

## The future of environmental geophysics in exploration geophysics

*Joan E. Embleton\* and Larry R. Lines\*\**

*\* SEG Global Affairs Canada Coordinator and ERG Solutions Ltd.*

*\*\* Department of Geoscience, University of Calgary*

### Summary

The challenges that we face in Alberta and Canada are requiring new environmental solutions to water tables, water resources, well shutins, startup wells, soil contaminants, air quality, oil tailings ponds and landfills. We are planning to combine targeted oil and gas services with scientific research opportunities creating a new dynamic to address international industry needs for new environmental methods. It will be necessary to work with oil and gas companies, industry consortia and governments to deliver optimized methods for improving output and mitigating environmental problems in oil fields and heavy oil tailings ponds. This project is reservoir characterization to develop new solutions for the Alberta environmental difficulties. This global research initiative is seeking collaborations among university, industry, government partners for research and development. This research will focus on both furthering scientific understanding while delivering practical field applications for global environmental issues while benefitting Alberta and Canada.