

RARE EARTH ELEMENTS AND CRITICAL MINERALS PROJECT REVIEW MEETING Virtual Agenda September 15-16, 2020

Tuesday, September 15, 2020

Moderator: Mary Anne Alvin, National Energy Technology Laboratory

10:30 AM Program Overview, Mary Anne Alvin, National Energy Technology Laboratory Pilot-Scale Testing of an Integrated Circuit for the Extraction of Rare Earth Mineral 11:00 AM and Elements from Coal and Coal By-Products Using Advanced Separation Technologies Rick Honaker, University of Kentucky High Yield and Economic Production of Rare Earth Elements from Coal Ash 11:30 AM Dorin Preda, PSI 12:00 PM Development and Testing of an Integrated AMD Treatment and Rare **Earth/Critical Mineral Plant** Paul Ziemkiewicz, West Virginia University 12:30 PM **LUNCH** 1:00 PM Rare Earth Element Extraction and Concentrate at Pilot-Scale from North Dakota Coal-Related Feedstocks Nolan Theaker, University of North Dakota Demonstration of Scaled-Production of Rare Earth Oxides and Critical Minerals from 1:30 PM Coal-Based Sources Using Innovative, Low Cost Process Technologies and Circuits Rick Honaker, University of Kentucky Low Temperature Reduction of Rare Earth Metals Using Ionic Liquids 2:00 PM Holly Garich, Faraday 2:30 PM **ADJOURN**



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Wednesday, September 16, 2020

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10:30 AM	Silicon-Calcium Based Reduction of Rare Earth Oxides Xiaobiong Xie, Materials Research, LLC
11:00 AM	Rare Earth Elements from Coal and Coal By-Products - Embedded Demand Database and Economics Morgan Summers, National Energy Technology Laboratory
11:30 AM	Evaluation of Laser-Based Analysis of Rare Earth Elements in Coal-Related Materials Sam Clegg, Los Alamos National Laboratory
12:00 PM	Rare Earth Elements from Coal and Coal By-Products - Separations Technology Christina Lopano, Circe Verba, National Energy Technology Laboratory
12:30 PM	LUNCH
1:00 PM	Evaluation of Novel Strategies and Processes for Separation of Rare Earth Elements for Coal-Related Materials George Goff, Los Alamos National Laboratory
1:30 PM	Rare Earth Elements from Coal and Coal By-Products - Geospatial Sedimentary Modeling Kelly Rose, National Energy Technology Laboratory
2:00 PM	Application of Biosorption from REE Recovery from Coal By-Products Yongqin Jiao, Lawrence Livermore National Laboratory
2:30 PM	New Sensing Mechanisms for Rare Earth Detection in Coal and Coal By-Product Yoshiko Fujita, Idaho National Laboratory
3:00 PM	ADJOURN