



CCMEC2024 - Exploring Connections!
Victoria Inn Hotel & Convention Centre
1808 Wellington Avenue Winnipeg,
Manitoba R3H 0G3, Canada
Date: November 4 - 5, 2024

November 3

03:00PM - 08:00PM	Exhibitor Ingress
	Victoria Inn
05:00PM - 08:00PM	VIP Reception (Invite Only)
	Royal Aviation Museum



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Date: November 4 - 5, 2024

November 4

07:30AM - 08:30AM Registration and Networking
Victoria Inn

07:30AM - 04:30PM Tradeshow
Main Hall

08:30AM - 08:55AM Opening Ceremonies
Main Plenary

09:00AM - 10:00AM Max FineDay
Main Plenary

Speakers





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Max FineDay

Max FineDay, a seasoned advocate for First Nations rights and the CEO of Warshield, will lead a conversation that goes beyond land acknowledgements, and gets to the heart of the roadblocks and opportunities to generate wealth with Indigenous peoples.

With over a decade of experience in policy, communications, and government relations, Max has represented the interests of local, regional, and national First Nations organizations and brings that expertise to CCMEC.

	Health Break
10:00AM - 10:10AM	TBD
	Tradeshow Floor
	Session #1 - Mining for the Future - New Technology
10:10AM - 11:00AM	Main Plenary

Speakers

Alexander Prikhodko, Expert Geophysical
Joe Mihelcic, Clearview Geophysics

Joe’s original goal as an engineering undergrad at Queen’s University in Kingston was to work as a geophysicist in the oil industry. When he graduated in 1988 the mineral exploration industry had more opportunities, so he worked for JVX Ltd. which at the time was a leader in surface and borehole IP surveys for gold and base metal exploration. In 1991 he worked for Hyd-Eng Geophysics Inc., a rapidly growing and leading geophysics contractor specializing in near-surface geophysical surveys. Following a stint with Golder Associates on projects carried out primarily in California, and an MBA from Ivey Business School in London, Joe started ClearView Geophysics Inc. in 1996. Since then, ClearView has carried out hundreds of surveys for environmental, geotechnical investigations, and mineral exploration. Joe continues to carry out fieldwork on projects ranging from multi-instrument private locates for pipes and utilities, to snowmobile-mode magnetics and EM surveys for high resolution data at ground level, to cross-hole IP/resistivity surveys for ‘seeing’ between boreholes. ClearView’s website is www.geophysics.ca.



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John Rankin, Eagle Mapping

John holds a B.Sc. in Physical Geography from the University of Calgary, specializing in remote sensing. Additionally, he obtained a technical diploma in surveying and photogrammetry from the Southern Alberta Institute of Technology.

With over 25 years of expertise, John excels in photogrammetry and LiDAR, catering to the natural resource sectors and government agencies.

Description:

The method consists of placing transmitter electrodes at ‘infinity’ perpendicular to the dominant target trend and reading electrode voltages with a receiver across at least three borehole pairs over many depth combinations. The data are georeferenced in 3D and input to inversion modeling software to produce a 3D resistivity image between the boreholes. Three examples are presented: small scale for void detection, medium scale for bedrock characterization, and large scale for mineral exploration. Future developments include super large scale for investigations under existing mining camps, automated ‘robots’ to operate winches at multiple borehole pairs with customized software, enhanced quantitative interpretation for near-borehole anomalies and effects, and modeling various target scenarios for critical mineral exploration.

Abstract Title: Red Relief Image Map (RRIM), A New Visualization Method of 3D Data for Mineral Exploration

This presentation will go over the benefits of Red Relief Image Mapping, and how this new visualization method can assist in mineral exploration.

High resolution 3D topographic data potentially holds useful information which cannot be expressed by ordinary visualization methods. Red Relief Image Mapping (RRIM) is a new method based on multi-layered topographic information computed from gridded 3D data (DEM). RRIM can visualize the topographic slope, concavities and convexities at the same time. Any user can quickly and clearly read and interpret the data with minimal instruction and no need for GIS or Geomatics training.

Session #2 - Exploring Opportunities

10:10AM - 11:00AM

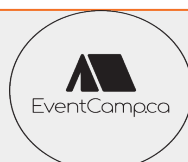
Dave Peck, Grid Metals

Embassy A/B

Speakers



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Dave Peck, Grid Metals

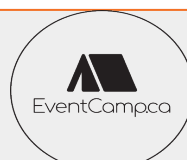
Dave Peck is a professional geoscientist with over 35 years of experience in the private and public sectors. He joined Grid Metals (GM) in 2020 where he oversees the company's critical metals exploration and development programs in Ontario and Manitoba. Prior to joining GM he was vice-president of Exploration for North American Palladium Ltd. and built a Vancouver-based geoscience consulting business. From 2003-2009 he was Global Nickel Commodity leader for Anglo American's Exploration Division. He previously worked as a senior geologist for Falconbridge Ltd. and a mineral deposits geologist for the Manitoba Geological Survey. Dave holds a PhD. in Geology from Melbourne University and a M.Sc. in Geology from the University of Windsor. He has authored numerous academic, government and NI 43-101 technical reports. Dave recently joined the Board of Directors of Clean Air Metals. He currently lives in Winnipeg with his wife Michelle and daughter Josephine.

Carolyn Hudek, Alamos Gold

Carolyn Hudek graduated with a Bachelor of Geological Sciences (Hons.) from the University of Manitoba in 2012 and obtained her Project Management Professional certification in early 2024. She has dedicated her career to gold exploration across Canada, namely with Sabina Gold and Silver on the Back River Property, Nunavut, Chalice Gold Mines on the Kinebik and East Cadillac Gold Properties, Quebec, and with Alamos Gold on the Lynn Lake Gold Project, Manitoba and at the Young-Davidson Mine, Ontario. She started with Alamos in 2020 as a project geologist and since 2023 has managed the Lynn Lake site as the exploration superintendent.



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Description:

Abstract:

Grid Metals' MM Project: On Track to Become the Next Major Copper-Nickel-PGM Production HUB in Manitoba

Grid Metals Corp's MM project captures most of the prospective Cu-Ni-PGE ground in the Bird River greenstone belt, southeastern Manitoba. The belt, a former nickel producer, is a direct analogue of the Ring of Fire district in northwestern Ontario.

The Company is currently launching an ambitious exploration and development plan that will complement its ongoing efforts to commission the next lithium mine in the province at its Donner Lake property. Currently, the MM project captures 50 million tonnes of pit-constrained Cu-Ni-PGE resources. The project comprises two discrete mineral trends: (1) The Makwa Domain, which includes several nickel-rich disseminated magmatic sulfide deposits hosted by the Ultramafic Series of the Bird River Sill; and (2) The Mayville Domain, which features a series of predominantly mafic intrusive bodies that host high tenor, copper-dominant, disseminated sulfide mineralization.

The first step in the campaign is the completion of a series of new, deep-penetrating, high-resolution airborne EM surveys to support the first belt-wide search for feeder-related massive sulfide deposits. The next major step will involve exploration drilling and associated lithogeochemical and downhole geophysical surveys. Drilling will initially focus on a 4km long trend of mineralized gabbro that includes the historical New Manitoba deposit. The Company has set the dual goals of doubling the current open pit resources and adding new high-grade massive sulfide discoveries. If successful, the project would support Manitoba's first new critical metals mining hub in many decades.

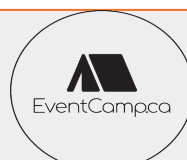
Abstract:

Alamos' Lynn Lake Gold Project: Exploration Processes and Greenfields Discoveries

Alamos Gold acquired the Lynn Lake Gold Project in 2015 and spent the first five years drilling at and near the three historic mine sites: MacLellan, Gordon, and Burnt Timber. Since 2020 the focus has been on systematic exploration to cover the entire 58,000 Ha property. This presentation will discuss the exploration methods employed by Alamos which have been key to exploration success, and provide an overview of two greenfields discoveries in Tulune and Maynard.



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11:10AM - 12:00PM

Session #3 - Planning for Your Environmental License – What You Need to Know

Agnes Wittman, Government of Manitoba

Plenary Room

Speakers

Agnes Wittman, Government of Manitoba

Siobhan Burland Ross

Jennifer Winsor

Gavin Bergeron

11:10AM - 12:00PM

Session #4 - Permitting and the New Mineral Exploration Guide

Mike Armstrong, Permit Office Manager, Province of Manitoba

Embassy

Speakers

Mike Armstrong, Permit Office Manager, Province of Manitoba

Mike joined the Permit Office team as manager in September 2022. Mike has several years of relevant work experience with Natural Resources, starting in 1990 as a Natural Resource Officer in Winnipeg and transferring to various locations including Bissett (where his wife, Kelly, worked for Rae Gold and Harmony Gold) and Cranberry Portage (known for its natural resources and Big fish!). In 2006, Mike relocated to The Pas gaining valuable experience as the Regional Crown Land Manager until transitioning to the Permit Office. In role, Mike's experiences have allowed him to steer several major, complex projects. Mike's career and personal life in the north has led to good relationships and friendships with many local resource users and communities. He also holds membership on several Resource Management boards. Mike is an essential part of the Permit Office team and constantly strives to develop ways to achieve efficiency in the department.



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Dale Wride

Dale Wride joined the Permit Office team as the Permit Office Resource Planner in the spring of 2023 bringing a with him strong technical and practical knowledge of mineral exploration and mining related activities. Dale has an extensive network of relationships he has built and maintained with industry and northern communities over the years. Prior to joining the Manitoba Government, Dale worked across Canada in several different capacities of mineral exploration including airborne, surface and underground geophysics. Dale understands the impact of work permit delays and aims to help Industry and government navigate this process. Dale and his wife Theresa live off-grid outside of Flin Flon with their dog Emmett, a couple of cats, 30-ish chickens and, until a couple weeks ago, a few turkeys.

Description:

In the mining Industry, Manitoba has a dedicated Permit Office (PO) to coordinate and administer Work Permit review, circulate information, and approve processes. The PO serves as a central liaison for industry to navigate Manitoba policy and legislative requirements and coordinates communication as efficiently as possible between proponents and subject matter experts within several government branches and departments.

This presentation will provide more information about the PO, including the procedures and processes that are followed from start to finish for issuance of a Mineral Exploration Work Permit. Further insight will be provided on what makes a successful project including more information on Indigenous inclusion.

The PO and MAMI recently worked together to standardize work permit conditions and updated the guidelines for Mineral Exploration to support the industry. The presentation will wrap-up with a live demo of the new resources available to proponents to support the work permit application process to make it easier to navigate the early stages of mining exploration.

	Sponsor and Exhibitor Lunch
11:30AM - 12:30PM	Earth Ex
	Wellington Room

	Delegates and Attendees Lunch
12:00PM - 01:00PM	Sponsored By: Earth Ex
	Wellington Room

	Mine Rescue Demo
01:00PM - 01:10PM	Plenary Room





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Session #5 - Markets & Investment Opportunities

01:15PM - 02:05PM

Fabian Sanderson, First People's Fund

Plenary Room

Speakers

Fabian Sanderson, First People's Fund

Chief Larson Anderson, Norway House Cree Nation

Session #6 - Prospecting - Where it All Begins

01:15PM - 02:05PM

Alan Aubut

Embassy

Speakers

Alan Aubut

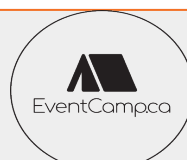
Alan Aubut is a graduate of Lakehead University (HBS) and the University of Alberta (MSc). He spent much of his career with Inco Ltd., now Vale Canada, exploring for gold, nickel and other base metals throughout much of Central Canada. After retiring he started his own consulting firm specialising primarily in resource estimation.

Garry Thorne

Garry is retired from Atomic Energy of Canada after working as a geoscientist in the Applied Geoscience branch of the Canadian Nuclear Fuel Waste Management Program and Whiteshell Decommissioning for 28 years. Prior to AECL he worked on the Arctic Island Pipeline Project conducting hydrological investigations on river systems from the Canadian High Arctic to Southern regions. He plans on a second retirement from mineral exploration as soon as he finds a 10 million ton NI, Cu, Co and PGE ore body or equivalent.



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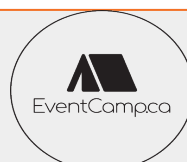
Tom Lewis

Tom Lewis is a retired geological engineer with over 40 years of experience in the mineral exploration business. Work has included all phases of exploration including advanced exploration, and feasibility studies resulting in a mine production decision on the Musselwhite Project. In addition, while at HBED, he became involved with mining operations and the discovery of several base metal deposits. At Anglo American, he was the Safety, Health, Environment and Community Relations Coordinator for N.A. and Europe.

Since retirement, Tom is serving as technical advisor to NicKelex Resource Corporation, and the Mining Board of Manitoba. He is the Past President of the Manitoba Prospectors and Developers Association. In his spare time, he volunteers making presentations to seniors in retirement communities.



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Description:

Abstract - Exploring for Nickel (Alan Aubut)

In this session of Prospecting – Where it all Begins industry expert Alan Aubut will look at exploring for rare but of high value nickel deposits. Many are associated with komatiite flows hosted by sulphidic sediments within extensional basins, this allowed the mantle-derived ultramafic magma to come in contact with those sulphidic sediments allowing contamination and partitioning of nickel into the sulphides. Extensional basins are common in many Archean greenstone belts and are characterised by Oxford Lake Group or Temiskaming sediments and include deep-water sulphidic argillites. Examples of this type of environment include the Wollaston Lake area of Saskatchewan, Island Lake greenstone belt in Manitoba, the Shebandowan greenstone belt in Ontario and the Animikie basin, also in Ontario.

Abstract Title: Till Geochemistry Vectoring and Exploration for Magmatic Ni, Cu, Co and PGE's in the Thompson Nickel Belt, North Central MB. (Garry Thorne)

Norcangeo Ltd. Has been conducting till geochemistry exploration on company claims in the Thompson Nickel Belt (TNB) since 2012. The potentially Ni-rich bedrock of the TNB is overlain by discontinuous glacial till and lacustrine sediments that in the current exploration area range from 0 to 15 m thick. To auger through the sediments and sample the till overlying bedrock a custom made and patented light-weight, portable and efficient drill has been constructed and field techniques developed to allow cost effective access and sampling of the till unit.

Abstract: The Art of Prospecting (Tom Lewis)

Industry expert Tom Lewis will share that prospecting is an art, with scientific assistance, that is in the business of finding ore. Prospectors have had to adjust to the modern reality that minerals and metals are a depleting resource, and the easy discoveries have been found.

Prospectors have had to develop new skills, from negotiating a fair agreement, through the exploration cycle, to developing business acumen to option their property to prospective buyers, or convincing management that their property should advance to the economic assessment stage.

Tom will draw from his personal experience, the experience of others as well as papers on the subject.





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02:10PM - 03:00PM

Session #7 - Government Showcase: Provincial Supports

Tafa Kennedy

Plenary Room

Speakers

Tafa Kennedy

Maryanne Porteous

Roselle Miko

02:10PM - 03:00PM

Session #8 - Mining and Exploring into the Next Decade

Simon Gagne, Kinross Gold,

Embassy Room

Speakers

Simon Gagne, Kinross Gold,

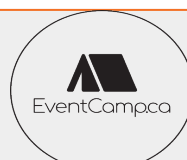
Simon graduated with a B.Sc. in Geology from the Université du Québec à Montréal in 2001, he then went on to obtain a M.Sc. in Geology from Dalhousie University in 2004. He has been a practicing geologist for over 15 years. In 2019, after 10 years as a regional bedrock mapper and economic geologist with the Manitoba Geological Survey, he moved on to mineral exploration as a consultant. After a short stint as a consultant, he joined the Canadian Greenfield Exploration branch of Kinross Gold corporation in 2021. Since joining Kinross, he has continued to conduct field-based mapping and prospecting projects focusing on orogenic gold in the Trans-Hudson orogen and the Superior Province.

Emmanuel Ramose, Tekton Geomatrix

Emmanuel Ramos, a geologist, previously worked as volcanologist and seismologist in the Philippines and is currently the chief geophysicist at Tekton GeoMetrix. Responding mostly to industry demand, Emmanuel's team is the leading provider of geotechnical instrumentation and monitoring in the Philippines, while conducting research on seismotectonics, geophysics and instrumentation. With a bachelor's degree from the University of the Philippines, he received his MS and PhD in geophysics from Indiana University in the USA.



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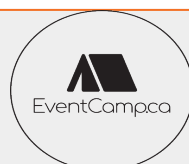
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Jessica Andrew, Geologic AI

Jessica Andrew is the director of Business Development at GeologicAI and has been working within the mining technologies sector for the last five years. Holding a specialization in Geological Sciences from Queen's University, she is passionate about leveraging technological advancements to drive innovation in the industry. Jessica is dedicated to the importance of foundational geologic data needed to meet the global demand for critical minerals.



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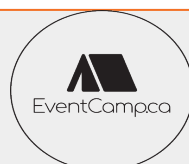




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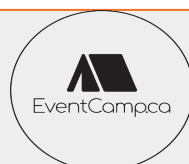




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Description:

GeologicAI is a global leader in rock and resource analytics and digitization, offering a cutting-edge solution that combines high-end robotics, state-of-the-art sensors, AI, machine vision, and leading resource modeling algorithms to empower mining companies with risk-qualified decision-making for their mineral deposits.

Its multi-sensor core scanning integrates advanced AI and machine learning to correlate data from hyperspectral, XRF, RGB, LiDAR, and more, revealing critical insights and enhancing ore body knowledge. With Resource Modeling Solutions, advanced geostatistical and geometallurgical techniques are used for translating the vast data generated from core scanning into improved spatial prediction of critical resource and recovery attributes. Together, GeologicAI and Resource Modeling Solutions enable mining companies to make informed decisions that lead to more robust, profitable, and sustainable extraction.

At CCMEC GeologicAI will introduce its technology, present some of the applications of AI and core scanning with its products and then look into some cases of this in action and the value it can bring in downstream decision making.

Title – *3D-GEm*: A Geophysical Exploration Breakthrough

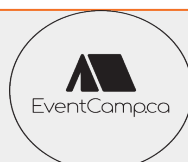
In this CCMEC session Emmanuel Ramos describes *3D-GEm*, an innovative geophysical tool, employing natural electromagnetic (EM) signals to create detailed 3D maps for geological exploration. Emmanuel hopes that the convenience, versatility, and scientific value of 3D-GEm can enhance the energy, minerals, and geological exploration in Canada.

The features of this new geophysical tool include:

- *Geological*—Field data highlight geological boundaries, being able to outline layers, faults, folds, and geological units by their subtle variations in electromagnetic properties;
- *High-definition images*—Sharp details of subsurface geologic structures can be imaged;
- *3D data*—Multitude of 1D data profiles create 3D images with geological and geophysical significance;
- *Passive*—Records natural EM energy causing low environmental footprint;
- *Nodal*—Data collection units are portable, battery-operated, and satellite-synchronized;
- *Surface deployment*—Conveniently installed over land and water surface;
- *Target Focusing*—Method can steer into target sites and depths;
- *Interferometric*—Creates high resolution data with good instrument-to-data ratio;
- *Data stacking*—S/N and depth of data increases over time; images down to few kilometers;
- *Fast turn-around*—Requires few hours or days of deployment, and a few weeks of analysis;
- *Versatile*—Multitude of EM sensor-combinations enables geophysical anomalies (e.g., resistivity, metal factor, etc.) to be creatively mimicked;
- *Self-interpreting*—Layers are automatically traced within the mapped area, and extended into nearby survey sites;
- *Unique EM signatures*—Automatically-assigns EM signatures to units/anomalies/outcrops thereby revealing other possible locations on the surface and underground; and
- *International patent*—The 3D-Gem is now under patent review in six countries.



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However, the need for meticulous high-quality field work has remained. This presentation will highlight how



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Health Break

03:00PM - 03:10PM

Session #9 - Different Mining Opportunities in MB

03:10PM - 04:00PM

Daymon Guillas, PADCOM

Plenary Room

Speakers

Daymon Guillas, PADCOM

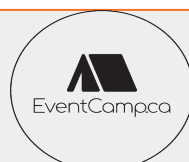
Daymon Guillas is an entrepreneur and the successful owner of a leading potash company, with a remarkable career path that showcases his dedication and innovation. His professional journey began at the young age of 20 when he became general manager of a local inn. Over the years Daymon developed his leadership skills building a successful portfolio into the Russell Inn Group that includes an hotel, gas bar, and several franchise restaurants, employing almost 400 people. Daymon was also instrumental in the development of Asessippi Ski Area & Resort and Asessippi Cottage Cove currently holding the position of president and owner.

In 2006 Daymon's interests turned to the potash industry. His adept lobbying efforts in Manitoba to secure potash leases further demonstrated his strategic vision. Although his partnership with China's CNTIC ultimately feel through, Daymon's perseverance and industry expertise resulted in a significant achievement: acquiring the potash leases without incurring any costs. Drawing from his extensive background in lobbying government and never giving up, Daymon skillfully navigated the complexities of the mining industry. His respected relationships with both provincial and federal governments played a crucial role in his company's growth and successes.

Now 62 years old, Daymon reflects on a career that spans over four decades, including an impressive 42 years as the owner of the inn where his journey began. His successful transition from a hotel manager to a prominent potash entrepreneur highlights his ability to adapt and excel across diverse business landscapes.



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Brian Clifford

Brian Clifford is currently the CEO of PADCOM, bringing to the team experience as the managing director of AMCI Investments Pty Ltd., responsible for AMCI's Australian and Southeast Asia operations, acquisitions, divestments and joint venture project interest.

Brian also held several separate directorships within the AMCI portfolio which included greenfield projects, operating asset and joint ventures. Brian was previously the general manager of the AMCI's coal trading desk.

Brian has over 20 years of mining related experience, including more than 10 years with BHP Billiton across several geographies, commodities and markets including marketing manager for BHP's Carbon Steel Materials desk in Pittsburgh and senior operational positions in the coal and diamonds industries.

Description:

Abstract Title: Manitoba Métis Federation – Red River Métis Tools in the Review of Mining Projects

The Manitoba Métis Federation (MMF), the National Government of the Red River Métis, represents more than 120,000 Red River Métis Citizens within Manitoba, and many more beyond the provincial boundaries. As such, Red River Métis Citizens have the potential to be impacted by mineral exploration, mine development, mine closure and remediation across Manitoba. In order to effectively assess the potential impacts of the mining industry on Red River Métis s. 35 rights and provide meaningful feedback through crown consultation and proponent engagement, the MMF has implemented many tools. These tools include Resolution No. 8, Community Consultation Meetings, Red River Métis Knowledge, Land Use and Occupancy Studies, and Technical Reviews. The MMF's presentation will provide more detail on each of these tools, detail the successes, and discuss gaps in the overall process.

Session #10 - Navigating the Mining Industry

03:10PM - 04:00PM

Adam Neepon, Legacy Bowes

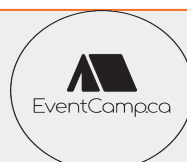
Embassy Room

Speakers

Adam Neepon, Legacy Bowes



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Madelynn Perry, Manitoba Metis Federation

Madelynn Perry has worked with the Manitoba Métis Federation (MMF) – the National Government of the Red River Métis, for nearly two years as a Climate Specialist, Mines and Minerals Coordinator, and now as a Policy Analyst within the MMF’s Energy, Infrastructure and Resource Management Department (EIRM). Madelynn’s work is centered around mitigating or accommodating impacts to Red River Métis section 35 rights as it relates to the mining industry. Her role in the EIRM department focuses on advocating for meaningful and appropriate engagement and consultation with Red River Métis Citizens in the face of development projects across the National Homeland.

Eduan Pieterse, VBKOM Mining Consultants Canada Ltd.

	Tradeshow Bar - Open
03:30PM - 05:30PM	Tradeshow Floor
	Earth Ex Whiskey Bar sampling
03:30PM - 05:30PM	Earth Ex
	Booth Space 25/26/41/42
	Closing Remarks and Blessing
04:00PM - 04:10PM	Main Plenary
	Women in Mining – Mining Mixer
05:00PM - 07:00PM	Carlton Room
	PDAC Reception (Invite Only)
05:00PM - 07:00PM	Embassy A/B



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November 5

07:30AM - 08:30AM	Registration and Networking Tradeshow Floor
08:30AM - 08:55AM	Opening Remarks and Blessing Plenary Room
09:00AM - 10:00AM	Glenn Nolan Glenn Nolan, Vice President, Indigenous Enterprises Plenary Room
Description: Glenn will discuss the importance of building respectful and meaningful partnerships with First Nation communities, highlighting the collaboration between Missanabie Cree and the Renabie Mine as an example of successful partnership development between communities and the mineral industry.	
10:00AM - 10:10AM	Health Break CYR Drilling Sponsored by CYR Drilling
10:10AM - 11:00AM	Session #1 - Indigenous Agreements, Engagement & Economic Reconciliation TBD Plenary Room



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Speakers

TBD
Jamil Sader, T2 Metals
Floyd North, TBC
TBC, Nelson House/Vale

Session #2a - Critical Minerals
Embassy A/B

11:00AM - 12:00PM

Speakers

Claude Jambaje, TBC
Marc Rinne, TBC
Tyler Hodder, TBC
Chris Coueslan

Chris Coueslan is a project geologist in the Precambrian section of the Manitoba Geological Survey. He graduated from Brandon University in 2003 and went on to complete a MSc. at the University of Western Ontario in 2005 on the Eden Lake syenite-carbonatite complex, followed by a PhD. at the University of Calgary in 2013 focused on the tectonometamorphic evolution of the Thompson Nickel Belt. He has worked with the MGS since 2008, and specializes in the geology and mapping of high-grade metamorphic terranes and alkaline igneous complexes. Chris has extensive experience working in the Thompson Nickel Belt as well as the Kiseynew and Pikwitonei domains of Manitoba.



Description:

Abstract Title: The Burntwood Lake syenite-carbonatite complex: implications for REE mineralization and exploration in the Trans-Hudson Orogen of Manitoba

By: Chris G. Coueslan, Tania Martins, Anton R. Chakhmouradian, Matthew A. Friesen

The Burntwood Lake syenite complex is located in the Kiseynew Domain of Manitoba. The complex consists of a heterogeneous pluton of generally clinopyroxene-bearing syenitic rocks. Multiple carbonatite intrusions were discovered during field work in 2023 and 2024, which are distributed over a 0.5 km² area in the northern part of the complex. There appears to be an increase in the density and size of carbonatite intrusions in the vicinity of a 0.14 km² area of low ground in the northern part of the complex. This could imply that it is underlain by more easily eroded, carbonate-rich rocks.

Carbonatites from similar tectonic settings in California and China host several world-class deposits of rare-earth elements (REEs), which are considered critical minerals by the Government of Canada. Carbonatite intrusions have now been discovered in association with syenite complexes at Burntwood, Brezden, and Eden lakes in the Trans-Hudson Orogen of Manitoba. These discoveries are an important step towards recognizing a new 'Trans-Hudson alkaline-carbonatite igneous province', which has potential value for critical mineral exploration.

11:10AM - 12:00PM

Session #2 - So, You Think You Have an Ore Body - What are the Next Steps in the Evaluation Process?

Massoud Aghamirian, SGS Cda

Plenary Room

Speakers

Massoud Aghamirian, SGS Cda

Mike McCubbing, SRC

Harold Cline

Description:

In the process of discovering an ore body, there comes a time when a geological company is required to venture out into doing an assessment of how feasible the find will be. CCMEC is presenting a panel of three industry experts who are highly experienced in doing just that. These experts may be the first people you call to assess amenability to mineral processing. Each panel member plays an integral part in assessing mineralogical samples, but in slightly different ways. So, join the session as they answer critical questions in the evaluation process.



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CCMEC2024 - Exploring Connections!
Victoria Inn Hotel & Convention Centre
1808 Wellington Avenue Winnipeg,
Manitoba R3H 0G3, Canada
Date: November 4 - 5, 2024

11:30AM - 12:30PM Sponsor and Exhibitor Lunch
Wellington Room

12:00PM - 01:00PM Delegates and Attendees Lunch
Wellington Room

01:00PM - 01:15PM Cultural Performance
Plenary Room

01:15PM - 02:15PM Session #3 - Junior Exploration
Maura Kolb, Dryden Gold Corp.
Embassy CD

Speakers

Maura Kolb, Dryden Gold Corp.
Caitlin Glew, Core Nickel

02:20PM - 03:20PM Session #4 - Indigenous Youth/Elders Panel
TBC
Plenary Room

03:20PM - 03:30PM Health Break

03:30PM - 04:20PM Session #5 - Pegmatites
Zachary Heino, Tanco
Plenary Room





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Date: November 4 - 5, 2024

Speakers

Zachary Heino, Tanco
Tania Martins, Cross Lake
TBC

03:30PM - 04:30PM	Earth Ex Whiskey Bar sampling Booth Space 25/26/41/42
04:20PM - 04:30PM	Closing Remarks and Blessing Plenary Room
07:30PM - 04:30PM	Tradeshow Main Hall

