



November 2020

Ground Breaking News

AMIRA CEMI ALLIANCE

PERTH, AUSTRALIA: A new agreement between Amira Global and Canada's Centre of Excellence in Mining Innovation will enhance the ability to fast-track solutions to major industry challenges.



The Strategic Alliance Agreement paves the way for more pathways to facilitate implementation and commercialization of R&D and innovation developed through Amira Global and CEMI.

CEMI MINE TAILINGS CONSORTIUM (CMTC)

The Centre for Excellence in Mining Innovation has created the CEMI Mine Tailings Consortium (CMTC) to bring together multiple companies with technologies that combine to create a new outcome. The CMTC solution is an economical and socially sustainable solution that also creates opportunities for alternative uses of clean mine tailings.



The goal was to develop a strategic solution that would ameliorate the social-environmental issues associated with mine tailings, improve the economics of mine tailings storage and make possible post-closure land and water use options possible within 20 years after production ends.

CONGRATULATIONS ALICIA WOODS



CEMI Congratulates its Board Chair, Alicia Woods, creator and founder of Coveralls Inc. on being Nominated as a 100 Global Inspirational Women in Mining for 2020. Women in Mining UK's biennial "100 Global Inspirational Women in Mining" publication celebrates the "above & beyond" contributions of women to the global mining industry, across all roles, seniority & jurisdictions and pays tribute to outstanding women who advocate for diversity in the workforce and inspire the next generation of leaders. [Read Press Release.](#)

CRUSH IT! FINALISTS

<https://impact.canada.ca/en/challenges/crush-it>

- [Conjugate Anvil Hammer Mill](#)
Gillian Holcroft, Canada Mining Innovation Council
- [Optimization of High-Pressure Grinding Rolls](#)
Claude Gagnon, COREM
- [Microwave Pre-treatment and Ore Sorting](#)
Erin Bobicki, University of Toronto
- [Microwave Treatment and Materials Handling](#)
Tracy Holmes, Jenike & Johanson
- [IntelliCrush](#)
Philippe Gagnon, COREM
- [Transcritical CO2 Pulverization](#)
Cliff Edwards, Envisioning Labs



Natural Resources
Canada

Ressources naturelles
Canada

CEMI is pleased to continue to work with NRCAN on enhancing Canada's mineral processing ecosystem and supporting its emerging clean tech innovations.

Canadian Mineral Processing Ecosystem (CMPE) map

3' x 6' map available for purchase at [Global Advantage Consulting](#)

Free PDF copy of the CMPE map [now available for download](#)

The final grand prize winner will be announced March 2021

NEWS/PUBLICATIONS

CEMI & Precision Periodic Alliance

CEMI & Precision Periodic have established a Strategic Commercialization Alliance to promote a clean chemical mining process technology using nanotechnology. Precision Periodic is a Florida-based, University of Central Florida Business Incubator. [Read Press Release.](#)

EVENTS

[Association of Mine Managers of Zimbabwe Global Virtual Conference](#)

November 26, 2020

Mining in the New Normal 'Transforming Knowledge for Today and Tomorrow'
Presentation by C.Nyabeze

[International Mining and Resources Conference + Expo](#)

November 24—27, 2020

[Energy and Mines World Congress](#)

December 8—9, 2020

[MassMin 2020 Conferences](#)

December 9—11, 2020

High-capacity production systems for Block Caving mines

Presentation by DM. Morrison, CEMI
PO Labrecque, SRK Consulting, Canada

[EXPOSIBRAM](#)

November 24—26, 2020

[Integration of ColdBlock™ Digestion With The Nucomat Automation System](#)

Webinar

December 2, 2020

[The Canadian Mineral Processors \(CMP\) Conference Online](#)

January 2021

WATCH

CEMI hosted webinars available online. www.cemi.ca/category/watch/

Featured Webinars

[Precision Periodic Clean Metal Processing](#)
Precision Periodic

[Sustainable water-free ore concentration technology](#)
Lost Dutchman

[Innovative Geo-Energy Storage System](#)
CleanTech Geomechanics Inc.

[Real-time metal monitoring in solution](#)
2S Water

Fostering Innovation Implementing Excellence

WHY ENGAGE CEMI?

CEMI helps solve mining industry challenges. We accelerate the delivery of commercially viable innovations to improve operational performance. Simply said, our services are designed to bridge the gap between a challenge and a solution.

OUR SERVICES

- **Innovation Scouting**
Global search for current and emerging pre-commercial solutions
- **Challenge Identification**
Review of existing challenges from technology road maps and uncovers hidden challenges using a systems analysis process
- **Challenge Solution Matching**
Matches current and emerging pre-commercial solutions with validated industry challenges
- **Commercialization Services**
CEMI conducts innovation and commercialization gap analysis assessments and offers services to bridge identified gaps

CEMI'S BUSINESS MODEL

- Fee for services rendered
- Success based fee for services
- Commission based agreements
- Royalty and licensing agreements
- A combination of any of the above

PARTNER AND CLIENT SEGMENTS

Our services are designed to bridge the gap between a challenge and a solution. To do that, organizations are matched and grouped together based on their needs, and to deliver the best possible outcomes.

MINING INNOVATION COMMERCIALIZATION ACCELERATOR NETWORK

MICA, a national Network, is designed to bridge the innovation-commercialization gaps by bringing together cross-sector Innovators with made-in-Canada solutions for the mining industry.



STAY INFORMED

Receive event notifications, CEMI Newsletter and other special announcements. Ask us to add you to our mailing list. Contact info@cemi.ca

CEMI COMMERCIALIZATION SERVICES ENGAGEMENTS



Precision Periodic Nano Beads™ eliminates ion exchange, carbon, & hazardous waste. Extract & refine multiple elements <hour. No heat, backpressure & reusable.

www.precisionperiodic.com

2S Water has an automated remote technology that can detect and monitor dissolved metals in solution in real-time.

www.2swater.com



ROSOR has an unmanned aerial systems technology that can acquire data better, faster, and safer.

www.rosor.ca

iRing offers a solution to quickly design underground blasts resulting in reduced costs, dilution and structural damage.

www.iring.ca



MINING INNOVATION MI-GPS

CEMI helps solve the mining industry's challenges by supporting the commercialization of innovations that address these challenges. We believe solutions face a commercialization gap as they transition from bench to market. CEMI has identified that achieving commercial success and traversing through the "Commercialization Valley of Death" requires solution providers to have validated business cases to support the benefits of their technology and awareness of mining-related operational constraints. Solutions must also demonstrate an ability to reduce operating costs, accelerate time to revenue, increase safety, increase sustainability, and advance equity and diversity.

CEMI utilizes a [Mining Innovation MI-GPS](#) to provide commercialization support services to address these requirements. To learn more about these services and how you can advance your mining solutions, please contact us via Charles Nyabeze at cnyabeze@cemi.ca.

For more [Commercialization Services Engagements](#) visit www.cemi.ca/commercialization-projects

SUPERCLUSTER MEMBERSHIPS

CEMI is pleased to be a member of all the Superclusters funded by the [Canadian Government Superclusters Initiative](#). We will be collaborating with the Superclusters to identify opportunities for mining application in Supercluster funded projects and activities.

- Ocean Supercluster (based in Atlantic Canada)
- SCALE.AI Supercluster (based in Quebec)
- Advanced Manufacturing Supercluster (based in Ontario)
- Protein Industries Supercluster (based in the Prairies)
- Digital Technology Supercluster (based in British Columbia)