

2nd Annual

WATER MANAGEMENT for MINING

INFOCAST CANADA IS A PROUD MEMBER OF PDAC AND IS PLEASED TO OFFER A 15% DISCOUNT TO PDAC MEMBERS (PLEASE REFERENCE DISCOUNT CODE 132920)

May 8-10, 2013 | St. Andrew's Club & Conference Centre | Toronto, ON Canada

Water Management is Key for Successful Mining Projects

Attend the Only Event in Canada Solely Dedicated to Maximizing Water Management Strategies

Participants will learn how to:

- Minimize and optimize water use throughout the stages of mining production
- Develop long-term water management strategies to serve the life of the mine, from beginning to post-closure
- Lessen the impact of mining on water quality and developing long-term sustainability plans

Featuring 3 Cutting-Edge Case Studies from:



Ms. Jie Dong, Ph.D.,
Senior Research Metallurgist,
Mineral Processing,
VALE



Michel Julien,
Corporate Director
Environment, AGNICO-EAGLE
MINES LIMITED



Kristen Mariuzza, P.E.,
Environmental & Permitting
Manager, Eagle Mine,
RIO TINTO

Special Presentation by:



Gordon Cummings,
CEO & President,
KIMBER RESOURCES INC.

An Infocast Business Intelligence Event

A Must-Attend Event for:

- Mining Companies
- Field Service Companies
- Water Technology Companies
- Water Infrastructure Specialists
- Engineers
- Consultants

Hear from Industry Experts from:

Vale
Rio Tinto
Kimber Resources Inc.
Agnico-Eagle Mines Limited
Hatch
Golder Associates Inc.
MWH Global, Inc.
CH2M Hill
AECOM
SGS
Malcolm Pirnie, the Water Division of ARCADIS
Willms & Shier Environmental Lawyers LLP
Houlihan & Associates Environmental Legal Services
Lawson Lundell LLP
Aqua-Tech Dewatering Company Inc.
Veolia Water Solutions & Technologies
Stewart Environmental Consultants, LLC

Supporting Organizations:

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Don't Miss the Pre-Summit Briefing:



Assessing and Selecting the Best Options for Mine Water Treatment | May 8, 2013

An intensive technical workshop focused on various treatment technologies and modalities.



Set Up Meetings With Other Participants Before the Event Through Our Exclusive Event Contact System

As a confirmed attendee, one week prior to the event you will receive an email with a password that will provide you with exclusive access to other attendees so you can set up meetings before the event.

Infocast Business Intelligence Conferences

Infocast Business Intelligence Conferences provide definitive, up-to-the-minute information on critical business opportunities, challenges and techniques. These conferences deliver information straight from decision-makers and active market participants. There is a lot of data out there; Infocast conferences help turn that data into valuable business intelligence.

Connect with Us



Infocast's 2nd Annual Water Management for Mining

Processing ores and aggregates in mining can require enormous amounts of water. Many mines are located in areas with limited water resources or where growing communities and industries compete with mines for water use. Indeed, water resources, in general, are becoming more limited even as environmental regulations tighten across North America. Using, recycling and disposing of water are becoming bigger issues than ever before for mining companies – one that requires extensive thought, planning, and execution of strategies to address these challenges.

As a result of these pressures, forward-looking mining operations are doing a number of things to manage water use. To stay commercially viable, they're implementing and refining water management systems that ensure efficiency, cost-savings, sustainability and regulatory compliance. They're maximizing their opportunities to recycle and reuse water in their processes. They're assessing short-term solutions in conjunction with long-term preparation to ensure they can be prepared for tightening water regulation while keeping their processes and production optimal, cost-effective and sustainable.

Find out how at Infocast's **2nd Water Management for Mining Summit**, to be held in the mining capital of North America, Toronto, Canada. The only Canadian mining water event, this leading-edge Summit provides mining and water technology companies, engineers, and water infrastructure specialists with a unique forum to meet, network, dig into the issues, and brainstorm solutions for effective water management for the industry.

Attend and gain valuable strategies for:

- Minimizing and optimizing water use throughout the stages of mining production
- Developing long-term water management strategies to serve the life of the mine, from beginning to post-closure
- Lessening the impact of mining on water quality and developing long-term sustainability plans

Don't Miss the Pre-Summit Briefing:



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An intensive technical workshop focused on various treatment technologies and modalities.

2nd Annual Water Management for Mining

Thursday, May 9, 2013

Focus on Planning & Implementing a Mine Water Management System

Presentation: Strategies for Sourcing & Minimizing the Amount of Water Needed On-Site to Achieve Long-Term Sustainability

- » Assessing the planned operation to ensure a water supply and sustainability: factors to consider
- » Mining design strategies at the outset that help minimize water needs throughout the operation
- » How to evaluate whether the water needs any treatment before use – and if so, how much treatment is needed
- » Best methods for reducing evaporation to save water and costs

Marek Mierzejewski, *Director, Water for Mining*, CH2M HILL

Presentation: How to Assess, Select and Develop Your Optimal Water Management System

Depending on the type of mining operations and what region the operation is in, there are various options available. In this session, get an assessment of all the factors you should take into consideration when choosing, developing and implementing your water management system. Topics include:

- » Incorporating maximum sustainability into the project from the outset
- » How can you access and use local water recycling technologies and systems?
- » Which technology works best with which water management system?

Tatyana Alexieva, *Geotechnical Engineer*, MWH GLOBAL, INC.



Morning Networking Break

Presentation: Ongoing Monitoring of Water Quality

- » Maintaining water-related infrastructure to avoid sediment build-up and contamination
- » How to implement monitoring that tells you exactly what is happening with your water use
- » Water reporting methodologies: what's key?
- » How are mining companies selecting their reporting methodologies?

Susan Leal, *Senior Vice President and Chief Strategy Officer, Water, North America*, AECOM

Presentation: Project-Related Water: An Assessment of Different Purity Criteria for Different Uses

Depending on the planned application, different uses of water require different levels of water quality. In this session, gain an

understanding of the various requirements, and how they intersect in mining water management.

Val S. Frenkel, *Director, Membrane Technologies*, MALCOLM PIRNIE, THE WATER DIVISION OF ARCADIS



Group Luncheon

Special Presentation: The Importance of Good Water & Environmental Management in Mining

Gordon Cummings, *CEO & President*, KIMBER RESOURCES INC.

Case Study: Recent Water Management Lessons Learned from Agnico-Eagle Mines

Michel Julien, *Corporate Director Environment*, AGNICO-EAGLE MINES LIMITED

The Changing Regulatory Framework and Its Impact On Water for Mining

Presentation: The Federal Regulatory Impact On Mining and the Environment

- » Ensuring procedures for monitoring water quality are compliant with federal regulations
- » Parameters of discharge criteria and permissible impacts
- » Ensuring your environmental initiatives remain compliant with federal requirements

Presenter to be Announced

Presentations: Aspects of Mining Water Regulation in Key Provinces

Ontario:

Juli Abouchar, *Partner*, WILLMS & SHIER ENVIRONMENTAL LAWYERS LLP

BC:

Patricia Houlihan, LLB, *Principal*, HOULIHAN & ASSOCIATES ENVIRONMENTAL LEGAL SERVICES



Afternoon Networking Break

Presentation: Current Permitting Processes and Challenges for New Mines and Re-Opening Old Mines

It's key to understand the impact of the permitting process on mine water management. In this valuable session, learn about the intersection between water management for mining and obtaining the necessary permits for new mining operations.

Christine Kowbel, *Partner*, LAWSON LUNDELL LLP

2nd Annual Water Management for Mining (continued)

Friday, May 10, 2013

Focus on Management of Water Cleanup/Recycling

Presentation: **Effective Strategies for Managing Mine Dewatering**

- » Available options: what works best in what situations?
- » Planning and implementing mine dewatering management systems: factors to consider
- » Balancing cost-effectiveness and regulatory requirements

Russell Thomas, *Vice President, Sales and Engineering*,
AQUA-TECH DEWATERING COMPANY INC.

Presentation: **Tailings Water Management & Resource Recovery**

- » Tying responsible tailings water management to the life cycle of the mine, from initial planning to mine closure
- » Strategies for cost-effectively mitigating the long-term effects of tailings
- » Case Study: evaporation system for Rio Tinto ERA Ranger project tailings pond in Australia

Christopher Howell, *Global Director - Mining & Primary Metals*,
VEOLIA WATER SOLUTIONS & TECHNOLOGIES



Morning Networking Break

Case Study: **Water Management to Reduce DETA (diethylenetriamine) and Heavy Metals in Vale's Sudbury Tailing Pond**

Ms. Jie Dong, Ph.D., *Senior Research Metallurgist, Mineral Processing*, VALE

Presentation: **Using Abandoned Mine Drainage and Mine Pool Water**

AMD and mine pool water are being recycled and reused with many potential applications. Gain valuable information about some of the current innovations in this valuable session.

David R Stewart, PhD, PE, *President and CEO*,
STEWART ENVIRONMENTAL CONSULTANTS, LLC

Case Study: **Water Management and Treatment Under New Non-Ferrous Mining Legislation in Michigan**

Kristen Mariuzza, P.E. *Environmental & Permitting Manager*,
Eagle Mine, RIO TINTO

**EARLY BIRD
ENDS
APR. 5, 2013**

*For speaking and sponsorship opportunities, please contact
Erin Dolleris at erind@infocastevents.ca or 418.800.7814

What Participants Said About the 1st Water Management for Mining:

“Great topics and speakers. Good place to network.”

— Daniel Brown, *Project Manager, Archer Western Construction*

“Extremely informative... Well organized and excellent presentations.”

— Manuel Contijoch, *Senior Water Advisor, Abeinsa-Abengoa*

“Very informative on leading-edge technology and trends.”

— Jim Stutler, *Vice President, Layne Heavy Civil, Inc*

To Register | **Visit:** www.infocast.ca/mining13

Call: (778) 329-7468

Email: mail@infocastevents.ca

Fax: (778) 329-7475

Pre-Summit Briefing: Assessing and Selecting the Best Options for Mine Water Treatment

Wednesday, May 8, 2013

Presentation: An Overview of Current Treatment Approaches to Mine Water Pollutants

In this session, get a look at key treatment approaches that appear to be the most effective in terms of dealing with mine water pollutants.

Senior Representative, HATCH

Presentation: Testing to Assess the Treatability of Water

- » Key testing criteria for mine water management
- » Determining to what extent the water needs to be treated
- » Assessing project-specific effluent requirements

Kevin Conroy, P.E., *Principal and US Manufacturing Sector Lead*,
GOLDER ASSOCIATES INC.

Presentation: Water Treatment in the Mining Industry: Technologies to Enhance Sustainable Development

Steve Wilson, *Vice President, Global Metallurgy*, SGS

Presentation: Innovative Membrane Processes

- » Enhancing reverse osmosis membrane performance
- » Controlling fouling and scaling by contaminants
- » Handling variations in feed water quality
- » Maximizing system recovery

Presenter to be Announced

Presentation: Low-Energy Treatment Applications

- » What are some of the challenges of using low-energy treatment applications?
- » What are the advantages?
- » Examples of low-energy treatment applications and their efficacy

David R Stewart, PhD, PE, *President and CEO*, STEWART ENVIRONMENTAL CONSULTANTS, LLC

Presentation: Applications and Appropriate Uses of Treated Water

There are a number of beneficial uses for treated mine water, depending on the type of effluent and the level of treatment that has been conducted. Learn about the various applications currently being used in this valuable session.

Art Umble, Ph.D., *Wastewater Practice Leader, Americas Region*, MWH GLOBAL, INC.

Five Easy Ways to Register:

- 1 Web**
www.infocast.ca/
mining13
- 2 Phone**
(778) 329-7468
- 3 Fax**
(778) 329-7475
- 4 Email**
mail@infocastevents.ca
- 5 Mail**
Infocast Events Canada, Inc.
2818 Main Street, Suite 610
Vancouver, British Columbia
V5T 0C1

Risk Free Early Bird Rate!

Register by April 5, 2013 to receive the Early Bird Rate risk free! If an Early Bird registration is later canceled, an administrative charge will not be charged and the full tuition amount will be refunded. All Early Bird Rates will be adjusted downward if Infocast Events Canada, Inc. publicizes a discounted tuition special offer that would result in tuition rates lower than the published Early Bird Rate amounts to the right.

Discounts:

Government and Mining Company discounts available (please see box to the right). Team Discount for teams of three or more from the same organization, the third and subsequent registrations qualify for a 50% discount. Discounts are subject to verification and approval. Discounts cannot be combined.

Venue:

St. Andrew's Club & Conference Centre
150 King Street West, 16th Floor
Toronto, ON M5H 1J9
(416) 366-4228

For a list of nearby hotels, please visit the event website at www.infocast.ca/mining13

Website:

www.infocast.ca/mining13

Cancellation, Refunds & Credits:

Should you be unable to attend, a refund will be made for cancellations received via letter or fax at least 10 business days before the start of the meeting. We will be pleased to transfer your registration to another member of your organization, or credit the registration fee to another Infocast conference if you register within 6 months from the date of this conference.

A \$195 administrative charge will be applied to refunds of registrations received after the expiration of the Early Bird Rate.

In the event an event is cancelled, Infocast Events Canada, Inc.'s liability is limited to a refund or transfer of the registration fee only.

On-Site Materials:

Flashdrives with materials to be provided on-site. Please bring your laptop if you'd like to follow along.

Registration Form

Please make checks payable to:
"Infocast Events Canada, Inc."

Registration Code: WM2B13

2nd Water Management for Mining

May 8-10, 2013 | St. Andrew's Club & Conference Centre | Toronto, ON Canada

Please check one or more of the following:

- I would like to take advantage of the team discount (see left)
 I can't attend, but put me on your mailing list for future programs

Tuition	Standard		Government and Mining Companies*		
	Early Bird (by 4/5/13)	Regular (after 4/5/13)	Early Bird (by 4/5/13)	Regular (after 4/5/13)	
Summit: 2nd Annual Water Management for Mining, May 9-10, 2013	\$895.00	\$1,295.00	\$595.00	\$895.00	
Pre-Summit Briefing: Assessing and Selecting the Best Options for Mine Water Treatment, May 8, 2013	\$595.00	\$795.00	\$395.00	\$595.00	
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*Subject to verification by Infocast Events Canada, Inc.

*All tuition costs are subject to HST of 13%

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2nd Annual

WATER MANAGEMENT for MINING

Infocast Events Canada, Inc.
2818 Main Street, Suite 610
Vancouver, British Columbia
V5T 0C1



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What Participants Said About the 1st Water Management for Mining:

“A wide variety of perspectives covering an overarching review of the problem down to actual solutions to specific problems.”

— Daniel Eyde, President, St. Cloud Mining Company

“The caliber of the presentations is at such a high level that I am amazed! This conference is quite informative!”

— Robert Louis Zick, Director, Mining Market, Veolia Water Systems