



Pacific Institute *for the*  
Mathematical Sciences

# PIMS Workshop on Advances in Seismic Imaging and Inversion

May 20-22, 2015

Centennial Centre for Interdisciplinary Sciences  
The University of Alberta

Seismic imaging plays an important role in prospecting for resources and understanding the Earth's interior. This is an example of an inverse problem, in which data are used to estimate subsurface parameters. Traditionally, this has been done using only part of the recorded seismic wavefield (primary reflections); this is seismic migration. Modern techniques are being developed that involve a greater part of the seismic wavefield and incorporate more complete physical models. In this workshop, we will bring together researchers from academia and industry to discuss ways to improve upon, and best utilize these new techniques, as well as new types of models that attempt to better characterize the data.

## INVITED SPEAKERS:

**Peter Bakker** (Shell)

**Andreas Fichtner** (ETH Zurich)

**Sam Gray** (CGG)

**Brian Russell** (Hampson-Russell Software & Services)

**Bill Symes** (Rice University)

## SCHEDULE:

**May 20:** Short course for graduate students

**May 21-22:** Invited and contributed talks

**ORGANIZERS:** *Mauricio D Sacchi (University of Alberta); Kris Innanen (University of Calgary); Alison Malcolm (Memorial University); Michael Lamoureux (University of Calgary)*

**FOR MORE INFORMATION:** <http://uofa.ualberta.ca/physics/research/pims2015>

