



Day 1 Wednesday, September 13, 2023



8:00 a.m. Pre-Meeting Coffee

8:30 a.m. Welcoming Remarks

Pat Pitney (President, UA)

Nettie LaBelle-Hamer (Vice Chancellor for Research, UAF)

9:00 a.m. Introduction to CORE-CM in Alaska

U.S. Department of Energy: What is DOE's CORE-CM program all about?

Alaska Department of Natural Resources: What REE/CM work has been done in Alaska?

Grant Bromhal (Acting Director, Minerals Sustainability Program)

Jessica Mullen (Technology Manager, Critical Minerals & Materials, National Energy Technology Laboratory)

John Crowther (Deputy Commissioner)

9:50 a.m. Break

10:20 a.m. Expanding the University of Alaska's capabilities to support Alaska's REE/CM industry

Panel Discussion: Building Capacity

Moderator: **Bill Schnabel** (Dean, College of Engineering and Mines, UAF)

Tathagata Ghosh (Mineral Industrial Research Center, UAF)

Marty Liu (Advanced Instrumentation Laboratory, UAF)

Sean Regan (Geochronology Mineral Separation Facility, UAF)

Martin Stuefer (Hyperspectral Imaging Laboratory, UAF)

Lee Ann Munk (Critical Minerals Hydrogeochemistry Lab and Applied Science Technology and Engineering Lab, UAA)

Brandon Briggs (Advanced Instrumentation for Microbiome Studies Core Lab Facility, UAA)

11:45 a.m. Lunch

12:45 p.m. Meeting CORE-CM mining needs through training and workforce development

Panel Discussion: Workforce & Education

Moderator: **Billy Connor** (Acting Director, Institute of Northern Engineering)

Bill Bieber (Mining & Petroleum Training Service)

Cory Ortiz (Dean of the School of Career Education, UAS)

1:30 p.m. Discovery and characterization

How does DGGs determine where to look? Examples of noteworthy results

USGS efforts in Alaska

Mining data—Machine Learning Applications

Marwan Wartes (Chief, Energy Resources Section, DGGs)

Erik Spiller (Colorado School of Mines)

Rajive Ganguli (University of Utah)

2:30 p.m. Break

2:45 p.m. Enhancing onsite mining

Panel Discussion: Precision Mining, onsite pre-concentrating, and other advancements

Moderator: **Jim Patten** (SVP of Technology, Red Leaf Resources Inc.)

Mike Selover (Vermeer Corporation)

Ron Bowling (FGX SepTech, LLC)

Benson Chow (NACCO Natural Resources)

Justin Seavey (Usibelli Coal Mine)

3:30 p.m. Expanding Alaska's mining industry into REE/CM

Panel Discussion

Moderator: **Rajive Ganguli** (University of Utah)

Brian Erickson (General Manager, Greens Creek)

Justin Seavey (Usibelli Coal Mine)

Deantha Skibinski (Alaska Miners Association)

David Szumigala (DGGs)

4:45 p.m. Lab Tour

Tour of various facilities at UAF that support critical minerals research

6:30 p.m. No-host Networking Event

UAF Wood Center Pub



8:00 a.m. Pre-Meeting Coffee

8:30 a.m. DOE Critical Minerals:
Unconventional Sources

Evan Granite (DOE)

9:15 a.m. Graphite One Update

Kevin Torpy (Vice President, Operations of Graphite One (Alaska) Inc.)

10:00 a.m. Break

10:15 a.m. Setting the stage for REE/CM
development: A State strategic plan

Panel Discussion

Moderator: Steve Masterman (Masterman Consulting)

Bob Loeffler (ISER, UAA)

Mike McElaney (Arctic Energy Office, DOE)

Lance Miller (VP for Natural Resources, NANA)

Sara Fisher-Goad (Program Manager, UAF)

11:30 a.m. Lunch

12:30 p.m. Participant Input: Session 1

- Resource Assessment
- Waste Stream Reuse
- Strategies for Infrastructure to Support Mines
- Technology Assessment, Development & Field Testing
- Establishing a CORE-CM Technology Innovation Center
- Workforce Development, Education, & Stakeholder Outreach

1:15 p.m. Participant Input: Session 2

- Resource Assessment
- Waste Stream Reuse
- Strategies for Infrastructure to Support Mines
- Technology Assessment, Development & Field Testing
- Establishing a CORE-CM Technology Innovation Center
- Workforce Development, Education, & Stakeholder Outreach

2:30 p.m. Break

2:45 p.m. Participant Input: Session 3

- Resource Assessment
- Waste Stream Reuse
- Strategies for Infrastructure to Support Mines
- Technology Assessment, Development & Field Testing
- Establishing a CORE-CM Technology Innovation Center
- Workforce Development, Education, & Stakeholder Outreach

3:30 p.m. Meeting Wrap-up. Next Steps.