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Bonjour and bienvenue to Montreal!

We are proud to be hosting the **23rd World Mining Congress & Expo** in Montreal, Quebec, Canada, in 2013, and we look forward to seeing you there. Montreal is truly a world-class destination and the perfect venue for our event as we look toward the future of mining.

WMC 2013 will be hosted by a collaborative team including professors from five top Canadian universities: McGill University, University of British Columbia, Queen’s University, University of Toronto and University of Alberta, as well as the Canadian Institute of Mining, Metallurgy and Petroleum (CIM).

The theme for WMC 2013 is **Mapping the Future: Advances in Mining Engineering**, and an extensive technical program of leading-edge, peer-reviewed papers will provide the opportunity for high-level knowledge sharing with peers. Over 1,500 people are expected to attend, leading to outstanding networking and the development of new business relationships. What’s more, the Mining Expo will showcase the very best suppliers and service providers supporting the global minerals industry, creating an unparalleled opportunity to pinpoint the solutions you need to drive your business forward.

Canada is built on a spectacular base of natural resources and it continues to thrive as a world leader in the extraction of many commodities. As well, in this time of global economic challenges, Canada and its provinces are laying the groundwork for continued growth and prosperity by expanding infrastructure, particularly in the energy and mineral industries.

Please join us in la belle ville as we map the future of mining while also indulging in the joie de vivre at the heart of Montreal.

**GENERAL CHAIRPERSON**

of the 23rd WMC 2013
Professor Ferri Hassani
McGill University
Montreal is one of the world’s great tourist destinations, with a rich history and culture complemented by a bustling nightlife, romantic scenery and an electric energy.

It is a city of contrasts: truly bilingual in nature (English and French); with old European architecture mixing with sleek modern structures; and cold, snowy winters counterbalanced by a summer paradise of sunshine, festivals and glorious greenery.

Visitors to Montreal will enjoy feasting in one of its many high-quality restaurants offering succulent cuisine to appeal to any palate.

Guests will enjoy shopping in the boutiques of the downtown core or immersing themselves in the city’s many museums and attractions. Let’s not forget that Montreal is home to the world-famous Cirque du Soleil. Their performances are spectacular escapes into a fantasy world of dreams and exquisite music.

Throughout the year, and especially during the summer months, Montreal is a city of festivals offering varied entertainment to suit all tastes.

Yet it is the people of Montreal who make it such a special place. Its diversity creates a wonderful matrix of ethnicity, culture, language, cuisine and fashion for you to experience. There are diverse neighborhoods nestled within Montreal’s shores each a unique and wonderful discovery.
EXECUTIVE ADVISORY COMMITTEE

Anil Arora  
Engin Özbek  
John Thompson  
Doug Morrison  
William Westgate  
Allan Moss  
Jon Baird  
Michael Karmis

Natural Resources Canada  
Cameco Corporation  
Teck Resources Limited  
Center for Excellence in Mining Innovation (CEMI)  
Hatch  
Rio Tinto  
Canadian Association of Mining Equipment and Services for Export (CAMESE)  
Virginia Polytechnic Institute and State University (Virginia Tech)

TECHNICAL PROGRAM TRACK CHAIRPERSONS

Note that all stream committee members are listed on the WMC website.

<table>
<thead>
<tr>
<th>Safety</th>
<th>Vic Pakalnis</th>
<th>MIRARCO</th>
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<tr>
<td>Rock Mechanics</td>
<td>Denis Thibodeau</td>
<td>Vale Base Metals</td>
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<td>Mineral Processing</td>
<td>Kristian Waters</td>
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<td>and Mine-to-Mill</td>
<td>Bern Klein</td>
<td>University of British Columbia</td>
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<td>Underground Mining</td>
<td>James Hatley</td>
<td>Cameco</td>
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<td>Surface Mining</td>
<td>Ursula Thorley</td>
<td>Queen’s University</td>
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<td>Mining, Ethics &amp;</td>
<td>Wesley Cragg</td>
<td>York University</td>
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<td>Sustainability</td>
<td>Janis Shandro</td>
<td>University of Victoria</td>
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<tr>
<td>Tailings, Water</td>
<td>Mostafa Benzaazoua</td>
<td>Université du Québec en Abitibi-Témiscamingue (UQAT)</td>
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<tr>
<td>and Mine Site</td>
<td>Stephen Hardcastle</td>
<td>CANMET Natural Resources Canada</td>
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<td>Rehabilitation</td>
<td>Dean Millar</td>
<td>Laurentian University</td>
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<td>Applied Geophysics,</td>
<td>Eric Maag</td>
<td>DGI Geoscience Inc.</td>
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<tr>
<td>Geostatistics &amp; Geology</td>
<td>Zara Hosseini</td>
<td>ESG Solutions</td>
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<td>Coal</td>
<td>Michael Karmis</td>
<td>Virginia Polytechnic Institute and State University (Virginia Tech)</td>
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<td>Mining Innovation</td>
<td>Michel Jebrak</td>
<td>Université du Québec à Montréal (UQAM)</td>
</tr>
<tr>
<td>Mine Economics</td>
<td>Vassilios Kazakidis</td>
<td>Laurentian University</td>
</tr>
<tr>
<td></td>
<td>Oree Mirzamani</td>
<td>University of Stirling</td>
</tr>
</tbody>
</table>

TECHNICAL PROGRAM COMMITTEE

Jamie Archibald  
Heather Ednie

Queen’s University  
Mining Standards and Guidelines Committee

ORGANIZING COMMITTEE

Charlie Graham  
Tim Skinner  
Zoli Lukacs  
Alex Henderson  
Carol Plummer  
Mory Ghomshei  
Marc Betournay  
Richard Simon  
Michael Karmis  
Lana Eagle  
Deb McCombe  
Greg Gosson  
Samuel Frimpong  
Jay Colinet  
Wesley Cragg  
George Mclsaac  
Peter Kondos  
Tom Hynes  
Jim Finch  
Robert Hall  
Peter Radziszewski  
Kristian Waters  
Douglas Milne  
Majid Mohamadian  
Mehrdad Kermani  
Ali Ghoreishi  
Pejman Nekoovaght  
Kamal Salmasi

Canadian Mining Industry Research Organization (CAMIRO)  
SMART Systems Group  
KMC Mining  
Vale  
Agnico-Eagle Mines Ltd.  
McGill University  
Natural Resources Canada (NRCan)  
École Polytechnique de Montréal  
Virginia Center for Coal and Energy Research, (Virginia Tech)  
Learning Together  
Scott Wilson Roscoe Postle Associates Inc.  
Engineering Consultancy and Project Management Services (AMEC)  
Missouri University of Science and Technology 
Office of Mine Safety and Health Research (CDC/NIOH/OMSHR)  
Schulich School of Business / Canadian Business Ethics Research Network (CBERN)  
Geology and Mining Evaluation Consulting (G-MEC)  
Barrick Gold Corporation  
Canada Mining Innovation Council (CMIC)  
McGill University  
University of British Columbia  
McGill University  
University of Saskatchewan  
University of Ottawa  
Simon Fraser University  
University of British Columbia  
Quebec Mining Association (QMA)  
McGill University  
McGill University  
McGill University  
McGill University  
McGill University

INTERNATIONAL SCIENTIFIC ADVISORY COMMITTEE

An exhaustive list of senior scientific advisors and contributors from around the world is available on the WMC website.
The World Mining Congress (WMC) was founded in Poland in 1958 with two main objectives:

1. Supporting and maintaining scientific and technical cooperation in national and international area for the development of mineral mining and natural mineral resources.

2. Ensuring knowledge exchange taking into consideration the developments in security, economics, technology and mining sciences for environmental protection and mining operations.

JOIN US IN MONTRÉAL
August 11-15, 2013 / Du 11 au 15 août 2013
Palais des congrès de Montréal
(Montreal Convention Centre)
Montreal, Quebec, Canada

2013 Montréal, Canada

1958 Warsaw, Poland 750 delegates
1961 Prague, Czechoslovakia 500 delegates
1963 Salzburg, Austria 625 delegates
1965 London, Great Britain 1,600 delegates
1967 Moscow, USSR 2,000 delegates
1970 Madrid, Spain 2,300 delegates
1972 Bucharest, Romania 2,000 delegates
1974 Lima, Peru 2,400 delegates
1976 Düsseldorf, Germany 1,750 delegates
1979 Istanbul, Turkey 1,500 delegates
1982 Belgrade, Yugoslavia 2,350 delegates
1984 New Delhi, India 1,550 delegates
1987 Stockholm, Sweden 1,120 delegates
1990 Beijing, China 2,750 delegates
1992 Madrid, Spain 1,519 delegates
1994 Sofia, Bulgaria 1,182 delegates
1997 Acapulco, Mexico 5,774 delegates
2000 Las Vegas, USA 36,600 delegates
2003 New Delhi, India 1,300 delegates
2005 Teheran, Iran 1,200 delegates
2008 Cracow, Poland 1,202 delegates
2011 Istanbul, Turkey 1,121 delegates
Delegates By Industry Sector
- Accounting
- Education
- Engineering & Systems
- Glass, Ceramics & Concrete
- Marketing & Sales
- Operation & Maintenance
- Project Management
- Research & Development
- Retail Management

Delegates By Job function
- Engineer
- Entrepreneur
- Research
- Consultant
- Business Development
- Sales & Marketing
- Production & Operations
- Management

Delegates By Primary Expertise
- Aboriginal & Community Partnerships
- Academia (Universities)
- Coal Mining
- Environment & Sustainability
- Materials
- Exploration, Extraction & Production
- Government
- Metals
- Mineral Economics & Mine Finance
- Mineral Processing
- Mining Education & Human Resources
- Mining Equipment Suppliers
- Mining Geology & Geostatistics
- Mining Service Suppliers
- Rock Engineering
- Strategic Mine Planning / Risk Management
- Surface Mining
- Underground Mining
- Women in Mining
- Information Technology & Systems
- Mine Automation & Robotics
- Safety & Rescue

REGISTER ONLINE BEFORE JUNE 28, 2013, AND SAVE!
www.wmc-expo2013.org
CONNECT WITH DELEGATES FROM AROUND THE WORLD

1000 WMC DELEGATES
600 ISARC DELEGATES
+ 250 EXHIBITS

CONNECT TO A WORLD OF OPPORTUNITIES

Held in conjunction with the 30th International Symposium on Automation and Robotics in Construction and Mining (ISARC 2013)
Setting the stage for the Congress, the plenary session will open with a ceremony led by First Nation officials, followed by powerful speakers selected among industry leaders from around the world.

The plenary’s opening ceremony will start at 08:00 on Monday, August 12.

Then, beginning at 08:30, the plenary will provide hard-hitting insight and expertise on the topics that are most important to the global mining industry. The Congress’ theme, Mapping the Future: Advances in Mining Engineering, will shine through the plenary, through varied and global perspectives.

Simultaneous interpretation will be available.

Official Introductions

TBC
Opening by the Honourable Joe Oliver
Canada’s Minister of Natural Resources

Ferri Hassani
General Chairperson of WMC

Józef Dubinski
President, International Organizing Committee of WMC

Invited Keynote Speakers

Jacynthe Côté, Chief Executive of Rio Tinto Alcan and Honourary Chairperson of WMC
Mark Cutifani, President and CEO of Anglo American and Honourary Chairperson of WMC
TBA - Ibram, Board of Director Chairperson, Brazil and South America
Sri Prakash Jaiswal, Honorable Minister of Coal, Government of India
Steve Wood, Vice President and Head of Iron Ore Operations for the Americas region, ArcelorMittal
Wang Xianzheng, President of the China National Coal Association
Anatoly Borisovich Yanovsky, Deputy Minister of Energy of the Russian Federation

REGISTER ONLINE BEFORE JUNE 28, 2013, AND SAVE!

WWW.WMC-EXPO2013.ORG
The WMC and Expo is a preeminent international event that brings together the world’s leading experts on the mining, energy and mineral processing industries. This high-level congress gives mining professionals the opportunity to share insight into the innovations, advances and trends that are shaping the industry’s future.

The extensive Technical Program of cutting-edge, peer-reviewed papers will feature 14 tracks of high-level knowledge. It’s a valuable opportunity to capture knowledge and share with peers of all cultures. Delegates will have over 450 presentations to choose from, covering the following subjects:

- Surface mining
- Safety
- Underground mining
- Rock mechanics
- Mining, ethics and sustainability
- People and communities
- Tailings, water and mine site Rehabilitation
- Energy and mines
- Ventilation
- Mineral processing and mine-to-mill
- Coal
- Mining innovation
- Mine economics
- Applied geophysics, geostatistics and geology

The Technical Program shell clearly outlines the sessions offered under each of the above 14 tracks. An average of four presentations per session will be delivered, in English. No simultaneous interpretation will be provided.
## Monday, August 12

### Plenary Session

<table>
<thead>
<tr>
<th>Time</th>
<th>Track 1</th>
<th>Track 2</th>
<th>Track 3</th>
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<th>Track 5</th>
<th>Track 6</th>
<th>Track 6B</th>
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<tbody>
<tr>
<td>9:00 - 12:00</td>
<td>SURFACE MINING</td>
<td>SAFETY</td>
<td>UNDERGROUND MINING</td>
<td>ROCK MECHANICS</td>
<td>MINING, ETHICS &amp; SUSTAINABILITY</td>
<td>PEOPLE &amp; COMMUNITIES</td>
<td>MINING, ETHICS &amp; SUSTAINABILITY / PEOPLE &amp; COMMUNITIES</td>
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<tr>
<td></td>
<td>Ursula Thorley</td>
<td>Vic Pakalnis</td>
<td>Carol Plummer, James Hatley</td>
<td>Denis Thibodeau</td>
<td>Wesley Cragg</td>
<td>Janis Shandro</td>
<td>Janis Shandro, Wesley Cragg</td>
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<th>Track 6</th>
<th>Track 6B</th>
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</thead>
<tbody>
<tr>
<td>12:00 - 13:30</td>
<td>Drilling &amp; Blasting</td>
<td>Mining Health &amp; Safety Research 1</td>
<td>Backfill</td>
<td>Deep Mining</td>
<td>Plenary: Mining and Sustainability</td>
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<td>Chair: Takis Katsabanis</td>
<td>Chair: Patrick Foster</td>
<td>Chairs: Jamie Archibald, Philip Dirige</td>
<td>Chair: Denis Thibodeau</td>
<td>Chair: Wesley Cragg</td>
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### Refreshment Break

**LUNCH in The EXPO**

### Tuesday, August 13

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<th>Track 6B</th>
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<tbody>
<tr>
<td>8:30 - 10:00</td>
<td>Optimization 1</td>
<td>Mining Safety Culture</td>
<td>Feasibility Studies/Case Studies</td>
<td>Coal Mining 1</td>
<td>Plenary: Indigenous Peoples and Mining</td>
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<td>Chair: Hooman Askari-Nasab</td>
<td>Chair: Denis Beaudoin</td>
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<td>Chair: Jack-Pierre Piguet</td>
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<th>Time</th>
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<th>Track 6B</th>
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<tbody>
<tr>
<td>10:00 - 10:30</td>
<td>Pit Development and Design 1</td>
<td>Coal Mining Safety</td>
<td>Projects</td>
<td>Numerical Modeling</td>
<td>Mining, Conflict and Indigenous Peoples</td>
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<td>Chair: Sam Spear</td>
<td>Chair: Keith Bullock</td>
<td>Chair: Hani Mitri</td>
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### Refreshment Break

### LUNCH in The EXPO

### Wednesday, August 14

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<th>Track 6B</th>
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<tbody>
<tr>
<td>8:30 - 10:00</td>
<td>Alternatives to Hauling</td>
<td>Global Trends in Mining Safety</td>
<td>Special Topics</td>
<td>Coal Mining 2</td>
<td>Plenary: A Social Practitioners Call for Action</td>
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<td>Chair: Panel Discussion</td>
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<tbody>
<tr>
<td>10:00 - 10:30</td>
<td>Pit Development &amp; Design 2</td>
<td>Global Mine Rescue Future Trends and Innovations</td>
<td>Surface Mining 2</td>
<td>Mining &amp; Human Rights</td>
<td>On the Ground Perspectives</td>
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<td>Chair: Bob McCarthy</td>
<td>Panel Discussion</td>
<td>Chair: John Henning</td>
<td>Chair: tba</td>
<td>Chair: Malcolm Scoble</td>
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### Refreshment Break

**CLOSING LUNCH: INVITED SPEAKER: Frans Van Gassel, Assistant Professor, Eindhoven University of Technology**

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<td>13:30 - 15:00</td>
<td>Optimization 2</td>
<td>Regulatory Approaches to Mine Safety</td>
<td>Potash &amp; Salt Mining</td>
<td>Mass Mining</td>
<td>A Blue Sky: Pushing the Boundaries on Mining, Ethics and Sustainability</td>
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<td>Chair: Bruce Murphy</td>
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<tr>
<td>15:00 - 15:30</td>
<td>Special Topics</td>
<td>Mining Health &amp; Safety Research 3</td>
<td>Shaft Sinking &amp; Technologies</td>
<td>Case Studies</td>
<td>Social License to Operate</td>
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<td>Chair: tba</td>
<td>Chair: Tom Hethman</td>
<td>Chair: James Hatley</td>
<td>Chair: Doug Mine</td>
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<tr>
<td>15:30 - 17:00</td>
<td>Mining Health &amp; Safety Research 3</td>
<td>Shaft Sinking &amp; Technologies</td>
<td>Case Studies</td>
<td>Social License to Operate</td>
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<td>Chair: Doug Mine</td>
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## Technical Program

### Monday, August 13

#### Plenary Session

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<th>Track 11</th>
<th>Track 12</th>
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<tbody>
<tr>
<td>TAILINGS, WATER &amp; MINE SITE REHABILITATION</td>
<td>ENERGY &amp; MINES</td>
<td>VENTILATION</td>
<td>MINERAL PROCESSING &amp; MINE-TO-MILL</td>
<td>COAL</td>
<td>MINING INNOVATION</td>
<td>MINE ECONOMICS</td>
<td>APPLIED GEOPHYSICS, GEOSTATISTICS &amp; GEOLOGY</td>
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<tr>
<td>Mostafa Benzaazoua</td>
<td>Dean Millar</td>
<td>Steve Hardcastle</td>
<td>Kristian Waters, Bern Klein</td>
<td>Michael Karmis</td>
<td>Michel Jebraik</td>
<td>Vassilios Kszakidis, Oraee Mirzamani</td>
<td>Eric Maag, Zara Hosseini</td>
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</tbody>
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**LUNCH in the Expo!**

<table>
<thead>
<tr>
<th>Mine Site Characterization</th>
<th>Novel Power Solutions for Mines</th>
<th>Ventilation Planning &amp; Modelling 1</th>
<th>Flotation 1</th>
<th>Coal Operations</th>
<th>Mining Innovation: Production</th>
<th>Hydrology of Mine Tailings &amp; Leaching Pads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Vincent Chatain</td>
<td>Chair: Klas Bockenstein</td>
<td>Chair: Euer de Souza</td>
<td>Chair: tba</td>
<td>Chair: Nino Ripepi</td>
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</table>

**REFRESHMENT BREAK**

<table>
<thead>
<tr>
<th>Abandoned Mine Restoration</th>
<th>Energy Efficient Transportation of Ore &amp; Rock</th>
<th>Ventilation Management, Controls &amp; Fans</th>
<th>Flotation 2</th>
<th>National Perspectives in Coal</th>
<th>Mining Innovation: Monitoring</th>
<th>Orbody Delineation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Rachid Hakkou</td>
<td>Chair: Gareth Kennedy</td>
<td>Chair: Joe Stachulak</td>
<td>Chair: tba</td>
<td>Chair: Ta Li</td>
<td>Chair: tba</td>
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</tr>
</tbody>
</table>

### Tuesday, August 14

#### Waste Rocks Disposal
- Chairs: Michel Aubertin, Ward Wilson
  - Keynote Session 1 Chair: Ferri Hassani
  - Ventilation Planning & Modelling 2 Chair: Steve Hardcastle
  - Sensors Communications & Information 1 Chair: tba
  - Coal Mining Planning 1 Chair: Tuncel Yegulalp
  - Mining Innovation: From Blasting to Workforce Chair: tba

**LUNCH in the Expo!**

<table>
<thead>
<tr>
<th>Tailings Disposal</th>
<th>Mine Backfill</th>
<th>Energy Management Technology in Mining</th>
<th>Novel Approaches 1</th>
<th>Health &amp; Safety Issues in Coal Mining</th>
<th>Mining Innovation: Project Evaluation</th>
<th>ME: Price &amp; Demand Forecasts for Mineral Commodities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairs: Mostafa Benzaazoua, Atac Bacestin</td>
<td>Chair: Tikou Belem</td>
<td>Chair: Laurie Gregg</td>
<td>Chair: Cheryl Allen</td>
<td>Chair: Michael Karmis</td>
<td>Chair: tba</td>
<td>Chair: Deborah McCombe</td>
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**REFRESHMENT BREAK**

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<tbody>
<tr>
<td>Chairs: Devin Sapsford, Benoit Plante</td>
<td>Chair: Monica Carvalho</td>
<td>Chair: tba</td>
<td>Chair: tba</td>
<td>Chair: John Crayon</td>
<td>Chair: tba</td>
<td>Chair: Oraee Mirzamani</td>
<td>Chair: tba</td>
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**LUNCH in the Expo!**

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<tr>
<td>Chair: Marc Boudreau</td>
<td>Chair: Ian Lowndes</td>
<td>Chair: tba</td>
<td>Chair: Dirk Van Zyl</td>
<td>Chair: Kray Luxbacher</td>
<td>Chair: tba</td>
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<tr>
<td>Chairs: Barrie Johnson, Carmen Nucita</td>
<td>Chair: Gerald Zagury</td>
<td>Chair: Jacek Parasczak</td>
<td>Chair: Daniel Stinnette</td>
<td>Chair: Steve Kelm</td>
<td>Chair: tba</td>
<td>Chair: tba</td>
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</table>

**Closing Lunch: Invited Speaker** Frans Van Gassel, Assistant Professor, Eindhoven University of Technology

**REFRESHMENT BREAK**

<table>
<thead>
<tr>
<th>Mine Site Rehabilitation</th>
<th>Energy Efficiency in Mine Ventilation and Refrigeration</th>
<th>Ventilation on Demand (SME Showcase)</th>
<th>Coal Processing</th>
<th>Coal and Methane Production and Degasification</th>
<th>Special Topics</th>
<th>Advanced Optimization, Modeling &amp; Visualization Platforms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Bruno Bussière</td>
<td>Chair: Andrew Bamber</td>
<td>Chair: tba</td>
<td>Chair: tba</td>
<td>Chair: Kray Luxbacher</td>
<td>Chair: tba</td>
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<tbody>
<tr>
<td>Chair: Mamert Mbonimpa</td>
<td>Chair: John Bennett</td>
<td>Chair: Imola Gotz</td>
<td>Chair: Steven M. Carpenter</td>
<td>Chair: tba</td>
<td>Chair: tba</td>
<td>Chair: tba</td>
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</table>

**REFRESHMENT BREAK**
## Program at a Glance | Aperçu du Programme

All congress activities will be held at the Palais des congrès de Montréal, with the exception of Monday evening’s social events, the guest program activities and the field trips.

### Saturday, August 10 | Samdi le 10 août

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 - 16:00</td>
<td>IOC meeting, Hyatt Regency Hotel</td>
</tr>
<tr>
<td>18:00 - 21:00</td>
<td>IOC Dinner (Off-site event)</td>
</tr>
</tbody>
</table>

### Sunday, August 11 | Dimanche le 11 août

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:30 - 20:00</td>
<td>Registration</td>
</tr>
<tr>
<td>08:30 - 17:00</td>
<td>Workshops</td>
</tr>
<tr>
<td>09:00 - 12:00</td>
<td>City tour of Montreal*</td>
</tr>
<tr>
<td>13:30 - 16:00</td>
<td>Flavours of Old Montreal*</td>
</tr>
<tr>
<td>15:00 - 20:00</td>
<td>Presenters’ preparation room</td>
</tr>
<tr>
<td>16:00 - 17:00</td>
<td>Opening ceremony: <em>Montreal – Synonym of Cirque!</em></td>
</tr>
<tr>
<td>17:00 - 20:00</td>
<td>Opening reception on The Expo! floor – food and entertainment</td>
</tr>
</tbody>
</table>

### Monday, August 12 | Lundi le 12 août

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00 - 17:00</td>
<td>Registration</td>
</tr>
<tr>
<td>07:00 - 17:00</td>
<td>Presenters’ preparation room</td>
</tr>
<tr>
<td>07:00 - 08:30</td>
<td>Plenary speakers’ breakfast</td>
</tr>
<tr>
<td>08:00 - 08:30</td>
<td>Opening ceremony to plenary session</td>
</tr>
<tr>
<td>08:30 - 12:00</td>
<td>Plenary session</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>10:00 - 17:00</td>
<td>The Expo!</td>
</tr>
<tr>
<td>10:00 - 17:00</td>
<td>Poster session</td>
</tr>
<tr>
<td>10:00 - 14:00</td>
<td>Tasting tour… À la Montreal!*</td>
</tr>
<tr>
<td>12:00 - 13:30</td>
<td>Lunch on The Expo! floor</td>
</tr>
<tr>
<td>13:00 - 16:30</td>
<td>Botanical Garden &amp; Biodôme*</td>
</tr>
<tr>
<td>13:30 - 17:00</td>
<td>Technical sessions – 14 streams</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>17:45 - 22:00</td>
<td>Progressive dinner in Old Montreal*</td>
</tr>
<tr>
<td>18:15 - 23:00</td>
<td>Dinner cruise on the Bateau-Mouche</td>
</tr>
<tr>
<td>Time</td>
<td>Event Description</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------</td>
</tr>
<tr>
<td>**TUESDAY, AUGUST 13</td>
<td>MARDI LE 13 AOÛT</td>
</tr>
<tr>
<td>07:00 - 17:00</td>
<td>Registration</td>
</tr>
<tr>
<td>07:00 - 17:00</td>
<td>Presenters’ preparation room</td>
</tr>
<tr>
<td>08:30 - 12:00</td>
<td>Technical sessions – 14 streams</td>
</tr>
<tr>
<td>09:30 - 14:30</td>
<td>Cultural tour of Montreal*</td>
</tr>
<tr>
<td>10:00 - 17:00</td>
<td>The Expo!</td>
</tr>
<tr>
<td>10:00 - 17:00</td>
<td>Poster session</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>12:00 - 13:30</td>
<td>Lunch on The Expo! floor</td>
</tr>
<tr>
<td>12:30 - 17:00</td>
<td>Piano concert with Marie-Andrée Ostiguy*</td>
</tr>
<tr>
<td>13:30 - 17:00</td>
<td>Technical sessions – 14 streams</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>17:00 - 19:00</td>
<td>Women in Mining reception</td>
</tr>
<tr>
<td>18:00 - 19:00</td>
<td>The Gala: cocktail reception</td>
</tr>
<tr>
<td>19:00 - 22:00</td>
<td>Montreal Festival City: the Gala!*</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>**WEDNESDAY, AUGUST 14</td>
<td>MERCREDI LE 14 AOÛT</td>
</tr>
<tr>
<td>07:00 - 14:00</td>
<td>Registration</td>
</tr>
<tr>
<td>07:00 - 14:00</td>
<td>Presenters’ preparation room</td>
</tr>
<tr>
<td>08:30 - 12:00</td>
<td>Technical Sessions – 14 streams</td>
</tr>
<tr>
<td>09:30 - 14:30</td>
<td>Exclusive shopping*</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>12:00 - 13:30</td>
<td>Oh Canada! Eh? Closing lunch &amp; celebration with invited speakers and presentations</td>
</tr>
<tr>
<td>13:30 - 17:00</td>
<td>Technical sessions – 14 streams</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Refreshment break</td>
</tr>
<tr>
<td><strong>Evening</strong></td>
<td>Three field trip departures: KGHM, McCreedy West Mine Kidd Mine, Xstrata Copper LaRonde, Agnico-Eagle Mines Ltd.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>**THURSDAY, AUGUST 15</td>
<td>JEUDI LE 15 AOÛT</td>
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**Field trips only**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td><strong>Early AM</strong></td>
<td>The Romaine • two job sites</td>
</tr>
<tr>
<td>09:00 - 12:00</td>
<td>Beauharnois Generating Station</td>
</tr>
<tr>
<td>10:00 - 12:00</td>
<td>McGill University Health Centre’s (MUHC) Glen site</td>
</tr>
<tr>
<td><strong>Evening</strong></td>
<td>Wednesday field trips return</td>
</tr>
</tbody>
</table>

* Social and guest program.
Tickets for sale through registration.
Approximately 50 posters will be displayed in The Expo! during trade show hours, in Hall 220CDE of the Palais des congrès.

**Sunday, August 11** ......................... 17:00 to 20:00
**Monday, August 12** .......................... 10:00 to 17:00
**Tuesday, August 13** ......................... 10:00 to 17:00

Out of consideration for world travellers, the complete WMC 2013 congress proceedings will be included on a USB key in the eco-friendly delegate bag. WMC delegates will also be able to download any of the congress papers for free from the CIM Technical Paper Library. As a pertinent complement to the live presentations, poster papers will be published in the proceedings.
All workshops will be held at the Palais des congrès on Sunday, August 11, from 08:30 to 17:00 and are priced as follows:

$250 for congress participants
$375 for non–congress participants

Prices include two refreshment breaks, a networking lunch and course notes.

For complete workshop descriptions, please visit the website.

RISK-BASED INSPECTION OVERVIEW AND HANDS-ON WORKSHOP

Facilitator: William Minter, Client Solutions Engineer, Pinnacle Asset Integrity Services

Attendees will be guided through an overview of risk-based inspections (RBI), including the following: RBI history • different RBI methodologies • Dynamic RBI theory • why use RBI • when to use RBI • and Evergreen RBI how-to. By facilitating this workshop, Pinnacle aims to educate the mining industry about the importance, benefits and methodologies of implementing a sound risk-based inspection program. We also frequently find that RBI is used for the wrong reasons, implemented improperly or not maintained.

Target audience: Plant managers / general managers, reliability / maintenance managers, engineers, personnel inspection department managers, production personnel, operations personnel, planning personnel

TAILING MANAGEMENT FOR SUSTAINABLE MINING

Facilitator: Rick Meyers, VP Technical and Northern Affairs, Mining Association of Canada (MAC) and member of the MAC Tailings Working Group


Target audience: Tailings management personnel from all mining companies operating in Canada and elsewhere
CONTROL OF DIESEL EMISSION IN UNDERGROUND MINES

Facilitators: Brent Rubeli, Mahe Gangal, NRCan / Canmet Mining

Get an overview of the complex issues related to implementing diesel engine technology as it applies to underground mining in the following areas: fundamentals of diesel engines • global emissions regulations • engine certification for mining • mine ventilation for diesel emissions • emissions control technology • mine diesel regulations • biodiesel and alternative fuels • tier-4 interim and final technology • in-use emissions monitoring and control • emissions-based maintenance • diesel-electric hybrid and fuel cell technology.

Participants will also become familiar with the different types and proper applications of emission control technologies, alternative fuels and hybrid systems, as well as their related benefits. Finally, they will understand how modern mine-ventilation systems are evolving to cope with diesel emissions.

Target audience: Mobile maintenance supervisors, engine and vehicle purchasers, ventilation engineers, occupational health and safety, production planning, vehicle service/maintenance

UNDERSTANDING HEAT STRESS MANAGEMENT IN MINING—NEW AND EMERGING PERSPECTIVES

Facilitators: Dr. Glen Kenny, University of Ottawa • Dr. Stephen Hardcastle, Natural Resources Canada

Envision human thermoregulation as it applies to working in hot environments. Discuss standard heat management practices in light of recent science that provides a far greater understanding of the physiological changes occurring within the body. We will review current work practices, their intensity and clothing requirements in relation to standard mitigation methods such as work recovery regimes and acclimation.

Attendees will be presented with some of the latest information on managing heat exposure to reduce the risk of heat stress or strain in the workplace. The content will start with basic human physiology relating to blood flow and sweating, the body’s two primary cooling processes. It will then lead into the heat transfer routes at the skin’s surface and the worker-environment interface.

Target audience: This workshop would be suitable for anyone wanting a better understanding of heat stress management, either personally or in a responsibility role.

PRACTICAL AUXILIARY MINE VENTILATION WORKSHOP

Facilitator: Euler De Souza, Queen’s University

The purpose of the workshop is to provide mining operations with the basic tools for the day-to-day planning, design, installation, maintenance and effective operation and monitoring of auxiliary mine ventilation systems. The primary topics include: regulations relating to auxiliary ventilation, ventilation requirements in headings, auxiliary ventilation system sizing and design, fan and duct selection, auxiliary ventilation installation practices, system maintenance and duct repair, ventilation checks and ventilation surveys.

Attendees will gain comprehensive knowledge on auxiliary ventilation operation, along with insights on planning and design as an integral part of day-to-day production. Standard techniques utilized in duct ventilation design and operation, and references to case studies will be covered to demonstrate examples of good practice.

Target audience: Design and mining engineers, mining managers and technologists
MINE BACKFILL SYSTEM DESIGN AND OPERATION

Facilitators: Dr. Robert Cooke, Principal of Paterson & Cooke’s practice in Denver, Colorado • Rob Brown, Principal of Paterson & Cooke’s practice in Sudbury, Ontario, and President of Paterson & Cooke Canada Inc. Christian Kujawa, Responsible for mineral processing within Paterson & Cooke’s North American practice, based in Denver, Colorado • Maureen McGuinness, Senior Process Engineer at Paterson & Cooke’s practice in Sudbury, Ontario • Matt Treinen, Project Engineer with Paterson & Cooke, Denver • Dr. Ben Thompson, Consulting Geoscientist, Mine Design Engineering

This session provides an overview of the issues impacting the design and operation of underground mine backfill systems, with a focus on hydraulic and paste backfill. Hear about mine backfill, backfill types, backfill plant process design and flow sheets, an overview of plant unit processes, backfill plant engineering and operation considerations, backfill testing requirements, pipeline distribution system hydraulics, backfill placement considerations and case studies. Participants will acquire a sound understanding of the requirements for effectively sizing, designing and operating mine backfill systems.

Target audience: Mining and geotechnical engineers; mechanical, chemical and mineral processing engineers; operations staff, consulting and design engineers, equipment vendors

MECHANICAL MINING AND ROCK EXCAVATION

Facilitator: Jamal Rostami, Ph.D., P.E., Professor at Penn State University

This workshop will offer an overview of state-of-the-art mechanical rock excavation and mining as well as related machinery and methods, design issues, performance estimates and case histories. It will give participants an opportunity to see the latest technologies and interact with industry designers, manufacturers and peers who have used these machines, to learn about their operation and ways of adopting these machines in new mining operations. The workshop will raise the knowledge of mine engineers about the various mechanical rock excavations that could enhance their productivity and safety and are more suitable for automation.

Target audience: Mine engineers, operators, management, and maintenance supervisors. The workshop will also benefit design engineers and planners of mining projects.

MINE CLOSURE: LESSONS LEARNED AND CLOSURE CONCEPTS FROM MINES IN THE USA

Facilitators: Andrew Watson, Principal Engineer (P.E.), Charles (Chuck) G. Taylor, Director, BHP Billiton

This short workshop will use lessons learned from mine closure projects in the USA to provide an overview of important mine closure concepts and considerations. The session will review current mine closure practices and draw heavily on lessons learned. The facilitators will discuss the benefits of planning early, how to best integrate the closure into the mine plan, setting closure goals, and standards and criteria that satisfy regulatory and company requirements along with stakeholder expectations. Particular focus will be on translating goals and objectives into quantifiable terms that engineers use to design, cost and build facilities. As water is often the lasting liability after closure, many of the workshop examples and lessons learned will emphasize water-related aspects of each topic.

Target audience: This workshop is targeted at all mining professionals interested in the complexity and implications of mine closures.
Where the Business of Mining, Automation, Robotics and Construction Happens

This tradeshow with 250+ booths is the first of its kind in Canada. This prestigious gathering will include top business managers, engineers, consultants, procurement agents, researchers, academics and industry practitioners — in all specialty areas related to the mining industry. The Expo! will also include renowned experts in the field of construction, petroleum, robotics and automation.

Suppliers to the mining, construction, robotics and automation industries should seize this unique opportunity to stand face-to-face with thousands of international buyers and stakeholders.

THE EXPO! HOURS

Sunday, August 11 17:00 - 20:00
Monday, August 12 10:00 - 17:00
Tuesday, August 13 10:00 - 17:00

Lunch will be served in the Hall on Monday and Tuesday, August 12 and 13, from 12:00 to 13:30.

PAVILIONS

This first-ever Expo! will have international scope, with pavilions from around the world:

1. RUSSIA
2. INDIA
3. AUSTRALIA
4. FIRST NATIONS / GREEN MINING
5. CHINA
6. SOUTH AFRICA
7. QUÉBEC (48E NORD)
19
Held in conjunction with the 30th International Symposium on Automation and Robotics in Construction and Mining (ISARC 2013)

This first-ever Expo! will have international scope, with pavilions from around the world:

1. Russia
2. India
3. Australia
4. First Nations / Green Mining
5. China
6. South Africa
7. Québec (48°NORD)

Industries represented at the Expo!

- Automation in Data Acquisition and Monitoring
- Automation and Robotics in Building Construction
- Automation and Robotics in Civil Engineering
- Automation in Construction Planning and Scheduling
- Automation in Maintenance and Inspection
- Construction Machinery and Technology
- Earth Moving Equipment
- Explosives and Blasting Devices
- Field Robotics
- GPS
- Hi-Tech Systems and Services
- Information Technology for Design Automation and BIM
- Information Technology in Construction Management
- Management and Social Issues in Construction
- Mineral Dressing Equipment
- Minerals Handling and Transporting Equipment
- Petroleum Products
- Processing and Reclamation Equipment
- Remote control
- Robotics
- Safety and Rescue Equipment
- Sensing Technology for Construction and Maintenance
- Service Robotics
- Tunnel Boring / Drilling Equipment

The floor plan, list of exhibitors and international pavilions are available on our website: www.wmc-expo2013.org

Contact
Martin Bell
Booth sales
514.939.2710, ext. 1311
BRANCHEZ VOTRE ENTREPRISE SUR L’EXPLOITATION MINIÈRE DE DEMAIN

TOUCHEZ DEUX INDUSTRIES DU MÊME COUP : EXPLOITATION MINIÈRE ET CONSTRUCTION.

L’Institut canadien des mines, de la métallurgie et du pétrole (ICM) accueille avec plaisir à Montréal (Québec, Canada), le 23e Congrès international sur les mines (WMC), du 11 au 15 août 2013. Nous espérons que vous serez des nôtres, Montréal étant une destination mondiale de choix et le cadre idéal pour un événement tourné résolument vers l’avenir des mines.

Le WMC 2013 est un événement conjoint de cinq grandes universités canadiennes, soit l’Université McGill, l’Université de Colombie-Britannique, l’Université de Toronto, l’Université Queen’s et l’Université de l’Alberta, ainsi que de l’ICM.

Disposant de ressources naturelles exceptionnelles, le Canada prospère en tant que chef de file mondial dans l’extraction de plusieurs matières premières. En cette période de défis économiques mondiaux, le Canada et ses provinces jettent les bases d’une croissance soutenue par le biais de l’expansion d’infrastructures, notamment dans le secteur de l’énergie et des minerais.

Sous le thème Cartographier l’avenir : les percées en génie minier, le WMC 2013 propose un vaste programme technique de présentations de pointe, évaluées par des tiers experts, permettant le partage de connaissances avancées entre collègues du monde entier.

Accueilli tour à tour par bon nombre de pays dans le monde, le WMC se tiendra pour la première fois en parallèle avec le 30e Symposium international sur l’automatisation et la robotique dans la construction et l’exploitation minière (ISARC), réunissant ainsi deux industries sous un même toit.

En marge de ces deux congrès se déroulera un salon commercial conjoint, une occasion unique pour les fournisseurs locaux et internationaux d’interagir avec des centaines d’acheteurs du monde entier en un seul et même endroit. Plus de 250 fournisseurs de produits et de services œuvrant dans les secteurs des mines, de l’énergie et des minerais, de même qu’en construction, robotique et automatisation, présenteront des produits et des solutions qui feront progresser votre entreprise.

Plus de 1600 congressistes sont attendus, offrant ainsi un monde de possibilités pour tisser de nouvelles relations d’affaires.

Au plaisir de vous voir à Montréal !
NETWORKING & SPECIAL EVENTS | ÉVÉNEMENTS SPÉCIAUX ET RÉSEAUTAGE
SUNDAY, AUGUST 11

OPENING CEREMONY AND RECEPTION: MONTREAL – SYNONYM OF CIRQUE!

Time: 16:00 to 20:00 • Viger Hall and Exhibit Halls, Palais des congrès • Price: Included in the delegate registration fees.

This prime networking event launches the 23rd World Mining Congress and the 30th International Symposium on Automation and Robotics in Construction and Mining. The opening reception brings all participants together for an evening of excitement, live entertainment and the tastes of Montreal on the exhibition floor.

MONDAY, AUGUST 12

LUNCH ON THE EXPO! FLOOR

Time: 12:00 to 13:30 • Price: Included in the delegate registration fees. Tickets are available at $20 for non-congress delegates (exhibitors, visitors).

DINNER CRUISE ON THE BATEAU-MOUCHE

Time: 18:15 to 23:00 • Bus departs from the Palais des congrès de Montréal • Price: $175

Includes: Transport by deluxe motorcoach, aperitifs and canapés, followed by a three-course meal, with half a bottle of wine per person. Gratuities and all taxes included.

Leaving the Palais des congrès by motorcoach at 18:15, we will take you to Montreal’s Old Port, where we will board a Paris-style riverboat with a glass roof, called a Bateau-Mouche.

Relax in comfort and discover magnificent views of Montreal and the Saint-Lawrence River, while the Bateau-Mouche makes its way under Montreal’s bridges, around Ste. Helen’s Island in Canal Lemoyne, and upstream against the Ste. Marie current. The Chef is Louis Francois Marcotte, well-known in Montreal for his restaurants and television shows. The cruise returns at 22:30, and the bus will be waiting to bring you back to the Palais des congrès.

There is so much to enjoy in Montreal! A vibrant social program will provide diverse events throughout the congress, including grand soirées and networking lunches. Social trips will be available for delegates and their guests, enabling you to uncover the treasures of Montreal and its surrounding attractions.
PROGRESSIVE DINNER IN OLD MONTREAL

Time: 17:45 to 22:00 • Group meets in the Viger Hall of the Palais des congrès • Price: $155

VDM Global invites you for an evening stroll through Old Montreal at the most enchanting time of the year, along with a leisurely dinner with your friends from the congress. Follow your professional guide to two gastronomic gems that give Old Montreal some of its charm. En route, see some of the landmarks in this historic part of the city.

Our first stop: Marché de la Villette. At Bistro à la Française, they will serve homemade foie gras, pâtés and rillettes that you will sample with a glass of wine, in Montreal’s festive summer atmosphere.

Our second stop: Auberge St-Gabriel, the oldest inn in North America (1754). Dine under the guidance of well-known chef Eric Gonzales. It’s sure to be a memorable meal.

Inclusions: Wine and canapés at the first stop, three-course meal and half a bottle of wine per person at the second stop. Gratuities and all taxes included.

TUESDAY, AUGUST 13

LUNCH ON THE EXPO! FLOOR

Time: 12:00 to 13:30 • Included in the registration fees for congress delegates. Tickets are available for $20 for non-congress delegates (exhibitors, visitors).

WOMEN IN MINING RECEPTION

Time: 17:00 to 19:00 • Salon 518, Palais des congrès • Price: $35

This reception provides a valuable networking opportunity for women in the industry—and their male colleagues—to meet the Women in Mining Forum panellists and to network with peers from around the world. There will also be a silent auction featuring some great items!

THE GALA: MONTREAL FESTIVAL CITY

Reception at 18:00 • Dinner and Entertainment from 19:00 to 22:30 • Room 517AB, Palais des congrès • Price: $125

Montreal is a city of festivals: the Festival International de Jazz, the Just for Laughs festival, the Lights Festival, and many more. The WMC and ISARC Gala is the perfect opportunity to sample the excitement Montreal has to offer. Celebrate with your peers, enjoy local gourmet food and live entertainment. The Gala promises to be exciting and full of surprises! Buy your tickets today.

WEDNESDAY, AUGUST 14

CLOSING LUNCH AND CELEBRATION: OH CANADA! EH?

With invited speakers, announcements and presentations.

Time: 12:00 to 13:30 • Room 517A, Palais des congrès • Included in registration fees for congress delegates.

Get a glimpse of Canada from the Atlantic to the Pacific. Feel the brotherhood Canadians share, along with the pride and laughter that unite us. They all call it Canada, but we call it home!
SUNDAY, AUGUST 11

CITY TOUR OF MONTREAL

Time: 09:00 to 12:00 • Group will meet in Viger Hall of the Palais des congrès • Price: $50

This exciting tour will introduce you to parts of the city that make Montreal what it is today. You will see the city’s cultural diversity and visit landmarks and new developments that help make Montreal such a unique and wonderful city. See Montreal’s elegant upper-class communities, our universities and part of our underground city. Check out the Plateau Mont-Royal, one of the top four hippest neighbourhoods in North America, known for its distinctive Montreal architecture featuring spiral staircases and finely wrought cornices. Along the way, the tour will stop at the summit of Mount Royal Park for a panoramic view of the city.

Inclusions: Deluxe transportation, professional English-speaking guide, taxes and gratuities.

FLAVOURS OF OLD MONTREAL

Time: 13:30 to 16:00 • Group will meet in Viger Hall of the Palais des congrès • Price $55

This walking tour will allow you to discover the culinary, cultural and historical charm of the Montreal’s oldest district. Housed in former warehouses and showrooms from the 19th century, selected food boutiques will open their doors and invite you in to taste their delicacies. As you wander through narrow cobblestone streets, the guide will explain how the Amerindians and nuns impacted on our food scene, and how hosting the World Expo in 1967 brought exotic food to our tables.

Inclusions: One professional English-speaking foodie guide per 10-12 people, food sampling, taxes and gratuities.

MONDAY, AUGUST 12

TASTING TOUR... À LA MONTREAL

Time: 10:00 to 14:00 • Group will meet in Viger Hall of the Palais des congrès • Price $100

Our professional guide will lead your small group through the city to discover some of the cultures that have influenced Montreal’s cuisine. We will discover a smorgasbord of shops and eateries along the lively St-Laurent Boulevard and enjoy a few local favourites like Quebec cheeses, smoked meat, delicious iced wine and bagels (which are reputed to be even better than New York bagels!). We will visit the open-air Jean Talon Market, the largest of its kind in North America, to savour the incredible cornucopia of fruits and vegetables grown by Quebec farmers. You will take away an appreciation of the cultures that helped shaped this international city.

Inclusions: Deluxe transportation, professional English-speaking foodie guide, food sampling (enough to replace lunch), taxes and gratuities.
BOTANICAL GARDEN AND BIODÔME
Time: 13:00 to 16:30 • Group will meet in Viger Hall of the Palais des congrès • Price $75

Travel along the St. Lawrence River to the second-largest botanical garden in the world, displaying 20,000 species of flowers and plants in 30 outdoor gardens and 10 greenhouses. Of special interest is a remarkable collection of bonsai and orchids. You can choose to visit the exhibition greenhouses, the Japanese Pavilion, the Chinese Garden, the Arboretum or the Insectarium.

The next stop is the Biodôme, a unique “living” museum concept. Wander through four full-scale natural ecosystems from the Americas: the tropical forest, the St. Lawrence marine environment, the Laurentian forest, and the polar world, complete with landscapes, waterfalls, rivers, flora and birds, animals and fish.

Inclusions: Deluxe transportation, professional English-speaking guide, admission fees, all taxes and gratuities.

TUESDAY, AUGUST 13

PIANO CONCERT WITH MARIE-ANDRÉE OSTIGUY
Time: 12:30 to 17:00 • Group will meet in Viger Hall of the Palais des congrès • Price $150

Travel back to the elegance of 19th century salons during this private piano concert. You will be charmed by this glamorous French-Canadian composer and pianist, who has been applauded by both critics and audiences for her mastery of the classical repertoire. Enjoy a concert selected especially for you and share your thoughts and feelings with the artist in her own home.

Inclusions: Deluxe transportation, professional English-speaking guide, coffee, tea, desserts, cheeses and wine, all taxes and gratuities.

CULTURAL TOUR
Time: 9:30 to 14:30 • Group will meet in Viger Hall of the Palais des congrès • Price $110

We have selected two of the most interesting museums for you!

At the Museum of Archaeology, you will discover the history of Montreal, starting with a multimedia show during which you will watch thousands of years of history spin by in 18 fascinating minutes. You will then explore the remainder of the museum at your own pace, enjoying the vibrant and colourful exhibition. In May, the museum is also hosting an exhibition on Canada’s First Nations.

There will then be a lunch in Old Montreal before proceeding to the next stop: the Montreal Museum of Fine Arts, one of the oldest museums in North America. Its collection ranks among the finest in Canada and covers European, Asian and African art, as well as contemporary and traditional Canadian art. In 2013, the museum will be hosting an exhibition on Peru: Kingdoms of the Sun and the Moon.

Inclusions: Deluxe transportation, professional English-speaking food guide, a three-course luncheon, admission fees, all taxes and gratuities.
WEDNESDAY, AUGUST 14

EXCLUSIVE SHOPPING

Time: 09:30 to 14:30 • Group will meet in Viger Hall of the Palais des congrès • Price $85

Montreal is a fascinating city for shoppers. From exclusive haute couture boutiques to trendy ready-to-wear shops, from eclectic antique shops to elegant art galleries, from manufacturers of warm voluptuous furs to designers of itsy-bitsy bikinis, Montreal has a huge and unique concentration of stores.

On this special tour, you will visit Harricana, owned by Mariouche Gagné, a Montreal designer who will show you how the fur business is thriving—with creations made entirely from recycled furs. We will then take you to jet-setting Laurier Avenue, with some of the finest shops like Les Touilleurs and Mimi & Coco, and finally we’ll make a stop at Bonsecours Market, where you will find an array of specialty shops, including Montreal’s leading fashion designers and boutiques for one-of-a-kind original or unique gifts designed and created right here in Quebec. Prepare to enjoy the one and only Montreal smoked meat for lunch!

Inclusions: Deluxe transportation, professional English-speaking guide, lunch, all taxes and gratuities.
Six field trips are being organized to bring together the participants of both the WMC and ISARC congresses.

Wednesday evening, August 14, to Thursday evening, August 15: overnight trips.

The first three field trips are being organized at a variety of mines. Trips will target surface mines, as well as some of the deepest mines in the world. Safety gear for underground and surface tours will be provided. Tours are priced at $1200 each. Inclusions are listed below.

**THURSDAY, AUGUST 15 | TRIP DEPARTURE: WEDNESDAY NIGHT**

1. KGHM, MCCREEDY WEST MINE – SUDBURY, ONTARIO

Inclusions: Transportation to/from the airport, transportation to/from the mine site, charter flight, 1 night hotel accommodation, breakfast at hotel, lunch at mine site. Participants are responsible for their dinner. Maximum of 18 visitors.

Surface, ore pad crushing faculties, ore sorter plant (currently idle), underground, cut and fill mining methods in the nickel zone, longhole stoping (stope cycle dependent), narrow vein copper mining, shrinkage mining (stope cycle dependent) in copper zone, underground mechanical shop.

2. KIDD MINE, XSTRATA COPPER – TIMMINS, ONTARIO

Inclusions: Transportation to/from the airport, transportation to/from the mine site, charter flight, 1 night hotel accommodation, breakfast at hotel, lunch at mine site. Participants are responsible for their dinner. Maximum of 18 visitors.

**Tentative tour itinerary:**

- 06:45 Arrival at mine site – site induction
- 07:15 Gear up for underground tour
- 08:00 Catch cage for underground tour (overview of active mining areas, equipment, and infrastructure)
- 13:00 Lunch and briefing on surface
- 13:30 Paste plant tour
- 15:00 Depart mine site
3. LARONDE, AGNICO-EAGLE MINES LTD. – VAL D’OR, QUEBEC

Inclusions: Transportation to/from the airport, transportation to/from the mine site, charter flight, 1 night hotel accommodation, breakfast at hotel, lunch at mine site. Participants are responsible for their dinner. Maximum of 10 visitors.

Tentative tour itinerary:
07:15 Arrive at LaRonde site; gear up for underground tour
08:05 Catch cage for the underground tour
08:30-11:30 Overview of active mining areas, equipment, and infrastructure
12:10 Catch cage back to surface
12:30 Lunch and presentation on the LaRonde division
14:00 Mill tour
15:00 End of the tour

Agnico-Eagle is a long-established gold producer, headquartered in Canada, with operations in Canada, Finland and Mexico, and exploration and developments in Canada, Finland, Mexico and the US. LaRonde has been Agnico-Eagle’s flagship operation since 1988, producing 4.5 million ounces of gold and valuable by-products. Access to the underground mining operation is through the 2.2-kilometre-deep Penna shaft, believed to be the deepest single-lift shaft in the Western Hemisphere. Construction of the deep extension of the LaRonde mine is complete and commercial production was achieved in November 2011. Ore is processed at the LaRonde mineral processing complex.

4. BEAUHARNOIS GENERATING STATION – MONTÉRÉGIE

Tour price of $50 includes bus transportation and visit. 09:00 to 12:00 (half day). Minimum number of participants: 21. Maximum of 50 visitors.

The Beauharnois Generating Station is one of the largest hydroelectric power plants in the world. Equipped with 38 generating units and stretching for nearly one kilometre, Beauharnois is one of Quebec’s most powerful generating stations. It also plays a key part in Hydro-Québec’s development because of its geographic position near Montreal and the Ontario and U.S. borders. Built over 75 years ago, the Beauharnois power plant is one of Quebec’s outstanding heritage buildings, featuring Art Deco architecture. You will be amazed by this monument to human hydroelectric know-how!

Note: Each participant must provide security information (date of birth and passport number) and present a photo ID at the site.
5. THE ROMAINE-2 JOBSITE – CÔTE NORD

Tour price of $900 includes bus to the airport, flight, lunch and transportation at the site. Time to be confirmed (full day). Minimum number of participants: 18. Maximum of 48 visitors.

Visit the jobsite of the hydroelectric project of the decade! Let yourself get caught up in the excitement of a construction site in full swing. The machinery, the orchestrated rhythm of the work, the open-cut and underground rock excavation, as well as the unobstructed views will fascinate visitors. At the Romaine-2 jobsite, you will learn about the steps involved in building a hydroelectric project, witness workers in action, find out about the various environmental programs and see what a work camp housing over 1,000 people looks like.

6. MCGILL UNIVERSITY HEALTH CENTRE’S (MUHC) GLEN SITE – MONTREAL

Tour price of $40 includes bus transportation and visit • Time: 10:00 to 12:00 (half day) • Minimum number of participants: 18. Maximum of 40 visitors.

SNC-Lavalin and its partners are proud to have been awarded this key public-private partnership project, which will give them a unique opportunity to demonstrate their expertise in carrying out major infrastructure projects, particularly in the health-care sector. Covering an area of 220,000 square metres, the MUHC’s Glen Site will make it possible to centralize ambulatory services for 25 departments and offer dedicated areas for world-class teaching, research and patient care, as well as 20 operating rooms, 154 pediatric and 346 adult single-patient rooms—all with private bathrooms and space for visiting family members. The new MUHC will transform health care by creating healing spaces that are respectful of the environment. It will house one of the most advanced research centres on the continent, bringing research from the lab to the bedside for the benefit of patients here and around the world. The Glen Site will be the new home for:

- Montreal Children’s Hospital
- Royal Victoria Hospital
- Montreal Chest Institute
- Research Institute of the MUHC
- New Cancer Centre
- Shriners Hospitals for Children® - Canada
Expand your network globally and participate in conversations that reach millions of people! Join us on Facebook, LinkedIn and Twitter, and take part in an exchange about current issues and best practices with peers and mining industry leaders.

“Like” us on Facebook

www.facebook.com/23rdWorldMiningCongress

Use Facebook to communicate with the World Mining Congress. Ask us questions, check out our photos and connect with the global mining community!

“Follow” us on Twitter

twitter.com/23rdWMC

The WMC hashtag is #worldmining. Use this to connect to the global mining community.

Connect to us on LinkedIn

www.linkedin.com/in/WMC2013

Use LinkedIn to join our growing network of global mining professionals and to discuss the latest hot topics.

REGISTER ONLINE BEFORE JUNE 28, 2013, AND SAVE!

www.WMC-expo2013.org
REGISTRATION | INSCRIPTION
Take advantage of early-bird registration prices when you register **before June 28**. Prices are in Canadian dollars.

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(Includes opening reception and 3 luncheons)

**COMBO WMC & ISARC**

Add $150 to your registration fee to gain full access to ISARC 2013.

**Entrance to The Expo! only**

| Visitor to The Expo! | $20 |
| Exhibitor staff | Free |

The above registration prices include the technical program, plenary, opening ceremonies, opening reception, The Expo!, 2 lunches on The Expo! floor, closing lunch, congress proceedings on a USB Key, and access to papers for FREE in the CIM Technical Library.

Note: Excluded from the registration price are the Monday night dinners, the Gala dinner, guest program activities, workshops and field trips. Tickets for those activities can be purchased during the registration process.

**INTERNATIONAL DELEGATES**

To obtain an invitation letter from the organizers, you must first register and pay for your congress registration in full. Following your registration, please click on the “Request Invitation Letter” link in your email registration confirmation.

Any questions? Ask Carol Lee at clee@cim.org

**REGISTER ONLINE AT:**
wmc-expo2013.org
HOST HOTELS are selected for delegates based on their close proximity to Montreal’s Palais des congrès (Convention Centre). To facilitate hotel reservations, we have arranged for a central reservation system with Tourism Montreal. The four host hotels are all within walking distance of the congress and trade show, and are listed below with group rates.

TO MAKE A RESERVATION—3 OPTIONS:

1. Through the WMC 2013 website (www.wmc-expo2013.org): click on the TRAVEL tab, followed by the Hotels & RSVP link. Follow the instructions.


3. By email: reservation@tourisme-montreal.org. Provide complete contact info, arrival and departure dates, and your choice of hotel from the four options below:

- Hyatt Regency Montreal $189 / Daily Rate
- Delta Centre-Ville $179 / Daily Rate
- InterContinental Montreal $219 / Daily Rate
- Westin Montreal $229 / Daily Rate

All rates are in Canadian dollars and include FREE Internet access, but exclude applicable taxes.
AIR TRAVEL OFFICIAL AIRLINE NETWORK

The participating carriers are offering a special Conventions Plus delegate fare discount. Please book online at www.staralliance.com/conventionsplus or through your travel agent using promo code AC12S13.

The booking must be made to the following city: Montreal, YUL (QC).


MONTREAL-TRUDEAU AIRPORT


There are 30+ international airlines flying to and from Montreal through the Montreal-Trudeau Airport, located in Dorval, some 20 km from the city centre.

Public transportation, shuttle buses, car rentals, taxis and limousines are available from the airport.

DOWNTOWN SHUTTLE AND CITY BUSES

Several hotels offer a shuttle service to and from the airport. Public transportation is also available at a nominal cost.
USEFUL INFORMATION | RENSEIGNEMENTS UTILES

THE VENUE | LIEU DE LA CONFÉRENCE

Palais des congrès de Montréal
(Montreal Convention Centre)
1001 Place Jean-Paul-Riopelle, Montreal, Quebec, Canada

The Palais is the ideal venue for holding conventions, exhibitions and other events in Montreal. Since it opened in 1983, the Palais des congrès de Montréal has built a worldwide reputation for excellence. After 4,300 events and over 13 million visitors, we can safely say that Montreal has developed an unparalleled level of expertise in hosting events and delegations from around the world.

The environment is both functional and state-of-the-art. Each of the three levels is designed for specific uses, but all share the convenience of virtually limitless possibilities in terms of space configuration. Enjoy multipurpose ultramodern facilities, contemporary architecture and abundant natural light.

Strategically located in the heart of Montreal and just steps away from Old Montreal, the Palais is the perfect gateway for enjoying our city. A unique experience awaits you as you discover captivating sites and historical attractions. You will share in the local lifestyle and meet friendly Montrealers who typically go with the flow of the seasons and are always happy to welcome people to their bilingual city. On foot, by bike, bus or car, you will find Montreal simply irresistible.

CONGRESS LANGUAGE

The official language of the congress is English and all printed materials will be published in English. Simultaneous interpretation will only be offered for the plenary.

CLIMATE

Average daytime temperatures in August are: high of 28°C / 83°F; low of 16°C / 60°F. It is a great time to combine business with pleasure, and head out to discover Montreal.
INTERNATIONAL VISIBILITY
Two congresses, one Expo!, thousands of industry experts and stakeholders!

Sponsoring this international congress gives your company access to and visibility with business managers, engineers, consultants, procurement agents, researchers, academics and industry practitioners in all specialty areas related to mining. And since the congress is being held jointly with ISARC 2013, you benefit not only from having mining experts from around the world gathered in Montreal, but also from the participation of renowned authorities in the fields of construction, petroleum, robotics and automation.

Meet face-to-face with thousands of international stakeholders, and be sure to build on the relationships ahead of time through multiple visibility vehicles. Let our team carry your message on social media and gain viral visibility fast.

This is a unique opportunity to position your company and align your brand with a prestigious international congress.

Contact
Mélanie Bouchard
Sponsorship & Advertising Sales

514.588.9047
wmc-sponsorship@wmc-expo2013.org

WWW.WMC-EXPO2013.ORG