dry."

COMMENTS:	S11
• worldwide flood & lasted 1 year	
all of life was destroyed	
flood was above the Ararat Mountains $\rightarrow$ like the Rockies (12-16,00	00 ft)
• little reference to flood in the Old Testament outside Gen 6-9	S12
• 60% of Americans believe in a worldwide flood (2004 ABC TV Poll)	
87% Evangelical Protestants & 44% Roman Catholics	
Gen 6-9 "literally true, meaning it happened that way word-for-	word"

Gen 7:11, 18-21, 23; 8:3-5, 13-14

#### New Testament

Flood is a historical & worldwide event

used as a warning (eg, 1 Pet 3:18-21; 2 Pet 2:5, 3:3-7). See SQ 1-5

	<b>C</b> 2
2. Jesus: "As it was in the days of Noah, so it will be at the coming of the Son of Man	S3
[ie, 2 nd coming of Jesus]. For in the days before <b>the flood</b> people were eating and	ł
drinking, marrying and giving in marriage, up to the day <b>Noah entered the ark</b> ;	_
and they knew nothing about what would happen until the flood came and took	L.
them all away. That is how it will be at the coming of the Son of Man."	
Matt 24:36-39 (also Lk 17:26- COMMENTS:	527) S4
Jesus spoke as if Noah, the ark & the flood were historical	5.
QUESTIONS	
was Jesus' intention to affirm that the flood was historical?	
OR	
to reveal a Message of Faith about rampant sin before his 2 nd Coming?	
MORE QUESTIONS	S5
was Jesus using the history-of-the-day (worldwide flood) in a way sim	ilar
to his use of the science-of-the-day (mustard seed)?	
CONCLUSION: Biblical Texts on the Flood	S6
1. The flood in Scripture is viewed as a real, historical & worldwide event	50
2. The flood account is self-authenticating	<b>S</b> 7
no need to defend its reality	
no appeal to non-biblical sources or scientific evidence	
III. BRIEF HISTORY OF GEOLOGY & THE BIBLICAL FLOOD	<b>S</b> 8
A. <u>THE EARLY CHURCH &amp; THE FLOOD</u> (to 500 AD/CE)	S9
Preamble: The Rise of Apologetics	S10
Apologetics	
DEF: the use rational arguments to defend the truthfulness of Christian Faith due to the impact of critical thinking on Christianity	
caused a shift in attitude toward non-biblical information (eg science)	
3. Clement of Alexandria (150-215)	S11
Some Christians "do not wish to touch either philosophy or logic; nay more, the	
do not wish to learn science [Latin <i>scientia</i> : knowledge in general]. They dema	•
bare faith alone [But] the <b>truly learned</b> [Christian] brings everything to bear	
the truth; so that, from geometry, and music, and grammar, and philosophy itse	
culling what is useful, he guards the faith against assault And he who bri	
everything to bear on a right life, procuring examples from the Greeks and	ngo
<b>barbarians</b> , this man is an experienced searcher after the truth, and in reality a	
man of much counsel."	
Clement of Alexandria, <i>Stromata</i> in A. Roberts & J. Donaldson, e	ds
	.0)

Ante-Nicene Fathers, 10 vols. (Eerdmans, 1962), II:309. (1:9)

	Flood 1 Episode 119
<u>COMMENTS</u> :	S2
• rejects <b>fideism</b> Latin <i>fides</i> : faith	Notes 38
DEF: religious truth rests ONLY on fa aka the 'Just Believe Argument	
<ul> <li>accepts the practice of apologetics using non-biblical information "guard</li> </ul>	s the faith against assault"
<ul> <li>no Christian "ghettoisation" of knowledge</li> </ul>	ge S3
no preaching-to-the-choir-Bible-schoo	-
"procuring examples from the C	Greeks and barbarians"
• critical mindset is a characteristic of the Jesus' 1 st Commandment:	"truly learned" Christian
love God with out mind (Mat	tt 22:37)
Flood Scholarship (Apologetics)	S4
critical thinking leads to questions regarding:	
(1) landing site of ark (2) size of ark (3) extent of the flood (4) n	redistribution of animals
1. Landing Site of the Ark	85
much disagreement BUT no one doubted there was a site	
the flood was viewed as a real, historical, worldwide	e event
Epiphanius (315-403)	S6
4. "Do you seriously suppose that we are unable to prov	-
day the <b>remains of Noah's Ark</b> are shown in the cou	•
JW Mor COMMENTS:	tgomery, <i>The Quest for Noah's Ark</i> (Bethany Fellowship, 1972), 72-73
accepts historicity of flood	(Bettuny 1 enowship, 1972), 72 75
notice the word "prove"	
John Chrysostom (345-407)	S7
5. "Have you heard of the Flood—of that universal dest	ruction? That was not just a
threat, was it? Did it not really come to pass—was n	ot this mighty work carried
out? Do not the mountains of Armenia testify to it, w	here the Ark rest? And are
not the remains of the Ark preserved to this very day	for our admonition?" Ibid.
COMMENTS:	
accepts historicity of flood "universal destruction" → worldwide flood	
2. Size of the Ark	S8
skeptics doubted the ark was large enough	
<b>Apelles the Marcionite</b> (2 nd century)	
<b>6.</b> "In no way was it possible to receive, in so brief a space	-
and their foods, which would be sufficient for a whole	
Fathers of the Churc	<i>Genesis &amp; Exodus</i> , RE Heine, trans. <i>h</i> , v 71 (Catholic U Press, 1982), 76
<u>COMMENTS</u> : Size of Ark in Gen 6:15	S9
300 long X 50 wide X 30 high <b>cubits</b>	cubit = 18 inches
150 X 25 X 15 yards	
ark could fit inside a football stadiu	ım

	Flood 1 Episode 120
Response to the Skeptics:	S2
<ul> <li>used Egyptian Cubit (square of ordi</li> </ul>	inary cubit)
therefore the Ark is 22,500 X 62	5 X 225 yards
<ul><li>thinking within their "Intel</li></ul>	lectual Tool Box"
3. Extent of the Flood	S3
nearly unanimous agreement that the flood was worldwide	
scientific evidence $\rightarrow$ MARINE FOSSILS on the top	s of mountains
Procopius of Gaza (465-538)	S4
7. "It can be shown clearly in many other ways that a u	iniversal flood came upon
the earth these things were explained by Moses [	traditional author of the Book
of Genesis]. For even today in mountains that are l	ofty and difficult to climb,
marine remains are found; this is, shells and fragm	nents of tortoise shells and
other such things, which even ourselves have seen.	" D Young, <i>The Biblical Flood</i> (Eerdmanns, 1995), 26
<u>COMMENTS</u> :	
"universal flood" → worldwide	
QUESTION	
what would you have thought seeing fish	bones at the top of mountains?
4. Redistribution of the Animals after the Flood	S5
problem emerged regarding distant islands $\rightarrow$ Azores & C	Canary Islands
how did animals get there after a worldwide flood?	
<b>St. Augustine</b> (354-430)	S6
regarded as the most important theologian in Christian	ity
Roman Catholics call him "THE theologian"	
Protestant Reformers Luther & Calvin were steep	bed in St. Augustine's theology
8. "A question arises how wild animals, propagated by	ordinary mating, like S7
wolves and the rest, can be found on the islands far	at sea, unless those which
were destroyed by the Flood were replaced by othe	ers descended from the animals,
male and female, which were saved in the ark. (The	ere is no problem in regard to
domestic animals or to those which, like frogs, sp	ring directly from the soil.)
[1] One <b>hypothesis</b> is that they swam to some islar	nds, but only to those that S8
were near. But there are some islands so far fro	•
that it seems impossible that any of the animal	
[2] Of course, there is nothing incredible in the sup	
the animals and took them with them and bred	them for the sake of hunting.
[3] Another possibility is that, by the command or	permission of God and with S10
the help of <b>angels</b> , the animals could have been	n transferred to the islands.
[4] Another hypothesis would be that they sprang u	up from the earth, as they S11
sprang up <b>in the beginning</b> when God said: 'L	Let the earth produce a living
soul' [Gen 1: 24]."	St. Augustine, <i>City of God</i> (426) 16.7 GG Walsh et al (Doubleday, 1958), 364

<u>COMMENTS</u> :	S2
St. Augustine is thinking within his "intellectual tool box"	
<ul> <li>very logical</li> <li>"One hypothesis, Another hypothesis"</li> </ul>	
<ul> <li>science (biology)-of-the-day spontaneous generation: "frogs, spring directly from the soil"</li> </ul>	S3
<ul> <li>God or angels-of-the-gaps to transport animals to distant islands → Interventionism</li> </ul>	S4
scientific concordism	S5
<b>AUGUSTINE'S SEED PRINCIPLES THEORY</b>	S6
God initially created a world with seeds of different anim termed: <i>rationes seminales</i>	als
these seeds then sprouted like plants into the various anin 1-seed theory of reproduction	nals
Augustine appeals to the 6 th Day of Creation: "God said, 'Let the LAND produce living creatures	S7
according to their kinds: livestock, creatures that move along the ground, and wild animals." Gen 1:24	
Hypothesis [4] Augustine theorizes that some animal seeds landed on distant islands after the flood, and they sprouted to becor the animals of those islands	S8 ne
scientific concordism & biology-of-the-day	
Scientific concordisin & biology-of-the-day	
Excursus: St. Augustine, Adam, Original Sin, and Ancient Biology Doctrine of Original Sin	S9 S10
<b>Doctrine of Original Sin</b> formulated by St. Augustine around 400 AD/CE	
Doctrine of Original Sin formulated by St. Augustine around 400 AD/CE <u>Two Foundational Beliefs</u> :	
<b>Doctrine of Original Sin</b> formulated by St. Augustine around 400 AD/CE	
Doctrine of Original Sin formulated by St. Augustine around 400 AD/CE <u>Two Foundational Beliefs</u> : (1) first sin committed by Adam a real man & the first man in history (2) sin transferred from Adam to ALL humans	
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Doctrine of Original Sin         formulated by St. Augustine around 400 AD/CE <u>Two Foundational Beliefs</u> :         (1) first sin committed by Adam         a real man & the first man in history         (2) sin transferred from Adam to ALL humans         ALL humans descend from Adam         Therefore:         historical Adam is entrenched in Roman Catholic & Protestant Christianity         BUT         St. Augustine accepted Ancient Biology → spontaneous generation	S10 S11
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Doctrine of Original Sin formulated by St. Augustine around 400 AD/CE <u>Two Foundational Beliefs</u> : (1) first sin committed by Adam a real man & the first man in history (2) sin transferred from Adam to ALL humans ALL humans descend from Adam Therefore: historical Adam is entrenched in Roman Catholic & Protestant Christianity BUT St. Augustine accepted Ancient Biology → spontaneous generation Seed Principles Theory QUESTION	S10 S11 S12 S13
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•	-					
4. scientific	& historical	l concordism	characterized	the hermeneutic	s of Gen 6-9	S17

Flood 1	Episode 122
B. <u>The Middle Ages &amp; the Flood</u> (500-1450)	S2
limited advances in scholarship & no new issues raised regarding the flood	
debate continued regarding the landing site of Noah's ark	S3 H25
Muslims now part of the debate $\rightarrow$ Muhammad (570-632)	S4
THE KORAN & CREATION IN 6 DAYS	
9. "Throned above the waters, God made the heavens and the earth in six days	s, to find
out which of you shall best acquit himself."	Hud 11:7
<u>COMMENT</u> :	
reflects ancient astronomy with God above the heavenly sea	S5 H83
<u>THE KORAN &amp; NOAH'S FLOOD</u> (Hud 11:21-46) basically the biblical story with a twist:	S6
Noah's son climbs a mountain to save himself, but he drowns	
NB:	S7
<b>Re-Cycle &amp; Re-Interpret</b> an account is common in the ancient world (mo	re anon)
C. <u>The Early Modern Period &amp; the Flood</u> (1450-1750)	S8
two factors impacted flood scholarship: 1. discovery of the new world	
2. rise of modern science	
1. New World Discoveries	S9
<ul> <li>oceans were immensely large</li> </ul>	
Problems: source & sink of flood water	
where did it come from & where did it go? animal migration	
how did they travel great distances across oceans to get to & fr	om the ark?
• countless <b>new species</b>	S10
Problem: how did they all fit in the ark?	
• Flood Accounts around the world	S11 H28
Not a Problem!	
used in apologetics to prove the reality of a global flood	
<ul> <li><u>Argument</u>:</li> <li>global flood destroyed everyone except Noah &amp; his family in the ark</li> </ul>	S12
• entire world was repopulated from Noah's 3 sons	S13
<b>10.</b> "The sons of Noah who came out of the ark were Shem, Ham &	
from them came the people who were scattered over the earth.	•
• ORAL account of the flood is passed down to everyone	S14
easy to modify into different versions because it was in an oral for	
BUT the main idea (motif) remained intact	
$\checkmark$ a worldwide flood & some people with animals sav	ed in a boat
2. <u>Rise of Modern Science</u>	S15
11. "Toward the end of the Middle Ages scholars gradually broke with the reign	ing
assumption that the surest knowledge of the created world was derived <b>dedu</b>	-
from first principles [eg, Aristotle's works] and turned instead to exploration	-
experiment, and observation for clues to its true nature [ie <b>induction</b> ]. Powe	
mathematical tools helped observers to explain and predict a broad range of	
motion and helped give rise to a vision of the cosmos as a great machine d	cargineu
and maintained by God	

#### Flood 1 Episode 123

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In doing so, it was not their intent to challenge biblical authority or to diminish	S2
God's role in creation. They were simply trying to view the divine creative activi	ty
in a new way, premised on the assumption that within the context of the physical	
world God typically acts in and through describable secondary mechanical	
causes [natural processes]." Young, Biblical Flood, 43-	.44
COMMENTS:	
shift in understanding God's activity in the world	S3
scientific mindset $\rightarrow$ looks for natural causes	
increase in understanding natural mechanisms	
decrease in God-of-the-Gaps (Cosmological Interventionisn	1)
NOT an anti-God movement	S4
most scientists were Christians	
natural processes seen as "designed & maintained by God"	
<u>increase</u> in Cosmological Providentialism natural processes as being ordained & sustained	
BUT	S5
Science IMPACTS Religion	35
relimination of divine interventions in nature	
QUESTION	<b>S</b> 6
Why bother with God?	
Impact of New World Discoveries & Rise of Modern Science on Flood Scholarship Adjusted the Global Flood Theory claimed land bridges once existed between the continents & oceans were much sma Therefore, migration to & from the ark not a problem	S7 S8 aller
claimed new world animals are transformed old world animals	S9
Limited Form of Evolution	39
base on seeing "sports" → variant animals	
animals left the ark & changed	
natural causes -> interbreeding, natural mutation & response to clim	ate
Therefore, there were not that many original species	
no problem to fit them inside the ark	
Local Flood Theory	S10
begins as a minority view in mid-1600s & rejects Global Flood	
flood is limited to a region in the Middle East $\rightarrow$ usually Mesopotamia	
References in the Bible to:	S11
"all" the earth being flooded = all the area in a small region being flooded	
"all" humanity & "all" animals being drowned = all humanity & animals in the	region
flooding of the highest "mountains" = highest "hills" in the region	
Local Flood solves problems with a Global Flood:	S12
NO problems with: the source & sink of the flood water	
migration to & from ark	
the size of ark & the great number of species	
NO need to appeal to miracles • a distaste developing for 'easy answer' God-of-the-gaps interventions	S13
- a distaste developing for easy answer Obd-of-the-gaps interventions	515

	Flood I Episode 124
Niels Steensen & Principle of Superposition studied shark teeth	(1638-1686) S2 S3-4 H26
PATTERN observed:	S5 4 1120
specific shark teeth appeared in spe	ecific layers of rock
PROCESS proposed: teeth were laid down at different ti the sea floor later rose to become d lifted by subterranean gases → mo	
PRINCIPLE OF SUPERPOSITION	S6
foundational concept of geology • rock strata are historical documents • lowest layer is the oldest & highest i	s the youngest
BUT Steensen still believed in global flo his work hardly noticed	ood & young earth
Global Flood Theories	S7
<b>12.</b> "Captivated by the new understanding of	of the world developed by Galileo, Kepler,
and later Newton, scholars expanded the	heir understanding of the course of creation
and the flood in terms of an intricate n	nachine-like earth, attributing its motion,
behaviour, and history to mechanical a	action among discrete particles. The results
of their new learning turned up in num	erous global deluge [flood] theories
published during the late 17 th and early	⁷ 18 th centuries. During this period, the
flood was at the center of mainstream	n theoretical earth science in Europe." Young, <i>Biblical Flood</i> , 66
COMMENTS:	S8
• scientific mindset applied t shift occurs from debat the <b>geological effects</b>	tes over size of ark, animal migration, etc to
	of Geology = science-of-the-day
• Noah's Flood Account (Ge	on 6-9) real event S9
*	1 & scientific concordism
Historical Pattern	S10
scientific mindset starts QUESTION: will	s with astronomy & now applied to geology biology be next?
<b>CONCLUSION: The Early Modern Period &amp; the Fl</b> 1. majority viewed the biblical flood as a REAL hist only a few accepted a local flood	
2. Science IMPACTS Religion	S12
Divine Action → <u>decrease</u> in God-of-the-Gaps	divine interventions
Biblical Interpretation $\rightarrow$ <u>decrease</u> in strict liter	alism
QUESTIONS	S13
is the scientific mindset like a virus?	
will it "infect" all of your thinking?	
does it extend to the resurred how do you control it?	

C.	THE BEGINNING OF GEOLOGY       (1750-1825)         Geomorphology & Stratigraphy	S2 S3
	started to map the earth & categorize different strata (layers in the crust of the earth)	
	1. primary: non-stratified rocks	
	2. secondary: stratified rocks	
	3. tertiary: sand, clay, gravel	
	PATTERN observed:	S4
	strata did not reflect Specific Gravity	
	some heavier objects were above lighter ones	
	<u>GLOBAL FLOOD PREDICTION:</u> heavy objects should be at the bottom of strata	
	• consistent order of strata	
	1000s of feet thick & 10s to 100s of miles wide <u>GLOBAL FLOOD PREDICTION</u> :	
	a haphazard pattern should appear	
	PROCESS proposed:	~ ~
	James Hutton & Principle of Actualism (1726-1797) • strata were deposited in seabeds by erosion	S5 S6 H25
	straight lines of strata indicate they were laid down in water	50 H25
	<ul> <li>heat &amp; pressure from below SLOWLY raise the strata to become dry land mechanism based on the experience of earthquakes &amp; volcanoes:</li> </ul>	
	the raising & lowering of land	
	explanation for marine fossils on mountains	
	Therefore: a great amount of time was needed	
	PRINCIPLE OF ACTUALISM	S7
	foundational concept of geology	
	the earth's <i>past</i> is explained through the processes observed on earth	today
	Retrojection:	
	taking <i>present</i> evidence & casting it back in time to reconstruct t CSI type of thinking	he <i>past</i>
	The End of Global Flood Theories	<b>S</b> 8
	geomorphology & stratigraphy proved that it was <u>impossible</u> for a 1 yr global flood to la	
	all the layers in the crust of the earth	ay ao wii
	13. "By the beginning of the 19 th century, the interpretation of geological strata ha	d
	changed radically. Virtually no established geologist thought that the thick seque	ences
	of stratified sedimentary rocks so evident in quarries, cliffs, and mountains had	
	anything to do with <b>the flood</b> ." Your	ıg, 98
	COMMENTS:	
	BUT not the end of the Flood	
	unexplainable surface features:	
	1. wide U-shaped valleys with only small rivers	S9
	2. "erratic" boulders (even perched up)	S10
	3. gravel beds without rivers anywhere near them	S11

Flood 1 Episo	
Catastrophism	S2
DEF: multiple catastrophic water events that caused surface features Noah's Flood was often seen as the last catastrophic event	
mainstream geology in Europe & North America in late 18 th & early 19 th centur	ries
COMMENTS:	
an argument from ignorance	
IF one can't explain something,	
THEN one appeals to miracles	
The End of Catastrophism	S3
classic example of the problem with God-of-the-Gaps	
scientific (geological) knowledge closes the gaps the "gap" was a knowledge gap	
Natural Explanations for Catastrophic Flood Effects (above)	
Theory of Glaciation 1. wide U-shaped valleys with small rivers → carved by glaciers	S4
evidence: sides of mountains with scraped & polished surfaces	S5
2. "erratic" boulders $\rightarrow$ broke away from mountains & carried by glaciers	<b>S</b> 6
Earth extremely old & changes radically over time	<b>S</b> 7
3. gravel beds without rivers	
rivers had disappeared long ago	
Catastrophism ends by around 1825	<b>S</b> 8
Adam Sedgwick (1785-1873) Cambridge University geologist → HUGE impact on Darwin	
Ordained Anglican minister	
President of the Geological Society	
Recantation of Catastrophism on retiring from the presidency in 1831:	S9
14. "There is, I think, one great negative conclusion now incontestably estab	lished;
that the vast masses of diluvial [flood] gravel, scattered almost over the	surface
of the earth, do not belong to one violent [catastrophic] & transitory pe	eriod.
It was indeed a most unwarranted conclusion, when we assumed the	
contemporaneity of all the superficial gravel on the earth.	
We saw the clearest traces of diluvial actions, and we had, in our sacred	S10
histories, the record of a general deluge [Noah's Flood]. On this double	
testimony it was, that we gave a unity to a vast succession of phaenome	ena,
not one of which we perfectly comprehended, and under the name	
'diluvium,' classed them all together	
Our errors were, however, natural, and of the same kind which led man	y S11
excellent observers of a former century [1700s] to refer all the secondary	у
formations [ie stratified rocks] of geology to the Noachian deluge. Havin	ng
been myself a believer, and, to the best of my power, a propagator of w	hat
I now regard as a philosophic [ie, natural philosophy or scientific] heres	у,
and having more than once been quoted for opinions I do not now main	
I think it right, as one of my last acts before I quit this Chair, thus public	
read my <b>recantation</b> .	
A Sedgwick, "Presidential Address," Proceedings of the Geol	ogical

A Sedgwick, "Presidential Address," *Proceedings of the Geological* Society of London 20 (18 February 1831), 31

C	2
С	Ζ

<u>COMMENTS</u> :	S2
Scientific & Historical Concordism were part of scholarship	
Two Divine Books → "double testimony" Nature: "clearest traces of diluvial actions" Scripture: "we had, in our sacred histories, the record of a general de	luge"
BUT	
<u>CONCORDIST</u> approach to the Two Divine Books	
QUESTION	S3
is there a <b>NON-CONCORDIST</b> approach to the Two Books?	
☞ a hermeneutic for the Biblical Flood Account (Gen 6-9)	<del>)</del> )
that <u>does not</u> look for scientific & historical facts?	
CONCLUSION: The Beginning of Geology 1. Science IMPACTS Religion around 1700: geologists believed that the global flood explained all stratified rocks	S4
by 1825: global flood had NO place in geology	
QUESTION is this an example of science destroying of religion? OR is this a call to re-evaluate the hermeneutics of Biblical Flood Account (Gen 6	S5 5-9)?
2. Age of earth is very old (millions of years)	S6
great amount of time needed for stratification	50
3. Geology is starting to separate away from theology scientific & historical concordism with Biblical Flood Account is starting to break dow	s7 m
<b>D. 19th Century Modern Geology</b> (1825-1900)	<b>S</b> 8
<b>Charles Lyell &amp; the Principle of Uniformitarianism</b> (1797-1875)	S9
considered the father of modern geology <i>Principles of Geology</i> 3 vols (1830-1833) Darwin boarded HMS Beagle in 1831 with Volume 1 HUGE IMPACT on Darwin	
Recycles Hutton's Principle of Actualism (with a subtle qualification)	S10
PRINCIPLE OF UNIFORMITARIANISM	510
explaining the earth's past through the processes observed on earth today using the same forces & same intensities	
NOTE: Lyell was a deist & an ANTI-EVOLUTIONIST!!!	S11
Darwin was scared to tell him about the theory of evolution	511
Geological Mapping & ColumnS12quite refined by 1850basic outline we have today $NB \rightarrow \underline{before} \ Origin \ of \ Species (1859)$ geological map put together by ANTI-EVOLUTIONISTS!!!	2 H26

<u>Features of Geological Column</u> • sequential order of the strata across Europe	S2
some layers might be missing → BUT the layers are never out of sequence <u>GLOBAL FLOOD PREDICTION</u> : strata should be very asymmetrical & haphazard	
distinctive fossils appear in each strata termed "Index Fossils" eg dinosaurs are never found in rock layers with humans CLODAL FLOOD BREDICTION:	S3
<u>GLOBAL FLOOD PREDICTION</u> : mixing of fossils eg, dinosaurs & humans should be found in SAME strata	
<ul> <li>fossils appear in a progressive pattern from simple organisms in lower strata → to more complex organisms in higher strat BUT no gradual change in organisms was noticed (at that time)</li> </ul>	S4 ta
Therefore: most scientists believed in divine interventions for creation of life <b>Progressive Creation →</b> Science-of-the-Day <b>●</b> most scientists were ANTI-EVOLUTIONISTS	
Professionalization of Geology specialized journals, societies, university departments, etc. produces a Fragmentation of Knowledge splits academic geological scientists & common amateurs	S5
Theological Responses to 19 th Century Geology two basic responses: (1) anti-geologists: untrained amateurs (2) harmonisers: professional geologists	S6
<ol> <li><u>ANTI-GEOLOGISTS</u> <ol> <li>1st part of 1800s</li> <li>defend a global flood &amp; a young earth</li> <li>most were NOT scientists</li> <li>BUT self-appointed "scientists"</li> </ol> </li> </ol>	S7
<ul> <li>ARGUMENTS:</li> <li>Ad Hominem Arguments (Latin: against the human) spiritual: professional geologists practised "infidel science" intellectual: professional geologists were incompetent</li> </ul>	<b>S</b> 8
<ul> <li>Science Ignores the Possibility of a Global Flood Argument BUT they do not appreciate history of geology 150 years earlier the global flood was the geology-of-the-day</li> <li>T FAILED</li> </ul>	S9
• Appearance of Age Argument God created world to look old BUT an admission of age!!!	S10

## COMMENTS:

all these arguments are used by Young Earth Creationists today

2. <u>HARMONIZERS</u>	S2
last 2/3s of 1800s	
many of the best geologists of the day	
last chapters of their geology books often have a theological chapter	
accepted scientific concordism & tried to align (harmonize) Geology & Gen 1	
Gap Theory	S3
minority position	
millions of years of geological time put in "gap" between Gen 1:1 & 1:3	
Gen 1:1 <u>INITIAL CREATION</u> "In the beginning God created the heavens and the earth"	S4
Gen 1:2 <u>DETERIORATION OF THE EARTH</u> "The earth BECAME formless and empty" Hebrew language allows for translation "became" a gap or period of millions of years long	
Gen 1:3 SECOND CREATION	
"God said, 'Let there be light.'	
re-creation of the world in 6 literal days	
<b>Global Flood</b> $\rightarrow$ only caused surface effects	
	~ <b>-</b>
<b>Day-Age Theory</b> aka Progressive Creation	S5
majority position days of Gen 1 = geological periods millions of years long	
both Gen 1 & the fossil record have:	
living organisms appear from simple to more complex	
	different
God created plants & animals progressively & intervened at	umerent
points over million of years	
WHY?	1
fossil record sparse & transitory fossils not yet disco	overea
Local Flood → Mesopotamian Plain between Tigris & Euphrates Rivers	
EG James Dana (1813-1895) by the end of the 1800s harmonisation dies out	S6-7 H26
geology books no longer have a religious final chapt	er
CONCLUSION: 19 th Century Modern Geology	<b>S</b> 8
1. Science IMPACTS Religion	
Divine Action	
No God-of-gaps in Geology WHY?	
natural processes can explain all the features in the earth's crust	
Biblical Interpretation	S9
No Gap Theory before 1800s WHY?	
the exceedingly old age of the earth was only established in 1800s	
No Day Age Theory before 1800s WHY?	
the geological column was only established in the 1800s	
2. By the 20 th century, Geology is completely free from Religion & the Biblical Flood	S10

Flood 1 Ep	
IV. CONCLUSION: BRIEF HISTORY OF GEOLOGY & THE BIBLICAL FLOOD See Summary Chart in handouts page 27	D S2 S3-4 H27
1. Science IMPACTS Religion	S5
• Geology shifted the understanding of God's action in the world	
Interventionism $\rightarrow$ Providentialism $\rightarrow$ None (Graph A)	S6 H27
God-of-the-Gaps FAILS	
<ul><li>discovery of natural processes explains the formation of the earth</li></ul>	
• Geology shifted the interpretation of the Biblical Flood Account (Gen 6-9)	S7
Global Flood $\rightarrow$ Local Flood $\rightarrow$ NO Flood (Graph B)	S8 H27
Scientific & Historical Concordism FAIL	
<ul> <li>Biblical Flood does not align with geological data</li> </ul>	
2. Christian geologists tried their best to align geology & the Biblical Flood Account	S9
Geology was not an anti-God movement $\rightarrow$ a majority of geologists were Christians	
BUT they discovered that Scientific & Historical Concordism FAIL	
3. THE QUESTION: Did Geology DAMAGE Religion? Answer: Yes & No	S10
YES	S11
if one accepts <u>common</u> CONCORDIST hermeneutics	
assumes the Biblical Flood Account features Scientific & Historical Concordism	
EG 60% Americans believe in Global Flood	
NO	S12
if one accepts <u>academic</u> NON-CONCORDIST hermeneutics science <b>improves</b> biblical interpretation	
EG Sir Francis Bacon	S13 H78
"the latter [science] is a key unto the former [Scripture]" Principle #11	515 11/0
Galileo	S14
"physical conclusions [are] appropriate <b>aids</b> to the correct interpretati	
Scripture" Q11 N107	011 01
• science assists to identify incidental ancient features in the Bible	S15
EG modern astronomy reveals: there is no 3-tier universe	S16 H6
astronomy in Scripture is ancient	
scientific concordism NOT possible	
Modern Geology reveals: there never was a global flood	S17
scientific & historical concordism NOT possib	le
geology improves interpretation of the biblical flood account (Graph C	C) S18 H27
<ul><li>biblical flood account must have incidental ancient features</li></ul>	
in the next subsection we will identify some of these feature	ires
• science focusses our attention to the Messages of Faith	S19
NO	S20
geology improves the Intelligent Design Argument (Graph D)	S21 H27
The Rare Earth Theory by Peter Ward & Donald Brownlee	S22
"just right" geological features for life to exist on earth $\rightarrow$ some listed in SQ	6

	Flood 2 Episode 131
V. WHAT ABOUT NOAH'S FLOOD?	S2
1. Global Flood Theory	S3
Position of Young Earth Creation	
Date of Flood: 2344 BC/E	
determined by adding up biblical genealogies	
date of creation: 4000 BC/E	
period from creation to flood: 1656 yrs (Gen 5 genealog	gy)
EG John Whitcomb & Henry Morris, The Genesis Flood (1961)	S4
<ul> <li>this book launched the modern Young Earth Creationist movem</li> </ul>	lent
ARGUMENTS FOR A GLOBAL FLOOD	S5
natural, common sense & traditional (1500 yrs) interpretation of biblical	
<ul> <li>intention of the human authors</li> </ul>	nood account
• 300+ flood accounts throughout the world	S6 H28
evidence for a worldwide flood & it was remembered by those in the	
through their descendants who repopulated the entire world	I
ARGUMENTS AGAINST A GLOBAL FLOOD	S7
History of Geology & Biblical Flood	57
global flood was the central paradigm of geology around 1700	
BUT as geological evidence increased it did not support a global	flood
<ul> <li>a majority of geologists were Christians</li> </ul>	
NOT a conspiracy against religion	
• Size of the Ark	S8
not enough room in ark for pairs of all species & their food for 1 year	
dimensions of ark:	<b>S</b> 9
length: a little longer than a football field	
width: inside the numbers on the field	
height: 15 ft above the goal posts	
EG Brachiosaurs	S10
90 ft long, 20 ft tall at the shoulder, 50 tons	
250 lbs of plant matter for food each day	
30 species → room for 60 (males & females) on the ark? food for 1 year?	
Archeological & Historical Records	S11
nations living throughout the world prior to the 2344 BC/E flood date	2
NO evidence they were completely wiped out	
NO evidence of a Global Flood Layer between ancient nations &	recent nations
Geological Record	S12-16 H52
NO evidence of a Global Flood Layer	
Fossil Pattern Prediction of a global flood does not align with the	e fossil record
a worldwide flood should cause the mixing of all creatures	
EG humans & dinosaurs bones should be found together in the g	eological record

2. Local Flood Theory	S
Position of Progressive Creation	
flood was limited to the Mesopotamian Flood Plain between the Tigris & Euphrates River	rs
"all" the earth being flooded = all the earth in a local region	
flood water above the "highest" mountains = highest hills in local region	
Hebrew word <i>har</i> can mean either a mountain or a hill	

EG Hugh Ross, Navigating Genesis: A Scientist's Journey through Genesis 1-11 (2014) S3

#### ARGUMENTS FOR A LOCAL FLOOD

 Harmonizes Scripture & Science concordist hermeneutics is intuitively satisfying for many Christians
 concordism is natural & reflects our epistemological category of correspondence

Geological Evidence for Local Floods in the Southern Mesopotamian Flood Plain S5 one of the flattest places on earth S6 H28 40,000 sq miles & less than 150 ft of vertical elevation numerous layers of flood sediment between Tigris & Euphrates Rivers S7 H28 many of these layers are between archaeological sites of habitation indicating that local floods have completely destroyed villages/towns: Ur (12 feet thick) Uruk (5) Shuruppak (2)

radiometric dating of sediments not far from literal biblical dates: 3500-2500 BC/E • one massive flood sediment dated to 2800 BC/E

#### ARGUMENTS AGAINST A LOCAL FLOOD

Kish (1) Lagash (1)

- Why Build an Ark?
  - 15. "Rain fell on earth for forty days and forty nights ... For forty days the flood kept coming on the earth." Gen 7:12, 17

#### COMMENT:

IF a local flood takes 40 days to cover hills in the Mesopotamia, THEN, why bother with building an ark? GO TO HIGHER GROUND!!!

- Identification of Mountains Covered in the Biblical Flood account
  - 16. "For forty days the flood kept coming on the earth they lifted the ark high above the earth ... They rose greatly on the earth, and all the high mountains under the entire heavens were cover. The waters rose and covered the mountains to a depth of more than twenty feet ... The ark came to rest on the mountains of Ararat. The waters continued to recede until ... tops of the mountains became visible." Gen 7:17, 19; 8:3-5
    - COMMENT:

Ararat Mountains are like the Rockies (12-16,000 feet)

Therefore: NOT hills in the Mesopotamian flood plain

biblical flood is NOT local  $\rightarrow$  but worldwide

**S**8

S4

S9

Flo	od 2 Episode 133
3. Re-Cycled & Re-Interpreted Flood Motif Theory	S2
Position held by a majority of Old Testament scholars	
QUESTIONS	S3
<ul> <li>where do civilizations first appear? ANSWER: on the banks of rivers EG Mesopotamia (Tigris &amp; Euphrates) Egypt (Nile)</li> </ul>	
• what do these rivers do? ANSWER: often flood their banks deposit sediment rich with nutrients for agriculture	
<ul> <li>how would a flood that destroyed a community be perceived by ancient peop ANSWER: judgment of God/s</li> </ul>	ple? S4
EG: how are destructive storms, thunder, and lightning perceived by anci ANSWER: divine interventions from an upset God/s just overhea	
MORE QUESTIONS	S5
<ul> <li>what would happen if ancient people experienced a flood that destroyed their ANSWER 1: survivors would tell flood stories &amp; interpret the event EG survivor stories of 2004 Tsunami many theological interpretations → God saved</li> </ul>	
ANSWER 2: stories would become part of the Oral Tradition of the com <b>history-of-the-day</b>	munity
<ul> <li>how would a worldwide flood be interpreted by the Hebrews?</li> <li>ANSWER 1: a releasing of water from the heavenly sea of the "waters a</li> </ul>	S6 Ibove"
17. On the first day of Noah's flood:	
"the floodgates [literally: windows] of the heavens were op ie, gates/windows in the firmament	oened." Gen 7:11
ANSWER 2: return to pre-creative state in Gen 1:2 & reversing of 2 nd Da when God separated waters above & waters below	ay of Creation S7 H6
CONCLUSION: flood accounts have <b>REAL HISTORICAL</b> events behind them of: (1) an actual destructive flood	S8
(2) actual people who survived & told their story & <b>INTERPRETATION</b>	I of the event
A. ARCHEOLOGICAL & HISTORICAL EVIDENCE	S9
Flood Accounts across the World	S10 H28
300+ accounts in regions susceptible to flooding EG rivers, tsunamis, flash floods near mountain ranges	S11 H28
Therefore, flood accounts are: NOT accounts of Noah's flood passed down through Noah's three sons BUT originate from the <u>common experience</u> of flood events three	
Flood Accounts in Ancient Mesopotamia	S12
1. Sumerian Flood (2000-1700 BC/E)*	
2. Flood Tablet (1900-1700 BC/E)	
3. Epic of Atrahasis (1700 BC/E)*	
4. Epic of Gilgamesh (1600 BC/E)*	
*the flood hero comes from Shuruppak	S13

Flood 2 Episod SIMILARITIES between Mesopotamian Flood Accounts & Biblical Flood Account:	<b>ie 134</b> S2
-	52 53 H29
warning to build a boat & its construction by the flood hero	
flood destroys all life on earth	
preservation of the hero, his family & animals in the boat	
hero sacrifices to God/s, who smell/s the offering	
use of stylistic numbers 7 & 60	
	54 H29
boat lands on a mountain after the flood	
dove & raven used to determine if the earth is dry	120.22
7 day periods for the bird reconnaissance S5 H	130-32
THE QUESTION	<b>S</b> 6
too many similarities to be coincidental, who borrowed from who?	
(1) Mesopotamians borrowed from Hebrews	
OR (2) Hebrews borrowed from Mesopotamians	
(2) Hebrews borrowed from Mesopotalinans	
(1) <u>MESOPOTAMIANS BORROWED FROM HEBREWS</u> position of Christian tradition & Young Earth Creation	S7
ASSUMPTIONS:	
#1 global flood required so oral account of flood can descend thru Noah's	sons
BUT $\rightarrow$ NO scientific evidence for a global flood	
#2 major civilization (Mesopotamia) would inherit an account from a sma	ll S8
insignificant tribe (Hebrews) & then make it a major part of their histor	ry
BUT → seems doubtful	
EG when Europeans came to North America did they incorpor	rate
the oral traditions of indigenous people in their view of hi	story?
(2) HEBREWS BORROWED FROM MESOPOTAMIANS	S9
position of many Old Testament scholars	
ARCHEOLOGICAL & HISTORICAL EVIDENCE:	
• Mesopotamians <b>pre-date</b> the Hebrews by over 2000 years!	
1 st city (Uruk) population 10,000+ → 3500 BC/E 1 st archeological evidence of Hebrews → 1200 BC/E (Merneptah Ste	10)
-	·
• Mesopotamian flood accounts <b>pre-date</b> (2000-1600 BC/E) the Biblical Flood Account (composed between 1000 to 500 BC/E; see below)	S10
ASSUMPTIONS:	S11
#1 Hebrews borrowed the Flood Motif from Mesopotamians	
<b>#2</b> under the <b>inspiration of the Holy Spirit</b> they replaced the pagan theol with their Spiritual Truths	ogy
#3 Flood Motif is an <b>incidental vessel</b> that transports <b>Messages of Faith</b>	
<b>NB NB NB</b> re-cycling & re-interpreting accounts was common in ancient Near East (A	S12
EG Babylonian creation account <i>Enuma Elish</i>	and)
Assyrians replaced Babylonian god Marduk with their god As	ssur

Flood 2 Episo	de 135
B. ORIGIN OF THE BIBLICAL FLOOD ACCOUNT (GEN 6-9)	S2
(1) Real Destructive Floods & Real Flood Survivors	S3
floods actually happened in Mesopotamia between Tigris & Euphrates Rivers	
Evidence: numerous flood deposits	
some people survive to tell their story	
these stories become part of the Oral Traditions (oral history) of the community	
(2) Ancient Historiography Greek historia "history" graphō "to write"	S4
DEF: the writing of history by ancient people	
ancient understanding of history → history-of-the-day (like the science-of-the-	-day)
In writing the history of their community, the Mesopotamians included flood stories drawn from their Oral Traditions	
major destructive floods would have been an important part of their his	story
NOTE: ALL histories, both ancient & modern, include metaphysical interpretations the historical reality of a great flood/s in Mesopotamia was <b>interpre</b> through their pagan theology	S5 eted
(3) Hebrews Appear LATE in ANE & Inherit the Flood Motif	S6
most likely in an ORAL form	
worldwide flood is part of the history-of-the-day in ANE	
(4) Hebrews RE-CYCLE & RE-INTERPRET the Flood Motif	S7
under the inspiration of the Holy Spirit the Hebrews remove:	S8 H29
• the multiple gods of the Mesopotamians	
<ul><li>replace them with the one holy God of the Hebrews</li></ul>	
• the reason of Mesopotamian flood $\rightarrow$ gods couldn't sleep because humans too	noisy!
• replace with the reason for biblical flood $\rightarrow$ widespread human sin	
IF first in an ORAL form,	
THEN it would have been easy to change & reinterpret	
EG Darwin's Origin of Species (1859)	S9
most Christians have never read it	
BUT there is an oral tradition in churches that it is an atheistic b	ook
Main Motif:	
remains intact $\rightarrow$ biological evolution	
Metaphysics (Theology): changes from deism → atheism	
changes nom dersin – attersin	
(5) Hebrews Become Literate & Write TWO Flood Accounts	S10
archeological evidence for Hebrew literacy roughly about 1200 BC/E	
1 st account around 1000 BC/E	
termed: Jahwist (J) Flood Account	
2 nd account around 500 BC/E	
termed: Priestly (P) Flood Account	
(6) Redactor (Editor) Puts J & P Flood Accounts Together to Form Genesis 6-9	S11
roughly around 500 BC/E	

	BIBLICAL FLOOD ACCOUNT (GEN 6-	
EG conflicts in creation events betwee SOLUTION: Gen 1: Priestly (P)		S3 Notes 50
Gen 2: Jahwist (J)		
	more complicated than juxtaposing two	accounts S4-5 H33
	verses $\rightarrow$ P verse, then J verse, then P	
• Event Conflicts		S6 H34
two different divine orders to		
EG take: "two of every	ry kind of bird"	
	tering the ark & the beginning of flood	
EG enter ark & the floo		
	the same day	
• Chronology Conflicts		S7 H34
	d of days for events do not align	57 1154
	e flood to the landing on Ararat Mounta	ins
using Noah's ag	-	
using days ment	tioned for events: 340 days	
• Coherence of the J & P Flood A	Accounts	S8 H35 (J) H37-38 (P)
REASSEMBLED J & P acco	ounts stand on their own & make perfec	
NB: a chiasm appears i	in the P flood account	S9 H37-38 (P) & H47
• Distinct Linguistic Features in t	the J Flood Account	S10 H36
J author → Divine name "Lo		
phrase "never again wi	Ill I repeat to" (2X)	
stylistic numbers 7 & 4	40	
• Distinct Linguistic Features in t	the P Flood Account	S11 H39
P author → Divine name "Ge	od" ( <i>'Elōhîm</i> )	
"covenant" (9X)		
stylistic number 5		
• Similar Linguistic Features in t	he J Flood & J Creation (Gen 2) Acco	ounts S12 H36 (J)
an indication both were write	2	
notable terms that are similar	r: Divine name "Lord" (Yahweh)	
	"man/husband" ('ish) & "woman/wif	fe" ('issah)
• Similar Linguistic Features in t	he P Flood & P Creation (Gen 1) Acc	ounts S13 H39 (P)
an indication both were write	ten by the same author	
notable terms that are similar	r: Divine name "God" ( <i>'Elōhîm</i> )	
	"male" (zākār) & "female" (neqēbah)	
	"according to its/their kind/s"	
	"Image of God"	SUGGESTION S14
ADVANTAGES OF RECOGNIZING SOUL	RCES IN BIBLICAL FLOOD ACCOUNT	S15
	$2 \rightarrow$ conflicts in the events of Gen 6-9 a	
	away from the events to the Spiritual T	
	ts have the <u>same</u> MESSAGES OF FAIT	
(1) God judges l	humans for sin & (2) God saves the righ	teous person

VI. THE <b>BIG</b> QUESTION: WHO WAS NOAH?	S2
ANSWER: Noah is the creation of re-cycling & theological re-interpreting	S3
• there were real Mesopotamian floods & real Mesopotamian flood survivors	
• the Mesopotamians interpret these events in light of their pagan theology	
• they write their flood accounts & focus on one central flood hero	
Hebrews RE-CYCLE & RE-INTERPRET the Mesopotamian flood accounts	
the Mesopotamian flood hero is MORPHED into the flood hero of the biblica flood account → Noah	.1
NB: Noah is NOT a literary invention or fictional character in an allegory or fictional story P author, J author & Redactor believed → Noah was a real person	S4
Think like the ancient Hebrews	S5
They would have argued: YES, there really was a worldwide flood, everyone knows that! BUT NO	
it was not launched because noisy humans stopped the gods from sleeping INSTEAD	
it was launched by the God of the Hebrews because humans were si	nful
YES, there really was a man, his family & animals saved in an ark <u>BUT NO</u>	S6
it was not the pagan flood heros Ziusudra, or Atrahasis, or Utnaphishtim INSTEAD	
it was the only righteous man $\rightarrow$ Noah who was saved by the Hebre	w God
Modern Example of Re-Cycling & Re-Interpreting: Evolutionary Creation Evolutionary creationists argue:	S7
YES, living organisms originated through biological evolution, every biologist knows BUT NO	s that!
it is not a dysteleological process INSTEAD	
it is a process that was ordained & sustained by God	
The Message-Incident Principle: New Application	S8
Message of Faith	S9 H40
(1) God judges humans for sin	
(2) God saves the righteous person	
Noah $\rightarrow$ Typological (an example) of a righteous person who obeyed God	S10
<b>GREAT FLOOD MOTIF</b>	S11 H40
ancient historiography & based on an ancient phenomenological perspective	
the history-of-the-day in the ANE	
an ancient understanding of history	
used as an incidental vessel to deliver Spiritual Truths	
the Holy Spirit <b>accommodated</b> & allowed the Mesopotamian flood accounts & the flood have to be no evaluat & resintermented into the hibling flood account & Neak	
flood hero to be re-cycled & re-interpreted into the biblical flood account & Noah	L

# **THE BOTTOM LINE:** The biblical man Noah never existed!S12-13

<b>EVOLUTION &amp; DARWIN'S RELIGIOUS BELIEFS</b>	S2
I. KEY THOUGHTS	S3
1. Darwin offers a great theological story! he struggled with God throughout his life	S4
Hebrew word Isra/el:	S5
שִׁיָר (sārāh) to struggle, persist	
שְׁרָה ( <i>sārāh</i> ) to struggle, persist ( <i>'ēl</i> ) God	
1. "Your name will no longer be Jacob, but Israel, because you have struggled with God and with men and have overcome." Gen 32:28 <u>COMMENT</u> : struggle is a good & essential part of the spiritual voyage	
<u>Personal</u> : is struggling with God part of your story?	
2. Darwin's story reveals that intellectual baggage from a university education can be a problem UNCRITICALLY, he accepted William Paley's view of Intelligent Design at Cambridge U Paley's interpretation of ID = living organisms are <u>fitted perfectly</u> in nature Subtle Implication: ID is static (not dynamic/evolutionary) → IMPACTS Darwin for 40 yrs <u>Personal</u> : what baggage are YOU <u>uncritically</u> accepting in YOUR university education? acceptance that nature is dysteleological?	
rejection of Intelligent Design?	
<ul> <li>3. A major part of Darwin's story was his struggling with Intelligent Design nature struck Darwin with "overwhelming force" throughout his life (see Quote 36)</li> <li> Argument from Nature to Design I will term this experience the "Psalm 19 Factor"</li> <li>Personal: do "the heavens (&amp; biology) declare the glory of God?" Ps 19:1</li> </ul>	S7
OR	
is Intelligent Design nothing but an illusion?	
<ul> <li>4. Richard Dawkins Thesis &amp; Lamoureux Anti-Thesis Dawkins claims: <ol> <li>"Darwin made it possible to be an intellectually fulfilled atheist."</li> </ol> <i>The Blind Watchmaker</i>, 6. </li> </ul>	S8 S9
	510
<b>3.</b> "Darwin made it possible to be an intellectually fulfilled <b>THEIST</b> ." "Darwinian Theological Insights" <i>Perspectives on Science</i> & <i>Christian Faith</i> (Jun 2012) 108-19 (Sep 2012) 166-78	
<u>COMMENTS</u> : NO attempt to "Christianize" Darwin INSTEAD: an attempt to draw <b>Theological Insights</b> from Darwin WHY? Darwin thought seriously about religion & evolution	-
Personal: who do YOU believe is correct, Dawkins or Lamoureux?	

BRIEF HISTORY OF CHARLES DARWIN (1809-1882)	in 1 Episode 13 S
809	S
born 12 February at Shrewsbury, England <u>Family Life</u>	
raised with a <u>wide</u> variety of beliefs:	
• grandfather Erasmus was a famous deistic evolutionist	
• father Robert & brother Erasmus were religious skeptics	
• mother Susanna (dies when Charles was 8 yrs old) was a Unitarian	
Unitarians do not believe Jesus was God, but only a man	
• sisters were religious & brought Charles to an Anglican church (conservat	tive Christianity
<ul> <li>educated in an Anglican day school</li> </ul>	
826	S
studies medicine at Edinburgh University, but drops out	
828-1831	S
studies theology at Christ College in Cambridge University, but decides not to be	
831	5
Dec 27 begins 5 year voyage around the world on HMS Beagle	
836	
returns to England Oct 2	
837-1838	:
1 st Period of Religious Reflection	
<ul> <li>rejects Christianity, but not God</li> </ul>	
Notebooks on Transmutation [Evolution] of Species	
outlines his theory of evolution	
838	
health begins to break down	
can only work 4-5 hrs/day rest of his life	
839	
marries his cousin Emma Wedgewood & they have 10 children $\rightarrow$ 3 die	
859	
Origin of Species	
Theory of Evolution by Natural Selection	
860-1861	S
2 nd Period of Religious Reflection	
struggles intensely with intelligent design	
871	S
Descent of Man	
public presentation of human evolution	
876	S
Autobiography of Darwin	
mature views on religion in section entitled "Religious Beliefs"	
882	S
	01

III. CAMBRIDGE UNIVERSITY (1828-1831) Charles drops out of medicine & father sends him to theology school he doesn't want a family disgrace	S2
4. "I did not then in the least doubt the strict literal truth of every word in the Bible."	S3
Darwin, <i>Autobiography of Charles Darwin</i> N Barlow, ed (London: Collins, 1958), 57	
<u>COMMENT</u> : Darwin was a biblical literalist BUT	
Did Darwin fully grasp his beliefs & their implications? OR	
Did he simply absorb them uncritically from the religious culture?	
William Paley (1743-1805)	S4
• his famed book was required reading: Natural Theology: Or Evidences for the Existence and Attributes of the Deity, Collected from the Appearances of Nature (1802)	т
Natural Theology = Natural Revelation = Intelligent Design a classic example of the Argument from Nature to Design	
<ul> <li>stimulates Darwin to start defining his worldview claims Paley was the best part of his Cambridge U education</li> <li>Darwin powerfully impacted by ID</li> </ul>	
• late in life (1876) Darwin confesses:	S5
5. "I did not at that time trouble myself about Paley's premises; and taking these on trust	~
I was charmed and convinced by the long line of argumentation." <i>ACD</i> , 59	
PALEY'S PREMISES (CATEGORIES) OF NATURE (1) Intelligent Design	S6
nature reflects the purposeful design of the Creator	
(2) Perfect Adaptation	
everything in nature fits together PERFECTLY	
again late in life ( <u>1871</u> ) Darwin confesses:	<b>S</b> 7
6. "I was <b>not</b> able to annul the influence of my former belief, then <b>almost</b>	
universal, that $\star$ each $\star$ species had been purposely created; and	
this led to my <b>tacit</b> [silent] <b>assumption</b> that $\star$ every $\star$ detail of	
structure, excepting rudiments, was of some special, though	
unrecognized, service." Darwin, Descent of Man (NY: Appleton, 1886 [1871]), 61	
COMMENTS:	<b>S</b> 8
• Paley's world is <b>STATIC</b> by definition this is an anti-evolutionary world because every part in nature fits together perfectly & tightly	
<ul> <li>deeply embedded in Darwin's mind</li> <li>"not able to annul the influence my tacit assumption"</li> </ul>	1
Darwin often uses terms "each" & "every" indicative of Paley's Perfect Adaptation	
(3) Beneficence	S9

nature is good throughout

Darwin 1 Epis	
NB Paley's 3 Premises are CONFLATED	S2
Darwin will NOT be able to SEPARATE:	
(1) Intelligent Design	
FROM:	
(2) Perfect Adaptation	
(3) Beneficence	
Categorical Conflict Inevitable in the Mind of Darwin:	S3
Paley's View of Nature	
static & perfect & happy (anti-evolutionary)	
Darwin's Future Theory <b>dynamic</b> & wasteful & vicious (evolutionary)	
THE PROBLEM:	S4
Darwin uncritically accepted Paley's CONFLATED Premises	
they operate tacitly in his mind for 40 years $\rightarrow$ CONFLICT	
QUESTION:	
to use Darwin's words:	
What "premises" are YOU not "troubling YOURSELF about" and "takin	ng on
trust" in YOUR university education?	
this includes my course!	
Casherry	95
Geology	S5
a passion begins	
during the last year at Cambridge U	
Darwin goes on a geological field trip with Adam Sedgwick	
he has an "epiphany"	
gripped by how science works:	
7. "Nothing before had ever made me thoroughly realize, though I had read	<b>S</b> 6
various scientific books, that science consists in grouping facts so that	
<b>general laws</b> or conclusions may be drawn from them." ACD, 70	
COMMENTS:	
Inductive Method	
"grouping facts" → "general laws"	
• there is an experiential aspect to science beyond books	
scientific discovery is PERSONAL	
CONCLUSION: Cambridge University	S7

1. Darwin begins to take ownership of his worldview	
2. Darwin is steeped in Paley's Natural Theology	S8
developing more of a philosophical faith than a religious faith	
will lead eventually to deism	
3. Darwin is falling in love with science!	S9

D	Darwin 1 Episode 142
<b>IV. HMS BEAGLE VOYAGE</b> (27 Dec 1831 to 2 Oct 1836) 5 year voyage around the world	S2 S3 & H40
Geology	S4
Darwin leaves with Charles Lyell's 1 st volume of <i>Principles of Geology</i> (1830 in Brazil he has excellent geological field experience sees the raising of ground 2-10 ft during earthquakes	))
converts to Lyell's geological <b>Principle of Uniformitarianism</b> : explaining the earth's past through the processes observed on earth toda forces & same intensities	y using the same
8. "When I was starting on the voyage of the Beagle, the sagacious	Henslow S5
[Darwin's former professor], who, like all other geologists beli	eved at that time
in successive cataclysms, advised me to get and study the first	volume of the
Principles [of Geology], which had just been published, but on	no account to
accept the view therein advocated I am proud to remember	that the first place,
namely, St Jago, in the Cape Verde Archipelago, which I geolog	gised, convinced
me of the infinite superiority of <b>Lyell's view</b> over those advoca work known to me."	ted in any other <i>ACD</i> , 101
<u>COMMENT</u> : Catastrophism was part of geology around 1800	
Biology Progressive Creation	S6
science-of-the-day in the early 1800s	
scientists accepted the age of the earth in the millions of years	
BUT living organisms were created by God:	
interventionistically & intermittently $\rightarrow$ God-of-the-gaps	
Late in the voyage (Jan 1836) Darwin notes a similarity between the Arin England & Australia	nt Lion pitfall (trap) S7
9. "Would any two workmen ever hit on so beautiful, so simple, &	yet so <b>artificial</b> S8
a contrivance [Ant Lion pitfall]? It cannot be thought so. The	one hand has
surely worked throughout the universe. A Geologist perhaps w	ould suggest that
the periods of Creation have been distinct & remote the one fi	rom the other;
	eagle in Works of Darwin on: Pickering, 1986), I:348
<u>COMMENTS</u> :	Sili Tilekering, 1900), 1.5 18 S9
<ul> <li>God is part of Darwin's science!</li> </ul>	
"The one hand" & "the Creator"	
• Darwin is a Progressive Creationist "periods of Creation" & periods "the Creator re	ested in his labor"
• Darwin believes that nature reflects intelligent des	ign
"so beautiful, so simple, & yet so artificial a co	ntrivance"
Contrivance	
DEF: something planned & designed	

# **Intelligent Design**

Late in the voyage (Sep 1836), Darwin acknowledges the IMPACT of nature:

10. "Amongst the scenes which are deeply impressed on my mind, none exceed in sublimity the primeval forests [of Brazil] ... [they] are temples filled with the varied productions of the God of Nature. No one can stand unmoved in these solitudes, without feeling that there is more in man than the mere breath of his body." Diary, 388

<u>COMMENTS</u> :	S3
let's interpret this passage using Biblical ID Categories (review Notes 92)	
The Revelation in Nature:	
• Active	
"deeply impressed on my mind" & "no one can stand unmoved"	
• Intelligible	
"feeling that there is more in man"	
the 'Something More' $\rightarrow$ teleological reality	
Non-Verbal revelation	
use of the word "feeling"	
• Universal	S4
"no one can stand unmoved"	54
Revelatory	
"varied productions" point to "the God of Nature"	
	<b>.</b>
PSALM 19 FACTOR	S5
Do the primeval forests of Brazil declare the glory of God?	
does nature reflect ID?	
OR III I A	
Was Darwin experiencing an illusion?	
"nothing but" social conditioning from his Cambridge education?	
Religion	S6
Christian Faith	
little evidence of a firm religious faith during the 5 year voyage in diaries, notes & letters	
Natural Theology strong philosophical faith & even part of Darwin's science → moving toward deism	
strong philosophical faith & even part of Darwin's science - moving toward deisin	
CONCLUSION: HMS Beagle Voyage	S7
1. God is part of Darwin's science	
still an anti-evolutionist & progressive creationist	
2. Darwin does not sense the tension between his:	<b>S</b> 8
Geology	
Lyell & Uniformitarianism	
natural-laws-only	
Biology	
Paley & Progressive Creation	
<ul> <li>God-of-the-gaps interventions for the creation of living organisms</li> </ul>	
QUESTION:	S9

IF the formation of the earth is understood only through natural processes, THEN shouldn't the formation of living organisms also be understood only through natural processes?

Darwin 1 Episode V. 1 st Period of Religious Reflection & Formulation of Theory of	
<b>EVOLUTION</b> (1837 & 1838)	S2
Darwin returns to England & begins to analyse scientific evidence collected during his voyage	;
<ul> <li>11. "During these two years [Oct 1836 to Jan 1839] I was led to think much about religion." ACD, 85</li> <li><u>COMMENT</u>: strong evidence that evolution &amp; religion are intimately related</li> </ul>	S3
A. <u>Rejection of Christianity</u>	S4
Darwin rejects: The Bible Miracles (Personal Interventionism)	
BUT he does <u>not</u> reject God	
Rejects the Bible	S5
12. "I had gradually come by this time [Oct 1836 to Jan 1839], to see that the Old	
Testament from its manifestly [clear] false history of the world, with the Tower	
of Babel [Gen 11], the rainbow as a sign [Gen 9], etc., etc., and from its attributing	
to God the feelings of a revengeful tyrant, was no more to be trusted than the	
sacred books of the Hindoos, or any barbarian." ACD, 85	
<u>COMMENTS</u> : Darwin assumes: HISTORICAL CONCORDISM is a characteristic of Gen 1-11 BUT: a <u>common</u> concordist hermeneutic he is not aware of an <u>academic</u> non-concordist approach to Gen 1-	S6
Darwin Lacked Hermeneutical Categories	
<ul> <li>Rejects Miracles (Personal Interventionism)</li> <li>13. "By further reflecting that the clearest evidence would be requisite to make any sane man believe in the miracles [ie, Personal Interventionism] by which Christianity is supported,</li> </ul>	S7
[1] that the more we know of the fixed laws of nature the more incredible	
do miracles become,	
[2] that the men at that time were <b>ignorant and credulous</b> to a degree almost	
incomprehensible by us,	
[3] that the Gospels cannot be proved to have been written simultaneously with the events,—that they <b>differ in many important details</b> , far too important	t

by such reflections as these [1-3], which I give not as having the least novelty or value, but as they influenced me, I came to **disbelieve in Christianity as a divine revelation**."

it seems to me, to be admitted as the usual inaccuracies of eyewitnesses;

# COMMENTS:

- Darwin rejects Christianity
  - BUT he does not reject God

in the next 3 quotes  $\rightarrow$  God part of Darwin's evolutionary science

ACD, 86

# Darwin 1 Episode 145

Darwin 1 Episod
• Darwin uses 3 <u>common</u> arguments against Divine Action & Christianity
[1] Science proves there are no miracles [Personal Interventionism]
"the more we know of the fixed laws of nature the more

more

S2

S3

S4

DARWIN'S ARGUMENT	
IF no cosmological interventions in origins & operations,	
THEN no personal interventions in the lives of people	
<u>NOT</u> necessarily true it is perfectly reasonable to: reject cosmological interventions & accept personal divine action, including: dramatic personal interventionism & subtle personal providentialism	
40% of US scientists believe God answers personal prayers that are "more than the subjective psychological effect of prayer" Larson & Witham, <i>Nature</i> (3 Apr 1997), 436 Notes Being scientists, they reject cosmological interventions	
BUT they experience & accept personal divine action	
CONFLATES cosmological & personal divine action	S6
[2] Stupid people believe in miracles S "men at that time were ignorant and credulous" <b>COUNTER-ARGUMENT</b> are the 40% of US scientists mentioned above stupid?	S7
<ul> <li>[3] The Bible has significant contradictions</li> <li>"Gospels differ in many important details"</li> <li>Darwin Qualifies:</li> <li>not "the usual inaccuracies of eyewitnesses"</li> <li>COUNTER-ARGUMENT</li> <li>contradictions can be evidence of authenticity</li> </ul>	S8
	S9 10
<ul> <li>Forensic Science &amp; Eyewitness Accounts Significant contradictions can often appear EG car accidents</li> <li>BUT the main event is remembered → Jesus rose from the dead instead of undermining Bible:</li> <li> <ul> <li></li></ul></li></ul>	11

incredible do miracles become"

**COUNTER-ARGUMENT #1** 

- The Gospels had an Oral Phase memory lapses leading to additions & deletions Therefore: contradictions are expected BUT oral accounts preserve the main idea → Jesus rose from the dead instead of undermining Bible: contradictions point to authenticity • Women in the Ancient World women were believed to be untrustworthy IF the empty tomb account is a fictional story THEN don't have women at the scene put the Pharisees, Pilate, the soldiers who crucified Jesus in the story • women at the tomb in these accounts points to authenticity **B.** FORMULATION OF A TELEOLOGICAL THEORY OF EVOLUTION source of information: Darwin's notebooks never intended to be published Therefore  $\rightarrow$  NO FUDGING THEME: Darwin adamantly rejects the God-of-the-gaps BUT he still believes in a God who creates through evolution → TELEOLOGICAL **Origin of Life through Laws of Nature** 14. "Astronomers might formerly have said that God ordered [ie, intervened], each planet to move in its particular destiny [eg, retrograde planetary motion]-In the same manner God orders each animal with certain form in certain country [ie progressive creation]. But how much more simple & sublime power [to] let attraction act according to certain law; such are inevitable consequences; let animals be created, then by the fixed laws of generation." Darwin, "B Notebook (Feb 1837 to Jan 1838)," G de Beer, ed "Darwin's Notebooks Transmutation of Species," Bull. Brit. Museum (Nat. Hist.), II (1960), 10 COMMENTS: • REJECTS God-of-the-gaps in the origin of living organisms • ASTRONOMY-BIOLOGY ANALOGY IF there is no need for a God-of-the-gaps in astronomy THEN there is no need for a God-of-the-gaps in biology **Origin of Humans through Evolution 15.** "Man in his **arrogance** thinks himself a great work worthy of the **interposition** [ie, a
  - divine intervention] of a deity, more humble & I believe truer to consider him created

from animals." COMMENTS:

- REJECTS God-of-the-gaps in human origins
- Darwin doesn't make his acceptance of human evolution public for 20-30 yrs Origin of Species (1859): 1 sentence Descent of Man (1871): an entire book

**S**8

**S**7

"B Notebook," 106

S9

S2

**S**3

**S**4

S5

# Darwin 1 Episode 147

# **Origin of Religion through Evolution**

Origin of Religion through Evolution	S2
16. A scientist is mistaken if he/she "says the innate knowledge of the creator has been	
implanted in us (individually or in race?) by a separate act of God [ie, by a divine	
intervention], and not as a necessary integrant part of his most magnificent laws,	
which we profane [ie, disrespect] in thinking [that God is] not capable to produce	
every effect of every kind which surrounds us." Notebook M (1838), 135-6	
COMMENTS:	S3
• REJECTS God-of-the-gaps in the origins of "Innate Knowledge of God" it is <u>not</u> "implanted in us by a separate act of God"	1
<ul> <li>ACCEPTS Teleological Evolution God creates through "his most magnificent [evolutionary] laws"</li> </ul>	
ACCEPTS Natural Revelation     acknowledges that humans have an "innate knowledge of creator"	S4
<ul> <li>ACCEPTS humans are "Hard-Wired BY God" Darwin is the 1st Evolutionary Psychologist &amp; he believed in God!</li> </ul>	
Darwin is not trapped in the false dichotomy of choosing between: God & evolutionary psychology	
GOD'S HARDWIRING is behind NATURAL REVELATION Darwin would reject EO Wilson's belief that God "exists" only in the brain see Note	
Darwin would be comfortable with " <b>The 3rd Hypothesis</b> " Evolutionary Psychology & Evolutionary Creation	N79
PSALM 19 FACTOR Do the "most magnificent laws" of evolution declare the glory of God? Does the process of evolution reflect ID?	S6
Was Darwin experiencing a real divine revelation in nature? OR	
Was Darwin experiencing nothing but an illusion?	
CONCLUSION: 1 st Period of Religious Reflection & Formulation of Theory of Evolution	<b>S</b> 7
1. Rejects Christianity, NOT God	<b>S</b> 8
2. Rejects the God-of-the-Gaps in origins	S9
3. Accepts a Creator	S10
4. Accepts teleological evolution	S11
5. Accepts natural revelation	S12

- 6. Accepts natural revelation arose through the Creator's evolutionary process S13 S14
- 7. God is part of Darwin's evolutionary science!

	Darwin 1 Episode 148
VI. ORIGIN OF SPECIES (1859)	S2
<ul><li> 20 year writing process</li><li> 7 references to the "Creator" (with a capital "C")</li></ul>	\$3
all positive & unapologetic	
• Key contribution to science providing a mechanism for evolution: <b>Natural Selection</b> subtitle:	
By Means of Natural Selection or the Preservation of Fa	voured Races in the Struggle for Life
The Creator Creates through the Laws of Nature	S4
17. "Authors of the highest eminence [ie, progressive creation of the highest eminence [ie] emin	ationists] seem to be fully
satisfied with the view that each species has been inde	ependently created. To my
mind it accords better with what we know of the laws	impressed on matter by the
Creator, that the production and extinction of the pas	st and present inhabitants of the
world should have been due to secondary causes like t	hose determining the <b>birth</b> and
death of the individual." Darwin, Origin of Sp	pecies (Harvard U Press, 1964[1859]), 488
COMMENTS:	\$5
• REJECTS God-of-the-gaps in the origin	n of living organisms
<ul> <li>REJECTS Progressive Creation → scie "Authors of the highest eminence"</li> </ul>	ence-of-the-day
• ACCEPTS Teleological Evolution "the laws impressed on matter by th	e Creator"
EMBRYOLOGY-EVOLUTION ANALOGY IF	S6
God does not use God-of-the-gaps mirac creature today, THEN	les to create <b>each individual</b>
God did not use God-of-the-gaps miracle	es to create all creatures in the past
IF God creates <b>each individual creature</b> to THEN	oday through natural processes,
God created <b>all creatures</b> in the past thr	ough natural processes
Alludes to Human Evolution	S7
<b>18.</b> "In the distant future I see open fields for far more impo	ortant researches. Psychology
will be based on a new foundation, that of the necessa	ry acquirement of each mental
power and capacity by gradation. Light will be through	wn on the origin of man and
his history."	Origin, 488
COMMENTS:	S8
only reference to human evolution	
Darwin very respectful of religious	people

• Darwin fully aware of the implications of human evolution psychology must become **Evolutionary Psychology** 

# Darwin 1 Episode 149

Famous Last Sentence of Origin of Species	S2
<b>19.</b> "There is <b>grandeur</b> in this [evolutionary] view of life, with its seve	eral powers, having
been originally breathed into a few forms or into one; and that,	whilst this planet has
gone on cycling according to the fixed law of gravity, from so sin	nple a beginning endless
forms most beautiful and most wonderful have been, and are be	eing, evolved." Origin, 490
COMMENTS:	\$3
• 2 nd edition (1860) to 6 th edition (1872) Darwin chan	nges:
"originally breathed" to "breathed by the Crea	ator"
PSALM 19 FACTOR	S4
Does the "grandeur" of evolution creating living org beautiful & most wonderful" declare the glory of Go does the process of evolution reflect ID?	
Not-So-Well-Known Second Last Sentence	S5
20. "Thus, from the war of nature, from famine and death, the most e	exalted object which
we are capable of conceiving, namely, the production of higher an	imals, directly follows.
There is grandeur in this view"	Ibid.
COMMENTS:	
Darwin is fully aware that brutality & violence exist	s in nature
"war of nature" "famine" "death"	
DARWIN'S IMPLICIT THEODICEAN JUXTAPOSITION	S6
Theodicy	1
DEF: arguments justifying the existence of evil in a world all-loving, all-powerful, and all-knowing God	created by an
Key Word: IMPLICIT	S7
Darwin never says: "This is my theodicy"	5,
• when faced with the challenge of suffering & evil i juxtaposes it against his EXPERIENCE of ID in na	
EG 2 nd last sentence of Origin of Species (Q	
against last sentence (Quote 19)	also SQ 4
<ul> <li>for Darwin ID in nature is a response justifying su Darwin inspires me to believe:</li> </ul>	-
<ul> <li>Psalm 19 Factor Trumps Sufferin</li> </ul>	g
Book of Job famous biblical book on suffering → uses this argument Chapters 3 to 37	89
many attempts offered by his wife & 3 friends to u Chapters 38 to 41	-
God answers by pointing to nature $\rightarrow$ an ID argun	nent $\rightarrow$ God in control
CONCLUSION: Origin of Species (1859)	S10
1. Accepts a Creator	
2. Accepts teleological evolution	S11
3. God is part of Darwin's evolutionary science in his most famous boo	<b>s</b> k! S12

Darwin 2 Episode 150
VII. 2 ND PERIOD OF RELIGIOUS REFLECTION (1860-1861) S2 Darwin's colleagues raised questions regarding the theological implications of <i>Origin of Species</i> strong evidence that evolution & religion are intimately related S2
<u>THE ISSUE</u> S3         Intelligent Design in Nature
<u>THE PROBLEM</u> S4         Darwin tacitly holds Paley's understanding of ID       S4
Remember: Paley's Premises of Nature are CONFLATED: (1) Intelligent Design (2) Perfect Adaptation (3) Beneficence
Therefore: Darwin's CONCEPT of Design includes Paley's: (2) Perfect Adaptation (3) Beneficence
Paley's Perfect Adaptation:S5each & every detail in nature fit together PERFECTLYdeeply ingrained at a tacit level
Darwin is <u>NOT</u> fully aware of this until late in life (1870s) Notes 140-1
Problem with Conflation:S6"Package Deal" ProblemIF you reject one premise, THEN you reject them all
conflation $\rightarrow$ always leads to conflict
<u>THE CONFLICT</u> S7         Between:       • Darwin's <u>CONCEPT</u> of Design         conflated with Paley's Perfect Adaptation & Beneficence → he will reject BOTH
I Contracted with Tabley of Content Table Particular Content of the With Teject De Title I Content of the With Teject De Title
<ul> <li>Darwin's <u>EXPERIENCE</u> of Design impacted by the Non-Verbal Revelation in Nature (Ps 19 Factor)</li> <li>ACCEPT design</li> </ul>
THE RESULTS8leads to frustration, confusion & fluctuation
<u>THE QUESTION</u> S9 Did Darwin have a correct CONCEPT of Design? <b>NO</b>
The Traditional & Biblical view of ID has nothing to do with Paley's CONCEPT of Design it does not deal with Perfect Adaption
The Traditional & Biblical view of ID deals with the IMPACT of nature on humans S10

	Darwin 2 Episode 15
ay 1860 Letter to Asa Gray Harvard botanist & committed evangelical Christian	S
1 st North American scientist to promote Darwin's theory of evolution	
<ul> <li>Frustration &amp; Confusion</li> <li>21. "With respect to the theological view of the question. This is always</li> </ul>	s <b>nainful</b> to me
I am <b>bewildered</b> . I had no intention to write <b>atheistically</b> [in the Origin	•
Suffering in Nature #1 → REJECTS Design But I own I cannot see as plainly as others do, and as I should wish to do	evidence of
[1] <b>design</b> and [2] <b>beneficence</b> on <b>all sides of us</b> . There seems to me too	
the world. I cannot persuade myself that a beneficent and omnipotent	-
designedly created the Ichneumonidae [a wasp that lays eggs in caterpilla	
intention of their feeding within the bodies of caterpillars, or that a cat sl	
Not believing this, I see no necessity in the belief that the eye was expres	
The beneving unit, i see no necessity in the benef that the eye was explore	siy designed.
<u>Psalm 19 Factor</u> $\rightarrow$ IMPACTED by Nature	S
On the other hand, I cannot anyhow be contented to view this <b>wonderfu</b>	
and especially the <b>nature of man</b> , and to conclude that everything is the	result of <b>brute force</b> .
Design Theory #1 → ACCEPTS Design DESIGNED LAWS OF NATURE & C	HANCE S
I am inclined to look at everything as resulting from designed laws, with	the details,
whether good or bad, left to the working out of what we may call chance	. Not that this
notion <i>at all</i> satisfies me.	
Frustration & Confusion	S
I feel most deeply that the whole subject is <b>too profound</b> for the human	
might as well speculate on the mind of Newton. Let each man hope and	believe what he can.
Certainly I agree with you that my views are not at all necessarily athei	stical.
Suffering in Nature #2	S
The lightening kills a man, whether a good one or a bad one, owing to th	
complex action of natural laws. A child (who may turn out an idiot) is b	orn by the action
of even more complex laws, and	
Design Theory #2 → ACCEPTS Design DESIGNED LAWS OF NATURE & G	OD'S OMNISCIENCE S
I can see no reason why a man, or other animal, may not have been abori	
by other laws, and that all these <b>laws</b> may have been <b>expressly designed</b>	
[all-knowing] <b>Creator</b> , who foresaw every future event and consequence	•
[an-knowing] Creator, who foresaw every future event and consequence	<i>.</i>
Frustration & Confusion	S
But the more I think the more <b>bewildered</b> I become; as indeed I have pro-	bably shown by this
letter." Darwin to Gray (22 May 1860	· ·
of Darwin (London: Jo COMMENTS:	hn Murray, 1888), II: 311-3 S
• Evolution is NOT inherently <b>atheistic</b>	5
"no intention to write atheistically" "not at all necessarily	atheistical"
• The universe is NOT <b>dysteleological</b>	S
"wonderful universe" is not "the result of brute force"	51
wonderrur universe is not the result of brute force	

• Fluctuation	S2
REJECTS Design	
because of suffering in nature	
"too much misery in the world"	
ACCEPTS Design	
Impacted by Nature & Ps 19 Factor	
"wonderful universe" & "nature of man"	
Proposes Two Design Theories:	S3
(1) Designed Laws & Details to Chance	
"Not that this notion <i>at all</i> satisfies me." WHY? Paley's baggage → details part of ID	
	~ 4
(2) Designed Laws & God's Omniscience	S4
humans cannot fully understand all aspects of nature	
• DARWIN'S IMPLICIT THEODICEAN JUXTAPOSITION	S5
AFTER presenting the problem of suffering in nature & rejecting ID (2 times)	
Darwin JUXTAPOSES these with his EXPERIENCE of ID in nature	
<ul><li>for Darwin ID is a response to suffering</li></ul>	
• Frustration, Confusion & Fluctuation	<b>S</b> 6
beginning, middle & end of the letter	
"painful" "bewildered" "too profound"	
QUESTION:	S7
Is this a categories problem? YES	
Darwin has a <u>bad</u> CONCEPT of ID $\rightarrow$ Paley's view of ID	
ID conflated with Perfect Adaption & Beneficence	
EG "evidence of [1] design and [2] beneficence on all sides of	us"
November 1860 Letter to Gray	<b>S</b> 8
22. "I grieve to say that I cannot honestly go as far as you do about <b>Design</b> . I am conscious	S9
	37
that I am in an <b>utterly hopeless muddle</b> . I <b>cannot think</b> that the world, as we see it, is	
the result of chance; and yet I cannot look at $\star$ each $\star$ separate thing as the result of	
<b>Design</b> Again, I say I am, and shall ever remain, in a <b>hopeless muddle</b> ." <i>LLD</i> , II:353	
<u>COMMENTS</u> :	S10
REJECTS Design	
BUT this is Paley's view of ID $\rightarrow$ conflation of ID & Perfect Adaptation	
"★each★ separate thing"	
	S11
"cannot think that the world is the result of chance"	
	S12
"hopeless muddle" "utterly hopeless muddle" SQ 5-10 Darwin &	: ID
CONCLUSION: 2 nd Period of Religious Reflection	S13
1. Darwin is not an atheist & his theory of evolution is not by necessity atheistic	
	S14
Darwin's CONCEPT of Design (Paley's Conflated Premises of Nature, including ID)	
Clashes Against	
Darwin's EXPERIENCE of Design in nature (Psalm 19 Factor)	

THL DF	SCENT OF MAN (1871)	Darwin 2 Episode 153 S2
	ehensive book on human evolution	S2 S3
•	ogy-Evolution Analogy	S4
v	am aware that the conclusions arrived at in this work will be denounce	
	s highly irreligious; but he who denounces them is bound to shew why	
ir	religious to explain the origin of man as a distinct species by descent	from some
lo	ower form, through the laws of variation and natural selection, than to e	explain the
bi	irth of the individual through the laws of ordinary reproduction. The bi	rth both of
tł	he species and of the individual are equally parts of that grand sequer	nce of events,
w	which our minds refuse to accept as the result of blind chance.	Descent, 613
	COMMENTS:	\$5
	EMBRYOLOGY-EVOLUTION ANALOGY	
	IF	
	God does not use God-of-the-gaps miracles to create <b>eac</b> but instead uses natural embryological processes	<b>h human</b> today,
	THEN God did not use God-of-the-gaps miracles to create <b>all l</b> but instead used natural evolutionary processes	numans in the past,
	<ul> <li>IMPACTED by Nature (Ps 19 Factor) embryology &amp; evolution "equally parts of that grand sequence</li> </ul>	S6 nce of events"
	• REJECTS Dysteleology "our minds refuse to accept [embryology & evolution] as the	S7 result of blind chance"
	QUESTION: Was our brain hardwired this way BY God?	S8
	<b>OR</b> Was it hardwired by blind chance only?	
Natural S	election & Survival of the Fittest	S9
<b>24.</b> "In	n earlier editions of my 'Origin of Species' I perhaps attributed TOO	MUCH to the
	ction of <b>natural selection</b> and <b>survival of the fittest</b> We know not	
	ne numberless slight differences between the individuals of each specie	•
	COMMENT:	S10
	natural selection & survival of the fittest are important evolu BUT they are NOT the only mechanisms driving evolution	tionary mechanisms
<b>25.</b> "T	here is almost complete unanimity amongst Biologists about Evolution	on, tho' there S11
is	s still considerable difference as to <b>the means</b> [ie, the mechanisms] suc	h as how far
	1] natural selection has acted & how far [2] external conditions, or whe	
-		N Ridley, 28 Nov 1878
	COMMENTS:	S12
	• most biologists are evolutionists in just 20 yrs after <i>Origin of</i>	
	QUESTIONS:	S13
	Does evolution have a "mysterious innate tendency to perfectib	
	an intelligently-designed teleological feature in genes caus OR	sing life to evolve?

Dary	win 2 Episode 154
Morality & Evolutionary Psychology	S2
Darwin saw two evolutionary psychological forces in humans: (1) "social instincts" → altruistic behaviour	
(2) "lower impulses" $\rightarrow$ selfish behaviour	
Darwin argued that our sense of right & wrong arose through evolution	S3
<b>26.</b> "The <b>social instincts</b> which no doubt were acquired by man as by the lower a	inimals for
the good of the community [would] have served him at a very early perio	d as a <b>rude</b>
rule of right and wrong The social instincts naturally lead to the go	lden rule,
'As ye would that men should do to you, do ye to them likewise' [Jesus in L	uke 6:31] and
this lies at the <b>foundation of morality</b> ."	Descent, 168
COMMENTS:	S4 H2
<ul> <li>consistent with the Christian belief in Moral Revelation</li> </ul>	
27. "Indeed, when Gentiles, who do not have the law, do by n	ature things
required by the law, they are a law for themselves, even	though they do
not have the law, since they show that the requirements of	of the law are
written on their hearts, their consciences also bearing	witness, and
their thoughts now accusing, now defending them." R	Rom 2:14-15
• everyone has a sense of morality evolution selected those with moral sense over those without i	s5 t
<ul> <li>populations with moral sense were more successful</li> <li>survival of the morally fittest</li> </ul>	
<b>IX.</b> <i>AUTOBIOGRAPHY OF CHARLES DARWIN</i> (1876) mature views on religion are presented in a section entitled "Religious Belief"	S6
Preamble	S7
Rejects Christianity Intelligent Design a central issue	
Arguments For & Against God's Existence Argument Pattern:	S8
Darwin gives an Argument & then a Rebuttal to it $\rightarrow$ stalemate leads him to A	Agnosticism
<b>28.</b> "The mystery of the beginning of all things is <b>insoluble</b> by us; and I for	one must be
content to remain an Agnostic."	<i>ACD</i> , 94
term coined by Thomas Henry Huxley in 1869 Darwin does not express frustration, confusion & fluctuatio	n

#### 1. ARGUMENT AGAINST GOD'S EXISTENCE—PROBLEM OF SUFFERING

29. "A being so powerful and so full of knowledge as a God who could create the universe, is to our finite minds omnipotent and omniscient, and it revolts our understanding to suppose that his benevolence is not unbounded, for what advantage can there be in the suffering of millions of lower animals throughout almost endless time? This very old argument from the existence of suffering AGAINST [my capitals] the existence of an intelligent first cause seems to me a strong one."

classic argument against the personal God of theism & Christianity why is there suffering if God is all-loving, all-powerful, and all-knowing?

Darwin 2 Episode	155
<b>REBUTTAL</b>	S2
<b>30.</b> "According to my judgment <b>happiness</b> decidedly prevails all sentient [feeling &	
aware] beings have been formed so as to enjoy, as a general rule, happiness	
I can hardly doubt, to most sentient beings an excess of happiness over misery,	
although many occasionally suffer much." ACD, 88, 89-90	
COMMENTS: "happiness decidedly prevails" "general rule" "an excess over misery" therefore suffering is <u>not</u> an argument against God's existence	
DARWIN'S IMPLICIT THEODICEAN JUXTAPOSITION	S4
Suffering in Nature juxtaposed against Happiness in Nature	
ARGUMENT FOR GOD'S EXISTENCE—1 st Design Argument (Psychological)	S5
<b>31.</b> "At the present day the <b>most usual argument</b> FOR [my capitals] the existence of an	
intelligent God is drawn from the deep inward conviction and feelings which are	
experienced by most persons Formerly I was led by feelings such as those referred	
to, to the firm conviction of [1] the existence of God, and of [2] the immortality of	
the soul whilst standing in the midst of the grandeur of a Brazilian forest." ACD, 91	
COMMENTS:	
The Revelation in Nature:	S6
<ul> <li>Active impact of the "grandeur of a Brazilian forest"</li> </ul>	
Universal	
"experienced by most persons"	
• Intelligible	S7
use of word "feelings" (2X) → non-verbal revelation leads Darwin to understand two "firm convictions" (next)	
• Revelatory	
nature convicts Darwin of: [1] "the existence of God" [2] "the immortality of the soul"	
PSALM 19 FACTOR	<b>S</b> 8
Does the "grandeur of a Brazilian forest" declare the glory of God?	
does nature point to the "existence of God" & "immortality of the soul?" OR	
Was Darwin experiencing an illusion?	
"nothing but" social conditioning from his Cambridge education?	
<b>REBUTTAL</b>	<b>S</b> 9
<b>32.</b> "But now [1876] the <b>grandest</b> scenes would not cause any such convictions and feelings to rise in my mind. It may be tryly said that I am like a man who has	
feelings to rise in my mind. It may be truly said that I am like a man who has	
become <b>colour-blind</b> ." ACD, 91	
QUESTION: Can you become "colour-blind" to Impact of Nature? see Darwin's view in the last year of his life	

#### Darwin 2 Episode 156

S2

**S**3

S4

S5

ACD, 93

S6

S7

**S**8

# **3.** ARGUMENT FOR GOD'S EXISTENCE—2ND DESIGN ARGUMENT (RATIONAL) 33. "Another source of conviction in the existence of God, connected with the reason and not with the feelings, impresses me as having **much more weight**. This follows from the extreme difficulty or rather impossibility of conceiving this immense and wondrous universe, including man with his capacity of looking backwards and far into futurity, as a result of blind chance or necessity. When thus reflecting I feel compelled to look to a First Cause having an **intelligent mind** in some degree analogous to that of man; and I deserve to be called a **Theist**." ACD, 92-93 my underlines COMMENTS: • REJECTS dysteleology the universe is not the result of "blind chance or necessity" • that's an "impossibility" • NOTE the present tense of last sentence: "When thus reflecting I feel compelled ... I deserve to be called a Theist." 1876 → Darwin at times believed in God The Revelation in Nature: • Active impact of the "wondrous universe" → "compelled to look" • Intelligible "connected with the reason" Revelatory nature points to "First Cause having an intelligent mind" REBUTTAL immediately following Quote 33:

# 34. "This conclusion was strong in my mind about the time, as far as I can remember, when I wrote the *Origin of Species*; and it is since that time that it has very gradually with many fluctuations become weaker. But then arises the horrid doubt—can the mind of man, which has, as I fully believe, been developed from a mind as low as that possessed by the lowest animal, be trusted when it draws such grand conclusions?"

COMMENTS:

Darwin was a **theist** & believed in **design** when he wrote *Origin of Species* NOT a so-called "Darwinist"!!!

- DARWIN'S EPISTEMOLOGICAL DILEMMA: "THE HORRID DOUBT"
  - Darwin states he can't trust his mind: (1) on the subjects of ID & God (2) to make "grand conclusions"

BUT what did Darwin just do? he <u>trusted</u> his mind to make a "grand conclusion" about not being able to <u>trust</u> his mind!!!

# ✓ Self-Referential Incoherence

# ASSESSMENT

Did Darwin rebut his "Rational Argument" for God's existence? **NO** 

Therefore, ID remains a POWERFUL rational argument for belief in a: "First Cause having an intelligent mind in some degree analogous to that of man"

Darwin 2 Episode	e 157
X. THE FINAL YEARS	S2
some "softening" with regard to agnosticism (had deistic periods) & intelligent design (wasn'	t so
"colour blind") $\rightarrow$ and fluctuation between beliefs returns	
John Fordyce Letter (1879)	S3
35. "It seems to me absurd to doubt that a man may be an ardent theist & an evolutionist	
I may state that my judgment often <b>fluctuates</b> In my most <b>extreme fluctuations</b> I have	
never been an Atheist in the sense of denying the existence of a God. I think that general	ly
(and more & more as I grow older), BUT NOT ALWAYS [my capitals], that an Agnostic	c
would be the more correct description of my state of mind." To Fordyce (7 May 1879) LLD, I	:304
COMMENTS:	S4
• DESTROYS the Origins Dichotomy in one short sentence!	
it is a perfectly reasonable to be "an ardent theist & an evolutionist"	
• Up to 1879 Darwin was NEVER AN ATHEIST (he dies in 1882)	S5
• Agnostic the "more correct description"	
<ul> <li>The "not always" periods → likely a deist</li> </ul>	<b>S</b> 6
THE "NOT ALWAYS" ARGUMENT:	
• Darwin "never" an <b>atheist</b> ,	
• Darwin "generally but not always" an <b>agnostic</b> Therefore: Darwin in the "not always" periods had a belief in son	20
sort of deity or teleological reality	lie
WHY?	
Darwin still IMPACTED by nature (Ps 19 Fac	ctor)
Conversation with the Duke of Argyll during the last year of Darwin's life	<b>S</b> 7
<b>36.</b> "In the course of that conversation I said to Dr. Darwin, with reference to some of his own	<b>S</b> 8
remarkable works on the 'Fertilization of Orchids' and upon 'The Earthworms,' and vario	
other observations he made of the <b>wonderful contrivances</b> for certain purposes in nature	
I said it was <b>impossible</b> to look at these without seeing that they were the <b>effect</b> and the	
expression of mind. I shall never forget Mr. Darwin's answer. He looked at me very hard	
and said, 'Well, that often comes over me with overwhelming force; but at other times,'	
and he shook his head vaguely, adding, 'it seems to go away.'" <i>LLD</i> , I:310	5
COMMENTS:	S9
The Revelation in Nature	
<ul> <li>Active impact of living organisms "comes over me with overwhelming force"</li> </ul>	
• Intelligible	
"the effect and the expression of mind"	
• Incessant	S10
"often comes over me" $\rightarrow$ renders doubtful 1876 "color-blind" comment	
• Revelatory "impossible" not to see the work of a Mind	
PSALM 19 FACTOR	<b>C</b> 11
Was Darwin's experience in biology declaring the glory of God?	S11
OR	
Was Darwin suffering from an illusion?	

Darwin 2 Episode	158
XI. CONCLUSION: EVOLUTION & DARWIN'S RELIGIOUS BELIEFS	S2
1. Darwin was <u>Never</u> an Atheist or a Darwinist!	S3
during the writing of Origin of Species (1859):	
Darwin claimed he: was a theist	
believed in Intelligent Design	
2. Darwin Struggled with Intelligent Design throughout his Life	S4
nature impacted Darwin powerfully & often	
TO ASK THE QUESTION ONE LAST TIME:	S5
Did Darwin experience an illusion of ID caused by 19 th century religious conditioning? OR	
Is the Psalm Factor 19 a reality?	
3. Pastoral Lessons & Implications from Darwin's Story	S6
Christians gave Darwin:	
• mistaken view of origins:	
Progressive Creation • mistaken view of design:	
Paley's Conflation of Intelligent Design, Perfect Adaptation & Beneficence	
• mistaken view of the hermeneutics of Genesis 1-11:	
<u>common</u> concordist hermeneutic	
literalism & historical/scientific concordism	
TO ASK SOME PROVOCATIVE QUESTIONS: Ware Christians a stumbling black between Derwin & the God of Christianity?	<b>S</b> 7
Were Christians a <b>stumbling block</b> between Darwin & the God of Christianity?	
TODAY: Are anti-evolutionists & ID Theorists creating a similar situation?	
Excursus: Lamoureux's Intellectual Fulfilment Anti-Thesis	<b>S</b> 8
Dawkins: "Derwin mode it receible to be an intellectually fulfilled otheist"	S9
"Darwin made it possible to be an intellectually fulfilled <b>atheist</b> ." Lamoureux:	S10
"Darwin made it possible to be an intellectually fulfilled <b>THEIST</b> ."	510
NOTE: I am NOT saying that Darwin was a theist. BUT	
I am saying that Darwin offers valuable THEOLOGICAL INSIGHTS:	
Central Theological Insight	S11
Science vs. Religion & Evolution vs. Creation Dichotomies are ABSURD	
"It seems to me <b>absurd to doubt</b> that a man may be an <b>ardent theist</b> & <b>an evolutionist</b> " Quote 35	
Embryology-Evolution Analogy	S12
an excellent way to understand God's creative action in both embryology & evolution	
in Darwin's most important books: Origin of Species (1859) Q 17	
Descent of Man (1871) Q 23	
Psalm 19 Factor	S13
nature IMPACTED Darwin throughout his life	
last year $\rightarrow$ "often comes over me with overwhelming force" Q 36	

	ouc 157
Toward a Model of Evolutionary Intelligent Design	S2
"designed laws" & "details to what we may call chance" Q 21	
"laws may have been expressly designed by an omniscient Creator" Q 21	
Darwin's Epistemological Dilemma	S3
"The Horrid Doubt" about ID Q 34	
<ul> <li>Darwin's rebuttal against rational ID argument suffers from Self-Referential Incol Therefore:</li> </ul>	nerence
ID a very reasonable argument (NOT a proof) for the existence of God	
Darwin's Implicit Theodicean Juxtaposition	S4
Intelligent Design in nature is a response to suffering in nature Q 19, 20, 21, 29	
Psalm 19 Factor Trumps Suffering	
living organisms enjoy "happiness" most of the time	
Natural Revelation & Evolutionary Psychology	S5
human brain hardwired through evolution BY God	
"innate knowledge of the creator" is the result of "his most magnificent [evolutionary]	laws" Q 16
Morality & Evolutionary Psychology	S6
"social instincts naturally lead to the golden rule" Q 26	
← consistent with "the law written on human hearts" (Rom 2:15) Q 27	
Criticism of the Bible	S7
"false history of the world" Q 12	
assumed historical concordism in Genesis 1-11	
• poor hermeneutics?	

# **ONLINE PAPERS ON CHARLES DARWIN:**

Denis O. Lamoureux, "Darwinian Theological Insights: Toward an Intellectually Fulfilled Christian Theism—Part I Divine Creative Action & Intelligent Design in Nature" *Perspectives on Science & Christian Faith* 64:2 (Jun 2012), 108-119.

http://www.ualberta.ca/~dlamoure/p_darwin_1.pdf

Denis O. Lamoureux, "Darwinian Theological Insights: Toward an Intellectually Fulfilled Christian Theism—Part II Evolutionary Theodicy and Evolutionary Psychology" *Perspectives on Science & Christian Faith* 64:3 (Sep 2012), 166-178.

http://www.ualberta.ca/~dlamoure/p_darwin_2.pdf

GENESIS 1-11: BIBLICAL ACCOUNTS OF ORIGINS	S2
I. KEY THOUGHTS 1. Literary Genre	S3 S4
<ul> <li>CENTRAL QUESTION: What is the literary genre of Gen 1-11?</li> <li>• a strict literal word-for-word scientific &amp; historical record of HOW the universe &amp; life,</li> </ul>	51
including humans, ACTUALLY originated OR	
<ul> <li>a complex literature featuring:</li> <li>Spiritual Truths → 1st &amp; foremost</li> </ul>	S5
ancient poetry (structured writing)	
ancient story & allegory ancient science	
ancient historiography	
<b>2. Ancient Historiography</b> Greek <i>historia</i> : history <i>grapho</i> : to write	S6
DEF: the writing of history by ANCIENT people similar to the way ancient people conceptualized the science-of-the-day, they also conceptualized the <b>history-of-the-day</b>	
THEIR understanding of history from THEIR Ancient Phenomenological Persp	
NOTE: <u>ALL</u> Historical Accounts (both ancient & modern) include: • Historical Facts as conceptualized from the perspective of the historian	S7
• Metaphysical (Religious) Interpretations of the Historical Facts	
EG ancient: Hebrew interpretations of worldwide flood modern: religious interpretations of September 11	S8 S9
Message-Incident Principle: 1 st New Application	S10 H42
Ancient Historiography in Gen 1-11 is an incidental <u>vessel</u> that delivers inerrant Messages Therefore → SEPARATE DON'T CONFLATE	i
3. Ancient Accounts of Origins	S11
Feature Four Components: <u>ANCIENT COSMOGONY</u> Greek <i>cosmos</i> : universe <i>gonos</i> : birth, creation origin of the universe & life → science-of-the-day	
ANCIENT HISTORIOGRAPHY	
origin of humans & the first communities $\rightarrow$ history-of-the-day	
<u>ANCIENT STORY &amp; ALLEGORY</u> accounts of origins are often cast in a story-like or allegory-like format	S12
<u>RELIGIOUS (METAPHYSICAL) INTERPRETATION</u> spiritual truths & values of a community or civilization	
Message-Incident Principle: 2 nd New Application 5	S13 H42
Ancient Account of Origins in Gen 1-11 is an incidental <u>vessel</u> that delivers inerrant Mess Therefore → SEPARATE DON'T CONFLATE	ages

#### 1 .... . . . .

S15

	Genesis 1 Episode 161
4. Genesis 11-12 <u>REAL HISTORY</u> "Boundary"	S2-5 H42
Conservative Christian Theologians see real history in the Bible beginning to "	phase in"
ROUGHLY around Gen 12 with Abraham	
the "boundary" is not sharply defined	
Common Concern:	S6
IF Gen 1-11 is not historical,	
THEN the New Testament & Jesus are not historical	
Academic Response:	S7
Gen 1-11 is a COMPLETELY DIFFERENT LITERARY GENRE that	an the New Testament
<ul> <li>NT is based on eyewitness accounts</li> </ul>	see SQ 1-3
Genre of NT → Eye Witness Testimony	
See Richard Bauckham, Jesus & the I	Eyewitnesses (2006)
<b>THEREFORE:</b>	S8-9
DON'T USE GENESIS 1-11 HERMENEUTIC	S
FOR NEW TESTAMENT!	~
DON'T USE NEW TESTAMENT HERMENEUT	
FOR GENESIS 1-11!	105
FOR GENESIS I-II!	
II ANGLENT A GOOLNTS OF ODICING, INTRODUCTORY CATEGO	
II. ANCIENT ACCOUNTS OF ORIGINS: INTRODUCTORY CATEGO	DRIES S10
<b><u>ETIOLOGY</u></b> Greek <i>aitia</i> "cause or reason for this"	S11
DEF: the cause or reason for something/one	
ALL accounts of origins (ancient & modern) ask the basic etiologic	cal question:
What is the cause or reason for the existence of the universe, li	ife, & us?
ANCIENT MAJOR MOTIFS OF ORIGINS	S12
DEF: scientific & historical paradigms-of-the-day in the ancient world	
appear in a majority of origins accounts throughout the world	
both explicitly & implicitly	
NOT literary devices as the term "motif" is often used today BUT	S13
Ancient Cosmogony & Ancient Historiography	
• origin of the world & origin of humans	
(1) De Novo Creation Motif	S14
	511

quick & complete origin of the universe & life, including most times a  $1^{st}$  man &  $1^{st}$  woman **Etiological Question:** 

What is the cause or reason for the origin of the world & people?

# (2) Lost Idyllic Age Motif

a something-went-wrong-in-the-world account

points back to the disruption of an original harmony in the world

negative effects of this event continue into the present

# **Etiological Question:**

What is the cause or reason for the **bad things** in the world?

Genesis 1 Episode	162
(3) Tribal Formation Motif	S2
origin of a people or nation from a single founding male individual	
Etiological Questions:	
What is the cause or reason for the origin of our people? And our enemies?	
(4) Great Flood Motif	S3
destruction of life thru a flood and the survival of a few humans & some animals in a bo often found in communities living in regions susceptible to flooding <u>Etiological Question</u> :	oat
What is the cause or reason for the great flood?	
Message-Incident Principle: 3 rd New Application S4	H42
Ancient Major Motifs in Gen 1-11 are an incidental vessel that deliver inerrant Messag	
Therefore $\rightarrow$ SEPARATE DON'T CONFLATE	0.5
ANCIENT MINOR MOTIFS	S5
DEF: reappearing <u>regional/local</u> symbols, characters, etc. that add detail to major motifs EG many ANE creation accounts begin with a dark, watery, chaotic pre-creative state	
ANCIENT STORY & ALLEGORY	S6
The Bible sometimes uses non-historical stories & allegories to reveal Spiritual Truths	~ ~ ~
✓ Jesus' use of Parables	S7
DEF: earthly stories with heavenly messages	
The Parable of the Good Samaritan (Luke 10:33-36) Story → INCIDENTAL	<b>S</b> 8
Be Merciful → MESSAGE OF FAITH	
<b>NB</b> the story & characters can be updated for today, preserving the mess See "The Parable of the Good Atheist" <b>SQ 7 &amp; 8</b>	age S9
Book of Job	S10
Could this be a God inspired story to reveal inerrant Spiritual Truths about suffering? IF this is a historical account, (Job Chapters 1 & 2) THEN it means that:	
• Satan can just walk into God's presence & bait him to prove a point	
• God allows Satan to murder Job's 10 children & servants	
• God allows Satan to inflict Job with a debilitating disease	
QUESTION: Does this sound like something that God would allow? OR	S11
Is this a story that is used to reveal inerrant Spiritual Truths?	
Garden of Eden Account in Genesis 2-3	S12
Features: • fast-talking snake (3:1-5)	512
• mystical tree that imparts eternal life (2:9; 3:22, 24)	
• mystical tree that imparts knowledge of good & evil (2:9, 17; 3:5, 7)	
• mystical creatures → cherubim (composite creatures like Egyptian Sphinx)	3:24
• flaming sword flashing back & forth to protect the garden (3:24)	
QUESTION:	S13
Does this sound like a <b>historical account</b> about real & actual events? OR	515
Is this a story or allegory intended primarily to offer Spiritual Truths?	

DEF: the transformation of a non-historical account into a historical account IF Gen 2-3 is an story or allegory	
THEN the redactor of the Book of Genesis turned Gen 2-3 into a historical a	ccount
The Redactor (or Editor) S3	3 H33 N 136
his intention was to write an account of the origin of: (1) universe (Cosmogony) (2) humanity (Historiograp 10X he adds the subtitle: "This is the <u>account</u> of" in the Book of Genesis	S4
6X in Gen 1-11: Gen 2:4, 5:1, 6:9, 10:1, 11:10, 11:27 NB Gen 2:4 "This is the <u>account</u> of the heavens & earth"	
III. ORIGIN OF GENESIS 1-11: Re-Cycled & Re-Interpreted ANE Motifs of Origins Theor	S5
<ul> <li>(1) Mesopotamians &amp; Egyptians Conceive the Motifs of Origins         <ul> <li>1st in an oral form                 ancient conceptualizations of the origin of the universe, life &amp; their community</li> <li>include some actual historical events                      EG real floods &amp; real flood survivors</li> </ul> </li> </ul>	S6
(2) Mesopotamians & Egyptians Write Down their Accounts of Origins roughly over a period from 3000-1500 BC/E	S7
(3) Hebrews Appear Late in ANE & Inherit Motifs of Origins 1 st archeological evidence for the existence of Israel 1200 BC/E most likely in an oral form	S8
<ul> <li>(4) Hebrews Re-Cycle &amp; Re-Interpret ANE Motifs of Origins         inspired by God, they replace pagan theology with inerrant Spiritual Truths         they include some actual people &amp; actual historical events remembered in oral         EG some people in genealogies     </li> </ul>	S9 l traditions
(5) Hebrews Become Literate & Write Down Two Accounts of Origins 1 st archeological evidence for literacy roughly <u>1200 BC/E</u> Jahwist (J) Account of Origins about 1000 BC/E Priestly (P) Account of Origins about 500 BC/E	S10
(6) Redactor Puts J & P Accounts of Origins Together to Form Genesis 1-11 probably around 500 BC/E	S11-12 H43
<u>COMMENTS</u> : • Divine Inspiration of the Bible: interactive process between human authors & the Holy Spirit	S13
human authors are NOT simply passive secretaries God allowed them to use their motifs of origins → ACCOMMO	ODATION
• Parallel between the Two Divine Books Origin of the BOOK OF GOD'S WORKS: an ordained & sustained natural evolutionary process	S14
Origin of BOOK OF GOD'S WORDS: an ordained & sustained <b>ancient literary process</b> → literary evo	lution

**HISTORICIZATION** 

		Genesis 1 Episode 164	4
IV. AN EXEGESIS OF GI	ENESIS 1-11	S	2
1. Genesis 1:1-3 & the Pr	e-Creative State	S	3
Translation Debate		S4 H4	4
• translation of the 1 st two w	rords of the Bible is uncertain!		
	dashes) in Hebrew is debated		
בְרָאשִית	b ^e rē'shît	S	5
ר. י	dashes) in Hebrew is debated $b^{e}r\bar{e}$ 'shît $b^{e}$ (1) in (2) when $r\bar{e}$ 'shît beginning & first arrangements:		
רֵאשִית	$r\bar{e}$ 'shît beginning & first		
• two possible grammatical a	arrangements:	S	6
Genesis 1:1 is a Title			
¹ IN THE BEGINNING	GOD CREATED THE HEAVENS AND THE E	ARTH	
of the deep, and the	formless and empty, darkness was over the e Spirit of God was hovering over the wate		
³ And God said, "Let	there be light" and there was light.	Gen 1:1-3	
Genesis 1:2 is a Parent	hesis	S	7
¹ When God began to	create the heavens and the earth,		
2 (Now the earth was	formless and empty, darkness was over th	e surface	
· _	he Spirit of God was hovering over the wat	ers.)	
³ God said, "Let there	be light" and there was light.	Gen 1:1-3	
COMMENTS:		S	8
	scene in BOTH translations is Gen 1:2 dark, watery, chaotic earth is already there	e	
• termed t	he "Pre-Creative State"		
NO 1	nention it was created → seems to be eter science-of-the-day for Mesopotamians, E		
	STION	Supervision Out of Nothing?	9
	Does this challenge Christian Doctrine of • NO	Creation-Out-of-Nothing?	
	Ancient Epistemology creation-out-of-nothing is NOT part	of ANE mind-set	0
	Biblical Revelation is Progressive idea 1 st in 2 Mac 7:28 & echoed in	S1 Col 1:15-17 & Heb 11:3 <b>SQ 4-</b>	
_	Doctrines Develop over Time EG Doctrine of Trinity appeared in creation-out-of-nothing de	S1: late 4 th century AD/CE eveloped in 2 nd century AD/CE	2
• verb traditionally translate	C C	S13	
	to create, form, separate, divide, split, fas		
	ANE creation accounts feature creation		
	EG heaven/earth, earth/water		

What about the chaotic pre-creative state? Answer: God is in total control of it

# **Minor Motif**

Dark Watery Pre-Creative State ANE creation accounts  $\rightarrow$  the gods arise out of it

appears 35 times in Gen 1 (5 X 7)

loses temporal marker from which to date earth

attempts to align Gen 1:1 with the Big Bang BUT Gen 1:2 is the opening scene

NO hint that God arises out of it NO hint any other gods arise out of it

2. Genesis 1: The Six Day Creation

Answer: God created all of them

# Author

P Author he uses divine name

**Origins Debate Implications** 

YOUNG EARTH CREATION

**PROGRESSIVE CREATION** 

**Messages of Faith** 

Etiology

**Major Motif** 

**Minor Motif** 

Author

De Novo Creation

Parallel Panels



▶ P author often uses 5s & 7s and their multiples

NB by only the second verse of the Bible → Scientific Concordism FAILS

God is in total control of the pre-creative state (Re-Cycle & Re-Interpret)

What caused the origin of the heavens, earth, plants, animals & humans?

quick & complete  $\rightarrow$  typical of ancient accounts of origins

P author. Often uses a Poetic format  $\rightarrow$  very structured writing style

tōhu formless

*bōhu* empty

165

• built off Gen 1:2 & the two rhyming Hebrew words:

Vegetarianism. For both humans (v. 29) and animals (v. 30)

NO hint God battles other gods as seen in some other ANE creation accounts

'Elōhîm God, gods

NO mention of when the earth was created in Gen  $1 \rightarrow$  destroyed Lamoureux's YEC

water, earth & time already present  $\rightarrow$  NO mention of their creation

S4

S5

**S**6

S9

S10

S11 H45

S7-8 H66

	Episode 166
• God solves the problem of the formless & empty earth	S2-4 H45
1 st three days he <u>forms</u> the world (creation by separation of opposites $\rightarrow$ typic 2 nd three days he fills the world	ai in ANE)
2 three days ne <u>this</u> the world	
<ul> <li>forming &amp; filling days are parallel to each other</li> </ul>	
Classic "Contradiction" in the Bible	S5
1 st Day: creation of light	
4 th Day: creation of the sun	
IF Gen 1 is a scientific account, THEN there's a problem <b>BUT</b>	
IF poetic license/freedom, THEN no problem P author certainly knew that light comes from the	sun!
Creation Day Formula	S6
highly structured & repetitious → typical of P author's style	50
Introduction: God said, ""	
Command: "Let it be"	
Completion: It was so.	
Judgment: God saw it was good.	
Time Reference: "There was evening & there was morning-the n th day"	
Debate over the Word "Day"	S7
$y\bar{o}m$ (1) 24 hour day (2) period of time	
<b>ημερα</b> <i>ēmera</i> (1) 24 hour day (2) period of time	
In the Old Testament:	
when the word "day" is with a number $\rightarrow$ 24 hour day	
Genesis 1:	
<ul> <li>uses numbers → first day, second day, etc</li> <li>each day ends with: "There was evening &amp; there was morning-the nth or THEREFORE:</li> </ul>	day"
Days of Gen 1 are 24 hour days	S8-9 H 67- 68
Origins Debate Implication	S10
PROGRESSIVE CREATION (Day-Age Theory)	
The days of Gen 1 are NOT 100s of millions of years long	
<ul> <li>Scientific Concordism FAILS</li> </ul>	
Messages of Faith	S11
• There is only one God who is the Creator of the universe & life	
• Polemic against astral religion → sun, moon & stars are NOT gods	
• Affirms the Sabbath Commandment ( $4^{th}$ Commandment $\rightarrow$ Day of Rest)	
• God created humanity in the Image of God	S12
Term "Image of God" was used in ANE for kings	
kings were believed to be the representatives of the gods on earth	
In Gen 1 the term is TRANSFORMED (MORPHED) (Re-Cycle & Re-Interpreted)	et)
ALL humans are God's "kings" & representatives on earth	

S2

S3

S4

S5

v. 7

v. 8-9

v. 19

v. 22

# 3. Genesis 2: The Creation of Adam & Eve

Traditional interpretation: Gen 2 offers details of the events on the 6th day in Gen 1

Adam & Eve are REAL HISTORICAL PEOPLE

• most Christians accept Historical Concordism

# Etiology

Where do humans come from? Answer: God created them

# **Major Motif**

*De Novo* Creation Adam & Eve are created quick & complete → typical of ancient accounts of origins

3rd Day

5th Day

6th Day

# Author

J author → uses free flowing narrative & word play (NOTE: Gen 2-4 is one literary unit)

 $iad\bar{a}m$ man, human, humankind & personal name "Adam" $iad\bar{a}m\bar{k}$  $iad\bar{a}m\bar{a}h$ earth, ground, land  $\rightarrow 1^{st}$  $iad\bar{a}m$  was made from  $iad\bar{a}m\bar{a}h$ Creation Order Conflicts Between Genesis 1 & 2Genesis 1 (P)Genesis 2 (J)

man

woman

vegetation (fruit to eat)

land animals & birds

land animals	6 th Day
--------------	---------------------

vegetation (fruit to eat)

birds

man & woman

Stylistic	Differences	Retween	Genesis	1	& 2
Stylistic	Differences	Detween	Ochesis	T	$\alpha \angle$

	Genesis 1 (P)	Genesis 2 (J)
Literary Style	Poetic Structured & Repetitive	Narrative Free-Flowing
Scene Setting	Cosmic	Rural (No Sea)
<b>Divine Name</b> Hebrew	God 'Elōhîm	Lord God Yahweh 'Elōhîm
<b>Creative Action</b>	Verbal Commands	Hands-On
Divine Being	<b>Transcendent &amp;</b> Heavenly	<b>Immanent &amp;</b> Earthly
Relationship to Humans	Regal	Personal
Food Commands	Without a Prohibition Focus on Sustenance	With a Prohibition Focus on Obedience

EVIDENCE of two original sources: (1) Priestly source (500 BC/E)  $\rightarrow$  Gen 1

(2) Jahwist source (1000 BC/E)  $\rightarrow$  Gen 2

Juxtaposition of two different, yet complementary creation accounts S9 results in the revelation that God is BOTH: **Transcendent** (Gen 1) & **Immanent** (Gen 2)

S6-7

S2

**S**3

# **Origins Debate Implication**

Creation event conflicts between Gen 1 & Gen 2 indicate some events definitely:

DID NOT HAPPEN

• Scientific Concordism FAILS

# **Messages of Faith**

- God created humanity to be relational with him
  - ANE: humans are inconsequential & slaves of the gods (Re-Cycle & Re-Interpret)
- God created humanity to be relational among themselves → Marriage
- · God set limits on human freedom
- Humans are accountable to God

# **Excursus: Story, Allegory & Historicization** S4 To repeat: **S**5 Garden of Eden Account in Genesis 2-3 Features: • fast-talking snake (3:1-5) • mystical tree that imparts eternal life (2:9; 3:22, 24) • mystical tree that imparts knowledge of good & evil (2:9, 17; 3:5, 7) • mystical creatures $\rightarrow$ cherubim (composite creatures like Egyptian Sphinx) 3:24 • flaming sword flashing back & forth to protect the garden (3:24) Now add Story/Allegorical type names: • a man named "earthling" • a woman named "life" or "mother of life" **J** Author he is using Story/Allegory & Archetypes S6 Archetype Greek arché: first, beginning tupos: type, model, example DEF: an original type or model from which similar things/beings are patterned EG Adam & Eve are the archetypally human sinners ← Adam & Eve are YOU & ME BUT REMEMBER: **S**7 J author is also casting the Story & Archetypes within the framework of: Ancient Cosmogony & Ancient Historiography EG *de novo* creation of a 1st man & a 1st woman **The Redactor S**8 his intention in Gen 1-11 is to offer an account of real events in the origin of the world & people reference he is writing a: Cosmogony of the world Historiography of humanity & the Hebrews he takes the Story/Allegory & Archetypes in Gen 2-3 (J) and HISTORICIZES them **MY SPECULATION:** he probably did so unintentionally like most people today & thru history $\rightarrow$ he read Gen 2-3 as an account of real events BUT REMEMBER: S9 H42 Redactor's Ancient Cosmogony & Ancient Historiography → INCIDENTAL Redactor keeps J author's spiritual truths → MESSAGES OF FAITH

	Genesis 1 Episode 169
4. Genesis 3: The Fall	Sź
Adam & Eve eat the forbidden fruit & as a consequence sin enters the world (1) Humans Sin	S
termed the 'Fall of Humanity' accepted as HISTORICAL by most Christians	
(2) God Judges Humans for Sin → Suffering & Death Enter the World termed the 'Cosmic Fall' accepted as HISTORICAL by most Christians	Sé
PHYSICAL CHANGES IN NATURE: • snake loses its legs	
• birth pain increases for women	
• ground is cursed $\rightarrow$ thorns & thistles appear $\rightarrow$ human work be	ecomes painful
• physical death	
Etiology	S
Where does sin come from? Answer: Adam & Eve	
Where do suffering & death come from?	
Answer: God's judgment of Adam & Eve	
Major Motif	Se
Lost Idyllic Age a something-went-terribly-wrong-in-the-world account	
a disruption of an original harmony in the world	
the continuing effects of this past event into the present	
Author J author → Gen 2-4 is one literary unit	
Origins Debate Implications	S
Young Earth Creation	5
claims that the Cosmic Fall is historical	
this claim can be tested scientifically:	
Prediction	
IF true, THEN suffering & death should appear AFTER hun	oans in fossil record
Evidence	S8 H5
suffering & death are on earth 100s of millions of years	
Conclusion Cosmic Fall is NOT HISTORICAL	
PROGRESSIVE CREATION	S
claims that Gen 3 refers to the spiritual death of humans	
BUT God's judgment deals with physical death:	
"For dust you are and to dust you will return" Gen 3:19	
Messages of Faith	S10
• Humanity's greatest problem:	
SIN against God $\rightarrow$ NOT obeying his Commands	
Sin has consequences	
• God judges sin	

Excursus: Genesis 3 & Theodicy	S2
Theodicy	
DEF: arguments justifying the existence of suffering & evil in a world created by all-loving,	
all-powerful, and all-knowing God	
QUESTIONS:	S3
• Is Gen 3 the FIRST STAGE of biblical revelation on the topic of theodicy, cast in ANE moti	ifs?
Attempts to Answer:	
why do we suffer?	
why do we die?	
Answer at this Stage: 1 st man & 1 st woman sinned & God judged them → God launches Cosmic Fall	
• Does the Bible have Stages of Revelation? YES	S4
<u>Old</u> Testament $\rightarrow$ <u>New</u> Testament animal sacrifice $\rightarrow$ sacrifice of Jesus on the Cross	
IMPLICATION:	S5
more revelation on theodicy to come in the Bible after Gen 3	20
<ul> <li>Does Jesus offer the Final Stage of biblical revelation on the topic of theodicy? mor</li> </ul>	e anon
5. Genesis 4: 1 st Family, 1 st Murder & 1 st Genealogy	S6
(Non-Hebrews <u>BEFORE</u> the Flood)	50
Adam & Eve give birth to Cain & Abel	<b>S</b> 7
• Cain murders Abel	
over a sacrifice to God $\rightarrow$ theological jealousy!	
Cain marries	<b>S</b> 8
Classic Problem in the Bible:	
Where did he get his wife?	
Answer: Cain married a sister	
Eve was named "Eve" because "she was the mother of ALL the living" Ge	en 3:20
Therefore, the children of Adam & Eve married each other	
Why is this not mentioned in Scripture?	S9
Answer: incest is strictly forbidden in the Old Testament (Lev 18:6-17) SQ 9	
<ul> <li>J author doesn't want to set up an incestuous Archetype</li> </ul>	
Etiology	S10
Where do the Non-Hebrews come from before the Flood?	
Answer: the murderous line of Cain	
<ul><li>spiritual &amp; political polemic!</li></ul>	
Major Motif	
Tribal Formation origin of a people or nation from a single founding male individual → Cain	
	11 H45
embedded in a free-flowing narrative, BUT highly structured & stylised with 7, 10 & 14 (	
vicious murderer Lamech → 7 th person from Adam	, 11 2)
perfect number 7 used to emphasize the perfectly evil person	
1 Frank Frank Frank Frank Frank	

Genesis 1 Episode 171
AuthorS2J author → uses free flowing narrative (Gen 2-4 is one literary unit)S2
Origins Debate Implications St
ORIGIN OF CULTURAL ADVANCES       S4 H45         APPEAR in ONE generation & in ONE family       animal domestication (v. 20)         harps & flutes (v. 21)       bronze & iron tools (v. 22)
BUT <u>ARCHEOLOGICAL RECORD</u> : 55 flutes 30,000 BC/E animal domestication 9000 bronze after 3200 harps 3000 iron after 1200 Conclusion:
Gen 4 is NOT historical
origin of cultural advances reflects ancient <i>de novo</i> type thinking $\rightarrow$ quick & complete
TEMPORAL REFERENT Se DEF: reference to something/one in an undated text that marks a time period EG an undated letter referring to a laptop computer → date of letter after 1985
Gen 4:22 "Tubal-Cain forged all kinds of tools out of bronze & IRON" Iron Age begins 1200 BC/E ☞ J author of Gen 4 lived AFTER 1200 BC/E
Messages of FaithS7• Humanity's 2 nd greatest problem: SIN against humansS7
• J author echoes the two parts of the Ten Commandments: Gen 3: sin against God (Cs #1-4) Gen 4: sin against humans (Cs #5-10)
Excursus: Origin of the 1 st Genealogies St
Two Basic Components:       (1) <u>RETROJECTION &amp; DE NOVO CREATION</u> S9         • ancient people OBSERVED that humans were <u>immutable</u> (they did not change):       s9         a human gives birth to a human, who gives birth to a human, who etc       s9
• they RETROJECTED this observation <u>backward</u> thru time to the creation of the world: S10 a human today descends from an older human, who comes from an even older human, etc
• they reasonably CONCLUDED: S11 there must have been a 1 st human/s who God/s created <i>de novo</i> (Quick & Complete)
<ul> <li>(2) <u>GENEALOGIES IN ORAL TRADITION</u> Notes 47 S12</li> <li>ancient oral communities remembered important people in their oral tradition</li> <li> <ul> <li>these genealogies include some real people</li> <li>BUT human memory limits these genealogies to only about 5-10 generations</li> <li>Gen 4 &amp; 5 are short → reflecting their origin from oral tradition genealogies</li> </ul> </li> <li>The 1st Genealogies are a Combination of:</li> </ul>
<ul> <li>(1) individuals who are a product of retrojection (like the 1st human) and <u>who did not exist</u></li> <li>(2) some real people from the community <u>who did exist</u></li> </ul>

6. Genesis 5: Genealogy of the Hebrews <u>BEFORE</u> the Flood	Episode 172 S2
Etiology	S
Where do we [the Hebrews] come from?	
Answer: the Chosen Line of Seth	
Major Motif	
Tribal Formation	
origin of a people/nation from a single founding male individual $\rightarrow$ Seth	
Minor Motif	
Increased longevity BEFORE the Great Flood (Sumerian King Lists, Handouts 11 & 46 average age of individuals in Gen 5: <b>912 yrs</b>	<b>5</b> )
Author	S4
P author	
he often uses a Poetic format $\rightarrow$ very structured writing style	
Symmetrical 10 Individuals	
same as Gen 11 (also by P author)	
Repetitive Formula	
X lived A years and fathered Z	
X lived B more years & had other sons & daughters	
X lived a total of C years [A + B]	
X DIED	
Stylistic Numbers	S5 H4
15/20 multiples of 5	
subtract 7 from non-multiples of $5 \rightarrow$ results in multiple of 5	
Why 5?	
MY speculation: to emphasize the Hebrews are people of the 5 Books (Pentat	teuch)
Origins Debate Implication	Se
YOUNG EARTH CREATION	
ages/periods in genealogy are stylistic numbers & NOT real temporal numbers	
Therefore: can't be added up to date the age of the earth	
can toe added up to date the age of the carth	
Messages of Faith	S
• God created the Hebrews	
• The Hebrews are special → God's chosen people	
7. Genesis 6-9: Noah's Flood	S
Etiology	S
What caused the great flood? Answer: God's judgment for all the sin in the world	
ANE Etiology of great flood: divine judgment → the gods couldn't sleep because humans were too noisy!	
Major Motif	
Great Flood	
destruction of life and the survival of a few humans and some animals in a boat	

	Genesis 2 Episode 173
<b>Two Authors</b> P & J authors. Redactor intertwines P & J flood accounts	S2
Poetic Structure of P Flood:	S3 H47
Chiasm	
common ANE literary device featuring mirror images of topics focuses readers to the centre & main message → Gen 8:1 "G	od remembers Noah"
stylistic numbers	S4 H47
P author often uses 5s & 7s	
word "God" ( $Elohîm$ ) is used 15 times (3 X 5) in P floo	d
7X before chiastic centre & 7X after it	$(2 \mathbf{V} 50)$
150 day periods to increase & decrease the flood waters	$(3 \times 30)$
Origins Debate Implications	S5
YOUNG EARTH CREATION	
claims Noah's flood was global	
BUT Geology & Archeology → NO evidence for a global flood Noah's Global Flood <u>never</u> happened	
PROGRESSIVE CREATION	S6
claims Noah's flood was local	
BUT Biblical Flood (Gen 6-9) → flood covered Ararat Mts (16,00 According to the Bible, Noah's Flood was <u>not</u> local	00 ft) Gen 8:4
RECYCLED & REINTERPRETED FLOOD MOTIF THEORY	S7
claims <u>real</u> Mesopotamian flood/s & flood hero/s were MORPHED in Noah's flood <u>never happened</u> & Noah <u>never existed</u>	to biblical flood & Noah
Messages of Faith	S8
Humans are sinners	
Sin has consequences	
• God judges sin	
• God remembers the righteous person & saves them from his judgement	
8. Genesis 10: The Table of Nations	00
	S9
After the worldwide flood of Noah, the world was repopulated thru his 3 sons	S10 H47
<u>ALL</u> the nations are ANE nations Ancient Phenomenological Perspective of the origin of nations	510 H47
- Anelent i henomenological i erspective of the origin of nations	
Etiology	S11
• Where do all the nations come from?	
Answer: they descend from Noah's 3 sons → Japheth, Ham & Sher	
"from them [3 sons] came the people who were scattered over	er <u>all</u> of the earth" Gen 9:19
• Where does our Hebrew community come from?	
Answer: we descend from God's chosen descendants of Shem	
• Where do our enemies come from?	S12
Answer: they descend from that sexual pervert Ham	
Ham "saw Noah's nakedness" Gen 9:20-27	
euphemism for having sex with his mother! (see L	Lev 18:7-8)
<ul> <li>Spiritual &amp; Political Polemic</li> </ul>	

	Genesis 2 Episode 174
Major Motif	S2
Tribal Formation origin of a people or nation from a single founding male individual → Noa	h
<b>Two Authors</b> P & J authors. Redactor intertwines P & J post-flood table of nations accounts	S3 H48
<u>P TABLE OF NATIONS</u> • very structured & uses very few words like P author's Gen 5 & 11 genealogies	S4 H48
<ul> <li>repetitive formula → like P's Gen 1 creation account and his Gen 5 &amp; 11 A Son of Noah Their Sons</li> </ul>	l genealogies
Their Grandsons Summary & reference to DIFFERENT LANGUAGES WHY?	
P author does not have a Tower of Babel account & cont	fusion of languages
• stylistic numbers P author often uses 5s & 7s	S5 H48
15 (Japtheth & descendants) + 10 (Ham & desc.) + 10 (Shem &	desc.) = 35 (5 X 7)
<u>J TABLE OF NATIONS</u> • wordy & free-flowing with little structure	S6 H49
Canaan & 11 sons → foreshadows the 12 tribes of Israel	
<ul> <li>NO reference to DIFFERENT LANGUAGES</li> <li>WHY?</li> <li>J author has a Tower of Babel account &amp; confusion of langu</li> </ul>	lages
Origins Debate Implications NO evidence ancient civilizations were wiped out by a flood & repopulated at	S7 fterward
NO evidence that ALL the nations of the world descend from Noah's 3 sons a archeology reveals civilizations living continuously throughout the world Mesopotamia from 5000 BC/E Egypt 5000 India 3000	
TEMPORAL REFERENTS	S8
appearance in archeological record:Hebrews (v. 22-25)1200 BC/EPhilistines (v. 14)1200Calah "a great city" (v. 12)1200Meshech (v. 2)1100Tiras (v. 2)1000Sheba & Dedan (v. 7)1000	
J & P authors lived AFTER <b>1000 BC/E</b> EG reference to Canada in an undated document would indicate the document was written AFTER 1867	
Messages of Faith	S9
• Unity of humanity	
we are all part of one family • Uniqueness of the Hebrews God chose the Hebrews to be his people	
<b>.</b> .	

<ul> <li>Genesis 11:1-9. The Tower of Babel</li> <li>Humans build a tower in an attempt to reach heaven → they want to be div</li> </ul>	
• only makes sense in a 3-tier universe with heaven just above our he	
Gen 11:1, 9: "Now the whole world had one language and a con	
confused the language of the <u>whole</u> world." $\rightarrow$ co	-
Etiology	
Where do all the languages come from?	
Answer: God confused an original language	
Minor Motif	
Sumerians (S. Mesopotamia) had a confusion of language account (Re	e-Cycle & Re-Interpret)
Author	
J author. NOTE: J Table of Nations made no mention of DIFFERENT	LANGUAGES
Origins Debate Implication	
God confuses an original language in many languages at one point in ti	ime
ARCHEOLOGICAL & HISTORICAL RECORDS	
ANE languages evolved over a long period of time	
<b>BUT</b> into Semitic Cognates (related languages)?	S6 H
Why confuse an original language to look like language ← appearance of different languages at one point in time → NOT h	
Humans can't make themselves divine	
God judges such arrogance as sinful	
God judges such arrogance as sinful	Flood
<ul> <li>God judges such arrogance as sinful</li> <li>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the I</li> </ul>	
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews</b> <u>AFTER</u> the Etiology Where does our Hebrew community come from?</li> </ul>	
<ul> <li>God judges such arrogance as sinful</li> <li>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the Etiology</li> </ul>	
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews</b> <u>AFTER</u> the Etiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descendar</li> </ul>	
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the Etiology         Where does our Hebrew community come from?         Answer: after the flood we descended from God's chosen descende     </b></li> <li><b>Major Motif</b>         Tribal Formation     </li> </ul>	ants of Shem
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the Etiology         Where does our Hebrew community come from?         Answer: after the flood we descended from God's chosen descenda     </b></li> <li><b>Major Motif</b></li> </ul>	ants of Shem
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews</b> <u>AFTER</u> the Etiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descenda </li> <li><b>Major Motif</b> Tribal Formation origin of a people or nation from a single founding male individual - Minor Motif</li></ul>	ants of Shem
<ul> <li>God judges such arrogance as sinful</li> <li>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the Etiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descenda Major Motif Tribal Formation origin of a people or nation from a single founding male individual - Minor Motif Decrease in longevity AFTER the Great Flood</li></ul>	ants of Shem ➔ Shem
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews</b> <u>AFTER</u> the Etiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descenda </li> <li><b>Major Motif</b> Tribal Formation origin of a people or nation from a single founding male individual - Minor Motif</li></ul>	ants of Shem ➔ Shem
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<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the Etiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descenda </b></li> <li><b>Major Motif</b> Tribal Formation origin of a people or nation from a single founding male individual - <b>Minor Motif</b> Decrease in longevity AFTER the Great Flood from 912 yrs (average in Gen 5) to 333 yrs Echoes the Sumerian Kings Lists AFTER the flood from 31,150 yrs (average Before Flood) to 530 yrs</li></ul>	ants of Shem → Shem S10-11 H S12-13 H
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the leftiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descended </b></li> <li><b>Major Motif</b> Tribal Formation origin of a people or nation from a single founding male individual - <b>Minor Motif</b> Decrease in longevity AFTER the Great Flood from 912 yrs (average in Gen 5) to 333 yrs Echoes the Sumerian Kings Lists AFTER the flood from 31,150 yrs (average Before Flood) to 530 yrs </li> </ul>	ants of Shem ➔ Shem S10-11 H S12-13 H
<ul> <li>God judges such arrogance as sinful</li> <li><b>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the Etiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descended </b></li> <li><b>Major Motif</b> Tribal Formation origin of a people or nation from a single founding male individual - <b>Minor Motif</b> Decrease in longevity AFTER the Great Flood from 912 yrs (average in Gen 5) to 333 yrs Echoes the Sumerian Kings Lists AFTER the flood from 31,150 yrs (average Before Flood) to 530 yrs </li> </ul>	ants of Shem ➔ Shem S10-11 H S12-13 H
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<ul> <li>God judges such arrogance as sinful</li> <li>0. Genesis 11:10-32. Genealogy of the Hebrews <u>AFTER</u> the Etiology Where does our Hebrew community come from? Answer: after the flood we descended from God's chosen descenda </li> <li>Major Motif Tribal Formation origin of a people or nation from a single founding male individual - Minor Motif Decrease in longevity AFTER the Great Flood from 912 yrs (average in Gen 5) to 333 yrs Echoes the Sumerian Kings Lists AFTER the flood from 31,150 yrs (average Before Flood) to 530 yrs </li> <li>Author P author. Often uses a Poetic format &amp; stylistic 5s &amp; 7s <u>Symmetrical 10 Individuals</u> same as Gen 5 (also by P author)</li></ul>	ants of Shem ➔ Shem S10-11 H S12-13 H
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	Genesis 2 Episode 176
<b>Origins Debate Implication</b> ages/periods are stylistic numbers & NOT real temporal numbers	S2
Therefore	
can't be added up and used to date the age of the earth	
TEMPORAL REFERENT Abraham came from Ur of the Chaldeans (Gen 11:28, 31)	S3
Ur not called "of the Chaldeans" until 1000 BC/E	
P author lived AFTER 1000 BC/E	
Messages of Faith	S4
• Hebrews are special → God's chosen people	5.
• Through Abraham → Hebrews will bless the ENTIRE world (Gen 12:2-3)	
11. Genealogical Framework of the Hebrews	S5
based on Gen 5 & 11 genealogies & includes Isaac from Gen 21	
P author uses Poetic format & stylistic numbers 5s & 7s for important peop	
<u>SEVENS:</u> Enoch (godly man & did not die) #7 (7 X 1)	S6 H50
Electric (goody man & did not die) $\#7$ (7 X 1) Eber (root of word "Hebrew") $\#14$ (7 X 2)	
Isaac (son promised by God) #21 (7 X 3)	
<u>FIVES</u> : Noah #10 (5 X 2)	S7 H50
Noah #10 (5 X 2) Abraham #20 (5 X 4)	
<b>Total Number: 25</b> $(5 \times 5) \rightarrow$ to emphasize Hebrews accept 5 l	Books (Pentateuch)
<b>Origins Debate Implications</b> real genealogies DO NOT unfold in such a symmetrical way	S8
Gen 11 genealogy is at the Gen 11-12 Beginning of REAL History "Bound	ary"
IF Abraham is historical (Conservative Position)	
THEN some people in the Gen 11 genealogy are probably historic	al
V. CONCLUSION: WHAT IS THE LITERARY GENRE OF GENES	<b>IS 1-11?</b> S9
ANSWER:	S10
Genesis 1-11 is the Ancient Account of Origins of the Hebrews [Incidental inspired by the Holy Spirit & revealing inerrant Spiritual Truths [Messag	
INCIDENTAL FEATURES Ancient	S11
ancient cosmogony -> science-of-the-day	
ancient historiography -> history-of-the-day & historicization of story/	allegory
ancient story/allegory $\rightarrow$ fast-talking snake, mystical trees, cherubim	
ancient motifs: (1) De Novo Creation (2) Lost Idyllic Age (3) Tribal Fo	ormation (4) Great Flood
ancient poetry $\rightarrow$ parallel panels, chiasm, genealogical frameworks	
ancient stylistic numbers $\rightarrow$ 5s & 7s and their multiples	G10
ancient methods of redaction $\rightarrow$ J & P sources ancient oral traditions $\rightarrow$ limited by memory & expect some incomple	S12
ancient epistemology → "pre-logical" mentality & expect some entra	
ancient notion of causality $\rightarrow$ divine <i>de novo</i> action (quick & complete	
ancient phenomenological perspective $\rightarrow$ perfectly logical considering	
	-

# Account S2 etiology $\rightarrow$ offer causes & reasons for origins explains & justifies the existence of the heavens, earth, living organisms, humans & Hebrews of Origins S3 origin of universe & life origin of humans origin of suffering & death origin of Hebrews origin of other tribes & nations origin of enemies of the Hebrews $\rightarrow$ Babylonians, Egyptians, Canaanites origin of languages origin of sin $\rightarrow$ BIG problem of ALL humans $\rightarrow$ MAJOR THEME of the Hebrews S4 after roughly 1000 BC/E → temporal referents in Gen 1-11 **Messages of Faith** S5 **Inspired by the Holy Spirit** • Foundations of Christian Faith Gen 1-11 sets the theological base for the rest of the Bible • Accommodated to the level of Ancient People uses re-cycled ANE motifs of origins as a vessel & re-interprets with spiritual truths • Sufficiency of Genesis 1-11 reveals who God is & who we are • Proficiency of Readers everyone in every generation is capable of understanding the spiritual truths **Revealing Inerrant Spiritual Truths S6** (1) God created the universe & life (Gen 1 & 2) (2) the creation is very good (Gen 1) (3) God created humans in the Image of God (Gen 1) (4) humans are sinful (Gen 3, 4, 6-9, 10, 11) $\rightarrow$ MAJOR THEME (5) God judges humans for their sinfulness (Gen 3, 4, 6-9, 10, 11) $\rightarrow$ MAJOR THEME (6) God chose Israel to bless the entire world (Gen 12) THE BOTTOM LINE: **S**7 • Gen 1-11 includes poetic, allegorical, & stylistic "dressing up" of the ancient accounts of origins BUT Authorial Intentionality of P author, J author, and especially the Redactor was to write a: (1) Cosmogony & (2) Historiography • Gen 1-11 DOES NOT align with the facts of science or the facts of history **S**8 at best: real local flood event/s with Mesopotamians some real Hebrew ancestors in the genealogies SUGGESTION → SEPARATE DON'T CONFLATE S9 H42

separate the incidental Ancient Cosmogony & Ancient Historiography in Gen 1-11 from the inerrant Spiritual Truths

EG Pope John Paul II (Roman Catholic) & JI Packer (Evangelical Protestant) SQ 10-12 S10

MODERN ORIGINS DEBAT	<b>FE</b> S2
I. KEY THOUGHTS	S3
1. Anti-evolutionism is alive & well in the United States & Canada	S4
GALLUP POLL (1982-2014) conducted 12X	
<b>43-47%</b> of Americans accept:	
"God created man pretty much in his present form at one tim	e within the last 10,000 years"
ANGUS REID POLL (2012)	85
<b>39%</b> of Canadians reject or are uncertain that:	
"Human beings evolved from less advanced forms over milli	ons of years"
ANGUS REID POLL (2007)	S6
42% of Canadians accept "dinosaurs & humans co-existed"	
21% not sure	
2. Factors Contributing to Anti-Evolutionism:	S7
Problem with Public Education	2.
rarely deals with evolutionary biology or the hermeneutics of Gen	1-11
American Fundamentalist & Evangelical Protestant Tradition	S8
Concordist Hermeneutics	
ABC PRIME TIME POLL (2004)	S9
87% of US evangelicals believe 6 Day Creation (Gen 1) &	
are "literally true, meaning it happened that way wo	rd-for-word"
Aggressive & Politically Powerful	S10
long history of attempting to put anti-evolutionism in public s	chools
3. Anti-Evolutionism fuels the Origins Dichotomy	S11
most people believe that there really is an Evolution vs. Creation Deb	ate
II. CATEGORIES ON THE ORIGIN OF THE UNIVERSE & LI	<b>FE</b> \$12
THE CHART:	S13 H51
<ul> <li>5 basic origins positions</li> </ul>	
• 14 categories on left margin	S14-15 H51
• Christian bias $\rightarrow$ but applicable to other religions	S16 H51
• Choose & Combine different categories → you create a new pos	ition! S17 H51
• could add Agnostics:	
Religious Agnostics $\rightarrow$ uncertain about the existence of God	
Scientific Agnostics $\rightarrow$ uncertain about evolution	
THE KEY CATEGORICAL CONCEPT	S18 H51
SEPARATE DON'T CONFLATE:	
(1) God's Activity in the Origins of the Universe & Life	
cosmological divine action in origins	
FROM	
(2) God's Activity in the Lives of Men & Women	
personal divine action in relationships	

S2-6 H51

1. Your	ng Earth Creation	

<u>common</u> understanding of the "creationist" position

	<b></b>
Scientific Issues	S7
<ul> <li>conflicts with every evolutionary science: cosmological evolution, geological evolution &amp; biological evolution</li> </ul>	
<u>PEW RESEARCH CENTER</u> (2009)	have evelved over time"
<b>97%</b> of US scientists accept: "humans and other living things QUESTION	nave evolved over time
are 97% of scientists wrong?	
YEC Henry Morris claims they are "blinded by Satan"	\$01
is that reasonable?	5Q1
YEC Fossil Pattern Prediction	C0 1150
bones of every living organism should be at the bottom of the fossil reco	S8 H52
EG humans & dinosaurs should be together	see Episode 131 & S12-16
-	-
BUT	S9 H52
✓ fossil record <u>does not</u> align with YEC prediction shows an evolutionary sequence: fish → amphibians → rep	ntiles 🔿 mammals
<u>Hermeneutical Issues</u>	S10
<ul> <li>accepts strict &amp; literal scientific concordism &amp; historical concordism in Gen BUT to be consistent concordists, YECists need to accept a 3-tier univer</li> </ul>	
-	.50
BUT	
scientific concordism throughout the entire Bible $\rightarrow$ FAILS scientific concordism & historical concordism in Gen 1-11 $\rightarrow$ FAIL	S S11 H53 S S12 H53
scientific concordisin & instorical concordisin in Gen 1-11 $\rightarrow$ FAIL	25 512 1135
2. Progressive Creation (Day-Age Theory)	S13-17 H51
<b>2. Progressive Creation (Day-Age Theory)</b> view of origins often held today by university educated Christians	S13-17 H51
	S13-17 H51 S18
view of origins often held today by university educated Christians	S18
view of origins often held today by university educated Christians Scientific Issues	S18
view of origins often held today by university educated Christians <u>Scientific Issues</u> • creates a dichotomy between: (1) cosmological & geological evolution (acce (2) biological evolution (rejected by PC) BUT	S18 spted by PC)
view of origins often held today by university educated Christians <a href="https://www.sciencematric.com">Scientific Issues</a> <ul> <li>creates a dichotomy between: (1) cosmological &amp; geological evolution (accelled (2) biological evolution (rejected by PC)</li> <li>BUT</li> <li>97% of US scientists accept biological evolution and cosmological</li> </ul>	S18 spted by PC)
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<ul> <li>view of origins often held today by university educated Christians</li> <li><u>Scientific Issues</u> <ul> <li>creates a dichotomy between: (1) cosmological &amp; geological evolution (acce (2) biological evolution (rejected by PC)</li> <li>BUT</li> <li>97% of US scientists accept biological evolution and cosmologica</li> <li>they would reject this false dichotomy</li> </ul> </li> <li>PC Fossil Pattern Prediction         <ul> <li>claims the order of fossils aligns with the order plants &amp; animals are cre BUT</li> </ul> </li> </ul>	S18 epted by PC) I & geological evolution S19 H52
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<ul> <li>view of origins often held today by university educated Christians</li> <li><u>Scientific Issues</u> <ul> <li>creates a dichotomy between: (1) cosmological &amp; geological evolution (acceed (2) biological evolution (rejected by PC)</li> <li>BUT</li> <li>97% of US scientists accept biological evolution and cosmological</li> <li>they would reject this false dichotomy</li> </ul> </li> <li>PC Fossil Pattern Prediction         <ul> <li>claims the order of fossils aligns with the order plants &amp; animals are creed BUT</li> <li>fossil record does not align with PC prediction                  EG Gen 1: birds are created on 5th Day/Age BEFORE land</li> </ul> </li> </ul>	S18 epted by PC) 1 & geological evolution S19 H52 ated in Gen 1 S20 animals on 6 th Day/Age
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<ul> <li>view of origins often held today by university educated Christians</li> <li><u>Scientific Issues</u> <ul> <li>creates a dichotomy between: (1) cosmological &amp; geological evolution (accellater (2) biological evolution (rejected by PC)</li> <li>BUT</li> <li>97% of US scientists accept biological evolution and cosmological et they would reject this false dichotomy</li> <li>PC Fossil Pattern Prediction</li> <li>claims the order of fossils aligns with the order plants &amp; animals are cree BUT</li> <li>fossil record does not align with PC prediction</li> <li>EG Gen 1: birds are created on 5th Day/Age BEFORE land Fossil Record: land animals appeared 200 million yrs</li> </ul> </li> <li>Hermeneutical Issues         <ul> <li>accepts that the days in Gen 1 are periods that are millions of years long</li> </ul> </li> </ul>	S18 epted by PC) 1 & geological evolution S19 H52 ated in Gen 1 S20 animals on 6 th Day/Age BEFORE birds S21
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<ul> <li>view of origins often held today by university educated Christians</li> <li>Scientific Issues <ul> <li>creates a dichotomy between: (1) cosmological &amp; geological evolution (acce (2) biological evolution (rejected by PC)</li> <li>BUT</li> <li>97% of US scientists accept biological evolution and cosmologica</li> <li>they would reject this false dichotomy</li> </ul> </li> <li>PC Fossil Pattern Prediction <ul> <li>claims the order of fossils aligns with the order plants &amp; animals are cre BUT</li> <li>fossil record does not align with PC prediction</li> <li>EG Gen 1: birds are created on 5th Day/Age BEFORE land</li> <li>Fossil Record: land animals appeared 200 million yrs</li> </ul> </li> <li>Hermeneutical Issues <ul> <li>accepts that the days in Gen 1 are periods that are millions of years long BUT</li> <li>in the Old Testament when the word "day" is with a number → 24 Gen 1 uses numbers: first day, second day, etc each day ends with: "There was evening &amp; there was morning-the</li> </ul> </li> </ul>	S18 epted by PC) 1 & geological evolution (S19 H52) (S19 H52) (S20) 1 animals on 6 th Day/Age (BEFORE birds) (S21) hr period
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	Origins 1 Episode 180
3. Evolutionary Creation	S2-6 H51
minority view of origins in conservative Christianity	
Greatest Issue	S7
<ul> <li>conflicts with 2000 yrs of Christian tradition</li> </ul>	
most Christians throughout history have been anti-evolutionists & conco	rdists in Gen 1-11
Hermeneutical Solution	S8 H42
accept Message-Incident Principle	
cosmogony & historiography in Gen 1-11 is ancient $\rightarrow$ INCIDENTAL	
• reject scientific & historical concordism in Gen 1-11	S9 H52
The Bible is <u>not</u> a book of science	
<ul> <li>cannot be used to make fossil pattern predictions</li> </ul>	
Embryology-Evolution Analogy	S10
EC believes BOTH are teleological natural processes	
information is loaded at conception (DNA) for a person to develop	
information is loaded at the Big Bang (fine-tuning of physical constants)	) for the world to evolve
EC believes BOTH feature cosmological providentialism	S11
divine action is through Ordained & Sustained natural processes	
EC believes BOTH reflect Intelligent Design	S12
self-assembly of humans in the womb	
"You [God] knit me together in my mother's womb.	
I praise you because I am fearfully and wonderfully made" Ps 139:1	3-14
self-assembly of the universe & life	
EC believes BOTH feature manifestation of Spiritual Realities	S13
during human embryology → Image of God & human sin appear in eve	
during human evolution $\rightarrow$ Image of God & human sin enter the world	more anon
	~
Key Categorical Concept	S14 H51
direct challenge to the Origins Dichotomy SEPARATE DON'T CONFLATE:	
God's activity in origins FROM God's activity in lives of men &	woman
God s activity in origins Treorivi God s activity in lives of men a	t women
4. Deistic Evolution	S15-19 H51
deism also called "God without Religion"	
<ul> <li><u>Comments</u></li> <li>Why would an impersonal God create such personal &amp; relational creatures li</li> </ul>	S20
have a relationship with them?	ke numans, and not
<ul> <li>deism provides a God with no accountability to him/her/it</li> </ul>	
BUT are humans accountable to Someone/Something greater than	themselves?
• Deism is intellectually titillating for intellectuals	S21
BUT fails to meet spiritual needs of most people & transform lives	021
EG deism did not give birth to any church, school, hospital, etc	
Deism is in effect Practical Atheism	S22
No Lordship & No Worship of the deistic God	522
Ethics = Humanism	

	Origins 1 Episode 181
5. Dysteleological Evolution	S2-6 H51
common understanding of the "evolutionist" position	
Comments	S7
Mass Delusion Problem?	
are most people delusional because they believe in God?	
EG 90% of Americans believe in "God or a universal spirit"	Notes 30
40% of US scientists believe God answers prayer	N3
• Epistemological Problem?	S8
can we trust our brain regarding metaphysical topics if it has evolved the	
EG Plantinga's 4 Fs Brain Argument	N14-16
Darwin's Epistemological Dilemma & "Horrid Doubt"	N156
<ul> <li>self-referential incoherence</li> </ul>	
Personal & Practical Problem?	S9
who can say to someone they love:	
"I love you, but in reality I believe that love is <b>nothing but</b> a herd re	esponse"?
• Personal Problem with 1 st Commandment?	S10
<b>nothing but</b> a personal preference?	510
Summary of Chart	S11
4 "creationist" positions (YEC, PC, EC, DeE)	S12 H51
3 "evolutionist" positions (EC, DeE, DysE)	
2 positions that are BOTH "creationist" & "evolutionist" (EC, DeE)	
THEREFORE: The Origins Dichotomy is a FALSE DICHOT	OMY
Other Features:	S13 H51
5% of US & Canada dysteleological	~
2 positions accept God created life through evolution (EC, DeE)	
2 positions reject biological evolution (YEC, PC) $\rightarrow$ CONCORDISM in Gen 1-11	
3 positions accept Conservative Christianity (YEC, PC, EC)	S14 H51
Accept:	
• teleology	
• intelligent design	
• God created the universe & life	
• personal God & divine action (dramatic & subtle)	
• Bible is Word of God inspired by Holy Spirit	
• Spiritual Correspondence → inerrant Spiritual Truths	
• humans created in Image of God & humans are sinful	
• Incarnation & Physical Resurrection of Jesus	
• Biblical ethics	
Suggestion:	S15 H51
let origins be a <b>difference</b> between Christians & <u>NOT</u> a reason for a <b>divi</b> sion	
Supplement: Lamoureux's Personal Story of Coming to Terms with Evol	lution S16
Audio-Slide Episode	
with diary entries	Handouts 55-57
Book chapter from Evolutionary Creation: A Christian Approach to Evolution (2	2008)
online: www.ualberta.ca/~dlamoure/p_story.pdf	

Origins 2 Epi	sode 182
III. HUMAN ORIGINS: THE FINAL FRONTIER	S2
This is the most challenging issue for Christians today	
THE BIG QUESTION:	S3
Was Adam a real person?	
1. Biblical Texts on Human Origins	S4
Genesis 2 & 3	S5
• <i>de novo</i> creation of Adam & Eve	
• Adam & Eve sin	
• God judges Adam & Eve	
• God launches suffering & death into the world $\rightarrow$ COSMIC FALL	
Jesus	S6
<ul> <li>refers to Adam &amp; Eve</li> <li>quotes Gen 1:27 &amp; Gen 2:24</li> </ul>	
<u>MATTHEW 19:4-6</u>	
<b>1.</b> "Haven't you read that at the beginning the Creator 'made them male and fema	ale'
[Gen 1:27], and said, 'For this reason a man will leave his father and mother	
united to his wife, and the two will become one flesh' [Gen 2:24]? So they an	
longer two, but one. Therefore what God has joined together, let man not sep	arate."
Apostle Paul	S7
• refers to Adam	
• accepts that sin & death entered the world because of Adam's sin	
<u>Romans 5:12, 14</u>	
2. "Just as sin <b>entered</b> the world through <b>one man</b> , and death through sin, and in	•
death came to all men, because all sinned Death reigned from the time of A	.dam."
<u>1 CORINTHIANS 15:21-22</u>	S8
3. "For since death came through a man, the resurrection of the dead comes also	
through a man. For as in Adam all die, so in Christ all will be made alive."	
QUESTION	
Christians believe in Christ, why not believe in Adam as well?	
• accepts the COSMIC FALL	S9
ROMANS 8:20-21	22
4. "The creation was subjected to frustration, and not of its own choice, but by	, the
will of the One [God] who subjected it the creation itself will be liberated	
bondage to decay We know that the WHOLE creation has been groanin	
in the pains of childbirth right up to the present time."	ig as
in the pains of enhabitin right up to the present time.	
Conclusion: Biblical Texts on Human Origins	S10
1. The Bible accepts <b>Monogenism</b> Greek <i>monos</i> : one <i>genesis</i> : beginning	510
DEF: humanity arose from a ONE individual	
<b>Polygenism</b> Greek <i>polus</i> : many	
DEF: humanity arose from a GROUP of individuals	
DET. Indinanity arose from a GROOT of individuals	
2. The Bible accepts Adam & Eve are <u>historical</u>	S11
3. The Bible accepts the COSMIC FALL is <u>historical</u>	S12
death, suffering & decay enter the world because God judged Adam & Eve for their sins	

	Origins 2 Episode 183
2. Western (Catholic & Protestant) Theological Tradition of	U U
<ul><li>St. Augustine</li><li>accepts Adam is <u>historical</u></li></ul>	S3
<ul> <li>main formulator of the Doctrine of Original Sin:</li> </ul>	
(1) $1^{st}$ sin ever committed by $1^{st}$ man Adam	
(2) sin transferred from Adam to all humans	
← all humans descend from Adam → Monog	genism
Doctrine of Original Sin & a historical Adam appear in th	he most important Christian Creeds S4
Council of Carthage (418) Catholic Church	SQ 2-5
Augsburg Confession (1530) Lutheran Church	
<i>Thirty-Nine Articles</i> (1571) Anglican Church <i>Westminster Confession</i> (1646) Presbyterian Chu	urch
<ul> <li>accepts the 1-Seed Theory (Preformatism)</li> <li>5. "When the first couple were punished by the judgm</li> </ul>	S5 nent of God. the <b>whole human race</b> .
which was to become Adam's posterity through the	
first man."	St. Augustine, <i>City of God</i> (c. 426) 16.7 G. Walsh, et al (NY: Doubleday, 1958), 271
6. "God, the Author of all natures but not of their defe	· · · ·
corrupted by choice and condemned by justice, ha	as produced a progeny that is both
corrupt and condemned For we all existed in the	hat one man [Adam] since, taken
together we were the one man who fell into sin	our nature was already present in
the seed from which we were to spring."	Ibid. 279
Pope Pius XII <i>Humani Generis</i> (1950) • possible to accept evolution of body, but God creates souls	S7 by divine intervention S8
7. "The teaching authority of the Church <b>does not for</b>	•
as far as it inquires into the origin of the human b	
living matter—for Catholic faith obliges us to hol	
[interventionistically] created by God."	
	is" C. Carlen, ed., <i>Papal Encyclicals 1939-1958</i> (USA: McGrath Publishers, 1981), 181
• firmly rejects polygenism because of Doctrine of Original S	Sin S9
8. "There is question of another conjectural opinion, na	amely <b>polygenism</b> , the children
of the Church by <b>no</b> means enjoy such liberty. For	the faithful <b>cannot</b> embrace that
opinion which maintains either:	
• that after Adam there existed on this earth	true men who did not take their origin
through natural generation from him as f	from the first parent of all <b>or</b>
• that <b>Adam</b> represents a certain number of	*
-	
Now it is in <b>no way apparent</b> how such an opinio	
<b>reconciled</b> with that which the sources of revealed	
the Teaching Authority of the Church [St. Augusti	ine] propose with regard to <b>original sin</b> ,
[1] which proceeds from a sin actually com	mitted by an individual Adam and
[2] which through generation is <b>passed on t</b>	to all and is in everyone as his own." Ibid. 182

QUESTION	Ignis 2 Episoue	S2
is a door being left open regarding the hermeneutics of G	en 2 & 3?	52
"it is no way apparent <b>HOW</b> such an opinion [polygo		
reconciled with" the Bible & the Tradition introduc	-	no
reconciled with the Brole & the Tradition introduce	tu by St. Augusti	lic
HOW?		S3
<ul> <li>recognize the Bible has an Ancient Biology</li> </ul>		
• recognize St. Augustine had an Ancient Biology		S4
<i>• de novo</i> creation of Adam		
<u>REMEMBER</u> : St. Augustine was a Scientific & Historical Concord	list in Gen 1-11	
he accepted:	list in Och 1-11	
• geocentricity, firmament & waters above	Handouts, 79 & 8	8
• worldwide flood	Notes, 120-121	
• spontaneous generation	Ibid.	
• origin of life through seed principles	Ibid.	
		0.5
<ul><li>HOW?</li><li>Iet the Ancient Biology (<i>De Novo</i> Creation of Adam &amp; 1</li></ul>	-Seed Theory) be	S5
INCIDENTAL & NOT the MESSAGE OF FAITH	-Seed Theory) be	
	vistion Tredition	96
• apply the Message-Incident Principle to the Western Chr		<b>S</b> 6
SEPARATE Augustine's ancient biology from his t	neology	
Pope John Paul II "On Evolution" (1996)		<b>S</b> 7
• affirms the scientific theory of evolution		2,
9. "Today, nearly half a century after the publication of the encyclical [i.	e Pius XII]	
	_	
new knowledge leads to the recognition of the theory of evolution as		
hypothesis."       JP II, "Message to Pontifical Academy of Origins: CNS Documentary Service 26 (statementary Service 26 (statement		ion,"
• affirms the spiritual uniqueness of humans from our pre-human evolutionary a	ancestors	<b>S</b> 8
10. "With man, then, we find ourselves in the presence of an ontological		
an <b>ontological</b> leap an " <b>ontological</b> discontinuity."	Ibid.	
<ul> <li>humans have the Image of God &amp; are sinful</li> </ul>	1014.	
C		
• NO MENTION OF ADAM		S9
is the silence speaking volumes & reflecting pastoral sensitivity to people	in the pews?	
Conclusion: Western (Catholic & Protestant) Theological Tradition on Hun	nan Origins	S10
1. Based on the Bible		
accepts Monogenism		
Adam is <u>historical</u> all humans descend from him		
accepts Scientific & Historical Concordism in Gen 1-11		
do you see a hermeneutical problem?		
2. Deeply impacted by St. Augustine		S11
accepts the Doctrine of Original Sin		511
<ul> <li>doctrine depends on Adam being historical</li> </ul>		
QUESTION:		S12
DOES CHRISTIANITY DEPEND ON A <u>HISTORICAL</u> ADAM?		

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IV. Evolutionary Creation: Toward a Christian <u>HYPOTHE</u>	
ON HUMAN ORIGINS	
1. Human Origins & Metaphysics-Physics Principle	S3
METAPHYSICS	S4 H59
God created humans	
God ordained, sustained, and intelligently designed the creation of humans humans have spiritual realities: (1) Image of God (2) sinful	
PHYSICS	
human evolutionary sciences offer overwhelming evidence that humans evolved from	om pre-humans
COMPLEMENTARY RELATIONSHIP:	S5
God ordained, sustained, and intelligently designed a teleological evolutionary prohumans, and during this process humans arose manifesting the Image of God and	
2. Human Origins & Manifestation of Spiritual Realities	S6
NOTE: humans <u>DO NOT</u> evolve from monkeys or chimpanzees!!!	S7 H59
humans & chimps descend from a Last Common Ancestral Population (6 mya	ι)
Anatomically Modern Humans look like us & appear about 200,000 ya	
Behaviorally Modern Humans act like us & appear about 50,000 ya → 1 st appearance of the Image of God &	z sinful behavior
Theories on Manifestation of Spiritual Realities in Behaviorally Modern Humans:	
(1) <u>EVOLUTIONARY MONOGENISM</u>	S8
a pair of pre-humans are given Image of God & moral responsibility quickly specific point in time & they soon sin <ul> <li>Adam &amp; Eve</li> </ul>	ly at one
(2) PUNCTILIAR POLYGENISM	S9
a group of pre-humans are given Image of God & moral responsibility quic specific point in time & they soon sin many Adams & many Eves	
(3) GRADUAL POLYGENISM → Evolutionary Creation	S10
spiritual realities are manifested slowly & MYSTERIOUSLY over an exte time & over many generations of individuals • NO Adam/s & NO Eve/s	nded period of
COMMENTS:	S11
• (1) Evolutionary Monogenism & (2) Punctiliar Polygenism: <u>BOTH</u> accept SCIENTIFIC CONCORDISM	
they tack on Adam/s and Eve/s on the tail end of biological ev	volution
• BUT this is categorically inappropriate <u>BOTH</u> CONFLATE: ancient science ( <i>de novo</i> creation of Adam & ) &	S12 Eve)
modern science (human evolution)	
• This is the same as tacking on the tail end of cosmological evolution a 3-tier does anyone want to do that?	universe S13

THE BIG QUESTION Was Adam a real person?	ode 186 S2
TECHNICAL ANSWER Adam is the retrojective conclusion of ancient biology (immutability of living organ	S3 isms)
Retrojection Latin <i>retro</i> : backward <i>jacere</i> : to throw, cast DEF: taking present experience & casting it backward in time to explain the past	
<ul> <li>THINK LIKE AN ANCIENT PERSON:</li> <li>• ancient people <u>observed</u> that humans are immutable (never change) &amp; only give birth to humans birth → humans birth → humans birth</li> </ul>	S4 nans:
<ul> <li>they <u>retrojected</u> "humans birth humans" observation back in time to creation of the world:</li> <li>← humans birth ← humans birth ← humans birth</li> </ul>	S5
<ul> <li>they reasonably <u>concluded</u>:</li> <li>(1) there must have been an original 1st human</li> <li>(2) this human was created <i>de novo</i> (quick &amp; complete) → Adam</li> </ul>	S6 S7
THE BOTTOM LINE: <i>Adam never existed!</i> Adam was created by retrojecting (extrapolating) the ancient observation of human immu	S8 tability
HUGE IMPLICATIONS: • challenges Christian Tradition & the Doctrine of Original Sin NO 1 st man to commit the 1 st sin NO 1 st man from which sin is transferred to all humans	S9 S10
<ul> <li>challenges the COSMIC FALL</li> <li>NO 1st man to <u>causally connect</u> to the origin of death</li> </ul>	S11
BUT solves the problem with the Fossil Record S Bible: death appears <u>after</u> humans Fossil Record: death appears 100s of millions of years <u>before</u> humans	S12 H52
<ul> <li>(3) <u>GRADUAL POLYGENISM</u> → Evolutionary Creation</li> <li>rejects SCIENTIFIC CONCORDISM <i>de novo</i> creation of Adam is ancient science</li> <li>accepts spiritual realities of Image of God &amp; human sinfulness</li> </ul>	S13
EMBRYOLOGY-EVOLUTION ANALOGYS14BOTH manifest the Image of God & sinfulness during a natural process BUT questions arise on when or how spiritual realities appearS14	-18 H60
According to Gradual Polygenism: WHEN? 5 roughly 50,000 yrs ago → Behaviorally Modern Humans buried their dead with items suggesting a religious belief in an afte HOW? gradual & Mysterious manifestation over many generations	319 H59 erlife

Origins 2 Ep	
. Human Origins & Message-Incident Principle	S2
MESSAGE	S3 H60
Inerrant Spiritual Truths God created humans	
humans bear the Image of God	
humans are sinful	
God judges humans for sin	
	<b>04 11</b> (0
INCIDENT Ancient Biology & Ancient Historiography	S4 H60
Origin of Life	
De Novo Creation Motif	
$1^{st}$ human created quick & complete $\rightarrow$ Adam	
Tribal Formation Motif	
$1^{st}$ tribal head from which <u>all</u> humans descend $\rightarrow$ Adam	
ORIGIN OF DEATH	S5 H60
Lost Idyllic Age Motif	
death enters the world because God judges $1^{st}$ human sinner $\rightarrow$ Adam	
← God launches the COSMIC FALL	
curses & binds the <u>whole</u> creation with death, suffering & deca	У
Re-Cycled & Re-Interpreted Motifs of Origins Theory	S6 H43
• motifs of origins are the scientific & historical paradigms-of-the-day	
Hebrews: (1) re-cycled ANE motifs of origins	
(2) re-interpreted these motifs by replacing pagan theology with Hebrew theo	ology
this literary process was inspired by God	
DIVINE ACCOMMODATION	
• motifs are incidental vessels that deliver spiritual truths	
Lost Idyllic Age Motif: The Etiology of Origin of Death & Cosmic Fall	S7
• this ancient motif is a something-went-wrong-in-the-world account	
points back to the disruption of an original harmony in the world	
negative effects of this event continue into the present	
Answers the Etiological Question:	
What is the cause or reason for the <b>bad things</b> in the world?	
• Gen 3 explains how death & the Cosmic Fall entered the "very good" creation (Gen 1:31)	S8
Adam sinned and God: (1) cursed the earth (v. 18) $\rightarrow$ Cosmic Fall	
(2) condemned Adam to die (v. 19) $\rightarrow$ Origin of Death	
BUT the Lost Idyllic Age Motif is Ancient Historiography	S9
an ancient understanding of history	57
like ancient science → ancient historiography does not align with historical rea	lity
THEREFORE 5	S10
the causal connection in the Bible between the sin of Adam and the origin of death & th	
Fall is based on ancient historiography	
<ul> <li>NO causal connection between sin and death, suffering &amp; decay</li> </ul>	
NO COSMIC FALL $\rightarrow$ confirmed by the Fossil Record	S11 H52

4. Human Origins & the Apostle Paul	Origins 2 Episode 188
Paul believed:	S2 S3
• Adam was a real person (Rom 5 & 1 Cor 15)	
• Death entered the world because of Adam's sin (Rom 5:12)	
• WHOLE creation is in bondage to decay (Rom 8:21) $\rightarrow$ COSMIC FALL	Quotes 2-4
THEREFORE	S4
	~ .
Paul accepted a <u>causal connection</u> between sin of Adam & origin	
QUESTION 1	S5
does Paul's belief in Adam & the Cosmic Fall make both PHYSICAL R	EALITIES?
QUESTION 2	S6
what else did Paul believe regarding the PHYSICAL world?	
KENOTIC HYMN Phil 2:10-11	S7 H6 Notes 17-18
Jesus is Lord: (1) in heaven	
(2) on earth	
(3) IN THE UNDERWORLD	
QUESTION 3	S8
does Paul's belief in the 3-tier universe make it a PHYSICAL REALITY	? NO!
this is also the case with Paul's belief in Adam & the Cosmic Fa	11
his belief <u>DOES NOT</u> make them PHYSICAL REALITI	ES
CONSISTENCY ARGUMENT	S9
Paul accepted Ancient Astronomy & Ancient Geography (3-tier universe	e)
THEREFORE	
consistency argues Paul also accepted Ancient Biology	
• an ancient view of the ORIGIN OF LIFE	
de novo creation of Adam	
• an ancient view of the ORIGIN OF DEATH	
entrance of death into the world through Adam	
CONCLUSION	S10
Paul's belief in the origin of death is based on Ancient Biology	
<ul> <li>NO causal connection between sin &amp; the origin of death</li> </ul>	
• NO COSMIC FALL	S11
<b>Message-Incident Principle &amp; the Kenotic Hymn (Phil 2:10-11)</b> SEPARATE	S12 H5
Message of Faith $\rightarrow$ Jesus is Lord over the creation	
FROM	
Incidental Ancient Science → 3-Tier Universe	
DON'T CONFLATE!	

Message-Incident Principle & the Apostle Paul in Rom 5 &	Origins 2 Episod 8 and 1 Cor 15	<b>le 189</b> 52 H61
SEPARATE		
<u>SPIRITUAL TRUTHS</u> (Message of Faith) Humans are sinful		
God judges humans for sin		
Jesus died for sinful humans THE GC	DSPEL	
Jesus rose physically from death Jesus offers the hope of eternal life		
FROM		
ANCIENT BIOLOGY & ANCIENT HISTORIOGRAPHY Origin of Life	(Incident) S	53 H61
De novo creation of Adam	PRINCIPLE OF	
ALL humans descend from Adam	ACCOMMODATION	
ORIGIN OF DEATH		
Death & COSMIC FALL appeared because of	of Adam	
DON'T CONFLATE!		
THE CHALLENGE: • messages are seamlessly interwoven with incidental Ancie easy to CONFLATE	ent Biology & Ancient Historiog	S4 graphy
• messages include the Gospel $\rightarrow$ "By this Gospel you are	saved" 1 Cor 15:1-8	SQ 6
most Christians CONFLATE Adam & the Gospel 🚽		ution
CONCLUSION		S5
Evolutionary Creation: Toward a Christian <u>HYPOTE</u>	IESIS on Human Origins	
1. Christian Tradition has:		<b>S</b> 6
CONFLATED Spiritual Truths with Incidental Ancient Biology & mistakenly turned an incidental element (Adam) into a D		n)
2. The Bottom Line on Evolutionary Creation: <i>The Image of God &amp; human sin entered</i>	l the world,	S7-9
but <u>NOT</u> through Adam. Christianity is NOT dependent on a histo	wigal Adam	
Christianity is <u>NOT</u> dependent on a histo	orical Aaum.	
NOT easy! Requires an <u>academic</u> understanding of hermeneutics		
<b>3.</b> Most Christians perceive human evolution as a threat to the Bible a	nd to human dignity	S10
BUT a final thought for all Christians:		11 H59
God has evolved a creature (the chimp) which is physically 99% of the same genes), but can't you see that:	y almost identical to humans (ab	out
WE ARE "SOMETHING MORE" THAN OUR	R PHYSICAL FLESH!!!	
We are creators like our Cre	eator	
because we have been created in the	Image of God	

Lamoureux

THE PROBLEM OF EVIL	S2
I. KEY THOUGHTS	S3
1. The existence of evil is the greatest challenge for theism.	S4
1. "There is little doubt that the <b>problem of evil</b> is the most serious <b>intellectual</b> difficulty for <b>theism</b> Stephen Davis, <i>Encountering Evil</i> (Knox Press, 1981), 2	."
THE PROBLEM	S5
IF God is all-knowing,	
THEN he must know about evil	
IF God is all-loving,	
THEN he must want to abolish evil	
IF God is all-powerful, THEN he must be able to abolish evil	
BUT evil exists	
THEREFORE	
God is not all-loving & not all-powerful	
OR	
God does not exist	
THE SOLUTION	<b>S</b> 6
<b>Theodicy</b> $\theta$ εος (theos) God δικη ( <i>dikē</i> ) justice DEF: arguments justifying the existence of evil in a world created by an all-loving, all-powerful, and all-knowing God	
2. <u>ALL</u> theodicies include the notion of "Greater Good"	S7
God allows evil because it serves an ultimate purpose in bringing overall good into the world	
EG selling of Joseph by his brothers $\rightarrow$ he ends up in Egypt & his family is saved from famine	<b>S</b> 8
2. "You [his brothers] intended to harm me, but God intended it for good to accomplish	
what is now being done, the saving of many lives." Gen 50:20	
<ul> <li>3. Christian Theodicies have been intimately connected to Gen 3 &amp; the Fall</li> <li>              • especially the COSMIC FALL      </li> </ul>	S9
	S10
3. "The earth was cursed on account of Adam [Gen 3:18] the whole order of nature was	
subverted by the <b>sin of man</b> Moses does not enumerate all the disadvantages in which	ch
man, by sin, has involved himself; for it appears that all the <b>evils</b> of the present life,	
which experience proves to be innumerable, have proceeded from the same fountain.	
The inclemency of the air, frost, thunders, unseasonable rains, drought, hail, and whate	
is disorderly in the world, are the <b>fruits of sin</b> . Nor is there any other primary cause of <b>discourse</b> . For if the stain of sin had not polluted the world, no enimely would have	
<b>diseases</b> For if the <b>stain of sin</b> had not polluted the world, no animal would have been addicted to prey on blood [ie predation], but the fruits of the earth [plants] would	S11
have sufficed for all, according to the method which God had appointed [Gen 1:30]."	
<i>Commentaries on Genesis</i> (Baker, 1554) I:114, 117; <i>Isaiah</i> (Ethereal Library, 1559) I:2	296
	S12
<ul> <li>Calvin steeped in scientific &amp; historical concordism BUT Gen 3 is built on the Lost Idyllic Age Motif → ancient historiograp</li> <li>Fossil Record <u>falsifies</u> Cosmic Fall inclemency of weather, diseases &amp; predation appear <u>before</u> humans</li> </ul>	

Theodicy Episode	191
II. TRADITIONAL APPROACHES TO THEODICY	S2
Basic Categories of Evil	<b>S</b> 3
DISTINGUISH	
(1) <u>Moral Evil</u>	
due to humans EG murder, rape, torture, etc FROM	
(2) Natural Evil	
due to impersonal forces of nature EG tsunamis, cancers, genetic diseases, etc	
ARGUMENT	
most of the evil in the world is caused by humans sinning against other humans • DEFLECTS responsibility away from God	
COMMENTS:	S4
• BUT God created nature → tsunamis, cancers, genetic diseases, etc	~
God used evolution $\rightarrow$ natural selection & survival of the fittest	
Christians are troubled by these evolutionary mechanisms	
isn't Christianity about: spiritual selection?	S5
survival of the spiritually fittest?	
• can nature & forces of nature be EVIL?	<b>S</b> 6
the term "evil" carries moral overtones	
the natural world is <u>not</u> a moral agent with free will like a human	
<ul> <li>Horrid Natural Realities         this category is more appropriate than "natural evil" → eliminates the moral element     </li> </ul>	nt
opens the possibility they might be part of God's "very good" creation (Gen 1:31)	:11 <b>t</b>
Classical Theodicies	S7
Augustinian Theodicy	<b>S</b> 8
huge impact on Western (Catholic & Protestant) Christianity EG John Calvin	
BASIC PRINCIPLE:	
Original Perfection	
• God created the original creation perfect (Gen 1 & 2)	
• Adam & Eve sin (Gen 3) → moral evil enters the world	
• God judges Adam & Eve (Gen 3) → horrid natural realities enter the world	
Eve suffers increased birth pain (v. 16)	
earth is cursed with thorns & thistles (v. 18)	
Adam is condemned to die (v. 19) $\Rightarrow$ the exection is disrupted $\Rightarrow$ COSMIC FALL	
• the creation is disrupted $\rightarrow$ COSMIC FALL	
COMMENTS: Hermeneutical Problem	S9
Augustine is steeped in scientific & historical concordism	
BUT is this the correct hermeneutic for Gen 1-3?	
Moral Problem	S10
is there justice in one couple's sin leading to a COSMIC FALL?	
EG do babies get cancer in the womb because Adam & Eve sinned?	
Scientific Problem S11	H52
Fossil Record $\rightarrow$ <u>falsifies</u> the COSMIC FALL	
• a reason to reconsider Augustinian Theodicy?	S12
a reason to reconsider the hermeneutics of Gen 1-3 held by St. Augustine and by most Christians through history?	

# IRENAEAN THEODICY

Irenaeus the Bishop of Lyons (130-202)

### BASIC PRINCIPLE:

### **Original Innocence**

- God created the original creation innocent & immature
- claims that morally free & spiritually mature people cannot be created instantaneously
- people need to experience moral evil & horrid natural realities
- moral evil & horrid natural realities are essential in the process of spiritual development

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NOT a downward fall from an originally perfect creation
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BUT an upward development toward spiritual maturity	
<u>COMMENTS</u> : <b>Pedagogical (Educational) Theodicy</b> moral evil & horrid natural realities are "teaching tools"	S3
BUT little impact on Western Church	
Irenaeus a child of his time $\rightarrow$ accepted a historical Adam & Eve	
Modern Theodicies	S4
John Hick's Irenaean-Evolutionary Theodicy	S5
recasts Irenaeus's pedagogical theodicy in an evolutionary context	
BASIC PRINCIPLE: <b>Soul-Making Universe</b> • the purpose of the world is to create people: (1) to know God (2) to love God	
<ul> <li>requirement of the universe → Epistemic Distance from God for humans to have <u>true</u> freedom to develop an <u>uncoerced</u> relationship with God, the world must appear <b>religiously ambiguous</b></li> </ul>	
<ul> <li>moral evil &amp; horrid natural realities contribute to this ambiguity</li> </ul>	
4. "In order to be a person, exercising some measure of genuine freedom, the creature must be brought into existence, not in the immediate divine presence, but at a 'distance' from God. This 'distance' cannot of course be spatial; for God is omnipresent. It must be an epistemic distance, a distance in the cognitive dimension. And the Irenaean hypothesis is that this 'distance' consists, in the cas of humans, in their existence within and as part of a world which functions as an autonomous system and from within which God is not overwhelmingly evident.	e
It is a world [that] is <b>religiously ambiguous</b> , capable <b>both</b> of being seen as	S7
purely natural phenomenon and of being seen as God's creation and	
experienced as mediating his presence. In such a world one can exist as a person	
over against the Creator." Hick, "Irenaean Theodicy," <i>Encountering Evil</i> ,	
COMMENTS: a distancing or hiddenness of God is necessary for us to have <u>true</u> freedo what would the world be like if God was directly in-our-face? Star Trek Jesus beamed down for our every whim & problem Biblical Jesus	S8 m S9
5. Jesus: "For where two or three come together in my na there am I with them." Matt 18:20	me,

• Hick employs the traditional theological concepts:

Deus Absconditus Latin: God who hides

DEF: the hidden character of God

the world  $\rightarrow$  "as purely natural phenomenon"

"as an autonomous system"

*Deus Revelatus* Latin: God who reveals

DEF: the revealing character of God

the world  $\rightarrow$  "as mediating his [God's] presence"

"being seen as God's creation"

### QUESTION

S3

is the natural world "**religiously ambiguous**" as Hick states? is there a balance between *Deus Absconditus & Deus Revelatus*?

### OR

is the natural world religiously <u>un</u>ambiguous?

### Natural Revelation

Romans 1 & Wisdom 13 state that the world points to God's existence humans are accountable & "without excuse" regarding this revelation

### • Theodicean Juxtaposition

Notes 149 S4

**S6** 

S7

DEF: the impact of Intelligent Design in nature is an overpowering response to the existence of both moral evil & horrid natural realities

Cleus Revelatus trumps Deus Absconditus

ID is a incessant "voice" in the world declaring:

- (1) God is in complete control of the world
- (2) God is completely knowledgeable of moral evil & horrid natural realities

PROCESS THEODICY	aka Theology of Nature	S5
reformulates tradition	onal Christian doctrines	
BASIC PRINCIPLE:		
God & humans are in	n a never-ending process of "becoming"	
God is grovelling alo	ong through time just like humans	

# Panentheism NOT pantheism (everything is God) Dipolar God belief that the world and God are inseparable realities, yet distinct realities the world as God's body & God as the world's mind or soul REJECTS: traditional view of God's omniscience → God is <u>not</u> all-knowing traditional view of God's omnipotence → God is <u>not</u> all-powerful THEREFORE: God cannot do anything about moral evil & horrid natural realities **●** God is NOT in control of the world COMMENT:

DEFLECTS responsibility away from God

Incouncy	Lpisode 174
	Lamoureux
II. TOWARD A CHRISTIAN <u>HYPOTHESIS</u> ON THEODICY	S2-3
. Biblical Considerations	S4
HERMENEUTICS OF GENESIS 3 & THE FALL	S5
• Gen 1-11 features ancient cosmogony & ancient historiography (recycled ancient motifs) scientific & historical concordism NOT possible	
<ul> <li>Cosmic Fall in Gen 3 falsified by the fossil record suffering &amp; death have been in the world 100s of millions of years <u>before</u> humans app</li> <li>we need to move beyond Augustinian (Western) Theodicy</li> </ul>	bear
BASIC PRINCIPLE:	S6
The Bible reveals the topic of theodicy in stages	
Revelatory Development in the Bible foundational to Christianity → OLD Testament develops into NEW Testament	S7
6. Jesus: "Do not think that I have come to abolish the Law or the Prophets [Old	Testament];
I have not come to abolish them but to <b>fulfill</b> them." Matt 5:17	_
Examples of Revelatory Development/Fulfilment: Food Laws	S8
OT: some foods are unclean (Lev 19) NT: Jesus declares all foods clean (Mk 7:19) Ethical Laws OT: adulterers were stoned to death (Deut 22:22)	
NT: Jesus tells adulterers not to sin again (Jn 8:11) Atonement for Sin (making amends for sin)	
OT: animal sacrifice (Lev 4) NT: sacrifice of Jesus on the Cross (Heb 10:4, 10)	
COMMENTS:	S9
developments in Ethics & Atonement for Sin → RADICAL shifts ● PRECEDENT for revelatory development with theodicy	
THREE STAGES OF THEODICY IN THE BIBLE	S10
Stage 1: The Fall (Gen 3)	S11
Sin causally connected to suffering & death	
Adam & Eve sin $\rightarrow$ God launches suffering & death into the world (Cosmic Fall)	
Store 7. The Deals of Joh	G10
Stage 2: The Book of Job <u>BEGINS</u> to challenge the notion that sin is causally connected to suffering	S12
Chapters 1-3	
Job loses all possessions, his children are killed & he is stricken by a debilita Chapters 4-37	ting disease
Job's "friends" are still in Stage 1 $\rightarrow$ Job's suffering is <b>causally connected</b> to	o his sin
Chapters 38-41	S13
God enters & points to the Creation & asks Job: (ID Argument)	
• where were you when the foundations of the earth were set? Job 38:4	
• do you know the laws of the heavens? 38:33	
• do you feed the lions? 39:39	
Chapter 42: The Conclusion	S14
Job is humbled by the Creation & God's ID Argument 7. "Surely I spoke of things I did not <b>understand</b> , things too wonderfu me to <b>know</b> ." Job 4	
me to <b>know</b> ." Job 4	+2:3

Theodicy Episode 194

•	Episode 195
<u>COMMENTS</u> :	S2
<ul> <li>Book of Job is structured on the Theodicean Juxtaposition Job's suffering (chap 1-37) is answered by design in nature (chap</li> </ul>	38-41)
<ul> <li>✓ ID trumps suffering &amp; reveals that God is in complete co</li> </ul>	,
• God does NOT give a <u>verbal</u> response	S3
eg, God does not say: "This is how theodicy works"	
God gives a <u>non-verbal</u> response → ID argument Message: "I'm God & I'm in control of the world, including you	r sufforina"
	-
• Mystery is a part of theodicy Job: "things I did not <b>understand</b> , things too wonderful for me to	S4
<ul> <li>things i did not understand, unligs too wonderful for me to</li> <li>humans will <u>never fully</u> understand the issue of theodicy</li> </ul>	
Stage 3: Jesus & the New Testament	S5
Theodicy is fulfilled by Jesus (Matt 5:17) Quote 5	
sin DISCONNECTED from suffering & death	
• <u>RADICAL</u> revelatory development $\rightarrow$ suffering & death have purpose	(teleology)!!!
Teleology (Purpose) of Suffering & Death	S6
<ul> <li>suffering is used to display the work of God</li> </ul>	
8. "As Jesus went along, he saw a <b>man blind from birth</b> . His disciples as	
'Rabbi, who sinned, this man or his parents, that he was born blind?" [	e e
Theodicy]. Neither this man nor his parents sinned,' said Jesus, "but t	
happened so that the <b>work of God might be displayed in his life</b> ." J	ohn 9:1-3
<u>COMMENTS</u> :	S7
Jesus had the perfect opportunity to say: "Neither this man nor his parents sinned, but it's becau	use in Gen 3
Adam & Eve sinned and suffering entered the world'	
Jesus <b>DISCONNECTS</b> sin from suffering	
by implication, he also disconnects sin from death	
• death is used to glorify God	S8
9. At the tomb of Lazarus: "Then Jesus said, 'Did I not tell you that if you	believed,
you would see the glory of God? Jesus called in a loud voice, 'Lazar	rus, come
out!' The dead man came out, his hands and feet wrapped with strips of	of linen,
and a cloth around his face." Job	nn 11:40, 43
• suffering & death of Jesus are used for eternal salvation	S9
10. "Although he [Jesus] was a son, he <b>learned</b> obedience from what he <b>suf</b>	fered and,
once made perfect, he became the source of eternal salvation"	Heb 5:8
COMMENTS:	
pedagogical theodicy extends to Jesus $\rightarrow$ he <u>learned</u> from	suffering!!!
Intelligent Design, Goodness of Creation & Horrid Natural Realities	S10
Jesus' fulfilment of theodicy sheds a <u>RADICAL</u> new light on suffering & death	
horrid natural realities can be seen as purposeful & TELEOLOGICAL:	
(1) <u>another</u> component of God's design in nature	λιοο
they complement traditional design arguments (2) another component of God's "very good" creation (Gen 1:31)	N90 S11
(2) another component of Ood 5 very good creation (Och 1.51)	511

Theodicy Ep	isode	196
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uc	170
	S2

2.	<b>Logical Considerations</b> Theodicy includes rational justifications in responding to the intellectual problem in Key Thought #1	S2
	NOTE: cold, hard, academic arguments rarely help people who are suffering	
	BASIC PRINCIPLES	S3
	Human Sin     we are the greatest source of moral evil in the world	
	✓ Don't blame God, blame us!!!	
	• Faith	S4
	faith is needed to believe:	
	God is ultimately in complete control of the world	
	God is fully aware of people suffering from moral evil & horrid natural realities God will hold people accountable for their moral evil acts at the Final Judgment	
	• Mystery	S5
	we will <u>never fully</u> understand why God allows moral evil & horrid natural realities this is due to the limits of our creaturely epistemology	
	SPECIFIC PRINCIPLES	<b>S</b> 6
	• Fulfilment by Jesus (Matt 5:17) Quote 5	
	don't go to Gen 3 for theodicy, but to the teaching & example of Jesus	
	<ul> <li>moral evil &amp; horrid natural realities are opportunities to display the work of God</li> <li>&amp; glorify him in our life</li> </ul>	
	• Greater Good	S7
	moral evil & horrid natural realities are used by God for the greater good of creating human	s:
	<ul><li>(1) to love God</li><li>(2) to love other humans</li></ul>	
	(3) to enjoy eternity with God & other humans who love him	
	• Pedagogy	<b>S</b> 8
	moral evil & horrid natural realities are "teaching tools" in spiritual development	
	contribute to discipline, testing of faith & spiritual awakening	
	Theodicean Juxtaposition     ID in nature ultimately trumps moral evil & horrid natural realities	S9
	moral evil & horrid natural realities contribute to divine hiddenness ( <i>Deus Absconditus</i> )	)
	☞ creates a world with genuine freedom and which requires faith	,
	EXAMPLES	S10
	PERFECT SOUL-MAKING UNIVERSE	S11
	11. "Honestly now, if you were God, could you possibly dream up any more educational,	
	contrasty, thrilling, beautiful, tantalizing world than Earth to develop spirit in? If you	
	think you could, do you imagine you would be outdoing Earth if you designed a world	
	free of germs, diseases, poisons, pains, malice, explosives and conflicts so its people	
	could relax and enjoy it? Would you, in other words, try to make the world nice and	
	safe—or would you let it be provocative, dangerous and exciting? In actual fact, if it	
	ever came to that I'm sure you would find it impossible to make a better world than	
	<b>God has already made</b> ." Guy Murchie, <i>Seven Mysteries of Life</i> (Houghton Mifflin, 1978), 62	22
	<u>COMMENTS</u> :	S12
	a pedagogical theodicy moral evil & horrid natural realities part of God's "very good" creation (Gen 1	1:31)
	r in find the second seco	

### **Theodicy Episode 197**

S2
~

S3

	Theodicy Episodo	e 1
GREATER GOOD FROM AN ETERNAL PERSPECTIVE		
<b>12.</b> "I consider that our present <b>sufferings</b> are not worth comparing		
revealed in us For our light and momentary troubles are <b>a</b>	C	
glory that far outweighs them all all things work together	for <b>good</b> to those who	
love God."	Rom 8:18, 28; 2 Cor 4:17	
<u>COMMENTS</u> : "all things" → include moral evil & horrid natu IF there is eternal life,	ral realities	
THEN our complaints in this life will look q	uite insignificant	
SPIRITUAL DEVELOPMENT & HOPE OF ETERNITY		
13. Letter by Emma Darwin to Charles (1861): "I am sure you kn	low I love you well enough	
to believe that I mind your suffering nearly as much as I shou	ld my own and I find the	
only relief to my mind is to take it as from God's hand, and	to try to <b>believe</b> that all	
suffering and illness is <b>meant</b> to help us to exalt our minds an	nd to look forward with	
hope to a future state." Auto	obiography of Darwin, 237-8	
<u>COMMENTS</u> :		
a pedagogical theodicy that reflects the importan Emma Darwin was very religious	ce of faith in theodicy	
SPIRITUAL DEVELOPMENT & TESTING OF FAITH		
14. "Consider it pure joy, my brothers, whenever you face trials	of many kinds, because you	1
know that the <b>testing</b> of your faith <b>develops</b> perseverance. F	Perseverance must finish its	
work so that you may be mature and complete, not lacking	anything." James 1:2-4	
COMMENTS:		
radicality of Christian theodicy!		
how often to we consider our trials PURE JOY?		
GOODNESS OF DISCIPLINE		
<b>15.</b> "God <b>disciplines</b> us for our <b>good</b> that we may share in his hol	iness. No discipline seems	
pleasant at the time, but painful. Later on, however, it produ	ces a harvest of righteousne	ess
and peace for those who have been trained by it."	Heb 12:10-1	11
16. "Before I was afflicted I went astray, but now I obey your [G	od's] word. You are good	
and what you do is good; teach me your decrees It was g	good for me to be afflicted	
so that I might learn your decrees In your faithfulness you	u have <b>afflicted</b> me." Ps 119:67-8, 71, 75	5
COMMENTS:	10119.07 0, 71, 72	5
Christians are notorious in praising God for toys ever hear Christians praising God for dis		
SPIRITUAL AWAKENING		
17. C.S. Lewis: "God whispers to us in our pleasures, speaks in or	ur conscience, but shouts in	n
our pains: it is his megaphone to rouse a deaf world."		

Problem of Pain (Macmillan, 1962), 93

### COMMENTS:

pain forces most people to think seriously about the largest questions in life • is there a God? is there life after death? is eternal life attainable?

S4

S5

**S**6

**S**7

**S**8

**S**9

Theodicy also includes a personal component that is "meta-rational" or "supra-rational"	
NOTE: our lives are <u>not</u> limited to just logic & math	
we are also shaped by "messy" personal experiences	
messy personal experience has it's own "logic" that transcends rationality EG popular aphorism: "The heart has its own reasons"	
Lo popular apronomi. The near thas its own reasons	
	S3
• justification for moral evil & horrid natural realities includes "understanding" they have purpose b	у
personally living through them	
to appreciate this principle often comes with time & many experiences such as these	
QUESTION: have you ever had a really <b>evil</b> or <b>horrid</b> experience, and now you look back and say	S4
"I'm glad that happened because it was <b>good</b> for me?"	•
IF you can,	
THEN your theodicy includes an experiential (personal) component	
• personal struggles are GOOD!!!	S5
struggling with God is an essential part of the human spiritual voyage	
<ul> <li>questioning God's goodness &amp; even his existence because of moral evil &amp; horrid nature</li> </ul>	al
realities is spiritually healthy	
	S6
( <i>sārāh</i> ) to struggle, persist	
ن ('ēl) God	
18. "Your name will no longer be Jacob, but Israel, because you have	
struggled with God and with men and have overcome." Gen 32:28	
Alexander Solzhenitsyn	<b>S</b> 7
political prisoner in a Russian prison & an Orthodox Christian.	
19. "It was only when I lay there on rotting prison straw that I sensed within myself the first	
stirrings of good. Gradually it was disclosed to me that the line separating good and evil	
passes not through states, nor between classes, nor between political parties either-but	
right through every human heart—and through all human hearts That is why I turn	<b>S</b> 8
back to the years of my imprisonment and say, sometimes to the astonishment of those	
about me: "Bless you, prison!" I nourished my soul there, and I say without hesitation:	
<b>"Bless you, prison, for having been in my life!"</b> Gulag Archipela	90
II:615-6	17
QUESTION: can you take the most morally evil experience or horrid natural reality in your life and say:	S9
"Rless you for having been in my life "	

3. Experiential Considerations

Theodicy Episode 198

S2

"Bless you, _____, for having been in my life."

Theodicy Episode 199
CONCLUSION: Toward a Christian HYPOTHESIS on Theodicy S2
1. All theodicies are Limited S3
• they only provide some reasonable justifications for moral evil & horrid natural realities
BUT they are never completely satisfying
Why?
mystery & faith are essential components
messy personal experience is also a component $\rightarrow$ not everyone has the same experience
logical arguments are rarely helpful when someone is suffering
<ul> <li>2. Pedagogical &amp; Greater Good arguments are common in theodicies</li> <li>• many people acknowledge that moral evil &amp; horrid natural realities often teach them valuable insights and lead to good</li> </ul>
• personal experience of moral evil & horrid natural realities in retrospect (usually a long time afterward)
seems to offer one of the best justifications for their presence in a world created by an all-loving,
all-powerful, and all-knowing God
<b>3.</b> Our universe appears to be the Perfect stage for soul-making S5
• the central purpose of this existence is to understand & experience LOVE: (1) to love God
(2) to love one another
• to fully understand love, we need to know & experience what lacking love is → moral evil
4. Christian theodicies find their Fulfilment in Jesus       S6         IF Jesus "learned obedience from what he suffered" (Heb 5:8)       S6
THEN Christians should as well
IF Jesus through death "became a source of eternal salvation" (Heb 5:8)
THEN death has an ultimate purpose & Christians should be grateful
5. The Creation <u>Heals</u> us in times when we face suffering & death Book of Job:
ID in nature declares that God is in complete control of the world, including suffering & death
6. Theodicy & Evolution: Why did God create through evolution?S8• to maintain God's epistemic distance & his Deus Absconditus characterS8
IF the fossil record were like the YEC & PC fossil pattern predictions, S9-10 H52
THEN God would be like the "Star Trek Jesus"
this would be scientific proof for the existence of God & concordism
BUT this would totally disrupt the world as we know it
completely destroy the need of faith
<ul> <li>• to provide a "very good" world (Gen 1:31) with <u>real</u> freedom to develop a <u>real</u> relationship with God</li> <li>• an uncoerced &amp; truly loving relationship</li> </ul>
God has given us the freedom to believe whether evolution is:
(1) dysteleological $\rightarrow$ NO plan, purpose & design $\rightarrow$ NO God
OR
(2) teleological $\rightarrow$ planned, purposeful & designed $\rightarrow$ ordained & sustained by God

Lamoureux

Conclusion Episode 200		
COURSE CONC	CLUSIONS s:	1
<b>1. Science &amp; Religion can be in a Peaceful &amp; Fruitful</b> In fact, there are many different relationships	l Relationship S2	2
EG John Haught → Contrast, Contact & Confir	mation S.	3
Ian Barbour → Independence, Dialogue & I	ntegration S4	1
Lamoureux → Compartment, Border & Cor	nplementary S5 H18	3
BUT Richard Dawkins states:	S	6
1. "Are science and religion converging? No	o Convergence? Only when it suits.	
To an <b>honest</b> judge, the alleged marriag	e between religion and science is a shallow,	
	ake Oil & Holy Water: Illogical Thinking Is the Only Thing Joining Science & Religion Together" <i>Forbes ASAP</i> (4 Oct 1999), 235, 23	
QUESTION: is Dawkins correct?		
2. Problems with Science & Religion Warfare	S	7
• Dichotomies	S8 H1	l
Science vs. Religion; Evolution vs. Creation		
Conflations     Science & Atheism; Religion & Young Earth	Creation	
Concordism	S	9
The Bible is not a book of modern science $\rightarrow$		
Warfare Relationship Fails	S10 H	1
3. Toward <b>A</b> Solution	S11	1
METAPHYSICS-PHYSICS PRINCIPLE	S12 H3	5
Charles Darwin:	S13	3
2. "It seems to me <b>absurd to doubt</b> that a n	nan may be an <b>ardent theist</b>	
<b>&amp; an evolutionist</b> ." Fordyce (1879)		
<ul> <li>crushes Dichotomies &amp; Confl</li> </ul>	ations	
MESSAGE-INCIDENT PRINCIPLE	S14 H:	5
Galileo (Cardinal Baronio):	S1:	5
<b>3.</b> "The intention of the Holy Spirit is to tea		
and not how heaven goes." Christina (161	.5)	
<ul> <li>crushes Concordism</li> </ul>		
THE KEY: Non-Concordist Hermer	neutic \$16 H71, 80	5
God ACCOMMODATED		
4. Toward a Two Divine Books Complementary Rela	tionship in an Evolutionary World S17-18	8
INTEGRATES Metaphysics-Physics Principle & N	Aessage-Incident Principle S19 H6	1
reciprocal exchange of information between Scr		
• Scripture reveals Spiritual Truths:	I man a sur a s	
	lained, sustained & intelligently designed	
<ul> <li>Evolutionary Sciences <u>reveal</u> scientific fac</li> </ul>	ts:	
the universe & life evolved $\rightarrow$ self-ass	embling natural process	
Evolutionary Creation: God created the uni	verse & life through teleological evolution	
5. Pastoral & Pedagogical Sensitivity	S20	)
PLEASE do not drop in Sunday school the "NO Al	DAM BOMB!"	
encourage & up lift people		
6. THANK YOU!	S2	1

# SUPPLEMENTARY QUOTES

# **CATEGORIES & PRINCIPLES**

### SPECIAL REVELATION:

**SQ 1.** In the beginning was the Word, and the Word was with God, and the Word was God. He was with God in the beginning. Through Him all things were made; without Him nothing was made that has been made. . . . The Word became flesh and lived for a while among us. John 1:1-3, 14

**SQ 2.** All Scripture is God-breathed and is useful for teaching, rebuking, correcting, and training in righteousness so that the man of God may be thoroughly equipped for every good work. 2 Tim 3:16-17

SQ 3. They [Jews] have been entrusted with the very words of God. Rom 3:2

### **GENERAL REVELATION:**

**SQ 4.** The heavens declare the glory of God; the firmament proclaims the work of His hands. Day after day they pour forth speech; night after night they display knowledge. They have no speech, they use no words; no sound is heard from them. Yet their voice [or line] goes out into all the earth, their words to the ends of the world. Ps 19:1-4

**SQ 5.** What may be known about God is plain to them, because God has made it plain to them. For since the creation of the world God's invisible qualities—his eternal power and divine nature—have been clearly seen, being understood from what has been made, so that men are without excuse. Rom 1:19-20 **SQ 6.** Indeed, when Gentiles, who do not have the law, do by nature things required by the law, they are a law for themselves, even though they do not have the law, since they show that the requirements of the law are written on their

hearts, their consciences also bearing witness, and their thoughts now accusing, now defending them. Rom 2:14-15

### GOD'S SPECIFIC ATTRIBUTES:

**SQ 7.** Holy, holy is the Lord God Almighty, who was, and is, and is to come. Rev 4:8

SQ 8. O Lord . . . for you alone are Holy. Rev 15:4

**SQ 9.** Whoever does not love does not know God, because God is love.

1 Jn 4:8

**SQ 10.** God is love. Whoever lives in God lives in love, and God in him.

1 Jn 4:16

SQ 11. God is just: He will pay back trouble to those who trouble you, and give relief to you who are troubled, and to us as well. 1 Thess 1:6SQ 12. For the Lord is a God of justice. Blessed are all who wait for him. Is 30:18

**SQ 13.** For the Lord your God is a merciful God. Deut 4:31 **SQ 14.** The Lord our God is merciful and forgiving, even though we have rebelled against Him. Dan 9:9

### EPISTEMOLOGICAL CATEGORIES

**SQ 15.** He [God] will be the sure foundation for your times, a rich store of salvation and wisdom and knowledge; the fear of the Lord is the KEY to this treasure. Is 33:6

### BIBLICAL PASSAGES ON MYSTERY

SQ 16. Can you fathom the mysteries of God? Can you probe the limits of the Almighty? They are higher than the heavens-what can you do? They are deeper than the depths of the grave-what can you know? Their measure is longer than the earth and wider than the sea. Job 11:7-9
SQ 17. Beyond all question, the mystery of godliness is great: He [God] appeared in a body, was vindicated by the Spirit, was seen by angels, was preached among the nations, was believed on in the world, was taken up into glory. 1 Tim 3:16.

**SQ 18.** If I have the gift of prophecy and can fathom all mysteries and all knowledge, . . . but have not love, I am nothing. 1 Cor 13:2

**SQ 19.** "The God of the Old Testament is arguably the most unpleasant character in all fiction; jealous and proud of it; a petty, unjust, unforgiving control-freak; a vindictive, bloodthirsty ethnic cleanser; a misogynistic, homophobic, racist, infanticidal, genocidal, filicidal, pestilential, megalomaniacal, sadomasochistic, capriciously malevolent bully."

Richard Dawkins, The God Delusion (New York, NY: Houghton Mifflin, 2006), 31.

### KENOTIC HYMN

SQ 20. Your attitude should be the same as that of Christ Jesus:

Who, being in very nature God,

did not consider equality with God

something to be grasped,

but made himself nothing [KEVO $\omega$  (keno $\bar{o}$ )],

taking the very nature of a servant,

being made in human likeness.

And being found in appearance as a man,

he humbled himself and became obedient to death even death on a cross!

Therefore God exalted him to the highest place and gave him the name that is above every name, that at the name of Jesus every knee should bow,

[1] in heaven and

[2] on earth and

[3] UNDER THE EARTH,

and every tongue confess that <u>Jesus Christ is Lord</u>, to the glory of God the Father.

Phil 2:6-11

### SPIRITUAL STATEMENTS

**SQ 21.** The master of the banquet tasted the water that had been turned to wine. John 2:9

**SQ 22.** Moses thought that his own people would realize that God was using him to rescue them, but they did not. Acts 7:25

**SQ 23.** For this is what the Lord says: "I will make you a terror to yourself and all your friends; with your own eyes you will see them fall by the sword of their enemies. I will hand Judah over to the king of Babylon, who will carry them away to Babylon or put them to the sword." Jer 20:4-6

**SQ 24.** Jesus: "This man [Paul] is my chosen instrument to carry my name before the Gentiles and their kings and before the people of Israel." Acts 8:15

**SQ 25.** God causes his sun to rise on the evil and the good, and sends rain on the righteous and unrighteous. Matt 5:45

**SQ 26.** For you [God] created my inmost being; you knit me together in my mother's womb. Ps 139:13

SQ 27. God saw all that he had made, and it was very good. Gen 1:31

**SQ 28.** God created man in his own image, in the **image of God** he created him; male and female he created them. Gen 1:27

SQ 29. For all have sinned and fall short of the Glory of God. Rom 3:23

### HISTORICAL STATEMENTS

**SQ 30.** Many have undertaken to draw up an **account** of the things [ministry of Jesus] that have been fulfilled among us, just as they were handed down to us by those who from the first were eyewitnesses and servants of the word. Therefore, since I myself have carefully investigated everything from the beginning, it seemed good also to me to write an **orderly account** for you, most excellent Theophilus, so that you may know the certainty of the things you have been taught." Luke 1:1-4

**SQ 31.** These are the names of the sons of Israel who entered Egypt with Jacob, each according to his family. Exo 1:1

**SQ 32.** The war between the house of Saul and the house of David lasted a long time. 2 Sam 3:1

SQ 33. In the time Herod the king of Judea . . . Luke 1:5

**SQ 34.** The Lord God formed the man from the dust of the ground and breathed into his nostrils the breath of life, and the man became a living being. Gen 2:7

# WHAT IS RELIGION?

### SQ 1. Oxford English Dictionary definition of "Religion"

1a. a state of life bound by monastic vows; the condition of one who is a member of a religious order, especially in the Roman Catholic Church.3a. action or conduct indicating a belief in, reverence for, and desire to please, a divine ruling power; the exercise or practice or observances implying this.4a. a particular system of faith and worship.

5a. recognition on the part of man of some higher unseen power as having control of his destiny, and as being entitle to obedience, reverence, and worship; the general acceptance of this feeling as a standard of spiritual and practical life.

6a. devotion to some principle; strict fidelity or faithfulness; conscientiousness; pious affection or attachment.

### SQ 2. James Fowler's Stages of Faith Development

Stage 1. Intuitive-Projective Faith (3 to 7 years)

•Imagination and fantasy-filled.

- •Unfettered by logic (little deductive & inductive ability).
- •Cannot see from other perspectives (the 1st narcissism).
- •Awareness of life and death.

•God is 'magical,' anthropomorphic and highly personal. [Seen in ancient/primitive peoples]

Stage 2. Mythic-Literal Faith (7-12 years)

•Beliefs, stories and symbols are literal. These have only one meaning which is defined by others (family).

•Deductive and inductive ability begins. Thinking is 'concrete operational.'

•Still has difficulty stepping 'outside' own perspective to reflect upon it.

•Moral sense develops but is legalistic.

•God is a monarchical king.

Stage 3. Synthetic-Conventional Faith (12-20 years. Adults with limited education)

•World expands beyond family to encounter societal influences.

•Strong conformism to society evident. Attempt to balance and synthesize both influencing factors.

•Self-consciousness develops and the ability to see oneself through other people's eyes.

•Thinking is 'formal operational.' Beliefs held in a loose cluster. Few apparent contradictions, intellectual tensions or paradoxes perceived.

- •Adolescent 'identity crisis' occurs.
- •Utter vastness of the world results in a sense of awe and mystery.

•God is more abstract and transcendent, yet also remains immanent and is pictured as ruler, teacher, physician, *etc*.

<u>Stage 4. Individuative-Reflective Faith</u> (Young Adult. Not reached by all adults) •Most forced into making choices—lifestyle, career, beliefs. Development of a personal worldview.

- •Disillusion of traditional authorities.
- •Recognition of cultural and societal relativism in determining values.
- •Opinion of others less valued (the 2nd narcissism).

•Thinking is 'critical.' Extreme confidence in power of critical reasoning.

- •Apparent contradictions, intellectual tensions and paradoxes in life are recognized but forced into simple dichotomies ('either/or' understanding).
- •Literalism of inherited stories, symbols and myths rejected.
- •Some re-enforce the faith tradition, others break from it completely.

Stage 5. Conjunctive Faith (Middle Age)

•Ability to live with apparent contradictions, intellectual tensions and paradoxes in life.

•Recognition that these offer meaningful truths through a dialectical process. Appreciation of the power of stories, symbols and myths.

- •Affirms other religious views while remaining grounded in own tradition.
- •Transcends faith boundaries and leans toward ecumenicity.
- •Avoids relativism and accepts universal values.
- •Genuine openness to change.

•Weakness of this stage is that these middle-aged individuals are usually trapped between an untransformed world and their transforming vision.

•God pictured in dynamic relationships typical of parents, spouses or friends. Stage 6. Universalizing Faith (Late in Life. Only 1-2% of Adults)

- •Love God unselfconsciously. Total trust and loyalty.
- •Intense revelatory and transcendent experiences.
- •Every aspect of life integrated into faith.

•Activist incarnation of beliefs–selfless commitment to the transformation of the world into a transcendent actuality.

•Become leaders and models of society.

•Will die for beliefs and frequently have been martyrs.

James W. Fowler, Stages of Faith: The Psychology of Human Development and the Quest for Meaning (San Francisco: Harper & Row, 1981)

# WHAT IS SCIENCE?

# SQ 1. Oxford English Dictionary definition of "Science"

1a. the state of fact of knowing; knowledge or cognizance of something specified or implied; also wider reference, knowledge (more or less extensive) as a personal attribute. . . . *Philosophy*: in sense of 'knowledge' as opposed to 'belief' or 'opinion.'

2a. knowledge acquired by study; acquaintance with or master of any department of learning.

3a. a particular branch of knowledge or study; a recognized department of learning.

4a. **in a more restricted sense**: a branch of study which is concerned either with a connected body of demonstrated truths or with observed facts systematically classified and more or less colligated by being brought under general laws, and which includes trustworthy methods for the discovery of new truth within its own domain.

4b. **in modern use**, often treated as synonymous with **'Natural and Physical Science**,' and thus restricted to those branches of study that relate to the phenomena of the material universe and their laws.

### MOSES & 1ST REFERENCES TO WRITING IN THE BIBLE

**SQ 2.** Then the Lord said to Moses, "**Write** this on a **scroll** as something to be remembered and make sure that Joshua hears it, because I will completely erase the memory of the Amalekites under heaven." Exo 17:14.

**SQ 3.** Moses then **wrote down** everything the Lord had said.... Then he [Moses] took the **Book** of the Covenant and read it to the people. Exo 24:4, 7 **SQ 4.** [Moses to the Lord]: But now, please forgive their sin–but if not, then blot me out of the **book** you have **written**. The Lord replied, "Whoever has sinned against me I will blot out of my **book**." Exo 32:32-33.

**SQ 5.** At the Lord's command Moses **recorded** the stages in their journey. Num 33:2

**SQ 6.** So Moses **wrote** down this law and gave it to the priests, the sons of Levi, who carried the ark of the Lord, and to all the elders of Israel. . . . After Moses finished writing in a **book** the words of this law from beginning to end, he gave this commandment to the Levites who carried the ark of the covenant to the Lord.: "Take this **Book of the Law** and place it beside the ark of the covenant of the Lord your God." Deut 31:9, 24-26

### JESUS & ANCIENT MEDICINE

**SQ 7.** A man approached Jesus and knelt before him. "Lord, have mercy on my son," he said. "He is an **epileptic** and is suffering greatly. He often falls into the fire or into the water. . . . After calling the boy to Him, "Jesus rebuked the **demon**, and it came out of the boy, and he was healed from that moment" Matt 17:14-16, 18.

**SQ 8.** Jesus was driving out a **demon** that was **mute**. When the demon left, the man who had been mute spoke. Lk 11:14.

**SQ 9.** Then they brought him a demon-possessed man who was **blind** and **mute**, and Jesus healed him, so that he could both talk and see" Matt 12:22.

**SQ 10.** When Jesus saw that a crowd was running to the scene, he rebuked the **evil spirit**. 'You **deaf** and **mute spirit**,' He said, 'I command you, come out of him and never enter him again.'" Mk 9:25

**SQ 11.** On a Sabbath Jesus was teaching in one of the synagogues, and a woman was there who had been **crippled by a spirit** for eighteen years. She was bent over and **could not straighten up** at all. When Jesus saw her, he called her forward and said to her, "Woman, you are set free from your

infirmity." Then he put his hands on her, and immediately she straightened up and praised God. . . . [Jesus said], "Should not this woman, a daughter of Abraham, whom **Satan has kept bound** for eighteen long years, be set free on the Sabbath day from what bound her?" Lk 13:10-13, 16.

**SQ 12.** Einstein at 16 yrs old: "From the very beginning it appeared to me **intuitively clear**, that judged from the standpoint of such an observer [a person pursuing and keeping pace with a light signal sent out by him], everything would have to happen according to the same laws as for an observer who, relative to the earth, was at rest." Albert Einstein, *Albert Einstein: Philosopher-Scientist* (Evanston, 1949), 53.

# MODELS ON THE RELATIONSHIPS BETWEEN SCIENCE & RELIGION

### John Haught's Criticism of the Multiple Worlds Hypothesis

**SQ 1.** "Although the SAP [**Strong Anthropic Principle**] may not be purely scientific, it may nonetheless be explanatory. Of course, in order to accept the possibility of there being non-scientific ways of explaining phenomena, one would have to give up the **scientistic belief system** [scientism] that rules out all other ways of arriving at knowledge."

John F. Haught, *Science & Religion* (NY: Paulist Press, 1995), 138. SQ 2. "We cannot help suspecting, therefore, that the speculation about numerous, and perhaps an infinite number of, "worlds" often has **nothing** whatsoever to do with science. Rather it is a desperate conflationist attempt by a materialist belief system to ally itself with science in such a way as to diminish the plausibility of any non-materialist, religious interpretation of the cosmos. Beneath the multiple worlds hypothesis there is an implicit, though very telling, confession that if our present big bang universe is in fact the only world-phase that has ever existed, materialist and reductionist explanations would be in serious trouble. For the existence of only this one fine-tuned universe would not provide a statistically broad enough base to allow for the purely random origin of life and mind that skepticism requires."

Ibid., 133-134.

### Paul Davies' Criticism of the Multiple Worlds Hypothesis

**SQ 3.** "Is it easier to **believe** in a Cosmic Designer than the **multiplicity of universes** necessary for the **Weak Anthropic Principle** to work? It is hard to see how either hypothesis could ever be tested in the strict scientific sense. If we cannot visit the other universes or experience them directly, their possible existence must remain just as much a **matter of faith** as **belief in God**. Perhaps future developments in science will lead to more direct evidence for other universes, but until then, the **seemingly miraculous** concurrence of numerical values that nature has assigned to her fundamental constants must remain the most **compelling evidence** for an element of cosmic design. . . . "The **numerical coincidences** could be regarded as evidence of design. The **delicate fine-tuning** in the values of the constants, necessary so that the various different branches of physics can dovetail so felicitously, **might be attributed to God**. It is hard to resist the impression that the present structure of the universe, apparently so sensitive to minor variations in the numbers, has been rather **carefully thought out**. Such a conclusion can, of course, only be

subjective. In the end it boils down to a question of belief." Paul W.C. Davies, *God and the New Physics* (London: Penguin Books, 1983), 189.

# EXAMPLES OF THE STRONG ANTHROPIC PRINCIPLE

### SQ 4. John Barrow & Frank Tippler:

"Over many years there had grown up a collection of largely unpublished results revealing a series of **mysterious coincidences** between the numerical values of the fundamental constants of Nature. The possibility of our existence seems to hinge precariously upon these coincidences. These relationships and many other peculiar aspects of the Universe's make-up appear to be necessary to allow the evolution of carbon-based organisms like ourselves. Furthermore, the twentieth-century *dogma* that human observers occupy a position in the Universe that must not be privileged in any way is strongly challenged by such a line of thinking. Observers will reside only in places where conditions are conducive to their evolution and existence: such sites may well turn out to be **special**."

> John D. Barrow and Frank J. Tippler, *The Cosmological Anthropic Principle* (Oxford: **Oxford University Press**, 1986), xi.

### SQ 5. Paul Davies:

"The universe is thus the product of a competition between the explosive vigour of the Big Bang, and the force of gravity which tries to pull the pieces back together again. In recent years, astrophysicists have come to realize just how **delicately** this competition has been balanced. Had the Big Bang been weaker, the cosmos would have soon fallen back on itself in a Big Crunch. On the other hand, had it been stronger, the cosmic material would have dispersed so rapidly that galaxies would not have formed. Either way, the observed structure of the universe seems to depend very sensitively on the precise matching of explosive vigour to gravitating power.

Just how sensitively is revealed by calculation. At the so-called Planck time ( $10^{-43}$  seconds) (which is the earliest moment at which the concept of space

and time has meaning) the matching was accurate to a staggering one part in  $10^{60}$ . That is to say, had the explosion differed in strength at the outset by only one part in  $10^{60}$ , the universe we now perceive would not exist. To give meaning to these numbers, suppose you wanted to fire a bullet at a one-inch target on the other side of the universe, twenty billion light years away. Your aim would have to be accurate to that same part in  $10^{60}$ ."

Paul W.C. Davies, God and the New Physics, 189.

### SQ 6. Roger Penrose:

"In order to produce a universe resembling the one in which we live, the Creator would have to aim for an absurdly tiny volume of the phase space of possible universes—about  $1/10^{123}$  of the entire volume.... This is an extraordinary figure. One could not possibly even *write down the number in full*, ordinary denary [base-10] notation: it would be '1' followed by  $10^{123}$  successive '0's! Even if we were to write a '0' on each separate proton and on each separate neutron in the entire universe—and we could throw in all the other particles for good measure—we should fall far short of writing down the figure needed.

Roger Penrose, *The Emperor's New Mind: Concerning Computers, Minds, and The Laws of Physics* (Oxford: University Press, 1989), 343-344.

### SQ 7. Alister McGrath:

**Fine tuning of fundamental cosmological constants** immediately following the Big Bang:

(1) If the **strong coupling constant** was slightly smaller, hydrogen would be the only element in the universe. Since the evolution of life as we know it is fundamentally dependent on the chemical properties of carbon, that life could not have come into being without some hydrogen being converted to carbon by fusion. On the other hand, if the strong coupling constant were slightly larger (even by as much as 2 percent), the hydrogen would have been converted to helium, with the result that no long-lived stars would have been formed. In that such stars are regarded as essential to the emergence of life, such a conversion would have led to life as we know it failing to emerge.

(2) If the **weak fine constant** was slightly smaller, no hydrogen would have formed during the early history of the universe. Consequently, no stars would have been formed. On the other hand, if it was slightly larger, supernovae would have been unable to eject the heavier elements necessary for life. In either case, life as we know it could not have emerged.

(3) If the **electromagnetic fine structure constant** was slightly larger, the stars would not be hot enough to warm planets to a temperature sufficient to maintain life in the form in which we know it. If smaller, the stars would have burned out too quickly to allow life to evolve on these planets.

(4) If the **gravitational fine structure constant** were slightly smaller, stars and planets would not have been able to form, on account of the gravitational constraints necessary for coalescence of their constituent material. If stronger, the stars thus formed would have burned out too quickly to allow the evolution of life (as with the electromagnetic fine structure constant)."

Alister E. McGrath, *The Foundations of Dialogue in Science and Religion* (Oxford: Blackwell, 1998), 113.

### SQ 8. Michael Denton:

"I believe the evidence strongly suggests that the cosmos is uniquely fit for only one type of biology-that which exists on earth ...

Even more radically, I believe that there is a considerable amount of evidence for believing that the cosmos is **uniquely fit** for only **one** type of advanced intelligent life–beings of design and biology very similar to our own species, *Homo sapiens* ...

If the properties of water were not almost **precisely** what they are, carbon-based life would in all probability be impossible. Even the viscosity of ice is **fit**. If it were any greater, then all the water on earth might be trapped in vast immobile ice sheets in the poles ...

The **fitness** of carbon compounds for life is maximal in the same temperature range that water is a fluid. Both the strong covalent and the weak bond are of maximal utility in this same temperature range. Such coincidences are **precisely** what one might expect to see in a cosmos specially adapted for carbon-based life ...

Oxygen is a very reactive atom and it can only be utilized by biochemical systems because of a number of adaptions, including: the attenuation of its reactivity below about 50° C; its low solubility; the fact that the transitional atoms such as iron and copper have just the right chemical characteristics to manipulate the oxygen atom; that the end product of oxidation of carbon is carbon dioxide, an innocuous gas. Moreover, the reaction of carbon dioxide with water provides living things with a buffer–the bicarbonate buffer which has just the right characteristics to buffer organisms, especially air-breathing organisms, against increases in acidity. The **chain of coincidences** in the nature of things which permit higher forms of life to utilize oxygen provides further evidence of the **unique fitness** of nature for carbon-based life."

Michael J. Denton, *Nature's Destiny: How the Laws of Biology Reveal Purpose in the Universe* (NY: Free Press, 1998), xiii, 19, 101, 117.

### SQ 9. Simon Conway Morris:

"The central theme of this book depends on the realities of evolutionary convergence: the recurrent tendency of biological organization to arrive at the same 'solution' to a particular 'need.""... [The book's] main, but not ultimate, aim is to argue that, contrary to received wisdom, the emergence of human intelligence is a near-inevitability."

Simon Conway Morris, *Life's Solution: Inevitable Humans in a Lonely Universe* (Cambridge: University Press, 2003), xii.

### MICHAEL BEHE & INTELLIGENT DESIGN THEORY

**SQ 10.** "By **irreducibly complex** I mean a single system composed of several well-matched, interacting parts that contribute to the basic function, wherein the removal of any one of the parts causes the system to effectively cease functioning. An irreducibly complex system cannot be produced directly (that is, by continuously improving the initial function, which continues to work by the same mechanism) by slight, successive modifications of a precursor system, because any precursor to an irreducibly complex system that is missing a part is by definition nonfunctional. An irreducibly complex biological system, if there is such a thing, would be a powerful challenge to Darwinian evolution. Since natural selection can only choose systems that are already working, then if a biological system cannot be produced gradually it would have to arise as an integrated unit, **in one fell swoop**, for natural selection to have anything to act on."

Michael J. Behe, Darwin's Black Box: The Biochemical Challenge to Evolution (New York: Free Press,1996), 39.

### LIVING WATERS

**SQ 11.** "When a Samaritan woman came to draw water, Jesus said to her, 'Will you give me a drink?' The Samaritan woman said to Him, 'You are a Jew and I am a Samaritan woman. How can you ask me for a drink?' (For Jews do not associate with Samaritans) Jesus answered her, 'If you knew the gift of God and Who it is that asks you for a drink, you would have asked him and he would have given you **living waters**... whoever drinks the water I give him **will never be thirsty again**. Indeed, the water that I give him will become in him a spring of water welling up at eternal life. John 4:7-10, 14.

# **INTELLIGENT DESIGN & NATURAL REVELATION**

### PRESUPPOSITIONAL APPROACH IN THEOLOGY

**SQ 1.** "I believe in Christianity as I believe that the Sun has risen—not only because I see it, but because by it, I see everything else."

C.S. Lewis, "Is Theology Poetry?" in *Essay Collection and Other Short Pieces* (London: HarperCollins, 2000), 21.

### FLEW COMMENTS ON DAWKINS

**SQ 2.** "The God Delusion, by the atheist writer Richard Dawkins, is remarkable in the first place for having achieved some sort of record by selling more than a million copies. But what is much more remarkable than the economic achievement is that the contents—or **rather lack of contents**— show Dawkins himself to have become what he and his fellow secularists typically believe to be an impossibility: **a secularist bigot**. (Helpfully, my copy of the Oxford English Dictionary defines a bigot as "an obstinate or intolerant adherent of a point of view.")

The fault of Dawkins as an academic (which he still was during the period he composed this book, although he has since retired) was his **scandalous** and apparently deliberate refusal to present the doctrine that he appears to think he has refuted in its strongest form. Thus, we find in his index four references to Einstein. But I find it hard to write with restraint about the **obscurantist refusal** on the part of Dawkins to make any mention of Einstein's most relevant report—that there must be a Divine Intelligence behind the physical world. (I myself think it obvious that if this argument is applicable to the world of physics then it must be hugely more powerful if it is applied to the immeasurably more complicated world of biology.)"

Antony Flew, "A Reply to Richard Dawkins" First Things 188 (Dec 2008), 21.

## **ASTRONOMY & THE GALILEO AFFAIR**

### JOSHUA'S MIRACLE OF STOPPING OF THE SUN

SQ 1. "On the day the Lord gave the Amorites over to Israel, Joshua said to the Lord in the presence of Israel: 'O sun, stand still over Gibeon, O moon, over the Valley of Aijalon.' So the sun stood still, and the moon stopped, till the nation avenged itself on its enemies, as it is written in the Book of Jashar. The sun stopped in the middle of the sky [or heavens] and delayed going down about a full day. There has never been a day like it before or since, a day when the Lord listened to a man. Surely the Lord was fighting for Israel." Jos 10:12-14

### POPE JOHN PAUL II'S COMPLEMENTARY RELATIONSHIP BETWEEN SCIENCE & RELIGION

**SQ 2.** "The **Bible does not concern** itself with the details of the **physical world**, the understanding of which is the competence of human experience and reason. There exist **two realms of knowledge**,

[1] one that has its source in revelation [religion] and

[2] one that reason can discover by its own power [science].

To the latter belong especially the experimental sciences and philosophy. The **distinction** between the two realms is **not** to be understood as **opposition**. The two realms are not altogether foreign to each other; they have points of **contact**. . . . [In particular], **intelligibility**, attested to by the marvellous discoveries of science and technology, lead us, in the last analysis, to that transcendent and primordial **Thought imprinted** on all things."

John Paul II, "Lessons of the Galileo Case," Origins: CNS Documentary Service 22 (1992), 373.

# **GEOLOGY & THE BIBLICAL FLOOD**

**SQ 1.** "He [God] did not spare the ancient world when he brought the **flood** on its ungodly people, but protected **Noah**, a preacher of righteousness, and **seven others**." 2 Pet 2:5

**SQ 2.** "He [Christ] was put to death in the body but made alive by the Spirit, through whom also he went and preached to the spirits in prison who disobeyed long ago when God waited patiently in the **days of Noah** while the **ark** was being built. In it **only a few people, eight in all, were saved** through water, and this water symbolizes baptism that now saves you also—not the removal of dirt from the body but the pledge of a good conscience toward God."

1 Pet 3:18

**SQ 3.** "First of all, you must understand that in **the last days scoffers** will come, scoffing and following their own evil desires. They will say, "Where is this 'coming' he promised? Ever since our fathers died, everything goes on as it has since the beginning of creation." But **they deliberately forget** that long ago by God's word the heavens existed and the earth was formed out of water and with water. By water also the world of that time was deluged and destroyed. By the same word the present heavens & earth are reserved for fire, being kept for the day of judgment and destruction of ungodly men." 2 Pet 3: 3-7 **SQ 4.** "By faith Noah, . . . built an ark to save his family." Heb 11:7 **SQ 5.** In the Genealogy of Jesus: "the son of Noah" Luke 3:36

### THE RARE EARTH HYPOTHESIS

### Peter Ward & Donald Brownlee:

**SQ 6.** "The most distant known galaxies are too young to have enough metals for the formation of Earth-size inner planets. Hazards include energetic quasar-like activity and frequent supernova explosions. . . . Although [globular clusters] contain up to a million stars they are too metal-poor to have inner planets as large as Earth. Solar-mass stars have evolved to giants that are too hot for life on inner planets. . . . [Elliptical galaxies and small galaxies] are too metal-poor. . . . Energetic processes [at the centres of galaxies] impede complex life. . . . Many stars [at the edges of galaxies] are too metal-poor."

Peter D. Ward and Donald Brownlee, *Rare Earth: Why Complex Life Is Uncommon in the Universe* (New York: Copernicus Springer-Verlag, 2000), xxv.

[COMMENT: In other words, most of the stars in the universe do not have planets suitable for life. The importance of the earth's abundant metal content cannot be over emphasized. In the core of the planet, it produces magnetic fields necessary to deflect damaging radiation from outer space. Radioactive metals also provided an internal source of heat that caused volcanoes to spew out water and gases, forming the oceans and atmosphere. And iron, zinc, copper and other metals are essential elements in the biological pathways of living organisms.]

In contrast to most of the universe, Ward and Brownlee assert that the earth is "extraordinarily rare" since it is a "habitable zone." To mention but a few "Rare Earth Factors" for a life-sustaining planet, they recognize: The earth is in the "right kind of galaxy," producing enough heavy elements for life. It is also at the "right position in the galaxy," providing a stable environment without great energy fluctuations in heat, cold, gamma rays, X-rays, etc. Similarly, the sun is the "right mass," not emitting too much life-damaging ultraviolet radiation. The earth is the "right distance" from the sun, allowing for liquid water, which is absolutely necessary for living organisms. The earth is the "right planetary mass" to retain an atmosphere, but allow harmful gases to escape. The moon is the "right distance" from the earth and stabilises the "right tilt" of the planet, resulting in seasons that are not too severe. The earth also has the "right amount" of carbon, not too much to cause excessive heating through a runaway greenhouse effect, but not too little, which would inhibit the development of life. Ibid., xxvii, xxviii, 16 & 275

# **EVOLUTION & DARWIN'S RELIGIOUS BELIEFS**

**SQ 1.** Emma Darwin: "May not the **habit** in scientific pursuits of believing nothing till it is proved [ie, positivism], **influence your mind too much** in other things [like religion] **which cannot be proved in the same way**, and which if true are likely to be **above comprehension** [ie, mystery]. I should say also there is a danger in **giving up** [Biblical] **revelation** which does not exist on the other side [science]; that is, the fear of ingratitude in casting off what has been done for your benefit as well as for that of all the world and which ought to make you more careful, perhaps even fearful lest you should not have taken all the pains you could to judge truly. I do not know whether this is arguing as if **one side were true** and **the other false**, which I meant to avoid, **but I think not**." *Autobiography of Charles Darwin*, 236.

### EPIGRAPHS OF THE ORIGINS OF SPECIES

SQ 2. "But with regard to the material world, we can at least go so far as this-we can perceive that events are brought about not by **insulated** interpositions of Divine power, exerted in each particular case, but by the establishment of general laws." William Whewell *Bridgewater Treatise* SQ 3. "To conclude, therefore, let no man out of a weak conceit of sobriety, or an ill-applied moderation, think or maintain, that a man can search too far or be too well studied in the book of God's word, or in the book of God's works; divinity or philosophy; but rather let men endeavour an endless progress or proficiency in both." Francis Bacon, *Advancement of Learning* (1605) DARWIN'S IMPLICIT THEODICEAN THEODICY

SQ 4. The last sentence in Chapter 3 "Struggle for Existence"

"When we **reflect** on this **struggle** [ie, the struggle for life], we may **console** ourselves with the full **belief**, that the **war of nature** is not incessant, that no fear is felt, that death is generally prompt, and that the **vigorous**, the **healthy**, and the **happy** survive and multiply." Darwin, *Origin of Species*, 79

### DARWIN & INTELLIGENT DESIGN

**SQ 5.** "I remember well the time when the thought of the eye made me cold all over, but I have got over this stage of the complaint, and now small trifling particulars of structure often make me very uncomfortable. The sight of a feather in a peacock's tail, whenever I gaze at it, makes me sick!"

Darwin to Gray, 3 April 1860, LLD, II, 296.

**SQ 6.** "With respect to **design**, I feel more inclined to show a white flag than to fire my usual long-range shot. . . . If anything is **designed**, certainly man

must be: one's "inner consciousness" (though a false guide) tells one so; yet I cannot admit that man's rudimentary mammae . . . were **designed**. If I was to say I believed this, I should believe in the same incredible manner as the orthodox believe the Trinity in Unity. You say that you are in a haze; I am in thick mud; the orthodox would say in fetid, abominable mud; yet I cannot keep out the question. My dear Gray I have written a deal of nonsense."

Darwin to Gray, 11 December 1861, *LLD*, II, 382. **SQ 7.** "The point which you raise on **intelligent design** has perplexed me beyond measure. I am in a complete jumble on the point. One cannot look at this Universe with all living productions & man without believing that all has been **intelligently designed**; yet when I look to  $\star$  each  $\star$  individual organism I can see no evidence of this." Darwin to J.F. Herschel, 23 May 1861

**SQ 8.** "The mind refuses to look at this universe, being what it is without having been **designed**; yet, where one would most expect design, viz. in the structure of a sentient being, the more I think on the subject, the less I can see proof of design. Asa Gray and some others look at each variation (which A. Gray would compare with the rain drops which do not fall on the sea, but on to land to fertilize it) as having been providentially designed."

To Julia Wedgewood, 11 July 1861, LLD, I, 313-4 SQ 9. "But with regard to the use to which the fragments may be put, their shape may be strictly said to be accidental. And here we are led to face a great difficulty, in alluding to which I am aware that I am travelling beyond my proper province. An omniscient Creator must have foreseen every consequence which results from the laws imposed by Him." Charles Darwin, *The Variation of Animals & Plants under Domestication* (1868), II: 427.

SQ 10. "[B]ut how difficult not to speculate! My theology is a simple muddle; I cannot look at the universe as the result of blind chance, yet I can see no evidence of beneficent design, or indeed of design of any kind, in the details. As for  $\star$  each $\star$  variation that has ever occurred having been preordained for a special end, I can no more believe in it than that the spot on which  $\star$  each $\star$ drop of rain falls has been specially ordained."

Darwin to Hooker (12 Jul 1870) in Francis Darwin, ed., *More Life and Letters of Charles Darwin*, 2 vols. (London: John Murray, 1888), I:321

# **GENESIS 1-11: BIBLICAL ACCOUNTS OF ORIGINS** HISTORICITY OF THE NEW TESTAMENT

### Apostle John—Eyewitness

**SQ 1.** "That which was from the beginning, which we have heard, which we have seen with our eyes, which we have looked at and our hands have touched—this we proclaim concerning the Word of Life. The life appeared; we have seen it and testify to it, and we proclaim to you the eternal life, which was with the Father and has appeared to us. We proclaim to you what we have seen and heard, so that you also may have fellowship with us." 1 John 1:1–3 Apostle Peter–Eyewitness

**SQ 2.** "We did not follow cleverly invented stories when we told you about the power and coming of our Lord Jesus Christ, but we were eyewitnesses of his majesty. For he received honor and glory from God the Father when the voice came to him from the Majestic Glory, saying, "This is my Son, whom I love; with him I am well pleased." We ourselves heard this voice that came from heaven when we were with him on the sacred mountain." 2 Peter 1:16–18 Historian Luke

**SQ 3.** "Many have undertaken to draw up an account of the things that have been fulfilled among us, just as they were handed down to us by those who were eyewitnesses and servants of the Word. Therefore, since I myself have carefully investigated everything from the beginning, it seemed good also to me to write an orderly account for you, most excellent Theophilus, so that you may know with certainty of the things you have been taught." Luke 1:1-4 PASSAGES ON CREATIO EX NIHILO

**SQ 4.** I beg you, my child, to look at the heaven and the earth and see everything that is in them, and recognize **that God did not make them out of things that existed**. 2 Maccabees 7:28

**SQ 5.** He is the image of the invisible God, the firstborn of all creation; for in him all things in heaven and on earth were created, things visible and invisible, whether thrones or dominions or rulers or powers--all things have been created through him and for him. He himself is before all things, and in him all things hold together. Col 1:15-17

**SQ 6.** By faith we understand that the universe was formed at God's command, so that what is seen was not made out of what was visible. Heb 11: 3

# SQ 7. <u>The Parable of the Good Samaritan</u> Luke 10:25-37

²⁵ On one occasion an expert in the law stood up to test Jesus. "Teacher," he asked, "what must I do to inherit eternal life?"

²⁶ "What is written in the Law?" he replied. "How do you read it?"

²⁷ He answered, "'Love the Lord your God with all your heart and with all your soul and with all your strength and with all your mind;' and, 'Love your neighbor as yourself.'"

²⁸ "You have answered correctly," Jesus replied. "Do this and you will live."

²⁹ But he wanted to justify himself, so he asked Jesus, "And who is my neighbor?"

³⁰ In reply Jesus said: "A man was going down from Jerusalem to Jericho, when he was attacked by robbers. They stripped him of his clothes, beat him and went away, leaving him half dead.

³¹ A priest happened to be going down the same road, and when he saw the man, he passed by on the other side.

³² So too, a Levite, when he came to the place and saw him, passed by on the other side.

³³ But a Samaritan, as he travelled, came where the man was; and when he saw him, he took pity on him.

³⁴ He went to him and bandaged his wounds, pouring on oil and wine. Then he put the man on his own donkey, brought him to an inn and took care of him.

³⁵ The next day he took out two denarii[e] and gave them to the innkeeper.

'Look after him,' he said, 'and when I return, I will reimburse you for any extra expense you may have.'

³⁶ "Which of these three do you think was a neighbor to the man who fell into the hands of robbers?"

³⁷ The expert in the law replied, "The one who had mercy on him." Jesus told him, "Go and do likewise."

### SQ 8.

# The Parable of the Good Atheist Updating Luke 10:25-37 for Today

²⁵ On one occasion an expert in the law stood up to test Jesus. "Teacher," he asked, "what must I do to inherit eternal life?"

²⁶ "What is written in the Law?" he replied. "How do you read it?"

²⁷ He answered, "'Love the Lord your God with all your heart and with all your soul and with all your strength and with all your mind;' and, 'Love your neighbor as yourself.'"

²⁸ "You have answered correctly," Jesus replied. "Do this and you will live."

²⁹ But he wanted to justify himself, so he asked Jesus, "And who is my neighbor?"

³⁰ In reply Jesus said: "A man was going down from New York City to Washington DC, when he was attacked by robbers. They stripped him of his clothes, beat him and went away, leaving him half dead.

³¹ A **Roman Catholic priest** happened to be going down the same road, and when he saw the man, he passed by on the other side.

³² So too, a **Evangelical Protestant pastor**, when he came to the place and saw him, passed by on the other side.

³³ But an **atheist**, as he travelled, came where the man was; and when he saw him, he took pity on him.

³⁴ He went to him and bandaged his wounds, pouring on oil and wine. Then he put the man on his own donkey, brought him to an inn and took care of him.

³⁵ The next day he took out **five hundred dollars** and gave them to the innkeeper. 'Look after him,' he said, 'and when I return, I will reimburse you for any extra expense you may have.'

³⁶ "Which of these three do you think was a neighbor to the man who fell into the hands of robbers?"

³⁷ The expert in the law replied, "The one who had mercy on him." Jesus told him, "Go and do likewise."

### OLD TESTAMENT LAWS AGAINST INCESTUOUS RELATIONSHIPS

**SQ 9.**⁶ "'No one is to approach any close relative to have sexual relations. I am the LORD.

⁷ "Do not dishonor your father by having sexual relations with your mother. She is your mother; do not have relations with her.

⁸ "Do not have sexual relations with your father's wife; that would dishonor your father.

⁹ "Do not have sexual relations with your sister, either your father's daughter or your mother's daughter, whether she was born in the same home or elsewhere.

¹⁰ "'Do not have sexual relations with your son's daughter or your daughter's daughter; that would dishonor you.

¹¹ "'Do not have sexual relations with the daughter of your father's wife, born to your father; she is your sister.

¹² "Do not have sexual relations with your father's sister; she is your father's close relative.

¹³ "'Do not have sexual relations with your mother's sister, because she is your mother's close relative.

¹⁴ "'Do not dishonor your father's brother by approaching his wife to have sexual relations; she is your aunt.

¹⁵ "'Do not have sexual relations with your daughter-in-law. She is your son's wife; do not have relations with her.

¹⁶ "'Do not have sexual relations with your brother's wife; that would dishonor your brother.

¹⁷ "'Do not have sexual relations with both a woman and her daughter.Do not have sexual relations with either her son's daughter or her daughter's daughter; they are her close relatives. That is wickedness. Leviticus 18:6-17

### POPE JOHN PAUL II & BIBLICAL ACCOUNTS OF ORIGINS

SQ 10. "It is only through humble and assiduous study that she [the Church] learns to dissociate the essentials of faith from the scientific systems of a given age." Pope John Paul II, "A Papal Address on the Church and Science," *Origins: CNS Documentary Service* 13 (1983), 51.

**SQ 11.** "The Bible itself speaks to us of the origin of the universe and its makeup, not in order to provide us with a scientific treatise, but in order to state

the correct relationships of man with God and with the universe. Sacred scripture wishes simply to declare that the world was created by God, and in order to teach this truth it expresses itself in the terms of the cosmology in use at the time of the writer [ie, science-of-the-day].

The sacred book likewise wishes to tell men that the world was not created as the seat of the gods, as was taught by other cosmogonies and cosmologies, but was rather created for the service of man and the glory of God. Any other teaching about the origin and makeup of the universe is **alien to the intentions of the Bible**, which does not wish to teach how heaven was made but how one goes to heaven [Baronio/Galileo]

> Pope John Paul II, "Scripture and Science: The Path of Scientific Discovery," Origins: CNS Documentary Service 11 (15 Oct 1981), 279.

### EVANGELICAL J.I. PACKER & BIBLICAL ACCOUNTS OF ORIGINS

SQ 12. "Genesis 1 and 2, however, tell us WHO without giving many answers about HOW. Some today may think this is a defect; but in the long perspective of history our present day 'scientific' preoccupation with how rather than who looks very odd in itself. Rather than criticize these chapters for not feeding our secular interest, we should take from them a needed rebuke for our perverse passion for knowing Nature without regard for what matters most; namely, knowing Nature's creator.

The **MESSAGE** of these two chapters is this:

'You have seen the sea? the sky? sun, moon, and stars? You have watched the birds and the fish? You have observed the landscape, the vegetation, the animals, the insects, all the big things and little things together? You have marvelled at the wonder and complexity of human beings, with all their powers and skills and the deep feelings of fascination, attraction and affection that men and women arouse in each other? Fantastic, isn't it?

Well now, **meet the one who is behind** [ $\mu$ eta] **it all!**' As if to say: now that you have enjoyed these **works of art**, you must shake hands with the **artist**; since you were thrilled by the music, we will introduce you to the composer. It was to show us the Creator **rather than** the creation and to teach us knowledge of God rather than physical science, that Genesis 1 and 2, along with such celebrations of creation as Psalm 104 and Job 38-41, were written.

James I. Packer, I Want to Be a Christian (Kingsway Publications, 1978), 32-33

# **MODERN ORIGINS DEBATE**

**SQ 1.** "Satan himself is the originator of the concept of evolution ... Then why do they [scientists] believe in evolution? The answer has to be a **spiritual** answer, not scientific ... What else can we call this pervasive belief in evolution, held in spite of all the overwhelming negative evidence against it, except some kind of **delusion**? ... Their minds have been **blinded by Satan** and are under such **strong delusion** that they have become sincerely committed to the false world view of evolution.

Henry M. Morris, *The Troubled Waters of Evolution* (San Diego: Creation LifePublishers, 1982), p. 75. Henry M. Morris, "Strong Delusion," *Back to Genesis* (No.133), in *Acts and Facts* (January 2000) Institute for Creation Research, El Cajon, CA.

### **ORIGINAL SIN & CHRISTIAN CREEDS**

### SQ 2. COUNCIL OF CARTHAGE

"If anyone says that infants are baptized for the forgiveness of sins but contract nothing for **Adam**, original sin ... let them be anathema."

### SQ 3. THE AUGSBURG CONFESSION (LUTHERAN)

"Article II: Of Original Sin" "Since the fall of **Adam**, all human beings who are born in the natural way are conceived and born in sin ... this same innate disease and original sin is truly sin."

### SQ 4. THIRTY-NINE ARTICLES (ANGLICAN)

"Article IX: Of Original or Birth Sin" "Original sin standeth not in the following of **Adam** ... but it is the fault and corruption of the nature of every man that naturally is engendered of the offspring of **Adam**, whereby man is very far gone from original righteousness, and is of his own nature inclined to evil, so that the flesh lusteth always contrary to the spirit; and therefore in every person born into this world, it deserveth God's wrath and damnation."

### SQ 5. THE WESTMINSTER CONFESSION (REFORMED)

"Chapter VI: Of the Fall of Man, of Sin, and of Punishment thereof" "Our first parents [**Adam** & Eve], being seduced by the subtilty and temptation of Satan, sinned in eating the forbidden fruit ... They being the root of all mankind, the guilt of this sin was imputed, and the same death in sin and corrupted nature conveyed to all their posterity descending from them by ordinary generation."

### SQ 6. THE GOSPEL ACCORDING TO THE APOSTLE PAUL

¹ Now, brothers and sisters, I want to remind you of the gospel I preached to you, which you received and on which you have taken your stand. ² By this gospel you are saved, if you hold firmly to the word I preached to you. Otherwise, you have believed in vain.

³ For what I received I passed on to you as of first importance: that Christ died for our sins according to the Scriptures, ⁴ that he was buried, that he was raised on the third day according to the Scriptures, ⁵ and that he appeared to Cephas, and then to the Twelve. ⁶ After that, he appeared to more than five hundred of the brothers and sisters at the same time, most of whom are still living, though some have fallen asleep. ⁷ Then he appeared to James, then to all the apostles, ⁸ and last of all he appeared to me also, as to one abnormally born.

1 Corinthians 15:1-8