

# ALBERTA POWDER DIFFRACTION WORKSHOP



Wednesday 14<sup>th</sup> May to Friday 16<sup>th</sup> May 2008

University of Alberta, Edmonton, Canada

<http://www.cins.ca/apdw/>

#### Lecture Titles Include:

- Introduction to powder diffraction and powder diffraction hardware
- Introduction to the basics of crystallography
- Sample preparation, data collection and phase identification using powder X-ray diffraction
- Introduction to powder profile refinement
- Synchrotron and neutron experiments
- Freely available powder diffraction software
- Profile refinement with GSAS
- Introduction to clay mineral structures
- Quantitative X-ray diffraction analysis of clay bearing samples using BGMN

#### **Chair:**

- *Dr Dipo Omotoso (NRCan)*
- *Professor Doug Ivey (U of Alberta)*

#### **Speakers:**

- *Dr Robert Von Dreele (ANL, USA)*
- *Dr Reinhard Kleeberg (Freiberg, Germany)*
- *Dr Ian Swainson and Lachlan Cranswick (NRC-CNRC, Canada)*

#### **Sponsors:**

- *Canadian Oil Sands Network for Research and Development (CONRAD)*



Natural Resources  
Canada

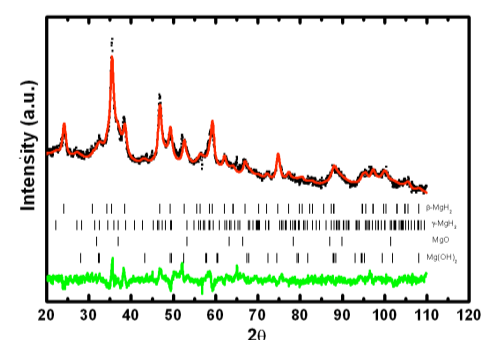
Ressources naturelles  
Canada

Canadian Institute  
for Neutron Scattering



#### Who should attend?

Anyone interested in or currently using powder X-ray or neutron diffraction. Open to graduate students, technicians and researchers who use X-ray and neutron diffraction and who would like to learn Rietveld analysis.



#### Details

##### **Registration costs:**

University based: Cdn \$200  
Regular: Cdn \$400

##### **Accommodations:**

Campus dorm rooms  
starts at Cdn \$39 per night  
Campus conference center rooms  
start at Cdn \$95 per night

##### **Registration deadline:**

Friday, April 18th 2008

Check out the following web site:  
<http://www.cins.ca/apdw/>