



U.S. DEPARTMENT OF
ENERGY



NATIONAL
ENERGY
TECHNOLOGY
LABORATORY

Crosscutting Research and Advanced Energy Systems Project Review Meeting

Advanced Coal Processing Virtual Session Agenda

All times designated in Eastern Daylight Time

Monday, April 26, 2021

Moderator: Anthony Zinn, National Energy Technology Laboratory

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|---------|--|
| 1:00 PM | Welcome and Introduction
Angelos Kokkinos, U.S. Department of Energy |
| 1:15 PM | Advanced Coal Processing Program Overview
Joseph Stoffa, National Energy Technology Laboratory |
| 1:45 PM | NETL's Intramural Research Program in Advanced Coal Processing
Christopher Matranga, National Energy Technology Laboratory |
| 2:15 PM | C4WARD: Coal Conversion for Carbon Fibers and Composites (FWP-FEAA155)
Edgar Lara-Curzio, Oak Ridge National Laboratory |
| 2:45 PM | Coal to Carbon Fiber (C2CF) Continuous Processing for High Value Composites (FE0031796)
Matthew Weisenberger, University of Kentucky Center for Applied Energy (CAER) |
| 3:15 PM | Experimental Validation and Continuous Testing of an On-Purpose High-Yield Pitch Synthesis Process for Producing Carbon Fiber from US Domestic Coal (FE0031801)
Charles Hill, Ramaco Carbon, LLC |
| 3:45 PM | Silicon Carbide (SiC) Foam for Molten Salt Containment in CSP-GEN3 Systems (SC0018678)
Dwayne Morgan, Touchstone Research Laboratory, Ltd. |
| 4:15 PM | Coal Core Composites for Low Cost, Light Weight, Fire Resistant Panels and Roofing Materials (SC0018794)
Walter Sherwood, Semplastics EHC LLC |

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Tuesday, April 27, 2021

Moderator: Christian Robinson

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| 1:00 PM | Coal to Carbon Fiber Novel Supercritical Carbon Dioxide (SCO₂) Solvated Process
(FE0031800)
Chris Yurchick, Ramaco Carbon, LLC |
| 1:30 PM | Direct Utilization of U.S. Coal as Feedstock for the Manufacture of High-Value Coal Plastic Composites (FE0031809)
Jason Trembly, Ohio University |
| 2:00 PM | Conversion of Domestic US Coal into Exceedingly High-Quality Graphene (FE0031794)
James Tour, Rice University |
| 2:30 PM | Production of Carbon Nanomaterials and Sorbents from Domestic U.S. Coal (FE0031798)
Seyed Dastgheib, University of Illinois |
| 3:00 PM | Laboratory-Scale Coal-Derived Graphene Process (FE0031881)
Alexander Azenkeng, University of North Dakota Energy and Environmental Research Center (UNDEERC) |
| 3:30 PM | Coal as Value-Added for Lithium Battery Anodes (FE0031879)
Kyle Marcus, Semplastics EHC LLC |
| 4:00 PM | Conversion of Coal to Li-Ion Battery Grade (Potato) Graphite (FE0031797)
Michael Wagner, George Washington University |
| 4:30 PM | Efficient Process for the Production of High Conductivity, Carbon-Rich Materials from Coal
(SC0018837)
Dorin Preda, Physical Sciences, Inc. |

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Wednesday, April 28, 2021

Moderator: Charles Miller

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| 1:00 PM | U.S. Coal to Conductive Inks (SC0018694)
James Hnat, Minus 100, LLC |
| 1:30 PM | A Novel Process for Converting Coal to High-Value Polyurethane Products (FE0031795)
Satya Chauhan, Battelle Memorial Institute |
| 2:00 PM | Sub-Pilot-Scale Production of High-Value Products from U.S. Coals (FE0031880)
Eric Eddings, University of Utah |
| 2:30 PM | The Novel Charfuel Coal Refining Process 18 Tpd Pilot Plant Project for Co-Producing an Upgraded Coal Product and Commercially Valuable Co-Products (FE0031708)
Lee Meyer, Carbon Fuels LLC |
| 3:00 PM | Pilot-Scale Testing of the Hydrophobic-Hydrophilic Separation Process to Produce Value-Added Products from Waste Coals (FE0031711)
James Reyher, Minerals Refining Company, LLC |