



DISTINGUISHED LECTURERS 2021-2022



CRAIG J.R.
HART
PAST DIRECTOR, MDRU



GILLIAN
HOLCROFT
PRESIDENT, GLH STRATEGIC



PATRICIA
DILLON
PRESIDENT AND CEO, MINING MATTERS

STILL AVAILABLE FOR THE 2021-2022 SEASON!

C.D. ('Lyn) Anglin, Principal Consultant, Anglin & Associates; James Budac, Metallurgist; Jamile Cruz, Founder and CEO, I&D 101; Monica Ospina, Founder and Director, OTrade; Nathan Ashcroft, Strategy and Business Development Leader, Stantec

THE PROGRAM

The CIM Distinguished Lecturers program started in 1968 and has continuously provided a lineup of individuals who have shared their knowledge with the mining community for over five decades.

Every year, the lecturers are elected by their peers through the CIM Awards program and hold the title for a complete season (September to June).

CIM is privileged to count more than 260 of the industry's finest as its lecturers. Because the motto "once a lecturer, always a lecturer" defines our pride and dedication in ensuring that the learning curve is endless, a complete list of past lecturers is available at www.cim.org, where you can benefit from the ever-growing pool of expertise that the program has to offer.

HOW IT WORKS

The Distinguished Lecturers program is offered to 31 CIM Branches, 11 Technical Societies and 8 Student Chapters. Universities can also request a lecture.

LECTURERS ARE AVAILABLE FOR YOUR ONLINE OR IN-PERSON EVENTS.



For more information, contact:
Dist_lecturer@cim.org
514.939.2710 ext: 1344

To book a Distinguished Lecturer visit:
<https://www.cim.org/request-a-lecturer/>

Proudly sponsored since 1972 by the CIM Foundation, whose continuous support and generosity allows the CIM Distinguished Lecturers Program to connect CIM members with leading industry expertise.

The CIM Distinguished Lecturers program is owned and operated by the Canadian Institute of Mining, Metallurgy and Petroleum (CIM).



CRAIG J.R. HART

PAST DIRECTOR, MDRU

Craig is the past Director of MDRU-Mineral Deposit Research Unit at the University of British Columbia (UBC) where he facilitated industry-sponsored mineral exploration research and training projects on regional metallogeny, gold and porphyry systems, and exploration method development. Dr. Hart integrates field and analytical data to develop new exploration concepts, tools and targets. He raised \$20M to support research and training of 40 graduate students and 20 senior researchers. He was previously at the University of Western Australia (UWA -3 years) investigating gold metallogeny of China and Mongolia, and the Yukon Geological Survey (14 years) undertaking regional mapping/metallogenic surveys. He was a Top 5 finisher and Audience Choice winner (Integra Gold Rush Challenge, 2016), a Boldy Award winner (Geological Association of Canada, 2005), and was the Distinguished Lecturer for the Society of Exploration Geologists (2011). Craig has degrees from McMaster University (BSc 1986), UBC (MSc 1995) and UWA (PhD 2005).

LINKING CORDILLERAN LITHOSPHERIC ARCHITECTURE TO MINERAL DEPOSITS

The provinciality of mineral deposits emphasizes crustal and lithospheric-scale controls on their distribution. For magmatic-associated deposits, the crust and lithosphere are the primary melt and metal sources so they control the limits of fertility and metal tenor. The crustal blocks that comprise the North American Cordillera are the fundamental controls to its metallogenic diversity, but the geometry and composition of the ancient western Laurentian margin that formed during late NeoProterozoic rifting of Rodinia dominates as a controlling force on Paleozoic, Mesozoic and even Cenozoic, tectonic, magmatic and metallogenic events. Asymmetric Neoproterozoic rifting formed a continental margin architecture of exposed upper plate promontories and lower plate basins that are juxtaposed across transform zones. The lower plate is characterized by stratiform base metal and barite deposits that formed during punctuated periods of Paleozoic extension, but is underlain by a previously metasomatized lithospheric mantle that contributed Mesozoic alkaline to peraluminous magmas that generated widespread gold and tungsten metal provinces. These same lower plate packages subsequently formed Carlin-type gold districts during the Cenozoic that were controlled by the locations of reactivated continental margin rift structures. Yukon and Nevada share similar metallogenic tenors because they are both hosted by lower plate components of the ancient rifted margin.



GILLIAN HOLCROFT

PRESIDENT, GLH STRATEGIC

Gillian obtained her bachelor and master's degrees in Chemical Engineering from McGill. She is an Executive Engineer whose expertise is on commercializing environmentally sustainable approaches in the minerals and waste processing sectors. In recognition of her leadership, Gillian received the CIM 2019 MetSoc Environmental Award. Gillian began her career at the Noranda Technology Center where she transitioned from technology development to operations support at Canadian Electrolytic Zinc. Gillian was part of the team that developed the now commercial Jarofix process. Gillian's experience includes technical/project/contract management, securing new investments, establishing business development objectives and strategic partnerships including US Department of Defence. As Executive VP, she was instrumental in bringing a plasma technology company public and as VP for Tetronics she identified opportunities to extract metal values from industrial catalysts and ores. Gillian was President and CEO of a publicly listed company, whose goal is to produce magnesium and by-products from tailings. Gillian is currently Innovation Manager at the Canada Mining Innovation Council where she is managing two "Impact Canada Crush It" projects whose aim is to significantly reduce energy consumption in comminution. Recently Gillian accepted the position of interim Managing Director for the Global Mining Guidelines Group (GMG).

COLLABORATION AND INNOVATION IN MINING AND METALLURGY / THERE'S NEVER BEEN A BETTER TIME TO JOIN THE PARTY

After 30 years in the Mining and metallurgical industry, there are many examples of great collaborations and game changing developments. As best said by Einstein, "Necessity is the mother of invention". A great example is the Jarofix process, as without this innovation, CEZinc may no longer be in operation. The need for sustainable solutions in our industry has never been more important and the challenges to achieve this goal are tremendous. When the big mining consolidations started, and many company technology centers closed their doors and hiring of young professionals slowed, a knowledge gap was created. CMIC along with other organizations have been working hard to bridge this gap by promoting consortia that focus on innovative projects that have the potential to disrupt the industry. Focused mandates, shared risks, shared rewards seem to be a pathway that makes the most sense. Technology is a competitive advantage, but the real advantage is how established companies make the best use of this technology. Gone are the days of developing technology for one company to exploit. Government funding to support these disruptive technologies is also key. It creates an urgency to get things done and of course lowers the risk.

The discussion will focus on some of these CMIC led projects along with the added benefits of working with open-minded, intelligent, and motivated professionals across our industry. The presentation will also touch upon how we can perhaps do a better job at educating investors that Innovation and R&D are different and by investing in Innovation, they will see a return in the long-term growth of the company. We need to collectively find a way to raise the bar and make the investment community aware that there is money to be made by investing in disruptive mining technologies that will propel our industry into the next decade. The time is now to innovate and is best said by Henry Ford, **"Coming together is the beginning, keeping together is progress, working together is success."**



PATRICIA DILLON

PRESIDENT AND CEO, MINING MATTERS



Patricia's organizational and communication skills made her a force for change in the mining industry. She was an early advocate of Corporate Social Responsibility (CSR) and a founder and leader of Mining Matters, a charitable organization that produces educational resources promoting knowledge and understanding of the minerals industry.

Dillon earned a BSc in geology and a Bachelor of Education from the University of Toronto in the mid-1970s. She taught science before joining Teck as an exploration geologist in 1979, leading to a 32-year career with the firm. She recognized the industry was lagging in social and environmental initiatives and set about to foster change through various industry organizations, serving as president of CIM from 2000-2001 and of PDAC from 2006-2008. Dillon was named one of 100 inspirational women in mining worldwide in 2014. Her most enduring legacy is Mining Matters, which celebrated its 25th anniversary in 2019. She will be inducted into the Canadian Mining Hall of Fame in August 2021.

SUPPORTING COMMUNITIES WITH MINERAL RESOURCES EDUCATION

Our society relies heavily on mineral resources, but public perception of the minerals industry is largely negative. Education creates opportunities to build awareness, dispel myths and misconceptions, and demonstrate the industry's importance and value.

Balanced and accurate educational resources, engaging programs and public outreach build mineral literacy, lead to a better understanding of the mining industry, spark interest in STEM, and bring awareness to career opportunities.

Many organizations are strongly committed to providing accurate information and programs to educate teachers, students and the public on the value of minerals and mining to our society and the industry's commitment to corporate social responsibility. Established in 1994, Mining Matters' mandate is focused on development and delivery of interactive and innovative programs for students, teachers and Indigenous communities.

This presentation explores the importance of supporting communities with mineral resources education to provide enrichment and improve knowledge and understanding of our industry.

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C.D. (LYN)
ANGLIN

PRINCIPAL CONSULTANT, ANGLIN & ASSOCIATES
**THE MOUNT POLLEY TAILINGS SPILL: RESPONSE
AND RECOVERY – 6 YEARS LATER**



JAMES
BUDAC

METALLURGIST
**AN EXAMINATION OF THE ROLES OF RATIONALISM
AND EMPIRICISM IN REFINERY TROUBLESHOOTING**



JAMILE
CRUZ

FOUNDER AND CEO, I&D 101
**THE LINK BETWEEN INCLUSION & DIVERSITY
AND HIGH-PERFORMANCE OPERATIONS**



MONICA
OSPINA

FOUNDER AND DIRECTOR, OTRADE
**SOCIAL AND HUMAN CAPITAL: STRATEGIC
INVESTMENT TO GUARANTEE NON-CONFLICT
AND SUSTAINABLE FUTURE FOR MINING,
AND ITS SUPPLY CHAIN**



NATHAN
ASHCROFT

STRATEGY AND BUSINESS DEVELOPMENT LEADER, STANTEC
**BITUMEN BEYOND COMBUSTION
HYDROGEN FOR INDUSTRIAL USES
NATURAL GAS DECARBONIZATION (NGD)**

* For more details: <https://www.cim.org/about-us/distinguished-lecturer-program/>