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Materials Science & Technology
2013 Conference & Exhibition

call for papers
abstract deadline: march 15, 2013

and **Energy**
Water
in Mineral Processing
symposium

Organizer:



Other organizers:

The American Ceramic Society | Association for Iron & Steel
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Materials Society

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MS&T annual conferences are hosted by four leading materials societies: ACerS, AIST, ASM and TMS. This partnership brings together scientists, engineers, students and suppliers to discuss current research & applications, and to shape the future of materials science and technology.

New for 2013! The Metallurgy and Materials Society of CIM (The Canadian Institute of Mining, Metallurgy and Petroleum) will be a co-organizer of MS&T[®]13. Since corrosion remains a very relevant topic to materials, NACE International will co-sponsor MS&T[®]13.

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and Energy Water in Mineral Processing symposium

The 9th UBC-McGill Symposium on Fundamentals of Mineral Processing will be organized in 2013 by the University of Alberta as part of the COM 2013. The theme will be Water and Energy in Mineral Processing. Water is a process medium in mineral processing, oil sands extraction, and coal washing. Water is also a precious commodity that is being viewed with increasing importance around the world due to continued consumption and environmental regulation. Recycling/reuse of process water is an essential step to reduce or eliminate the intake of fresh water while minimizing the disposal of process-affected water for environment protection. To this end, it is important to understand the interfacial science and interaction of process-affected water with solids in both comminution and physical-chemical separation. This symposium will cover the fundamentals of water chemistry and its role in grinding and separation for enhancing the recovery of valuable minerals and a better handling of tailings in mineral processing, oil sands extraction, and coal washing.

- Impact of water chemistry on grinding efficiency and grinding energy
- Chemistry of process-affected water in froth flotation
- Interfacial phenomena of ultra-fine grinding in process-affected water
- Challenges of mineral processing in high salinity water
- Processing of coal and oil sands in recycle water
- Water chemistry in tailings treatment
- Impact of process-affected water on environment
- Minimizing water use in physical-chemical separation.

Organizers:

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Previous University of British Columbia-McGill University-University of Alberta Symposia:

- 1st Symposium - Processing of Hydrophobic Minerals and Fine Coal, Vancouver, August 1995
- 2nd Symposium - Processing of Complex Ores, Sudbury, August 1997
- 3rd Symposium - The Use of Polymers in Mineral Processing, Quebec City, August 1999
- 4th Symposium - Interactions in Mineral Processing, Toronto, August 2001
- 5th Symposium - Particle Size Enlargement in Mineral Processing, Hamilton, August 2004
- 6th Symposium - Interfacial Phenomena in Fine Particle Technology, Montreal, October 2006
- 7th Symposium - Advances in Mineral Processing Science and Technology, Sudbury, August 2009
- 8th Symposium - Rheology and Processing of Fine Particle System, Vancouver, October, 2010

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