



## **2025 CMLA Program**

Program is subject to change. Breakfast included at hotels.

### **Sunday August 3: CMLA cohort travels to Laramie, Wyoming**

### **Monday August 4: Laramie, Wyoming**

8:00am Bus departs Laramie Holiday Inn for Energy Innovation Center, University of Wyoming

8:30-9:15 Welcome, Introduction, and Goals for the CMLA

Erin Phillips, University of Wyoming School of Energy Resources

Pam Tomski, ENTECH Strategies, LLC

Scott Quillinan, University of Wyoming School of Energy Resources

9:15-10:45 Strengths of the Cohort

Sallie Greenberg, Sallie Greenberg Consulting

10:45-11:00 Break

11:00-12:00 Big Picture Relevance and Supply Chain Complexity

Tom Tarka, National Energy Technology Laboratory

Scott Montross, National Energy Technology Laboratory

12:00 Lunch (grocery store and restaurant options)

1:00-1:45 Mapping China's Strategy for Rare Earth Dominance

Craig Hart, Commercial Law Development Program (CLDP), Office of the General Counsel of the U.S. Department of Commerce

1:45-2:30 Critical Minerals Economics

Charles Sims, University of Tennessee

2:30-2:45 Break

2:45-3:30 Tracing the Transition: Critical Minerals, Supply Chains, and Public Accountability

Nicole Smith, Colorado School of Mines

3:30-4:15 Decision Making under Deep Uncertainty

Selena Gerace, University of Wyoming School of Energy Resources

4:15-4:30 Break

4:30-5:30 Lightning talks from members of the cohort

5:30-6:30 Welcome Reception, Energy Innovation Center

6:30-8:00 Dinner, Energy Innovation Center

8:00pm Bus departs for Laramie Holiday Inn

## **Tuesday August 5: Laramie, Wyoming**

8:00am Bus departs Laramie Holiday Inn for Energy Innovation Center, University of Wyoming

8:15-9:00 Geologic Resource Assessment and Geologic Modeling

Scott Montross, National Energy Technology Laboratory

9:00-10:00 U.S. Geological Survey Critical Minerals Programs

Bob Seal, U.S. Geological Survey

Elisa Alonso, U.S. Geological Survey

Denise Levitan, U.S. Geological Survey

10:00-10:15 Break

10:15-10:45 Critical Minerals Case Studies in Wyoming

UW School of Energy Resources Minerals Team – Tyler Brown, Davin Bagdonas, Bob Gregory, and Cole Messa

10:45-11:15 Geothermal Lithium Case Study

Franek Hasiuk, Sandia National Laboratory

11:15-12:15 Industry Perspectives

Melissa Sanderson, Board member of American Rare Earths and the Critical Minerals Institute; Career Member of U.S. Foreign Service

12:15 Lunch – Energy Innovation Center - Sponsored by Southern Company

1:15-2:00 Mine of the Future and Innovative Mining Techniques

Tom Tarka, National Energy Technology Laboratory

Scott Montross, National Energy Technology Laboratory

2:00-2:30 DOE Demonstration Projects and Initiatives

Tristan Childress, KeyLogic Systems, NETL Support Contractor

2:30-2:45 Break

2:45-3:30 Separation and Extraction Technologies

Nolan Theaker, University of North Dakota

Dan Laudal, University of North Dakota

3:30-4:00 Standardization

Anna Wendt, National Energy Technology Laboratory

4:00-4:15 Break

4:15-5:00 Fireside Chat: Utilization of Waste Streams

Richard Esposito, Southern Company

Fred McLaughlin, University of Wyoming School of Energy Resources

5:15 Bus departs for optional hike or other group activity

7:30pm Bus arrives at Laramie Holiday Inn

Dinner on own; grocery store and restaurant options within walking distance

## **Wednesday August 6: Laramie, Wyoming**

8:00am Bus departs Laramie Holiday Inn for Energy Innovation Center, University of Wyoming

8:15-9:00 Critical Minerals Leadership

Sallie Greenberg, Sallie Greenberg Consulting

9:00-9:30 Place-based Relevance of Critical Minerals Development

Selena Gerace, University of Wyoming School of Energy Resources

Scott Quillinan, University of Wyoming School of Energy Resources

9:30-9:45 Break

9:45-10:30 Social License and Public Perceptions of Critical Minerals Development

Franek Hasiuk, Sandia National Laboratory

10:30-11:15 Tribal Opportunities, Considerations, and Developments

Jessica Eagle-Bluestone, Geothermal Rising

11:15 Lunch (grocery store and restaurant options)

Open house at UW SER 3D Viz Center – Drone and hyperspectral capabilities

James Amato, University of Wyoming School of Energy Resources

12:45-1:30 Landscapes, Communities, and Critical Minerals Development

Justin Loyka, The Nature Conservancy

1:30-2:00 Recycling and Circular Economies

Morgan Evans, Battelle Memorial Institute

2:00-2:15 Break

2:15-3:00 Policy and Permitting Challenges

Madeleine Lewis, University of Wyoming School of Energy Resources

3:00-3:45 Lightning talks from members of the cohort

3:45 Group Photo

4:00 Time to work on group project

5:30pm Bus departs for Laramie Holiday Inn

Dinner on own; grocery store and restaurant options within walking distance

**Thursday August 7: Laramie-Sundance-Gillette, Wyoming**

8:00am Depart Laramie Holiday Inn

Lunch stop at Newcastle, WY (grocery store and fast-food options)

2:00 Visit Rare Element Resources Bear Lodge Project, Sundance, WY

Jaye Pickarts, Rare Element Resources

Paul Bonifas, Rare Element Resources

6:30pm Arrive Gillette, WY Holiday Inn Express

Dinner on own in Gillette, WY

### **Friday August 8: Gillette-Devil's Tower, Wyoming**

9:00am Depart Gillette Holiday Inn Express

9:15 Visit to Dry Fork Mine, including tour and workshop on unconventional critical minerals assessment

Dave Green, Dry Fork Mine

Tyler Brown, University of Wyoming School of Energy Resources

Cole Messa, University of Wyoming School of Energy Resources

Lunch delivered to Dry Fork Mine

2:30 Depart Dry Fork Mine for Gillette Holiday Inn Express

3:45 Depart Gillette Holiday Inn Express for Campstool Ranch, Devil's Tower, WY

5:00 Optional hike at Devils Tower, WY

6:00 Dinner at Campstool Ranch – Sponsored by Rare Element Resources

8:30pm Depart Campstool Ranch for Gillette Holiday Inn Express

### **Saturday August 9: Gillette-Laramie, Wyoming**

9:00am Depart Gillette Holiday Inn for Gillette College Tech Center

9:30-10:00 Workforce Development and Community Colleges

Erin Phillips, University of Wyoming School of Energy Resources

10:00-11:30 Presentation of group projects

11:30-12:00 Concluding Discussion

12:00 Lunch stop with grocery store and restaurant options

1:00 Depart Gillette for Laramie, WY

5:00 Dinner at Washington Park, Laramie, WY

7:00pm Bus departs for Laramie Holiday Inn

**Sunday August 10: CMLA cohort departs from Laramie, WY**