

July 10th, 2024

C2M2A — Progress Report #10

Thank you to all for your continued and enthusiastic interest in the Canadian Critical Minerals & Materials Alliance. We are pleased to report on the significant initiatives undertaken since our last Report #9 dated April 30th, 2024.

Membership

- Thank you to C2M2A members and collaborators for your strong support and contributions over the past year. C2M2A continues to:
 - Represent members at key industry events
 - Engage the industry through workshops, webinars and networking events
 - Map out opportunities and support the development of Canada’s critical materials supply chain
- If you share this vision for a strong and sustainable critical materials sector, from up- through midstream across Canada, join us and help support our efforts toward a successful energy transition. <https://c2m2a.org/membership/>

Major Initiatives

- Conference on Critical Materials and Minerals (CCMM) The CCMM, comprised of members of the G7 +EU +Australia, was hosted by the Canadian Government in Ottawa for two days of wide-ranging government-to-government policy discussions around critical materials (June 18th & 19th). Canada is the Convener/President of the CCMM this year. C2M2A, in collaboration with the Canadian Chamber of Commerce (CCC) proposed and were subsequently invited to participate in the afternoon session of Day 2 presenting a two-hour Industry Panel to share Canadian priorities. Thanks go to C2M2A- member David Anonychuk of SGS Canada, who is also co-Chair of the CCC’s Critical Materials Council for serving as the panel’s Moderator. The CCC, in collaboration with the Mining Association of Canada, hosted a cocktail reception of the CCMM delegates & Canadian industry representatives who were in Ottawa for the separate GoG Security briefing the next morning.



- GoC Security Briefing (hybrid format) was held June 19th during which industry stakeholders heard from
 - Critical Minerals Centre of Excellence, Natural Resources Canada provided an overview of critical mineral’s evolving geopolitical context and Canada’s efforts to strengthen supply chains’ security and resiliency.
 - Foreign Investment Review and Economic Security Branch, Innovation, Science and Economic Development shared an overview of Canada’s foreign investment review regime (the ICA) and recent efforts to modernize relative to critical minerals.
 - Canadian Security Intelligence Service outlined a range of security-related issues confronting Canadian industry, operating domestically and abroad, including foreign investment, acquisitions, and partnerships, and the protection of intellectual property.

- Canadian Chamber of Commerce Critical Minerals Council Industry Roundtable was convened on June 19th following the GoC's Security Briefing. Thirty-six representatives attended, the majority representing industry and a few from the larger materials eco-system, including higher education, Business development Corporation (BDC), and First Nations Major Projects Coalition (FNMPC). Government representatives from Natural Resources Canada (Lands & Minerals Sector) & Privy Council Office - Clean Growth provided briefings on policy discussions from the two-day CCMM discussions prior to seeking feedback from industry. Questions posed during the Roundtable focused on investment attraction, accelerated permitting and project delivery, including 'Should a Canadian Pension Fund requirement be established to encourage investment in Canadian critical materials companies, similar to Australia's 20% minimum?' The critical need for increased collaboration across sectors and their silos within (and between) industry, government and non-governmental organizations was clearly embraced.
- Canada's CanmetMATERIALS (CMAT): C2M2A, in collaboration with two independent workshop facilitators, is assisting CMAT's in its framing mid- and downstream critical materials research project priorities to align with industry's nearer and longer-term needs. A series of invite-only in-person workshops with OEM's, Recyclers and Materials producers were held in late May to gather industry feedback on the technical gaps and challenges within Canadian critical material value chains and to discuss opportunities to bridge those gaps through collaboration with federal research & development.



- The Rare Earth Industry Association (REIA)'s Annual Conference was held at JOGMEC headquarters in Japan over June 19th & 20th. Saskatchewan Research Council's Muhamad Imran was re-elected to the Board of Directors. REIA's Advisory Board has been revitalized, under the chairmanship of Jose Garcia Santamaria of NuMobility. Canada's Janice Zinck & Ian London have been long-serving advisors to REIA.

Conferences & Media

- The Northern Miner [video interview](#) re critical materials midstream June 7, 2024
- Northern Miner OpEd [More than minerals: Why mid-stream capacity is key to Canada's industrial future](#)
- Spoke at Queen's International Women in engineering Day June 21st
- Participated 'The Great Energy Transition' at The Empire Club June 12th
- Canadian Academy of Engineering, Fellows Showcase 'Accelerating Canada's Critical Material Supply Chains' May 27th
- Participated Ontario Security Commission's 'Dialogue: Inviting, Thriving & Secure Capital Markets' May 22nd
- Participated American Critical Minerals Association Update May 14th
- Participated Canadian Manufacturers & Exporters' Low Carbon, Low-Cost Forum May 7th
- Delivered Keynote at [Energy Transition Materials Summit \(Washington\)](#) April 29th



Standards Initiatives

- Global standards help define best practices and in achieving consensus that drive global trade efforts towards a sustainable future.
- The Standards Council of Canada, the CSA Group, and NRCan’s Critical Minerals Center of Excellence are facilitating Canada’s active participation in advancing current and anticipated global critical materials standards as follows:
 - ISO/TC 298 - Rare Earths: Canadian Chair Lucinda Wood (SRC) and ISO/TC 333 - Lithium: Canadian Chair Umer Farooq (NRCan), both being longer standing initiatives, continue to make progress within their respective working groups. The next plenary meeting for ISO/TC 298 is being set for mid-November, being hosted by Denmark-based Grundfos.
 - ISO/TC 345 - Critical materials other than lithium & rare earths: Canadian Chair Ian London. Canada attended (virtually) the two-day inaugural plenary meetings May 14th & 15th, hosted by France. The discussion focused on the strategic Business Plan and nearer-term material priorities.
 - ISO/TC 348 - Sustainability & critical materials: Canadian Chair Glenn Keays (ERM). The Inaugural plenary meetings set to be held in October in Germany. Canada is currently seeking experts to serve on its Mirror Committee.
 - International Working Agreement (IWA) 45 - Sustainable Critical Mineral Supply Chains: Convened by the Australian Standards Board, stakeholders with interests across the sustainability spectrum from across the globe participated in one in-person meeting, one hybrid meeting and one virtual meeting, with a final report to be released in August 2024. The findings, to be presented to ISO technical Management Board in Geneva, is expected to help frame the soon-to-launched ISO/TC 348. The report is expected to be released in August 2024
 - IWA 48 – ESG Implementation Principles: Convened by the UK’s British Standards Institute (BSI) in collaboration with the Standards Council of Canada (SCC) & the Brazilian Association of Technical Standards, with the goal to provide a high-level framework and set of principles to address how to implement and embed ESG within the culture of an organization, to support management of ESG performance, and to support measurement and reporting under existing frameworks. The aim is to enable consistency, comparability, and reliability of ESG reporting and practices globally. Three workshops are scheduled for July 8th, 10th & 11th to address the overarching themes gleaned from comments received on an inaugural draft discussion paper shared by the BSI and specific topics within those themes. The conveners will use these workshop discussions to provide a second working draft for discussion during a second series of workshops to be held in late September.
- Participated in consultation session with the Canadian Sustainability Standards Board, under the Financial Reporting & Assurance Standards Canada ([FRAS Canada](#)) which recently distributed its inaugural draft of Canadian Sustainability Disclosure Standards, S1 & S2.



Accelerate

- Accelerate, an initiative in which C2M2A collaborates, launched a public, industry-wide consultation to identify actions that will catalyze growth in each segment of Canada's ZEV industry. This consultation will inform the creation of a national ZEV industry approach aimed at creating long-term value to North America and, ultimately, seeing "more Canada" in the vehicles. The consultation covers several key topics, including:
 - Sustainable development of critical mineral assets and growing a robust mid-stream
 - Support for and growth of components and parts manufacturing sectors
 - Financing and commercialization of innovative Canadian technologies
 - Strengthening Canada's value proposition within North America
 - Integration and coordination within the ZEV supply chain
- Accelerate's goal is to release a strategic approach proposal later in 2024. A cross-the-full ZEV supply chain, by invitation, workshop is being planned for mid-October. Comments through Accelerate's consultation portal. [please follow this link](#), are welcomed by July 17th, 2024.



Media

- C2M2A's [Linked-In page](#) continues to attract additional followers as it shares C2M2A's and other postings more broadly. As a member benefit, Linked-In posts made by C2M2A Member companies are also re-posted by C2M2A resulting in a broader audience.

Upcoming Conferences

[CMI Summit III: Connecting Leaders, Advancing Critical](#)

- This two-day summit, to be hosted by Critical Minerals Institute, at which several C2M2A members will be presenting is to be held at [The National Club, Toronto, August 21st & 22nd](#).



[Conference of Metallurgists Joe Ferron / Processing of Critical Materials Symposium](#)

- [This symposium](#), set for Aug 19th – 22nd, 2024 in Halifax, continues to contribute to increasing our collective knowledge and commitment to collaboration. The 48 papers are to be presented, include:
 - Keynotes: Chris Fleming, Senior Consultant SGS Canada (formerly founder of Lakefield and Janice Zinck, Executive Director – Geoscience & Mines, Province of Nova Scotia & Chair of both Mining Hall of Fame & Canadian Federation of Earth Sciences.
 - REE project updates, general beneficiation, hydromet and recycling: 19 papers
 - Graphite processing/ purification: 4 papers
 - Lithium processing: 5 papers.
 - Processing of seabed nodules: 2 papers
 - Nickel, Cobalt, Manganese: 5 papers
 - Nickel, Cobalt, Tantalum: 2 papers
 - Recycling: 4 papers
 - Several papers including descriptions of some of Joe's contributions to hydrometallurgy at SGS/Lakefield Research, Neo Performance Materials and Hydrometal.

Rare Earth Mines, Magnets & Motors 2024

- [This two-day conference](#), being hosted by Adamas Intelligence, will bring together major participants from across the mine-to-motor supply chain for discussions on the state of emerging supply chains, the outlook for ex-China demand and the implications of evolving geopolitical forces. Key questions to be addressed: implications of new U.S. tariffs on EVs and magnets, Will tariffs on imports of Chinese EVs help or hinder western demand, latest innovations in magnetic materials and motor design, outlook for REE-free motors, role recycling will play in the future of supply, and how can policymakers help close gaps in the supply chain. Fairmont Royal York, Toronto, September 25th – 27th.

Here's to a healthy and safe rest-of-the-summer and to the successful industrialization & commercialization of Canada's critical materials sector.



Ian M London PEng., MBA
Executive Director



Marilyn Spink, P.Eng., FCAE, ICD.D
Director, Operations