

## PROGRAM: 4<sup>th</sup> SYMPOSIUM ON RESEARCH IN GEOSCIENCES

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|---------------|---|--|
| 08:30 - 08:45 | <b>Peter Damiano</b>  | Hybrid MHD-kinetic modeling of standing shear Alfvén waves in space plasmas                                  |
| 08:45 - 09:00 | <b>Peter Dobias</b>   | Nonlinear plasma dynamics: Analogies between physical systems  |
| 09:00 - 09:15 | <b>Kathleen Dohan</b><br>Bruce Sutherland   | Turbulence and waves   |
| 09:15 - 09:30 | <b>Pavlo Cholach</b><br>Douglas R. Schmitt  | Intrinsic anisotropy of rocks: hexagonal versus orthorhombic   |
| 09:30 - 09:45 | <b>Marko Mah</b><br>Douglas R. Schmitt  | Update on the determination of the complete elastic stiffnesses from ultrasonic phase velocity measurements  |
| 09:45 - 10:00 | <b>Dan Khan</b><br>B.J. Rostron   | Hydrogeology in the assessment of CO <sub>2</sub> sequestration in the Midale Reservoir: Weyburn SK, Canada  |
| 10:00 - 10:30 |   | <b>BREAK</b>   |
| 10:30 - 11:10 | <b>Pamela D. Strand</b><br>(Invited)  | Geophysics and other exploration techniques in the search for kimberlites: case examples                     |
| 11:15 - 11:30 | <b>Ahmed Laamrani</b><br>B. Rivard<br>A. Turner                                       | Reflectance spectra of hydrothermally altered carbonate facies, Pine Point District, NWT, Canada             |
| 11:30 - 11:45 | <b>Zuzana Dobiasova</b>   | Earthquake size distribution of the northeastern Pacific plate boundary                                      |
| 11:45 - 12:00 | <b>Wolfgang Soyer</b>   | Electromagnetic induction studies in the central Andes   |
| 12:00 - 13:00 |   | <b>LUNCH</b>   |
| 13:00 - 13:15 | <b>Mehdi Saghafi</b><br>Andy Bush<br>Bruce Sutherland                                 | Vertical mixing in the abyssal ocean   |
| 13:15 - 13:30 | <b>Tingting Shu</b>   | Optimal network of surface observation stations for global climate   |
| 13:30 - 13:45 | <b>Cetin Nilgun</b><br>Paul G. Myers  | A new climatology of the Labrador Sea  |
| 13:45 - 14:00 | <b>Dave Burgess</b>   | Recent changes in areal extent of the Devon ice cap, Nunavut   |
| 14:00 - 14:40 | <b>Raymond Wong</b><br>(Invited)  | Trend detection in geophysical data  |
| 14:45 - 15:15 |   | <b>BREAK</b>   |
| 15:15 - 15:30 | <b>Julian Brimelow</b><br>Gerhard Reuter<br>Ryan Jewell, Harold Brooks<br>Ron Goodson | Numerical modelling of maximum hail size in thunderstorms  |
| 15:30 - 15:45 | <b>M.R. Flynn</b><br>B.R. Sutherland  | Laboratory measurement of internal wave amplitudes   |
| 15:45 - 16:00 | <b>Robert Field</b>   | An overview of the Southeast Asia fire danger rating system project  |
| 16:00 - 16:15 | <b>Wladyslaw Rudzinski</b><br>E.P. Lozowski, M. Farzaneh                              | Laboratory experiments on the icing of a non-energized station post insulator under freezing rain conditions |
| 16:15 - 16:30 | <b>Huamai Yin</b>   | Alberta drought indices  |
| 16:30 - 16:45 | <b>Marek Welz</b>   | Passive seismic as an indicator of large equipment interactions with the oil sand                            |
| 16:45 - 17:00 | <b>Yajun Zhang</b>  | Time-lapse seismic data processing in Senlac area  |