



U.S. DEPARTMENT OF
ENERGY



Crosscutting Research and Advanced Energy Systems Project Review Meeting Rare Earth Elements - Critical Minerals Program Virtual Session Agenda

All times designated in Eastern Daylight Time

Tuesday, May 25, 2021

10:00 AM Program Overview

Mary Anne Alvin, National Energy Technology Laboratory

Pilot-Scale Separation Systems

10:30 AM Demonstration of Scaled-Production of Rare Earth Oxides and Critical Minerals from Coal-Based Sources Using Innovative, Low Cost Process Technologies and Circuits (FE0031827)

Rick Honaker, University of Kentucky

11:00 AM High Yield and Economic Production of Rare Earth Elements from Coal Ash (FE0027167)

Dorin Preda, Physical Sciences, Inc.

11:30 AM Development and Testing of an Integrated AMD Treatment and Rare Earth/Critical Mineral Plant (FE0031834)

Paul Ziemkiewicz, West Virginia University

12:00 PM Rare Earth Element Extraction and Concentrate at Pilot-Scale from North Dakota Coal-Related Feedstocks (FE0031835)

Nolan Theaker, University of North Dakota

12:30 PM BREAK

Systems Analysis, Critical Minerals Separation, Geospatial Modeling

1:00 PM Moderator Welcome Back

Mary Anne Alvin, National Energy Technology Laboratory

1:00 PM Rare Earth Elements-Critical Minerals - Systems Analysis (FWP-NETL)

Morgan Summers, National Energy Technology Laboratory

1:30 PM Rare Earth Elements-Critical Minerals - Separations Technology (FWP-NETL)

Christina Lopano, National Energy Technology Laboratory

2:00 PM Rare Earth Elements-Critical Minerals - Separations Technology (FWP-NETL)

Circe Verba, National Energy Technology Laboratory

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2:30 PM **Rare Earth Elements-Critical Minerals - Geospatial Sedimentary Modeling (FWP-NETL)**
Kelly Rose, National Energy Technology Laboratory

Wednesday, May 26, 2021

10:00 AM **Moderator Welcome Back**
Mary Anne Alvin, National Energy Technology Laboratory

Rare Earth Separation and Detection

- 10:00 AM** **Evaluation of Novel Strategies and Processes for Separation of Rare Earth Elements from Coal-Related Materials (FWP-LANL)**
George Goff, Los Alamos National Laboratory
- 10:30 AM** **Application of Biosorption from REE Recovery from Coal By-Products (FWP-LLNL)**
Yongqin Jiao, Lawrence Livermore National Laboratory
- 11:00 AM** **Evaluation of Laser-Based Analysis of Rare Earth Elements in Coal-Related Materials (FWP-LANL)**
Samuel (Sam) Clegg, Los Alamos National Laboratory
- 11:30 AM** **New Sensing Mechanisms for Rare Earth Detection in Coal and Coal By-Product (FWP-INL)**
Yoshiko Fujita, Idaho National Laboratory
- 12:00 PM** **Recovery of Rare Earth Elements from Coal Byproducts: Characterization and Laboratory-Scale Separation Tests (FE0029900)**
Roe-Hoan Yoon, Virginia Polytechnic Institute and State University
- 12:30 PM** **Current Uses and Future Opportunities for US Industry in Rare Earth Elements and Critical Materials Technologies and Markets: Knowledge-Base Tool Development (FE0026825)**
Randy Vander Wal and Justin Richter, Pennsylvania State University