

COM  2017
CONFERENCE OF METALLURGISTS
MET  SOC

Held in conjunction with World Gold and Nickel-Cobalt



CALL FOR ABSTRACTS

August 27-30, 2017 | Hyatt Regency Vancouver, Canada

Co-organizers:

World Gold 2017: AusIMM, SAIMM, CIM

Nickel Cobalt 2017: TMS

web.cim.org/com2017



OVERVIEW

MetSoc will be hosting the 56th Annual Conference of Metallurgists in the beautiful city of Vancouver.

Among its many symposia, the 56th Annual Conference of Metallurgists will host the 7th World Gold and the 4th Nickel-Cobalt Conference.

Other major symposia will include: Enabling Innovation in Metallurgy, Advanced Measuring Techniques and Technologies in Mineral Processing, Advances in Materials Manufacturing III, Energy and Eco-Efficiency in Mining and Processing, Light Metal Alloys: Processing for Performance, Corrosion and Environmental Degradation of Materials, and the second symposium on the Women of Innovation.

COM 2017 will draw 800-1000 international researchers and industry leaders.

The conference will include a trade show lounge, short courses, technical tours, posters, student and social activities.

Plans are in place to have at least three plenary sessions led by some of the foremost thinkers of our time.

James Budac

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**STAY TUNED
FOR MORE INFORMATION**



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CALL FOR ABSTRACTS

The organizing committee is soliciting abstracts for the following topics:

- World Gold 2017 (7th International Conference)
- Nickel-Cobalt 2017 (4th International Conference)
 - » Hydrometallurgy
 - » Pyrometallurgy
- Innovation in Metallurgy
- Advances in Materials Manufacturing III
- Light Metal Alloys: Processing for Performance
- Advanced Measuring Techniques and Technologies in Mineral Processing
- Women of Innovation
- Corrosion and Environmental Degradation of Materials
- Energy and Eco-Efficiency in Mining and Processing
- Industry Poster Session



SUBMIT YOUR ABSTRACT NOW!
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World Gold 2017 7th International World Gold Conference

The World Gold conference series is a joint venture between AusIMM, CIM and SAIMM. It has been held biennially since 2005. Following conferences in Calgary (2005) and Montreal (2011), the event will be hosted in Vancouver for the first time in 2017. The symposium will include all aspects of technical innovation related to the gold industry, from exploration through to processing.

Abstracts are being solicited according to the following technical streams:

- Geology and mining
- Mineralogy and characterization
- Pre-concentration
- Mineral processing
- Extractive metallurgy
- Environmental aspects
- Process Flowsheets
- Modelling, Optimisation, and Process Control

Co-organized by: AusIMM, CIM and SAIMM

Nickel-Cobalt 2017 4th International Conference

COM 2017 is pleased once again to be the host of the Nickel Cobalt Conference following previous Ni-Co Conferences held with TMS in 1997, 2005, and with COM in 2009.

Activities will include a dedicated short course and one or more tours to relevant Canadian industrial sites.

Core programming for Ni-Co 2017 will be split between two core disciplines: Hydrometallurgy and Pyrometallurgy of Ni-Co.

Co-organized by TMS



Symposium Chairs:

Peter Lind

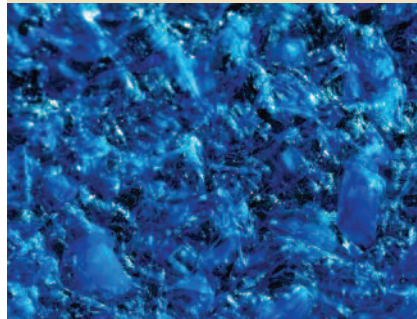
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Hydrometallurgy of Ni-Co

The Hydrometallurgy of Ni-Co sessions will constitute MetSoc's 47th Annual Hydrometallurgy Meeting, and will be held in conjunction with Ni-Co 2017.

Hydrometallurgy of Ni-Co 2017 will bring together internationally recognized scientists, engineers and plant operators knowledgeable in the metallurgy of nickel and cobalt, to share and discuss the most recent developments in the processing of these metals. Session topics include: hydrometallurgical processing of nickel and cobalt ores, concentrates and mattes, as well as the recovery of associated valuable by-products. Papers will be presented on existing operations, projects in the pipeline, R&D initiatives, emerging technologies, laterite processing, processing of sulphides, leaching, solvent extraction, purification, metals refining and PGM recovery. A good balance between industrial and academic papers is planned, with emphasis on papers that describe novel approaches taken to solve difficult processing problems.

Pyrometallurgy of Ni-Co

Topics include advances in the processing of nickel, cobalt and PGMs featuring pyrometallurgical techniques for the treatment of ores, concentrates and other materials. Papers will be presented on existing operations, projects in the pipeline, R&D initiatives, emerging technologies, laterite processing, PGM recovery, and processing of sulphides.

This symposium will provide an update on commercial operations and technology development related to the pyrometallurgical extraction of nickel and cobalt since the previous symposium in 2009. It will provide insight into where the industry is headed in the coming 5 to 10 years. The important connections will be highlighted between pyrometallurgical processing and upstream/downstream process operations.

Enabling Innovation in Metallurgy

Papers are being solicited for:

- Historical Review of Innovation in the Canadian Metallurgical Industry
- Developing teams of innovators
- Collaboration and Innovation

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Symposium Chairs:

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James Budac

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Advanced Measuring Techniques and Technologies in Mineral Processing

This symposium focus is to illustrate how advanced measuring techniques and technologies are being utilized in the field of Mineral Processing. Learning about these techniques and new technology plays an important part for mineral processing and its goal to become more efficient and sustainable.

*Co-organized by: The Canadian Mineral Processors Society of CIM – CMP
Endorsed by: University of British Columbia*

Light Metal Alloys: Processing for Performance

This symposium covers fundamental and applied research related to the processing of light metals, and their resulting physical and mechanical metallurgy. The scope includes new process developments, process modelling, alloy development, process-property relationships, microstructure development, defect characterization and prediction, residual stress, and fatigue behaviour measurements and prediction. The focus is on processing routes including casting, hot- and cold rolling, extrusion, forging, and drawing. Abstracts are requested that highlight the impact of the research results on the final in-service component performance.

Advances in Materials Manufacturing III

Advances in Materials Manufacturing III Symposium will focus on the latest developments in manufacturing and processing of the conventional and advanced materials. The scope includes additive manufacturing, welding and joining (laser welding, hybrid laser-arc welding, electron beam, friction stir welding, linear friction, soldering, brazing, diffusion bonding, adhesive bonding, etc.), laser and laser-assisted materials processing, casting, powder metallurgy, injection molding, spark plasma sintering, forming, hot isostatic pressing, and other advanced materials manufacturing and processing technologies. The first symposium was held at COM 2014 and the second at COM 2015. Selected manuscripts will be recommended for possible publication in Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science.

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Women of Innovation 2nd International Symposium

The Influence of Leading Canadian Female Engineers

The project Women of Innovation aims to recognize and document the experiences and accomplishments of innovative Canadian female engineers and to disseminate their inspiring stories through a peer-reviewed publication and a symposium at a national conference.

The persistent underrepresentation of women in STEM (science, technology, engineering and mathematics) disciplines is particularly significant and even more apparent in many of the engineering fields. According to Engineers Canada, in 2014 women represented only 12% of licensed professional engineers in Canada. It is essential that the engineering profession attracts talent with great and varied skills; therefore, it is all the more reprehensible that women continue to be underutilized and underrepresented.

Between May 2016 and April 2017, the project organizers will conduct 20-25 in-depth interviews with female engineers who are leading innovators in Canada. These interviews will be condensed and compiled into a peer-reviewed book for publication. Electronic copies of the manuscript will be widely distributed amongst engineering schools and faculties, professional engineering associations, and to the various communities and groups of partners and stakeholders involved in the project.

To further assist in the dissemination of the project, interviewees will be invited to participate as expert panelists at a one-day symposium, to be held in Vancouver on Wednesday, August 30rd, 2017, during the 2017 Conference of Metallurgists (COM). The symposium will be used as a way to highlight the achievements of these women and to reflect on how they have changed the face of engineering. It will also provide an important opportunity to develop future strategies to encourage more women to consider careers in engineering.

The innovation and influence of Canadian female engineers is still unrecorded. Through these oral history interviews, the publication of a manuscript, and the symposium, this project aims to build the collective and individual memories of women in engineering. By recovering and writing the stories of these women's lives, this project will also pay tribute to the accomplishments of Canadian women in engineering; inspire current engineers to become innovators in their field; and provide girls and women with inspiring role models that could lead them to pursue careers in STEM.



Riccardo Celliere

Symposium Chair:

Mary Wells

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Corrosion and Environmental Degradation of Materials

This symposium will discuss advancements related to:

- Prevention of life threatening corrosion failures
- Measurement of the deterioration process
- Understanding and controlling the causes of pipeline material corrosion and degradation

Energy and Eco-Efficiency in Mining and Processing

In this symposium we will review the factors that have led to significant advances to the quality of environmental control in mining, milling, smelting and refining, and discuss how these should provide guidance for future progress. Speakers are invited on

- Ni/Co environmental topics
- Au processing environmental topics
- Energy use in mining and metallurgy (incl. green energy)
- Waste management
- Water (use and treatment)

Symposium Chairs:

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PARTICIPATE IN OUR METALS TRADESHOW

WHY?

- **COM is Canada's premier event for the Metallurgy and Materials industries**
- Attendee traffic average is **600-800 delegates**
- **60% of attendees** are from the industry section
- Expand your outreach with delegates from over 30 countries around the world: company executives, senior metallurgists, professional engineers, researchers and professionals from academia

SPONSORSHIP OPPORTUNITIES

A wide range of sponsorship opportunities are available for the conference and its activities. Want to be a sponsor at COM 2017? Great news; we offer flexible sponsorship options; for complete details visit our website.

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