



MINING 4 EVERYONE
MINES POUR TOUS

Preliminary Program Programme préliminaire

VANCOUVER CONVENTION CENTRE | CENTRE DES CONGRÈS DE VANCOUVER
VANCOUVER2014.CIM.ORG



CONGRÈS
ICM 2014
CONVENTION

May 11-14 | Du 11 au 14 mai
Vancouver, BC



Welcome to Bienvenue à

VANCOUVER

► “Mining 4 Everyone” is the theme that will drive topics of discussion at the upcoming 2014 CIM Convention taking place at the Vancouver Convention Centre from May 10 to 13. The convention is expected to attract more than 6,000 mining industry professionals.

Why “Mining 4 Everyone”? Firstly, mining provides value to multiple stakeholders – communities in which mining companies operate or, ultimately, the end users of the minerals mined. From another perspective, we must speak of diversity in mining – where opportunities exist for people of diverse skills and backgrounds. Over the course of the CIM Convention, we will be tackling the many issues emanating from the growing shortage of skills, making succession planning for the industry a challenge. More than 140,000 new workers will be required by 2020, and creating great opportunities for all workers, including women, aboriginal communities and immigrants, can ensure the future of mining in Canada.



Understanding the opportunities that mining can provide, using due care, and paying attention to the environment, will give mining companies the social licence to operate. Mining can either be tolerated or considered the lifeblood of generations of workers. CIM has always been a firm advocate for opportunities available in the business, and the 2014 convention is set to create further awareness of the full range of these opportunities and potentially give mining practitioners further tools to successfully engage and enlist people to the industry.

The technical program will feature seven streams including: Global Dimensions of Mining; Innovations; Harnessing our Diverse World; Managing Operations: Mine to Mill; Rock Engineering; Construction to Production; and, for the first time,

the CIM Convention will host the Ethics in Mining Symposium, in partnership with the Canadian Business Ethics Research Network (CBERN).

CIM 2014's three-day technical program will kick off with an electrifying plenary session featuring a marquee lineup of industry leaders examining the convention's theme, moderated by the award-winning investigative journalist and co-host of the CBC's *The Fifth Estate*, Mark Kelley. At CIM 2014, the boldest and most innovative change-masters will exchange ideas and initiate promising change.

The Expo! – In conjunction with the CIM Convention, the CIM Exhibition (now called The Expo!) will be celebrating its 31st anniversary. Sold out again this year, it will host more than 500 exhibiting companies featuring the latest in mining equipment, tools, technologies and services. The Expo! is Canada's mining marketplace.

M4S (the educational show on Mining, Minerals, Metals and Materials) – Showcasing the number and variety of careers available directly and indirectly in the mining industry, M4S will help increase participants' knowledge of the entire mining cycle – from exploration and extraction to production and reclamation. Teachers, students and the general public are typically surprised at how positively mining impacts their daily lives and how many careers and jobs the sector generates – in every sector of employment. The interactive activities at each of the thematic pavilions are sure to make visitors' experiences unforgettable.

We look forward to seeing you in Vancouver!

A handwritten signature in black ink, appearing to read "Patty Moore".

Patty Moore
Convention General Chair

A handwritten signature in black ink, appearing to read "Robert Schafer".

Robert Schafer
CIM President 2013–14



« Mines pour tous » est le thème général qui servira d'inspiration pour les sujets de discussion au Congrès de l'ICM 2014 qui se tiendra du 10 au 13 mai au Vancouver Convention Centre. On s'attend à ce que plus de 6 000 professionnels de l'industrie minière assistent à ce congrès organisé par l'Institut canadien des mines, de la métallurgie et du pétrole (ICM).

Pourquoi « Mines pour tous »? Tout d'abord, l'exploitation minière procure de la valeur à de nombreux intervenants dont les collectivités dans lesquelles les sociétés minières exercent leurs activités et même les utilisateurs finaux des minéraux exploités. D'un autre point de vue, l'industrie minière est un milieu caractérisé par une grande diversité où de nombreuses possibilités existent pour des personnes possédant différentes compétences et provenant de différents contextes. Plus de 140 000 nouveaux travailleurs seront requis d'ici 2020. En offrant des possibilités intéressantes à tous les travailleurs, y compris les femmes, les collectivités autochtones et les immigrants, nous pouvons assurer l'avenir de l'exploitation minière au Canada.

En faisant preuve de la diligence nécessaire pour comprendre les possibilités que peut offrir l'industrie minière et en se souciant de l'environnement, les sociétés minières pourront obtenir l'acceptabilité sociale dont elles ont besoin pour exercer leurs activités. L'ICM a toujours été un fervent défenseur des possibilités qu'offrait le milieu et, dans le cadre du congrès de 2014, elle se prépare à sensibiliser davantage les gens à toutes ces possibilités et à donner aux professionnels miniers d'autres outils pour réussir à recruter des travailleurs qui s'impliqueront dans l'industrie.

Le programme technique comprendra sept thèmes dont les suivants : « Dimensions mondiales de l'exploitation minière », « Innovations », « Maîtrise de la diversité mondiale », « Gestion des opérations – du traitement à la transformation », « La mécanique des roches » et « De la construction à la production ». De plus, pour la toute première fois, le Congrès de l'ICM accueillera le symposium « Éthique et industrie minière » présenté en partenariat avec le Canadian Business Ethics Research Network (CBERN).

Le programme technique s'échelonnera sur trois jours et débutera par une plénière électrisante réunissant les plus grands leaders de l'industrie qui examineront le thème général du congrès. Cette séance sera animée par Mark Kelley, journaliste-enquêteur primé et coanimateur de l'émission The Fifth Estate à CBC. Au Congrès de l'ICM 2014, les maîtres du changement les plus audacieux et les plus innovateurs échangeront des idées et amorceront des changements prometteurs.

L'Expo! : À l'occasion du Congrès de l'ICM, le Salon de l'ICM (dorénavant appelé l'Expo!) célébrera son 31^e anniversaire. Complet encore une fois cette année, le Salon accueillera plus de 500 entreprises exposantes offrant de l'équipement, des outils, des technologies et des services de pointe pour l'exploitation minière. L'Expo! est le marché de l'industrie minière au Canada.

M4S – le salon éducationnel sur les mines, les minéraux, les métaux et les matériaux met en évidence le grand nombre et l'étonnante diversité de carrières qu'offre directement et indirectement l'industrie minière. Les professeurs, les étudiants et les membres du grand public sont généralement surpris de l'effet positif qu'a l'exploitation minière sur leur vie et leurs activités quotidiennes. Les activités interactives présentées à chacun des pavillons thématiques offriront aux visiteurs des expériences inoubliables.

Patty Moore

Présidente du congrès

Robert Schafer

Président de l'ICM 2013-14

ORGANIZING COMMITTEE COMITÉ ORGANISATEUR

CIM PRESIDENT | PRÉSIDENT DE L'ICM
Robert Schafer

**CIM EXECUTIVE DIRECTOR |
DIRECTEUR EXÉCUTIF DE L'ICM**
Jean Vavrek

**CONVENTION GENERAL CHAIR |
PRÉSIDENTE GÉNÉRALE DU CONGRÈS**
Patty Moore

PLENARY CHAIR | PRÉSIDENT DE LA PLÉNIÈRE
Bob McCarthy

SPONSORSHIP | COMMANDITES
Sean Waller
Robert Schafer
Jean Vavrek

TECHNICAL PROGRAM | PROGRAMME TECHNIQUE
Greg Rasmussen

**TECHNICAL PROGRAM TRACK CHAIRS |
PRÉSIDENTS DES THÈMES TECHNIQUES**
Global Dimensions of Mining

Wes Carson

Innovations

Andy Lemay

Harnessing our Diverse World

Patty Moore

Christy Smith

Construction to Production

Tim Watson

Managing Operations from Mine to Mill

Jo-Anne Boucher

Rock Engineering

Denis Thibodeau

Ethics in Mining Symposium

Wesley Cragg

Janis Shandro

Angelique Slade Shantz

Management & Finance Day

Lawrence D. Smith

Jane Spooner

**DIRECTOR OF CONVENTIONS & TRADE SHOWS |
DIRECTRICE DES CONGRÈS**
Lise Bujold

STUDENT PROGRAM | PROGRAMME DES ÉTUDIANTS
Andrew Crook
Brent Hilscher

**WORKSHOPS AND FIELD TRIPS |
ATELIERS ET VISITES DE MINES**
Claudia Lopez

GUEST PROGRAM | PROGRAMME DES INVITÉS
Patti Schafer
Deb Waller

M4S SHOW
Laurie Ashley
Lucie Vincent

**THE EXPO! & CIM JOB FAIR |
L'EXPO! ET LA FOIRE DE L'EMPLOI DE L'ICM**
Martin Bell
Nadia Bakka

**CONVENTION COORDINATOR |
COORDONNATRICE DU CONGRÈS**
Chantal Murphy

**REGISTRATION & CUSTOMER CARE |
INSCRIPTIONS ET ASSISTANCE À LA CLIENTÈLE**
Carol Lee

WORKSHOPS | ATELIERS



► The Winning of Uranium

This workshop serves as a complete introduction to the winning of uranium and as a refresher course detailing the latest technology. The course begins with a discussion of the role of uranium in providing low-carbon emission power as the fuel for nuclear power reactors. The nuclear fuel cycle is described for general background information and to provide an understanding of the position of uranium production in it. A survey of uranium mineralogy, deposit types and mining methods sets the stage for milling. Each uranium milling unit operation and its variations are presented. Equipment choices for each unit are presented and evaluated. Uranium refining and reactor fuel fabrication are described. What radiation is, where it comes from, and how we protect ourselves from it are described in detail. Uranium as a byproduct and byproducts from uranium mining are reviewed. Selected uranium operations around the world are shown and discussed throughout the course. The course closes with a discussion of nuclear power reactor accidents.

FACILITATOR: CHUCK EDWARDS, DIRECTOR, METALLURGY, AMEC

TIME: SATURDAY AND SUNDAY, MAY 10 & 11 | 8:00 TO 17:00 ON BOTH DAYS

SCHEDULE AT A GLANCE APERÇU DU PROGRAMME

SATURDAY, MAY 10 | SAMEDI 10 MAI

- 8:00–17:00 Workshops
- 13:00–17:00 Registration

SUNDAY, MAY 11 | DIMANCHE 11 MAI

- 7:30–11:00 Leadership Congress for CIM Officers
- 8:00–17:00 Workshops
- 8:00–20:00 Registration
- 8:00–20:00 International Delegation Lounge
- 10:00–16:00 M4S show – General Public Day
- 11:00–12:00 CIM Annual General Meeting
- 11:30–15:00 Guest program: Nature and Art Boat Cruise
- 14:00–16:00 Surface and Underground Mining Societies' Reception
- 15:00–20:00 Business Class Lounge/Media Room
- 15:00–20:00 Presenters' Preparation Room
- 16:30–17:00 SMS Equipment & Komatsu Welcome Ceremony
- 17:00–20:00 Opening Reception in The Expo!

MONDAY, MAY 12 | LUNDI 12 MAI

- 7:00–8:30 Breakfast for Monday's Presenters and Session Chairs
- 7:30–8:30 Knowledge Breakfast: Canada's Anti-Spam Legislation
- 7:30–9:00 CEO and Plenary Speakers' Breakfast
- 7:30–10:00 Guest Hospitality Room
- 7:30–17:00 Registration
- 7:30–17:00 Presenters' Preparation Room
- 7:30–17:00 Business Class Lounge/Media Room
- 8:00–17:00 International Delegation Lounge
- 9:00–11:30 Plenary Session
- 9:00–16:00 M4S show – Schools
- 10:00–17:00 The Expo!/CIM Job Fair/Student Poster Program
- 12:00–14:00 Lunch in The Expo!
- 13:00–14:45 Guest program: Walking Tour of Granville Street
- 14:00–16:30 Technical Program:
 - Global Dimensions of Mining
 - Innovations
 - Harnessing our Diverse World
 - Construction to Production
 - Managing Operations from Mine to Mill
 - Ethics in Mining Symposium
- 15:30–17:00 Networking Cocktail Reception in The Expo!
- 18:00–19:00 CIM Awards Gala Reception
- 19:00–23:00 CIM Awards Gala



► Guidance to the New Rules Under NI 43-101

The new rules under NI 43-101 took effect on June 30, 2011, and since then the Canadian Securities Regulators have published a series of staff notices on how the mining industry is adopting these rules. Unfortunately, there has been a high frequency of non-compliant technical reports filed since the new rules took effect, particularly for technical reports prepared on advanced mineral projects (preliminary economic assessments, prefeasibility and feasibility studies, and life-of-mine reports).

This course will review the common issues of non-compliance identified by Canadian Securities Commission staff and provide suggestions on how to prepare mining technical disclosure documents that are more likely to be in compliance with current Canadian and U.S. mining disclosure standards.

FACILITATORS: GREG GOSSON, TECHNICAL DIRECTOR OF GEOLOGY & COMPLIANCE, AND STELLA SEARSTON, PRINCIPAL GEOLOGIST, AMEC

TIME: SUNDAY, MAY 11 | 8:00 TO 16:30

► Aerobic and Anaerobic Biotechnology for Treating Mining-Influenced Waters

There are a wide variety of active and passive treatment processes that can be used to treat mining-influenced waters (MIWs) such as acid rock drainage (ARD) and neutral mine drainage (NMD). This short course will address the chemistry, biology, design, modelling testing, and operation of semi-passive, in-ground engineered bioreactor (EB) systems that incorporate aerobic and anaerobic bioreactors as their secondary wastewater treatment basins (cells), and also may involve upstream primary treatment cells such as limestone drains and sedimentation ponds as well as downstream tertiary treatment cells such as those for phosphate removal and polishing. The kinds of secondary treatment bioreactors addressed in detail during the course will include aerated bioreactor engineered wetland (BREW) bioreactors, denitrification bioreactors (DNBRs), successive alkalinity producing systems (SAPS bioreactors), sulphate-reducing anaerobic biochemical reactors (BCRs), and specialty BCRs for treating specific oxyanions such as those of arsenic, chromium, and selenium.

FACILITATORS: JAMES HIGGINS, SENIOR EXECUTIVE CONSULTANT & DIRECTOR OF ECOLOGICAL ENGINEERING, STANTEC CONSULTING INC., AND AL MATTES, GEOMICROBIOLOGIST

TIME: SUNDAY, MAY 11 | 8:30 TO 16:30

TUESDAY, MAY 13 | MARDI 13 MAI

- 7:00–8:30 Breakfast for Tuesday's Presenters and Session Chairs
- 7:30–8:30 Knowledge Breakfast: A Changing International Landscape
- 7:30–10:00 Guest Hospitality Room
- 7:30–17:00 Registration
- 7:30–17:00 Presenters' Preparation Room
- 7:30–17:00 Business Class Lounge/Media Room
- 8:00–17:00 International Delegation Lounge
- 8:30–16:30 Technical Program:
 - Global Dimensions of Mining
 - Innovations
 - Harnessing our Diverse World
 - Construction to Production
 - Managing Operations from Mine to Mill
 - Rock Engineering
 - Ethics in Mining Symposium
- 9:00–16:00 M4S show – Schools
- 10:00–15:00 Guest program: Morning at the Museum
- 10:00–17:00 The Expo!/CIM Job Fair/Student Poster Program
- 12:00–14:00 Lunch in The Expo!
- 12:00–14:00 Student-Industry Luncheon
- 15:30–17:00 Networking Cocktail Reception in The Expo!
- 17:00–19:00 Women in Mining Reception and VIP Reception
- 20:00–00:00 Joy Global Gala

WEDNESDAY, MAY 14 | MERCREDI 14 MAI

- 7:00–8:30 Breakfast for Wednesday's Presenters and Session Chairs
- 7:30–14:00 Registration
- 7:30–14:00 Presenters' Preparation Room
- 7:30–14:00 Business Class Lounge/Media Room
- 8:30–12:15 Technical Program
 - Global Dimensions of Mining
 - Innovations
 - Harnessing our Diverse World
 - Managing Operations from Mine to Mill
 - Ethics in Mining Symposium
 - Management & Finance Day
- 12:00–13:30 Closing Luncheon hosted by CIM and Vancouver Board of Trade
- 14:00–17:00 Technical Program: Management & Finance Day
- 14:00–17:00 Special Session: Extractive Sector Multi-stakeholder Dialogue Session

► Health, Safety and Security & the Extractive Sector

Health and safety impacts of conflict, violence and human-rights abuse linked to security operations. These are some of the most severe outcomes that extractive industries face in international communities. In addition to their human toll, they can cause significant damage to a company's reputation worldwide. International attention focuses on these risks through International Finance Corporation Performance Standard 4 on Community Health, Safety and Security; the Equator Principles; and the Voluntary Principles on Security and Human Rights (VPSHR). But managing them can be a serious challenge for operations managers and corporate directors due to gaps in knowledge and best practices. This one-day workshop addresses those gaps and goes deeper to examine the under-appreciated drivers that often trigger conflict, focusing on the linkage of health and community safety with company security. This workshop is appropriate for management-level extractive industry professionals who need to effectively identify and manage risk and want to create opportunities for mutual benefits for company and community.

FACILITATORS: GARY MACDONALD, ONE OF THE FOUNDERS, TOM GREEN, SENIOR MANAGER, AND JANIS SHANDRO, DEVELOPMENT OF COMMUNITY HEALTH AND SAFETY MANAGEMENT, MONKEY FOREST CONSULTING LTD.

TIME: SUNDAY, MAY 11 | 8:30 TO 16:30

► Critical Aspects of Water Management in Mining

Water is essential for mine start-up and operations and is often the lasting legacy at closed mines. As a fundamental part of every mine, how water is managed affects the technical and financial feasibility of greenfield projects and active mines. Water balance modelling and water treatment are two of the "critical aspects" of water management, mine development, operation and closure planning.

This dynamic workshop will provide an interactive forum to learn, interact and discuss the critical aspects of mine water planning with experienced practitioners.

FACILITATORS: PATRICK G. CORSER, GLOBAL MINING PRACTICE LEADER, TATYANA ALEXIEVA, GLOBAL WATER & TAILING MANAGEMENT LEAD, AND KARLA KINSER, GLOBAL MINE WATER TREATMENT LEADER, MWH GLOBAL

TIME: SUNDAY, MAY 11 | 8:30 TO 16:30

► Overview of Resources Estimation from Data Collection to Model Validation

A significant risk to proper valuation of a mining project is associated with data collection, geological interpretation and resource estimation methodology.

This workshop is an overview of resource estimation from data collection to estimated resource model validation. It will start with a discussion on the sources of uncertainty and risk in mineral deposit modelling and how to mitigate them with good governance and quality management. The resource estimation steps are then covered one at a time: data collection and importance of good QA/QC; geological interpretation and domain; exploratory data analysis including de-clustering, top-



cutting and geological contact analysis; analysis of spatial variability; change of support and selectivity (we collect samples but we mine blocks); estimation methods such as nearest neighbour, inverse distance to some power, and kriging; precision of estimation; estimated model validation; and classification.

FACILITATOR: GEORGES VERLY, CHIEF GEOSTATISTICIAN, AMEC

TIME: SUNDAY, MAY 11 | 8:00 TO 16:30

► Transparency International Anti-Corruption Tools and Resources For Corporate Risk Management Systems

Corruption has been a key focus recently with amendments to the Corruption of Foreign Public Officials Act (CFPOA), convictions under the CFPOA, and impending regulations on revenue transparency in the extractive industry. Corruption was also a key topic at the recent G8 summit and a focus of the Canadian government.

This session will examine the tools available to companies to foster a corporate culture of responsibility and ethical business practices. Looking at the experience and materials developed by Transparency International, the facilitators will review recent anti-corruption global events related to the extractive industry and explain strategies and practices that companies can implement to ensure compliance, even in high-risk locations.

FACILITATORS: BRONWYN BEST, SENIOR ADVISOR, TRANSPARENCY INTERNATIONAL CANADA, AND PETER DENT, PRESIDENT OF TRANSPARENCY INTERNATIONAL CANADA, PARTNER AND NATIONAL LEADER OF FORENSIC & DISPUTE SERVICES AT DELOITTE & TOUCHE LLP, AND JOE RINGWALD, DIRECTOR OF TRANSPARENCY INTERNATIONAL CANADA, PRESIDENT & CEO OF SELWYN RESOURCES LTD.

TIME: SUNDAY, MAY 11 | 8:30 TO 16:30

► Minesite Selenium Regulatory Compliance Strategies, and Treatment Methods and Approaches for Effluent Permits, Receiving Water Quality Standards, and the Federal Metal Mine Effluent Regulation

This workshop will provide the full scope of regulatory and selenium treatment requirements relative to the Environmental Assessment, Permitting and Permit Compliance phases (focusing on B.C. requirements as a surrogate). It will also



provide an overview of several selenium treatments and treatment approaches, their relative effectiveness, stage of development and cost of selenium removal.

FACILITATORS: JAY HARWOOD, GE WATER & PROCESS TECHNOLOGIES, ANDREW HALL, BIOTEQ ENVIRONMENTAL TECHNOLOGIES, JACK ADAMS, INOTEC, DAVE ENEGESS, ENVIROGEN TECHNOLOGIES, AND JOHN CLARK, JOHN CLARK CONSULTING

TIME: SUNDAY, MAY 11 | 8:30 TO 16:30

► Communication Tools for Gaining, Maintaining or Re-Establishing Social Licence to Operate

Over the past decade, the primacy of the proponent has diminished in relation to the influence of external stakeholder, making social licence to operate a critical factor in decision-making, particularly for risk-averse government regulators. Having a social licence is like having a bank of trust and goodwill that can be drawn upon when issues arise. Failure to gain and maintain this "licence" has negative impacts on the project and can result in missed opportunities. This workshop will provide insight on how to build successful community engagement, earn project acceptance, identify opportunities for stakeholders' benefit, and to develop trust – all key attributes in a social licence to operate.

FACILITATORS: ROBERT SIMPSON, PRESIDENT, AND JOCELYN FRASER, SENIOR ASSOCIATE, PR ASSOCIATES

TIME: SUNDAY, MAY 11 | 8:30 TO 16:30

► Mining 101 – An Introduction to Mining and Mineral Processing

Mining 101 is an introduction to mining and mineral processing using basic concepts and many examples. It consists of five parts: the activities of a mining company; geological concepts; mineral resources estimation and reporting; open pit and underground mining; and mineral processing.

FACILITATOR: GEORGE MCISAAC, GEOLOGY & MINING EVALUATION CONSULTING (G-MEC)

TIME: SUNDAY, MAY 11 | 8:30 TO 12:30

► Gender Diversity Awareness for Management and Leadership

Attracting, retaining and advancing talented women in the mining sector brings benefits to mining and exploration organizations including addressing skills gaps, sustaining growth and driving innovation. The Gender Diversity Awareness Workshop for managers and leaders provides an opportunity to share practical information on developing and strengthening inclusive workplaces.

FACILITATORS: SUSAN HOLLETT, PRESIDENT, HOLLETT AND SONS INC., AND CAROLYN EMERSON, RESEARCHER, MEMORIAL UNIVERSITY

TIME: SUNDAY, MAY 11 | 8:00 TO 12:00

► Diversity and Inclusion 101

According to Statistics Canada, by 2017, the number of visible minorities in Canada is expected to double and account for around 20% of Canada's population. In 2006, 51% of new

IMPORTANT

REGISTRATION | INSCRIPTION

Take advantage of **early-bird** registration prices until **April 1**. Registration to the CIM Convention includes access to the Ethics in Mining Symposium.

	BEFORE APRIL 2	AS OF APRIL 2
CIM NATIONAL MEMBERS		
Business class (access to the VIP lounge)	\$840	\$960
Regular member	\$715	\$840
Presenter and session chair	\$650	\$770
Student, unemployed, retired	\$80	\$105
Life member	\$270	\$270

NON-CIM MEMBERS

(Fee includes one-year membership to CIM)

Business class (access to the VIP lounge)	\$1,040	\$1,160
Regular non-member	\$915	\$1,040
Presenter and session chair	\$800	\$920
Student	\$80	\$105
Unemployed, retired	\$180	\$205

ETHICS IN MINING SYMPOSIUM ONLY

Delegate	\$295	\$295
Presenter	\$200	\$200

EXHIBITION ONLY

Visitor to the Expo! only	\$40	\$40
VIP visitor to the Expo! only	Free	Free
Exhibitor staff	Free	Free

One-day pass, guest registration and more information available online.

HOTELS | HÉBERGEMENT

Conference Direct is the official housing bureau for the CIM Convention. The online one-stop reservation central makes it seamless for you to reserve your room at the group rate. Space is limited so reserve early! Please refer to our hotel reservation webpage: vancouver2014.cim.org, and book via QUICKLINKS at the bottom of the page.

AIR TRAVEL INFORMATION | TRANSPORT AÉRIEN

We have appointed Air Canada as the official airline for the CIM 2014 Convention & Expo! in Vancouver. For online reservations, go to www.aircanada.com and enter the convention code **K246DMB1** in the search engine.

immigrants reported that they held university degrees, compared to only 19% of the Canadian population. The aboriginal labour force is young and is growing at twice the Canadian rate.

We live in a country that is becoming increasingly diverse. We value working with different talent; however, diversity conversations are not easy ones. We have different values, beliefs, experiences and perceptions, understanding these differences and commonalities can be challenging but it can also bring opportunities. Diversity and inclusion awareness help us: (1) attract and retain talent which is essential to be an effective and productive organization; (2) manage retirement and labour shortages more efficiently; (3) better understand the needs of our clients so we can provide better services; and (4) foster creativity, innovation and problem solving.

FACILITATORS: MAFALDA ARIAS, FOUNDER, MAFALDA ARIAS AND ASSOCIATES

TIME: SUNDAY, MAY 11 | 9:00 TO 12:00

► A Global Mindset

The geography of knowledge has shifted. Technological superiority is no longer a geographic privilege. New communication tools have levelled the information and knowledge playing field. The newest technology and innovation may come from anywhere. Competent technical services are available worldwide at less cost. What do we do? How do we stay competitive in the field? How can we collaborate efficiently on a global scale? Can you imagine working on a project with the best global talent? The potential for global collaboration is exponential; however, how do we manage the misunderstandings of multiple languages and cultures? The importance of solid technical skills is unquestionable, but to remain competitive in the global workplace we must expand our set of skills. Which soft skills you should acquire to remain competitive?

FACILITATOR: MAFALDA ARIAS, FOUNDER, MAFALDA ARIAS AND ASSOCIATES

TIME: SUNDAY, MAY 11 | 13:00 TO 16:30



► Controlling Dust in the Mining Industry

- Fundamentals of dust control in the mining industry
- Identifying generation sources
- Sampling protocols
- Strategies for control, specialized ore considerations, road and ramp considerations
- Solution equipment overview

FACILITATORS: DAVID BEHR, MINING INDUSTRY CORPORATE ACCOUNT EXECUTIVE, SCOTT SMITH, NORTH AMERICAN COMMERCIAL LEADER, AND BRETT PERSON, SPECIALIST, GE POWER & WATER

TIME: SUNDAY, MAY 11 | 13:00 TO 16:30

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SPECIAL SESSION

► Extractive Sector Multi-Stakeholder Dialogue Session

CIM's Environmental & Social Responsibility Society, in collaboration with the Centre for Excellence in CSR, launched the Extractive Sector Multi-Stakeholder Dialogue Series last May in Toronto at the CIM Annual Convention. Dialogue sessions followed in Montreal at the World Mining Congress in August, and in Quebec City at Québec Mines in November 2013.

To ensure diversity, participants that register are assigned to specific round tables where they will engage in facilitated round table discussions under the Chatham House Rule and in an informal "world café" format. They will engage in a first dialogue on mutual values to build a constructive basis. A second dialogue will focus on key concerns and challenges facing the extractive sector and of concern to all stakeholders.



Facilitators assigned to each table will then share results with the group. This session is free of charge.

TIME: WEDNESDAY, MAY 14 | 14:00 TO 17:00

COST: FREE (Limited seats – must be registered before May 1)

LOCATION: VANCOUVER CONVENTION CENTRE



FIELD TRIPS | VISITES DE MINES

► New Gold, New Afton Mine, Kamloops, B.C.

The New Afton copper-gold mine is located around 350 kilometres northeast of Vancouver in the south-central interior of British Columbia. The property is only 10 kilometres from the regional hub of Kamloops and is easily accessible by paved road.

The New Afton mine occupies the site of the historic Afton mine, a previous Teck Resources Limited (Teck) operation that includes an open pit, underground workings, historic support facilities, a new concentrator and recently constructed tailings facility. The deposit extends to the southwest from immediately

beneath the Afton mine open pit. New Afton began production in June 2012 and began commercial production ahead of schedule in July 2012. The underground operation is expected to produce, on average, 85,000 ounces of gold and 75 million pounds of copper per year over a 12-year mine life.

DATE: THURSDAY, MAY 15 | 7:00 TO 19:00

COST: \$1,200 (INCLUDES BUS TO/FROM THE AIRPORT, CHARTER FLIGHT, BUS AT THE SITE AND LUNCH)

MORE FIELD TRIPS WILL BE AVAILABLE ON OUR WEBSITE AS THEY ARE CONFIRMED.



CIM2014 CONVENTION

Vancouver, BC | May 11-14

WE'RE ALL 4 CONNECTING

Join the global CIM Convention
online community!

VANCOUVER2014.CIM.ORG

NEED HELP
JOINING THE
CONVERSATION

ASK U

Twitter @AnnualCIM
Official hashtag: #AnnualCIM
Participate in this live conversation.
Tweet all about it.

LinkedIn CIMConvention
Exchange on leading mining topics
expand your professional network.

Facebook CIMConventionTO
Ask us questions, check in
and connect with the global
Convention community!



STUDENT PROGRAM | PROGRAMME ÉTUDIANT

Sponsored by



The CIM 2014 Convention in Vancouver will be the ultimate opportunity for you to network and meet with professionals and peers in your fields, as well as with managers throughout the mining industry. When it comes to looking for that perfect job – or perhaps co-op opportunity or research support – a strong network can be the key to getting straight As!

The student program will ensure the 2014 CIM Convention is both informative and educational. It will enable you to put your best foot forward and make a lasting impression. And, it is one of the greatest opportunities to make friends with your peers from schools across the country.

► Student Poster Competition

Submit your abstract online before March 1, 2014, and take advantage of this perfect opportunity to showcase your talents to leading mining industry professionals on a wide range of topics, from geology and mining to processing and sustainability.

vancouver2014.cim.org

► And there's more!

Student registration also includes access to all of the same elements as regular registration:

- Complete technical program
- CIM Plenary
- Free online access to the papers and presentations after the conference
- The Expo! (formerly the CIM Exhibition)
- CIM Job Fair
- CIM Opening Reception
- Monday lunch in the Expo!
- CIM Student-Industry Luncheon
- Joy Global Gala

Rick Hutson, senior consultant at C.J. Stafford & Associates, and Larry Smith, senior manager, project evaluations and strategic analysis at Barrick Gold Corporation, will provide relevant information on networking, resumé writing, how to create effective business cards, and other useful career-building tips and hints. You do not want to miss it!

KNOWLEDGE BREAKFASTS

These knowledge breakfasts are meant to kick-start your day with like-minded peers and a keynote presentation to boost your energy. These short morning presentations will fill your head with tips and tricks you read about on LinkedIn and Management & Leadership blogs – small strategies meant to make our day-to-day business planning and dealing more seamless, things we need to be reminded of regularly! A deluxe continental breakfast will replace room service.

Book your tickets and join us!



CANADA'S ANTI-SPAM LEGISLATION (CASL): IS YOUR COMPANY READY?

MONDAY, MAY 12

7:30 to 8:30 | Cost: \$35

Speaker: Rachel Stephan,
President, Sensor



PLANNING IN A CHANGING INTERNATIONAL LANDSCAPE

TUESDAY, MAY 13

7:30 to 8:30 | Cost: \$35

Speaker: Jean Vavrek,
Executive Director, CIM



THE EDUCATIONAL SHOW ON MINING, MINERALS, METALS AND MATERIALS | LE SALON ÉDUCATIF SUR LES MINES, MINÉRAUX, MÉTAUX ET MATÉRIAUX

Now in its ninth year, CIM's M4S show is expected to welcome more than 4,000 students, teachers and members of the general public over the course of three days. M4S features eight interactive pavilions exploring the wide range of activities that represent the full mining cycle: from exploration, mining and processing to product fabrication, safety, sustainability and education, and space and deep sea mining. M4S demonstrates the importance of the mining industry in our daily lives and

presents some of the diverse career opportunities offered through this enviable industry. With an estimated 140,000 jobs to fill in the mining and minerals sector by the year 2020, educating and training the future workforce about the wide variety of professions related to the sector has become more important than ever. M4S is made possible through the collaboration, participation and generous support of numerous industry, academic and government exhibitors, sponsors and volunteers.

M4S SCHEDULE

VANCOUVER CONVENTION CENTRE HALL A

- ▶ **SUNDAY, MAY 11 | 10:00 to 16:00**
Open to the general public (Free!)
- ▶ **MONDAY, MAY 12 | 9:00 to 16:00**
Scheduled visits by registered schools
- ▶ **TUESDAY, MAY 13 | 9:00 to 16:00**
Scheduled visits by registered schools

www.m4society.org

Contacts:

Lucie Vincent, M4S Coordinator
lvincent@cim.org

Laurie Ashley, M4S Chair, Vancouver 2014
laurie@lashleystategy.com



PLAN 4 IT

Get the Convention mobile app
as of April 2014.

VANCOUVER2014.CIM.ORG

- Build your personalized schedule
- Locate sessions and exhibitor booths with the interactive floor map
- See who's attending and connect onsite
- Stay up to date with event alerts

SOCIAL PROGRAM | PROGRAMME SOCIAL

A myriad of social activities has been planned to maximize your networking opportunities. Make sure to reserve your tickets early or you will miss out on all the excitement!

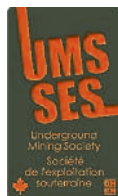


SUNDAY, MAY 11

CIM SURFACE & UNDERGROUND MINING SOCIETIES RECEPTION

Mix and mingle at the CIM Surface Mining & Underground Mining Societies Reception. Come enjoy the entertainment and have a drink on us. Gifts are up for grabs so be sure to bring extra business cards to enter the draws.

TIME: 14:00 TO 16:00 | **LOCATION:** VANCOUVER CONVENTION CENTRE | **COST:** INCLUDED IN THE DELEGATE AND EXHIBITOR REGISTRATION



OPENING CEREMONY & WELCOME RECEPTION

This grand networking event is sponsored by SMS Equipment & Komatsu. Year after year, participants gather at the opening reception of the CIM Convention for an evening of guest speakers and live entertainment. You will be treated to hors d'oeuvres and buffet stations in the exhibition.

TIME: 16:00 TO 20:00 | **LOCATION:** THE EXPO! IN EXHIBIT HALL B & C | **COST:** INCLUDED IN THE DELEGATE REGISTRATION FEE



MONDAY, MAY 12 & TUESDAY, MAY 13

CIM NETWORKING OPPORTUNITIES

Lunch and cocktail receptions in the Expo! are being held on Monday and Tuesday, 12:00 to 14:00 and 15:30 to 17:00. Lunch and one drink ticket per day are included with each delegate registration.

MONDAY, MAY 12

CIM AWARDS GALA



The CIM Awards Gala celebrates the true leaders of the Canadian mining industry – both past and present. This year's headline entertainment features Canadian comedian and impressionist extraordinaire André-Philippe Gagnon. A sumptuous dinner will be served.

RECEPTION: 18:00 TO 19:00 | **DINNER:** 19:00 TO 23:00
LOCATION: VANCOUVER CONVENTION CENTRE
COST: \$175



The Image Commission



The Image Commission

TUESDAY, MAY 13

STUDENT-INDUSTRY LUNCHEON



This luncheon has proven to be the perfect opportunity for students to meet industry leaders and establish indispensable contacts. Stars of the ever-popular "Rick and Larry Show" – Rick Hutson and Larry Smith – will provide relevant information on networking, resumé writing, creating effective business cards, and other useful career-building tips and hints. You do not want to miss it!

TIME: 12:00 TO 14:00 | **LOCATION:** VANCOUVER CONVENTION CENTRE | **COST:** INCLUDED IN THE STUDENT REGISTRATION FEE

WOMEN IN MINING RECEPTION



Join us for a drink, appetizers and a chance to win one of many door prizes at the Women in Mining & VIP Reception. This year, Women in Mining Vancouver is partnering with the CIM 2014 Convention to host our annual event. Come meet and network with a rich and diverse group of industry professionals. Keynote speaker: Anna Tudela, Vice-President, Regulatory Affairs & Corporate Secretary, Goldcorp Inc.

TIME: 17:00 TO 19:00 | **LOCATION:** VANCOUVER CONVENTION CENTRE | **COST:** \$35



Kent Kallberg Studios

VIP RECEPTION

Senior industry leaders and contributors, and invited guests will gather for a high-powered networking session.

TIME: 17:00 TO 19:00 | **LOCATION:** VANCOUVER CONVENTION CENTRE | **BY INVITATION ONLY**

JOY GLOBAL GALA



Get ready for an evening of non-stop entertainment. The Joy Global Gala features live music, delectable finger foods and refreshments. This event closes the social program with a bang – literally!

TIME: 20:00 TO MIDNIGHT
LOCATION: VANCOUVER CONVENTION CENTRE
COST: INCLUDED IN THE DELEGATE AND EXHIBITOR REGISTRATIONS

WEDNESDAY, MAY 14

CLOSING LUNCHEON



Supported by PricewaterhouseCoopers, the CIM Closing Luncheon will be held in conjunction with the Vancouver Board of Trade. Luncheon speaker Karina Briño, president & CEO of the Mining Association of B.C., will present "Mining builds communities."

TIME: 12:00 TO 14:00
LOCATION: VANCOUVER CONVENTION CENTRE
COST: \$75



THE EXPO!...CANADA'S MINING MARKETPLACE | L'EXPO! LE CARREFOUR DES AFFAIRES



More than 480 exhibiting companies will be pulling out all the stops in showcasing the latest in mining equipment, tools, technology and products at the CIM Expo! – Canada's premier mining show. This year's event features five pavilions in which a number of companies

have chosen to exhibit: 48e Nord; Saskatchewan Trade & Export Partnership (STEP); China (Beijing United, Beijing Joint Union & the CCPIT), Denmark (Danish Mining Technology Group) and Australia (Mining Media Inc.).

Have an interesting story to share, or an innovative product or service that you would want the industry to know about? Stop

by the the CIM Magazine Lounge in the exhibition to chat with one of our editors or advertising sales team.

Lunch and cocktail receptions are being held in the Expo! on Monday and Tuesday, May 12 and 13, at 12:00 to 14:00 and 15:30 to 17:00. Lunch and one drink ticket are included in the delegate registration fee.

Check out our exhibitors' list online and in the complete preliminary Expo! Guide in the next issue of *CIM Magazine*.

CIM JOB FAIR | SALON DE L'EMPLOI

MONDAY, MAY 12 AND TUESDAY, MAY 13

Looking to start fresh down a new career path or just starting off your career? Representatives from 13 companies looking to hire will be accepting resumés from promising candidates, so come prepared.

EXHIBITORS

Brunel • Cameco Corporation • Canadian Natural Resources Limited – Horizon Oil Sands • Detour Gold • Goldcorp • Imperial Oil Limited Kearl Oil Sands • KGHM International Ltd. • Norwest Corporation • Sherritt International Corporation • Suncor Energy Inc. • Syncrude Canada Ltd. • Teck Resources Ltd. • The Mosaic Company





FREE FOR CIM CONVENTION DELEGATES | GRATUIT POUR LES DÉLÉGUÉS DU CONGRÈS DE L'ICM

Did you know that a full-paying delegate to the CIM Convention benefits from all of the following:

- ▶ Reduced fee for all convention workshops
- ▶ Delegate tote bag including all convention materials
- ▶ Access to the Ethics in Mining Symposium
- ▶ Access to all technical program proceedings at www.cim.org
- ▶ Access to the Expo! and Job Fair
- ▶ Internet access stations in the Expo!
- ▶ Mobile device charging station in main foyer
- ▶ Finger foods and refreshments in the Expo! during the opening night reception
- ▶ Refreshments in the Expo! during Monday and Tuesday cocktail receptions
- ▶ Lunch in the Expo! on Monday and Tuesday
- ▶ Visiting privileges for the M4S show on Mining, Minerals, Metals and Materials
- ▶ Access to the CIM Surface Mining and Underground Mining Societies' reception
- ▶ Access to the Joy Global Gala

GUEST PROGRAM | PROGRAMME DES INVITÉS



SUNDAY, MAY 11

NATURE AND ART BOAT CRUISE

Enjoy the panoramic views of the city skyline, the surrounding Coastal Mountain Range and many of Vancouver's most famous landmarks on an afternoon cruise with one of Canada's top naturalists, Rob Butler, managing director of The Nature Trust of British Columbia. The three-hour cruise will take you past Granite Falls Marine Park, to Bishop's Creek and on to Silver Falls. Local Canadian artists from the Artists for Conservation will also be onboard to exhibit and sell their work. Lunch will be served.

TIME: 11:30 TO 15:00 **COST:** \$150 **DEPARTURE:** FROM THE HARBOUR NEAR THE VANCOUVER CONVENTION CENTRE

MONDAY, MAY 12

WALKING TOUR OF GRANVILLE STREET

Come take a walk along historical Granville Street. Hear stories about when the area was home to Vancouver's Vaudeville Theatre, as seen through the eyes of Lord Fotherington-Appleby. The tour will last close to two hours, so wear comfortable walking shoes.

Join us for an afternoon of humor and history.

TIME: 13:00 TO 15:00 **COST:** \$35 **DEPARTURE:** FROM THE HOSPITALITY SUITE AT THE VANCOUVER CONVENTION CENTRE

TUESDAY, MAY 13

MORNING AT THE MUSEUM

Join us on a private tour of the Museum of Anthropology (MOA) at the University of British Columbia. The museum houses one of the world's finest displays of First Nations art in a spectacular building overlooking the mountains and the sea. A 90-minute tour will be followed by lunch and free time to explore the museum or browse the MOA shop. Transportation will be provided from the convention centre.

TIME: 10:00 TO 15:00 **COST:** \$65 **DEPARTURE:** FROM THE HOSPITALITY SUITE AT THE VANCOUVER CONVENTION CENTRE



PRELIMINARY TECHNICAL PROGRAM | GRILLE DU PROGRAMME TECHNIQUE

MINING 4 EVERYONE				
MONDAY, MAY 12 LUNDI 12 MAI		GLOBAL DIMENSIONS OF MINING DIMENSIONS MONDIALES DE L'EXPLOITATION MINIÈRE <i>Wes Carson</i>	INNOVATIONS <i>Andy Lemay</i>	HARNESSING OUR DIVERSE WORLD MAÎTRISE DE LA DIVERSITÉ MONDIALE <i>Patty Moore & Christy Smith</i>
	AM	OPENING PLENARY		
	PM	Global Projects Update Mise à jour de projets internationaux <i>Mike Petrina</i>	Green Mining/Mining Innovations Council Exploitation minière responsable <i>Janice Zinck & Carl Weatherell</i>	Mining for Accountants, Bankers, Brokers and Lawyers L'exploitation minière pour les comptables, banquiers, courtiers et avocats <i>Carlos da Costa & Keith Spence</i>
	AM	Global Landscapes & Transparency Portrait global et transparence <i>Alan Franklin</i>	Innovation in Energy Minerals Innovation dans les minéraux à propriétés énergétiques <i>Brent Hilscher & Melanie MacKay</i>	Diversity 101 - Part 1 Diversité 101 - 1ère partie <i>Lana Eagle</i>
PM		NGOs - Partners in Development ONG : partenaires du développement <i>Alan Franklin & Matthieu Asselin</i>	Power Your Mine Mise en fonction d'une mine <i>Gareth Clarke</i>	Diversity 101 - Part 2 Diversité 101 - 2ième partie <i>Lana Eagle</i>
TUESDAY, MAY 13 MARDI 13 MAI	AM	Social & Environmental Stewardship Direction sociale et environnementale <i>William Napier</i>	Innovations in Maintenance & Reliability Innovations en maintenance et Fiabilité <i>Ted Knight</i>	Maximizing the Workforce - Part 1 Maximisation de la main d'oeuvre - 1ère partie <i>Kerris Hougardy</i>
	PM	Water, Mining & Agriculture Gestion de l'eau, l'industrie minière et l'agriculture <i>Monica Ospina & Mireille Goulet</i>	Bridging the Research to Innovation Gap Comblant le fossé entre la recherche et l'innovation	Maximizing the Workforce - Part 2 Maximisation de la main d'oeuvre - 2ième partie <i>Kerris Hougardy</i>
WEDNESDAY, MAY 14 MERCREDI 14 MAI	AM	Tailings Management and Utilization Gestion et utilisation des résidus <i>Janis Shandro</i>	Innovation for Corporate Sustainability Innovation pour la durabilité d'entreprise <i>Michelle Levesque</i>	Maximizing the Workforce - Part 3 Maximisation de la main d'oeuvre - 3ième partie <i>Kerris Hougardy</i>
	PM	<div>Now we're talking Joignez la conversation @AnnualCIM #CIMBC14</div> <div></div>		
<div>THE ETHICS IN MINING SYMPOSIUM IS INCLUDED WITH REGISTRATION FOR CIM DELEGATES. VISIT VANCOUVER2014.CIM.ORG REGULARLY FOR TECHNICAL PROGRAM UPDATES.</div>				



MINES POUR TOUS

CONSTRUCTION TO PRODUCTION
DE LA CONSTRUCTION
À LA PRODUCTION
Tim Watson

MANAGING OPERATIONS - MINE TO MILL
GESTION DES OPÉRATIONS
- DU TRAITEMENT À LA TRANSFORMATION
Jo-Anne Boucher

ROCK ENGINEERING
MÉCANIQUE DES
ROCHES
Denis Thibodeau

ETHICS IN MINING SYMPOSIUM
SYMPOSIUM : ÉTHIQUE ET
INDUSTRIE MINIÈRE
*Wesley Cragg, Janis Shandro
& Angelique Slade Shantz*

PLÉNIÈRE

Case Studies - Part 1
Études de cas - 1ère partie
Rahul Lakhote

Safety - Part 1
Sécurité - 1ère partie
Jeff Colden

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CIMConvention**

Mining, Ethics and the Challenge of
Diverse Needs and Perspectives
L'exploitation minière, l'éthique et le
défi des besoins et des perspectives
diversifiées
Wesley Cragg

Case Studies - Part 2
Études de cas - 2ième partie
Rahul Lakhote

Mining
Exploitation minière
Jeff Colden & Anoush Ebrahimi

MANAGING OPERATIONS - MINE TO MILL
Low-Cost Mine Energy
Faible coût de l'énergie
dans les mines
Vic Pakalnis

Building Equitable Partnerships
Bâtir des partenariats équitables
Jim Cooney

Developing in
Non-Mining Cultures
Développement dans des
communautés non minières
Barnard Foo

Processing
Traitement
Janice Zinck

Case Studies in
Rock Engineering
Études de cas en
mécanique des roches
Doug Milne

Where is the Market Value for
Ethical Performances?
Où est la valeur marchande de la
performance éthique?

Assessing the
Construction Project
Évaluation du projet
de construction
Lon Plaskett

Integration for Optimization
Intégration pour optimisation
Adam Hesse

Rock Engineering
Practices and Techniques
Pratiques et techniques
de la mécanique des roches
Martin Grenon

Indigenous and Non-Indigenous
Communities: Rights and Regulations
Communautés autochtones et non
autochtones : droits et règlements
Lana Eagle

Economic Outlook
Perspectives économiques
Jane Spooner

Lowest Cost Mine Services
Les coûts les plus bas
pour des services miniers
Dean Millar

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CIMConvention**

Community Experiences with the
Extractive Sector
Expériences communautaires avec le
secteur de l'extraction
Janis Shandro

Expecting the Unexpected
S'attendre à l'inattendu
Larry Smith

Safety - Part 2
Sécurité - 2ième partie
Glenn Lyle

The Past, Present & Future
Passé, présent et futur
Gary MacDonald

Due Diligence -
Watch Your Step!
Vérification diligente -
attention!
Louis Archambeault

Panel Discussion
Panel de discussion
David Jennings

Reception & Networking
Réception et réseautage



The Image Commission

L'ACCÈS AUX SÉANCES TECHNIQUES DU SYMPOSIUM : ÉTHIQUE ET INDUSTRIE MINIÈRE EST GRATUIT POUR LES DÉLÉGUÉS DE L'ICM.
VISITEZ **VANCOUVER2014.CIM.ORG** POUR DES MISES À JOUR RÉGULIÈRES DU PROGRAMME TECHNIQUE

TECHNICAL PROGRAM | PROGRAMME TECHNIQUE

Note : Les présentations du programme technique se feront en anglais.
Seule la séance plénière offrira la traduction simultanée de l'anglais vers le français.

MONDAY, MAY 12 | 14:00

► Global Projects Update

Stream: GLOBAL DIMENSIONS OF MINING

Chair: Mike Petrina, Chief Operating Officer, Probe Mines Limited

Internationally, there are a number of projects in various stages. This session provides an update of specific projects or types of project in progress worldwide. What direction are new projects going in terms of efficiency, new technologies, old technologies, sizes of operations, et cetera?

The session will look at lessons learned and case studies, based on challenges and successes.

Five presentations will be confirmed.

► Green Mining/Mining Innovations Council

Stream: INNOVATIONS

Chairs: Janice Zinck, Manager, Processing and Mine Waste Management, CANMET – Mining and Mineral Sciences Laboratories, and Carl Weatherell, President and CEO, Canada Mining Innovation Council

The mining supply chain of the future

Martin Provencher, IBM

Rapid development in Canada, myth or reality?

An underground mining contractor's perspective

Guy Hubert and Paul Healy, J.S. Redpath Limited

Network communications and ICT as a basis for safety and efficiency of optimized underground operations

Christoph Mueller, Mine Tronics

Two more presentations will be confirmed.

PLENARY | PLÉNIÈRE

► **MINING 4 EVERYONE | MINES POUR TOUS**

MONDAY, MAY 12 | 9:00 to 11:30



After captivating audience members last year, Mark Kelley is back to moderate the plenary session. Kelley, a member of *the Fifth Estate* team, has a career that spans more than two decades at CBC News, including his award-winning work as an investigative journalist and co-host of CBC News: Disclosure. He is a former correspondent for The National, host of Connect with Mark Kelley as well as CBC News: Morning, Kelley.

The panel will include speakers from the mining sector as well as government and special interest organizations. Each panel member has been successful in creating or facilitating opportunities for a variety of stakeholders, particularly those who have not traditionally engaged in mining. These include, but are not limited to: women, indigenous peoples, non-mining cultures, uneducated or low-skilled workers, etc.

Already confirmed are Edward (Ted) Thomas, executive director, The Devonshire Initiative; and the Honorable Kellie Leitch, Minister of Labour and Minister of Status of Women. Other C level leaders are being secured.

Check out our website in the coming weeks. The listing of our panel members will be updated as speakers are confirmed.

Note: La séance plénière offrira la traduction simultanée de l'anglais vers le français.



► Mining for Accountants, Bankers, Brokers & Lawyers

Stream: HARNESSING OUR DIVERSE WORLD

Chairs: Carlos da Costa, Student, Simon Fraser University, and Keith N. Spence, President and Partner, Global Mining Capital Corporation

Canadian trade in the next decade: a two-way street

Peter Hall, Export Development Canada

Future of the U.S. dollar as a reserve currency

Bluford (Blu) Putnam, CME Group (Chicago Mercantile Exchange)

Navigating Asia's future, charting Canada's strategy

Eva Busza, Asia Pacific Foundation of Canada

What is Canada doing? CIMVal and other international standards

Keith N. Spence, Global Mining Capital Corporation

Challenges for Chinese valuers

Joe Hinzer, Watts, Griffis and McOuat Limited

► Case Studies – Part 1

Stream: CONSTRUCTION TO PRODUCTION

Chair: Rahul Lakhoté, General Manager, ACP Applied Products Ltd.

The Reed copper project

Steve Polegato and Brent Christensen, Hudbay Minerals Inc.

Capital optimization – or how to cut CapEx by 15% to 30% without sacrificing NPV

Ross Middleton and Thomas Vogt, The Boston Consulting Group

A case study on dust abatement for mining projects

Abdul Elkadri and Tony Manzi, GECAN, and Chris Dechkoff, ACP

Five tactics for successful design and implementation of constructed wetlands for the treatment of mine-impacted waters

James W. Castle and John H. Rodgers, Jr., Clemson University, and Vanessa Pittet and Monique Haakensen, Contango Strategies

The Voisey's Bay underground mine project

Matt Stewart, Vale Newfoundland and Labrador

► Safety – Part 1

Stream: MANAGING OPERATIONS FROM MINE TO MILL

Chair: Jeffrey Colden, Mining Engineer, Teck Coal Limited

The zero index: a strategic approach to safety for the mining industry

Michael Hajaistran, BST

Smarter safety

David Carter, IBM

Application of bowtie analysis in assessing the risk of major hazards in the mining industry

P. J. Foster and Glenn Lyle, MIRARCO

Building a safety technology toolkit

Peter Wan, Teck Resources Limited

One more presentation will be confirmed.

CALL FOR ABSTRACTS





COM CIM ICM 2014

CONFERENCE OF METALLURGISTS

MET  SOC

PROSPERITY THROUGH PROCESS ADVANCEMENTS

TOPICS INCLUDE:

- Arsenic Metallurgy & the Environment
- Process Control Applications
- Process & Flowsheet Development
- Light Metals Production, Processing, and Applications
- Process Safety Management in Metallurgical Operations
- Rare Earth Elements
- Risk Management

- Nanoscale Materials Characterization
- Advanced Materials Manufacturing
- Multiscale Modelling & Simulations of Failure in Structural Materials
- Bill Davenport Honorary Symposium
- Metals & Mineral Process in Memory of Dr. Ram Rao
- Vanadium Honoring Prof. Gilles Allard

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The Metallurgy and Materials Society of CIM

SEPTEMBER 28 TO OCTOBER 1, 2014 • HYATT REGENCY HOTEL, VANCOUVER (BC)

BE PART OF THE EVENT WHERE GREAT MINDS MEET

TUESDAY, MAY 13 | 8:30

► **Global Landscapes & Transparency**

Stream: GLOBAL DIMENSIONS OF MINING

Chair: Alan Franklin, Consultant

This session discusses the challenges mining companies face in the various countries and jurisdictions where they are active.

How are these challenges affecting the advancement and interest in global projects, and what, if anything, can be done to change the landscape in this regard.

This session will be a panel discussion.

► **Innovation in Energy Minerals**

Stream: INNOVATIONS

Chairs: Brent Hilscher, Senior Process, Hatch Ltd. and Melanie MacKay, Consultant, Trillium Geoscience Ltd.

Sustainable heavy minerals production from oil sands tailings

Kevin Moran and John Oxenford, Titanium Corporation

Anthabasca bitumen upgrading with hydrodynamic cavitation

Max Fomitchev-Zamilov, Quantum Vortex, Inc.

Effects of organic liquids on coking properties of a high-inert western Canadian coal

KaWing NG and Louis Giroux, CanmetENERGY, Ross Leeder, Teck Coal Ltd., Tony MacPhee, CanmetENERGY, Maria E. Holuszko, Teck Metals Ltd., and Melanie Mackay, Trillium Geoscience Ltd.

One more presentation will be confirmed.



MINING SOCIAL MEDIA | MINES ET MÉDIAS SOCIAUX

Join us on Facebook, LinkedIn and Twitter to take part in an exchange about current issues and best practices with peers and mining industry leaders.

The conversation will be carried out live during the CIM Convention

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hashtag is #CIMBC14.

► **“Connect” on LinkedIn:**
www.linkedin.com/in/cimconvention

► **Diversity 101 – Part 1**

Stream: HARNESSING OUR DIVERSE WORLD

Chair: Lana Eagle, Director of Aboriginal Engagement, PR Associates

New paradigms for gender diversity in the mining sector

Courtney Hughes, HR Research Analyst

Creating value through long-term aboriginal partnerships

Sean Willy, Cameco Corporation

Identifying, retaining and promoting diverse talent: the mining industry at the forefront of next-level inclusion

Joshua C. Collins, Florida International University

One more presentation will be confirmed.

► **Case Studies – Part 2**

Stream: CONSTRUCTION TO PRODUCTION

Chair: Rahul Lakhoté, General Manager, ACP Applied Products Ltd.

Wolverine Mine: site-specific electro-biochemical system development to meet process water selenium and other treatment discharge targets – bench to full-scale

Dennis Jack Adams, Aleksandra Opara and Michael John Peoples, Inotec Inc., David Flather, Lorax Environmental Services, and Robin McCall, Yukon Zinc Corporation

Designing science-based effluent permits for the mining industry

John Clark, Allnorth Consultants Limited

The successful design and construction of a 7,000 tpd production hoisting facility using a large diameter raise bored shaft

Patrick Hudd, Cementation Canada Inc., Luc Guimond, AuRico Gold Inc., and Richard Bartlett, AuRico Young Davidson Project, Cementation Canada Inc.

Engaging the workforce to achieve perfection

Rob Gulbranson, RLG International

► **Mining**

Stream: MANAGING OPERATIONS FROM MINE TO MILL

Chairs: Jeffrey Colden, Mining Engineer, Teck Coal Limited, and Anoush Ebrahimi, Principal Consultant, SRK Consulting (Canada) Inc.

Next generation mine planning – advanced scientific approach to optimize the extraction sequence

Daniel Spitty, Schneider Electric

Modern structural geology in mining

Wayne Barnett, SRK Consulting

Weather and production analytics for performance improvement and better planning

Gregory Johnson, Schneider Electric

Making better economic mining decisions

Fraser John Rowe, Runge Pincock Minarco

► **Low Cost Mine Energy**

Chair: Vic Pakalnis, President and CEO, MIRARCO Mining Innovation

Natural gas for mining and rail

Bruce Hodgins, Westport Power Inc.



Mining and renewable energy: Cross-sector synergies and the emergence of end-to-end energy solutions combining hybrid power & novel fuel supply chains

Resja Campfens, Sea Breeze Power Corp.

Case study: Using synchrophasors and off-the-shelf protection and automation equipment for electrical load-shedding services

Roham Bazarjani, Autopro Automation Consultants Ltd.

Air solubility and its impact on the business case for hydraulic air compressors

Dean Millar, MIRARCO / Laurentian University

TUESDAY, MAY 13 | 10:30

► **NGOs – Partners in Development**

Stream: GLOBAL DIMENSIONS OF MINING

Chairs: Alan Franklin, Consultant, and Matthieu Asselin, Program Manager, Latin America, SOCODEV

Mining companies are expanding their operations into complex environments where NGO development agencies have worked for decades. These companies are already significant development actors in their own right, but complex development problems cannot be solved through routine approaches. Innovations and new partnerships between non-governmental organizations and the private sector offer unique avenues to help ensure that major Canadian economic investments translate into a development pattern that benefits all. How are NGOs working with the mining companies? What are the benefits and challenges of working with NGOs?

Four presentations will be confirmed.

► **Powering Your Mine**

Stream: INNOVATIONS

Chair: Gareth Clarke, Sector Manager–Industrial Marketing, BC Hydro

Energy management – it's all about the doing

Andrew Cooper, New Gold Inc., New Afton Mine

Teck, energy management and TSM

Chris Adachi, Teck Resources

Electricity conservation and key performance indicators (KPI) in mining

Roger Yu, Thompson Rivers University

Strategic energy management in B.C. mines

Robert Greenwald, Prism Engineering

► **Diversity 101 – Part 2**

Stream: HARNESSING OUR DIVERSE WORLD

Chair: Lana Eagle, Director of Aboriginal Engagement, PR Associates

Harnessing resource wealth for inclusive and economic development in communities influenced by mining

Suzette McFaul and Andre Xavier, Norman B. Keevil Institute of Mining Engineering

Expanding notions of diversity: opportunities outside the mine fence

Chris Anderson, Rio Tinto

The business case for diversity

Cassandra Dorrington, CAMSC

One more presentation will be confirmed.

► **Developing in Non-Mining Cultures**

Stream: CONSTRUCTION TO PRODUCTION

Chair: Barnard Foo, Senior Mining Engineer, Micon International Co. Ltd.

The Cañariaco Copper Project – Mineral exploration and development within the context of a diverse and complex Andean community in northern Peru

James Taylor Armstrong, Candente Copper Corporation

Creating a foundation of support for the resource industry through education in a non-mining culture

Olivia Brown, Ooleepeeka Consulting Ltd., and Pujjuut Kusugak, Kusugak Consulting

Developing in non-mining cultures

Frazer Bouchier, Nevsun Resources Ltd.

One more presentation will be confirmed.

► **Processing**

Stream: MANAGING OPERATIONS FROM MINE TO MILL

Chair: Janice Zinck, Manager, Processing and Mine Waste Management, CANMET – Mining and Mineral Sciences Laboratories

Modelling and simulation of mill structure behaviour in a tumbling mill

Bertil I. Pålsson, Luleå University of Technology, Kent Tano, LKAB, Pär Jonsén, Luleå University of Technology, Andreas Berggren, Boliden Minerals, Jan Stener, Luleå University of Technology, and Hans-Åke Häggblad, Luleå University of Technology

Investigation of utilization of milling facilities in Ontario to minimize electricity costs

Michelle Levesque, Laurentian University, and Dean Millar, MIRARCO

RME mill reline director – large mill reline optimization

Alan John Russell, Russell Mineral Equipment Pty Ltd.

The role of colloidal precipitates in the interfacial behaviour of long-chain ionic surfactants

Marek Pawlik and Wenying Liu, University of British Columbia

► **Case Studies in Rock Engineering**

Stream: ROCK ENGINEERING

Chair: Doug Milne, Associate Professor, University of Saskatchewan

Application of numerical modelling to predict seismic probability and mitigate associated risks during the Craig pillar extraction at Morrison Mine, KGHM International.

Katherine Kalenchuk, Dean Switzer, Julian Watson, Matt Larose and Neil Milner, KGHM International

Slope and ground stability monitoring in open pit and underground mines with advanced radar interferometry

Alain Arnaud, Oscar Mora, Blanca Payàs and Marie-Josée Banwell, Altamira Information

A numerical analyses of two adjacent backfilled stopes

Nooshin Falaknaz, École Polytechnique de Montréal

Slope monitoring practices used by open pit porphyry mines in British Columbia

Dwayne D. Tannant, Sam Nunoo and Warren Newcomen, University of British Columbia

TUESDAY, MAY 13 | 14:00

► **Social & Environmental Stewardship**

Stream: GLOBAL DIMENSIONS OF MINING

Chair: William A. Napier, President, W.A. Napier Consulting Ltd.

The missing link between mining and sustainable development: social responsibility?

Louis Guay, Saint-Paul University

The next big thing in CSR: sourcing your social licence through local procurement

Jeff Geipel, Engineers Without Borders

Sustainable community development using shared value approach – an alternative to corporate social responsibility in the mining industry?

Allan McNeil, AMIS InterAg, Glenn Hughes, GRC Services, and Mahesh Jayaraman, World Wide Water Services

A comparative analysis of mining policy and regulations: a focus on rare earth elements and health

Linlin Zhang, University of British Columbia

One more presentation will be confirmed.

► **Innovations in Maintenance & Reliability**

Stream: INNOVATIONS

Chair: Charles E. (Ted) Knight, Regional Manager, Risk & Reliability, Hatch Ltd.

RCM advances and relevance in the new age of asset management

James Reyes-Picknell, Conscious Asset Management

Thiess mining story: predictive maintenance and quality

Jim Simpson, IBM

How can asset management be the path to financial enlightenment?

Stephen Koro, Ausenco Rylson

ETHICS IN MINING SYMPOSIUM | SYMPOSIUM: ÉTHIQUE ET INDUSTRIE MINIÈRE

MONDAY, MAY 12 TO WEDNESDAY, MAY 14

The symposium is included for convention delegates or you can register for the Ethics in Mining Symposium only for \$295 (delegate price) or \$200 (presenter price).

MONDAY, MAY 12 | 14:00–16:20

MINING, ETHICS & THE CHALLENGE OF DIVERSE NEEDS AND PERSPECTIVES

Chair: Wesley Cragg, Senior Scholar and Professor, Project Director and Principal Investigator, Schulich School of Business – York University

Mining within the context of a “preferential option for the poor”

Jim Cooney, McGill University

Human rights, ethics and corporate social responsibility – the past, present and future

Simon David Handelsman, University of British Columbia, Simon D. Handelsman, Global Issues Advisors, and Marcello Veiga, University of British Columbia

Negotiating a social licence: understanding the role and nature of procedural justice

Julian Lamont, The University of Queensland, and Justine Lacey, CSIRO

Social licence to operate – a new perspective

Murray Lytle, Snowden Mining Industry Consultant Ltd.

Practical processes to develop ethical solutions in corporate-community conflicts

Yoseline Leunens, HEC Montreal, Sebastian Siegele, Sustainability Agents SUSA GmbH, Francis Schweigert, Metropolitan State University, and Martha Sañudo, Instituto Tecnológico y de Estudios Superiores de Monterrey

TUESDAY, MAY 13 | 8:30–10:10

BUILDING EQUITABLE PARTNERSHIPS

Chair: Jim Cooney, Professor of Practice in Global Governance, McGill University

A gold mine of opportunity: aboriginal readiness strategy

Edith Garneau, SNC-Lavalin

Ethical readiness for equitable partnerships

Candace Ramcharan, Rio Tinto Fer et Titane

Shared value: the business approach to ethics in mining

Qasim Saddique, Shared Value Solutions

The mismatch between mineral exploration and community engagement: some ethical questions

Bardolf Paul, Yayasan Tambuhak Sinta

TUESDAY, MAY 13 | 10:30–12:10

WHERE IS THE MARKET VALUE FOR ETHICAL PERFORMANCE?

Chair: To be confirmed

Capital and reputational risk management through the development and permitting curve in the extractive sector

Karim Ramji, Donovan & Company

Responsible mining standards at work: demonstrating value to stakeholders and investors

Christopher Tucker and Jessica Bratty, Responsible Mineral Sector Initiative

Corporate sustainability reporting and the mining industry

Si Hao, University of British Columbia

Promoting transparency in mining development in Central African countries

Chilenye Nwapi, Canadian Institute of Resources Law



Optimizing sustaining maintenance investment while mitigating risk

David James, Hatch Ltd.

The future corrosion risk to mine operating performance due to the use of lower quality water sources

Emily Moore, Zoe Coull and Sergio Gonzalez, Hatch Ltd.

► Maximizing the Workforce – Part 1

Stream: HARNESSING OUR DIVERSE WORLD

Chair: Kerris Hougardy, Manager, Resources and Mining, Hays Recruiting Group

Creating opportunities in mining for First Nations communities: how training, employment and business development can boost the social value of any project

Michelle Nahanee and Laurie Sterritt, BC AMTA

The right people in the right jobs at the right time – attracting skilled immigrants

Kelly Pollack, IEC-BC

2014 BC Mining HR Diversity Award winner

Kerris Hougardy, Hays Recruiting Group, and Jill Tsolinas, BC Mining HR Taskforce

PANEL DISCUSSION

Chaired by Dave Bazowski (chair of the BC Mining HR Taskforce), and focused on providing innovative and tested solutions to the issues surrounding diversity and inclusion in today's workforce. Six industry leaders (TBC) will share their thoughts, experiences and suggestions on the benefits of employing a diverse workforce – from top to bottom – as well as discussing some of the challenges and successes when implementing initiatives in their own businesses.



TUESDAY, MAY 13 | 14:00–16:20

INDIGENOUS & NON-INDIGENOUS COMMUNITIES: RIGHTS AND REGULATIONS

Chair: Lana Eagle, Director of Aboriginal Engagement, PR Associates

Free, prior and informed consent: is it required and what's the standard?

Kevin O'Callaghan and Dani Bryant, Fasken Martineau LLP

Moving from engagement and consultation to implementing free, prior informed consent of indigenous peoples for the exploration, development, and utilization of mineral resources

Cynthia Callison and Michael Segelken, Callison & Hanna

FPIC – scope, recent developments and practical application

Maya Stano, Gowlings

Deepening sustainability and shared value through a child rights approach

Simon Chorley and Cicely McWilliam, UNICEF Canada

One more presentation will be confirmed.

WEDNESDAY, MAY 14 | 8:30–10:10

COMMUNITY EXPERIENCES WITH THE EXTRACTIVE SECTOR

Chair: Janis Shandro, Research Fellow, University of British Columbia (UBC)

Tracking Aboriginal community health in light of mine development

Ben Bradshaw, Peter Siebenmorgen, Robert Klinck and Sophie Maksimowski, University of Guelph

Extractive industry risks to vulnerable women and children in British Columbia, Canada

Alison Stockwell, University of British Columbia

Indigenous economic development and implications for ethical mining practice

Dwight Newman, University of Saskatchewan

WEDNESDAY, MAY 14 | 10:30–12:10

THE PAST, PRESENT & FUTURE

Chair: Gary MacDonald, Principal, Monkey Forest Consulting

Junior mining enterprises and NGO added value: Socodevi and Candente Copper Corp. Inc. – a case study

Matthieu Asselin, SOCODEV

Legacy management: looking to the future through the lens of the past

Amy Robinson, University of Waterloo

Benefits of corporate grievance mechanisms and practical tips on implementation

Kevin O'Callaghan and Julie-Anne Pariseau, Fasken Martineau LLP

Legacy issues and big project failure: lessons learned from the past, for the present and future

Sofane Baba, HEC Montréal

► Assessing the Construction Project

Stream: CONSTRUCTION TO PRODUCTION

Chair: Lon Plaskett, Mine Electrical Planner, Teck

Engineering information life cycle for complex engineering

Keith Rogers and Kevin Reardon, IBM Canada

Cost containment through effective project management

Steven Cuneo and Stephen Cabano, Pathfinder, LLC

Innovative approaches to developing mining projects

Michael Young, Kiewit

A risk management plan – plan the work, work the plan

David Brady, DBrady Risk Associates Ltd.

Streamlining the steps to optimized production: pre-project process modelling; simulator-based training; and advanced loop control for optimized operation – case studies

Chris Madin, Andritz Automation Ltd.

► Integration for Optimization

Stream: MANAGING OPERATIONS FROM MINE TO MILL

Chair: Adam Hesse, Vice-President, North American Operations, FLSmidth

A vision for integrated operations in mining

Matthew Coleman, Calibre Global, and Iain Thompson, IBM

Universal reconciliation – a multidisciplinary approach across the entire mining value chain to identify loss of value and maximize the operational performance

C. Morley, S. Helm and Rayleen Hargreaves, Snowden

Integrated operations to relocate, collaborate and align

Mike Boudreaux, Emerson Process Management

Benefits achieved at Osisko, Malartic through optimization of inventory management

Robert Lamarre, IMAFS Inc., and Roch Trépanier, Osisko

One more presentation will be confirmed.

► Rock Engineering Practices & Techniques

Stream: ROCK ENGINEERING

Chair: Martin Grenon, Professor, Université Laval

Effect of low temperature on backfill quality in permafrost condition

Bernard Tungol, Bernie Ting and Betty Lin, Hatch Ltd., and Brian O'Hearn, Cement Lafarge

Importance of geo-mechanical data acquisition

Denis Thibodeau, Stantec Consulting Ltd.

High accuracy LiDAR in underground mines for ground movement and convergence monitoring

Mark Diederichs, Queen's University, Matthew Lato, RockSense GeoSolutions, Katherine Kalenchuk, Mine Design Engineering, Adam Dulmage, Mine Design Technologies, Craig Sheriff, Tulloch Mapping Solutions, and Klaus Weinhardt, Queen's University

Strength prediction of mine shaft concrete liner cured under freezing condition

Amir Golpaygan and Jimmy Susetyo, Hatch Ltd.

Shell thiocrete: an innovative and cost-effective building material for waste management at mining operations

Marcel Dabkowski, Shell

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Making mines safer through innovative approaches to monitoring and modifying rockmass behaviour during extraction

Damien Duff, Centre for Excellence in Mining Innovation

WEDNESDAY, MAY 14 | 8:30

► Water, Mining & Agriculture

Stream: GLOBAL DIMENSIONS OF MINING

Chairs: Monica Ospina, Founder and Director, O trade and market access, and Mireille Goulet, Executive Coordinator, CIM

Traditionally, the mining and agriculture industries have competed for resources. As there are many parallels between the two, both have often thrived in similar geographic regions, thus putting pressure on surrounding natural resources. In recent years, the decreased global supply of clean water resources has stimulated global debates and has put into question industry management of water resources.

Today, collaborative initiatives between the private sector, namely the mining and agriculture industries, and local communities is resulting in the development of highly effective solutions for mitigating the harmful industry effects on water.

This session will present an analysis of how the mining industry can contribute to sustainable water use and how collaborative efforts between mining and agriculture can lead to effective management of water resources.

Water, the essential resource and the lasting legacy: why mine water management matters and how to do it well

Tatyana Alexieva and Resa Furey, MWH

Three more presentations will be confirmed.

► Bridging the Research to Innovation Gap

Stream: INNOVATIONS

Chair: To be confirmed

There is ongoing research in which the results focus on driving innovative changes. This session will look at the potential and actual value research results used to drive innovation.

Four presentations will be confirmed.

► Maximizing the Workforce – Part 2

Stream: HARNESSING OUR DIVERSE WORLD

Chair: Kerris Hougardy, Manager, Resources and Mine, Hays Recruiting Group

Getting it right: how to meet the HR components of IBAs

Alana Kennedy and Melanie Sturk, The Mining Industry Human Resources Council

Case study – New Gold's New Afton mine: First Nations participation in the workforce

Ann Wallin, New Gold

1 + 1 = 3: maximizing a workforce through partnerships and education

Danielle Smyth, Northwest Community College, School of Exploration and Mining

One more presentation will be confirmed.

► Lowest Cost Mine Services

Stream: MANAGING OPERATIONS FROM MINE TO MILL

Chair: Dean Millar, Chair of Energy in Mining, MIRARCO

Less is more - operational savings using peristaltic technology to move fluids, particularly, the challenging fluids

Duncan Brown, Verder UK Ltd

Reducing maintenance costs with mixed flow fans for mine ventilation

Paula Oransky, Howden

Safety, reliability and energy and maintenance savings of LED luminaires in the harsh and hazardous locations of the mining industry

William Lupton and Devon Jenkins, Eaton's Crouse - Hinds Business

Ensuring operational power quality: A case study

Oliver Canean and Joe Fox, ABB Inc.

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WEDNESDAY, MAY 14 | 10:30

► Tailings Management & Utilization

Stream: GLOBAL DIMENSIONS OF MINING

Chair: Janis Shandro, Research Fellow, University of British Columbia (UBC)

This session will offer a series of industry presentations related to best practice, lessons learned and remaining challenges towards optimizing the management of tailings deposits.

Four presentations will be confirmed.

► Innovation for Corporate Sustainability

Stream: INNOVATIONS

Chair: Michelle Levesque, Student, Laurentian University

Sustainable mining through innovation

Kenneth Collison, Ucore Rare Metals Inc.

Sustainability information in mining: technologies and process for assessments, data aggregation, management and reporting

Fabio Mielli, Schneider Electric

Seeking innovation towards sustainable mining through interdisciplinary collaboration

Jocelyn Fraser and Malcolm Scoble, Keevil Institute of Mining Engineering, University of British Columbia

One more presentation will be confirmed.

► Maximizing the Workforce – Part 3

Stream: HARNESSING OUR DIVERSE WORLD

Chair: Kerris Hougardy, Manager, Resources and Mining, Hays Recruiting Group

What do mining professionals want?

Jackie Burns and Thea Watson, Hays Specialist Recruitment

Growing a diverse workforce for business continuity: principles for effective leadership

Laura Methot and Anne-Marie Michaud, CLG

Diversity and inclusion: defining the business case for your operations

Greg Morris, Gordon Orlikow and Rosaleena Marcellus, Korn/Ferry International

Achieving high performance in inclusion and diversity

José Suárez, Jamile Cruz and Linda A. Brown, Accenture

► Safety – Part 2

Stream: MANAGING OPERATIONS FROM MINE TO MILL

Chair: Glenn Lyle, Associate, Health and Safety, MIRARCO

Safety in mining is something that is always at the forefront of any operation. Statements such as “ensuring our mine workers return home safely after each shift is of paramount importance to our company” are always important to hear, and companies want to be recognized internationally for their excellent mine safety record; however, no system is perfect.

What is being done individually or cooperatively to improve mine safety?

Four presentations will be confirmed.

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The sixth annual Management & Finance Day, organized by the CIM Management and Economics Society (MES), will feature expert speakers sharing their experiences and insights around key topics driving the industry, including project risk assessment, examination of important legal issues and estimation of capital costs. As in previous editions, a moderated panel discussion, with all speakers and session chairs, will allow the audience to share thoughts, questions and ideas derived from presentations.

ECONOMIC OUTLOOK

Chair: Jane Spooner, Vice-President, Micon International Co. Ltd.
Time: 8:30–10:00

Metal markets adrift – with no compass

David Davidson, Paradigm Capital Inc.

Mining projects and market cycles

David Laing, Endeavour Mining

Gold: where to from here?

Martin Murenbeeld, Dundee Capital Markets

EXPECTING THE UNEXPECTED

Chair: Lawrence D. Smith, Director, Project Evaluations and Strategic Analysis, Barrick Gold Corporation
Time: 10:30–12:00

Access to mining capital – how companies are responding

Gordon Bogden, Black Loon Group

What goes wrong?

Chris Gypton, Hecla Mining Company

Mining industry top 5 risks

Lee Hodgkinson, KPMG LLP

DUE DILIGENCE – WATCH YOUR STEP!

Chair: Louis Archambeault, Investment Banker, CIBC
Time: 14:00–15:00

Title to be confirmed

Gregory Gosson, AMEC

Going to the source

Joe Hinzer, Watts, Griffis and McOuat Limited

PANEL DISCUSSION

Moderator: David Jennnings, Marsh Canada
Time: 15:30–17:00

Followed by a closing reception

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