

## **SE04: Recent trends in exploration geophysics**

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### **Session Description**

This session invites contributions on recent trends in exploration geophysics including advances in instrumentation, survey design, data processing and integration, and interpretation. "Exploration" is taken in its broadest sense and is meant to include mineral resources, oil & gas, and groundwater, in both "brown" and "green" field areas. Focus will be on case studies from the Canadian Cordillera and the Western Sedimentary Basin, but the session will include contributions from all regions of Canada. Of particular interest are contributions on the challenges of exploring in rough topography, in complex geological terrains and under overburden cover. New developments in instrumentation, (e.g. gradiometers, airborne IP) and data integration (e.g. joint or stochastic inversion, predictive mapping, 3D subsurface visualization tools) are starting to transform exploration geophysics and will eventually allow for targeting more complex and deeper targets. The session aims at bridging geophysical applications in geology, hydrology and soil science, and therefore contributions featuring how various techniques and approaches can be integrated to increase exploration success are particularly welcome.

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