

**Wednesday, October 21, 2020**

Moderator: Joseph Stoffa, National Energy Technology Laboratory

- 10:30 AM Welcome and Introduction**  
Angelos Kokkinos, U.S. Department of Energy
- 10:45 AM Carbon Utilization Program Overview**  
Joseph Stoffa, National Energy Technology Laboratory
- 11:00 AM Novel Algae Technology for CO<sub>2</sub> Utilization (SC0017077)**  
Ravi Prasad, Helios-NRG, LLC
- 11:30 AM Electrochemical Conversion of Carbon Dioxide to Alcohols (FE0029868)**  
Feng Jiao, University of Delaware
- 12:00 PM Integrated Capture and Conversion of CO<sub>2</sub> to Methanol (ICCCM) Process Technology (TCF-19-17862)**  
Robert Dagle and David Heldebrant, Pacific Northwest National Laboratory
- 12:30 PM Break**

Moderator: Naomi O'Neil, National Energy Technology Laboratory

- 1:00 PM Storing CO<sub>2</sub> in Built Infrastructure: CO<sub>2</sub> Carbonation of Precast Concrete Products (FE0030684)**  
Brian Robert Ellis, University of Michigan
- 1:30 PM Beneficial use of CO<sub>2</sub> from Coal-Fired Power Plants for Production of Animal Feeds (FE031717)**  
Tryg Lundquist, MicroBio Engineering
- 2:00 PM Carbon Dioxide and Renewable Electricity into Chemicals: Chemical Production from Coal Flue Gas (FE0031706)**  
Hongzhou Yang, Dioxide Materials, Inc.
- 2:30 PM Break**



**CARBON UTILIZATION  
PROJECT REVIEW MEETING  
Virtual Agenda  
October 21-22, 2020**

Moderator: Katharina Daniels, National Energy Technology Laboratory

- 3:00 PM**      **Electrochemical Conversion of CO<sub>2</sub> from Coal into Fuels and Chemicals Using a Modified PEM Electrolyzer (FE0031712)**  
Kendra Kuhl, Opus 12, Inc.
- 3:30 PM**      **Life Cycle Analysis of Carbon Utilization Technologies at NETL**  
Timothy Skone, U.S. Department of Energy, National Energy Technology Laboratory
- 4:00 PM**      **Electrochemical CO<sub>2</sub> Conversion**  
Douglas Kauffman, U.S. Department of Energy, National Energy Technology Laboratory
- 4:30 PM**      **Adjourn**

**Thursday, October 22, 2020**

- 9:45 AM**      **Welcome and Introduction**  
Mark Ackiewicz, U.S. Department of Energy

**Panel on Testing Facilities**

Moderator: Lynn Brickett, U.S. Department of Energy

- 10:00 AM**      **Wyoming Infrastructure Authority**  
Jason Begger, Wyoming Integrated Test Center
- 10:15 AM**      **National Carbon Capture Center**  
John Northington, Southern Company
- 10:30 AM**      **International Test Center Network**  
Frank Morton, Southern Company
- 10:45 AM**      **Q&A**

Moderator: Dan Hancu, National Energy Technology Laboratory

- 11:00 AM**      **Evaluation of Concentrated Piperazine for CO<sub>2</sub> Capture from Coal-Fired Flue Gas and NGCC Conditions**  
Gary Rochelle, The University of Texas at Austin

**11:30 AM**      **Validation of Transformational CO<sub>2</sub> Capture Solvent Technology with Revolutionary Stability**  
Erik Meuleman, ION Engineering LLC

**12:00 PM**      **Lunch**

Moderator: Joseph Stoffa, National Energy Technology Laboratory

**12:30 PM**      **Field Scale Testing of the Thermocatalytic Ethylene Production Process Using Ethane and Actual Coal Fired Flue Gas CO<sub>2</sub>**  
Amit Goyal, Southern Research Institute

**1:00 PM**      **A Scalable Process for Upcycling Carbon Dioxide (CO<sub>2</sub>) and Coal Combustion Residues into Construction Products**  
Gaurav Sant, University of California, Los Angeles

**1:45 PM**      **Membrane-Integrated Sorbent Adsorption Process for Carbon Capture**  
Gokhan Alptekin, TDA Research

### **Panel Discussion on DAC and Utilization**

Moderator: Amishi Kumar, U.S. Department of Energy

**2:15 PM**      **Biofuels and Bioproducts**  
Ian Rowe, Bioenergy Technologies Office

**2:30 PM**      **Strategic Analysis in Advanced Manufacturing**  
Joe Cresko, Advanced Manufacturing Office

**2:45 PM**      **Carbon Conversion Technologies**  
Phil De Luna, National Research Council of Canada

**3:00 PM**      **Renewable Chemical Technologies**  
Randy Cortwright, National Renewable Energy Laboratory

**3:15 PM**      **Advanced Algal Systems**  
Christy Sterner, Bioenergy Technologies Office

**3:30 PM**      **Q&A**

