



Future Innovation Needs for Responsible Mining of Critical Minerals

August 28-29, 2024
Argonaut Hotel
San Francisco, CA

Day 1, August 28, 2024

8:15 – 9:00 am	Registration
9:00 – 9:15 am	Welcome from USEA and Workshop Introduction from DOE Ryan Peay, DOE-FECM
9:15 – 10:30 am	Do the Math Moderator: Dr. Douglas Wicks, ARPA-E Dr. Morgan Bazilian, Colorado School of Mines Karr McCurdy, VectOres Tae-Yoon Kim, IEA (virtual) Chris Davy, U.S. Department of State (virtual)
10:30 – 11:00 am	Break
11:00 – 12:15 pm	Incentivizing Long-Term Cooperation and Data Sharing Moderator: Dr. Grant Bromhal, DOE-FECM Dr. Brent Elliott, UT-Austin BEG Dr. Colin Williams, USGS Jordan Ciezobka, GTI Tom Erb, Office of Sen. Hickenlooper (virtual)
12:15 – 1:30 pm	Lunch
1:30 – 2:30 pm	Cutting Edge Disruptive Technologies Moderator: Satish Rao, Clareo Zainub Noor, Halliburton Labs Dr. Elise Goldfine, U.S. Department of Energy – ARPA-E Dustin Angelo, Novamera Alex Tanner, CyclicMaterials
2:30 – 3:30 pm	Lessons from Other Mining Nations Moderator: Grant Bromhal, DOE-FECM Alex Bertram, Government of Western Australia Megan Crocker, CSIRO Bryan Tisch, NRCAN (virtual)

Ryan Lamke, DOE-IA (virtual)

3:30 – 4:00 pm

Break

4:00 – 5:00 pm

Transforming All Aspects of Mining

Moderator: Satish Rao, Clareo

Roman Teslyuk, EARTH AI

Tom Wilson, Lilac Solutions

Rob Mellors, ARPA-E

J.T. Starzecki, 5E Advanced Materials

5:00 – 7:00 pm

Poster Session

Day 2, August 29, 2024

8:30 – 9:00 am

The DOE Perspective

Grant Bromhal, DOE-FECM

9:00 – 10:00 am

Traceability

Moderator: Grant Bromhal, DOE-FECM

Brianna Hanson, Pathfinder Development Corporation

Dr. Nancy McMillan, New Mexico State University

Catherine McManus, Materialytics

10:00 – 10:30 am

Break

10:30 – 11:45 am

Accelerating Finance and VC Funding

Moderator: Morgan Summers, DOE-FECM

Ben Cassidy, Moss Ridge

Jason Holt, Orion Ventures

Nikhil Gargeya, Activate

11:45 – 1:00 pm

Lunch

1:00 – 2:15 pm

Community Stakeholder Development Panel

Moderator: Dr. Patrick Dobson, LBNL

Dr. Jeffrey Thompson, University of Nevada-Reno

Dr. Margo Regier, NASEM

Sophie Parker, The Nature Conservancy

Dr. Juan Picolotti, CEDHA (virtual)

2:15 – 2:30 pm

Break

2:30 – 3:30 pm

Need for Speed

Moderator: Doug Wicks, ARPA-E

Misael Cabrera, University of Arizona

Adam Hawkins, Global External

3:30 – 4:30 pm

Tailings Management

Moderator: Aaron Wilson, INL

Dr. Joseph Scalia IV, Colorado State University

Dr. Andrea Foster, USGS