University Coalition for Fossil Energy Research

2022 Virtual Annual Technical Review Meeting
Host: National Energy Technology Laboratory
3610 Collins Ferry Rd, Morgantown, WV 26505
Webinar Registration: https://attendee.gotowebinar.com/register/3954763428920338190
NETL Registration: https://netl.doe.gov/events/22UCFER

AGENDA
October 5th, 2022

Introduction

11:00 – 11:15 am Welcome Remarks and Administrative Update
Dr. Brian Anderson, Director, National Energy Technology Laboratory
Omer Bakshi, DOE Project Officer, University Coalition for Fossil Energy Research

11:15 – 11:45 am State of the Coalition
Bruce Miller, Director, University Coalition for Fossil Energy Research

Integrated Carbon Management

Wei Xiong, University of Pittsburgh

Giuseppe D’Alessio, Princeton University

12:25 – 12:35 pm Integrated Carbon Management Q&A & Discussion

12:35 – 1:05 pm LUNCH BREAK

Point Source Carbon Capture

Bradley Irvin, University of Kentucky Research Foundation

1:25 – 1:45 pm Crosslinked Microspherical Adsorbents from Lignite-derived Humic Acid for CO₂ Capture (06-UND-Z1-13: Point Source Carbon Capture)
Xiaodong Hou, University of North Dakota

1:45 – 2:05 pm A Novel Reactive Separation Method for Carbon Dioxide Capture From Flue Gas (06-USC-Z1-10: Point Source Carbon Capture)
Theodore Tsotsis, U. Southern California
2:05 – 2:25 pm  Use of a Novel Process for Revolutionizing CO₂ Capture (06-Uwy-Z1-35: Point Source Carbon Capture)
Maohong Fan, University of Wyoming

2:25 – 2:45 pm  Point Source Carbon Capture Q&A & Discussion

2:45 – 2:55 pm  BREAK

**Hydrogen Fuel Production and Delivery**

Andrey Starikovsky, Princeton University

3:15 – 3:20 pm  Hydrogen Fuel Production and Delivery Q&A & Discussion

**Emissions Quantification**

3:20 – 3:40 pm  Quantification of Methane Emissions from the Natural Gas Gathering System using Distributed Sensors (05-CMU-U1-12: Emissions Quantification)
Albert Presto, Carnegie Mellon University

3:40 – 3:45 pm  Emissions Quantification Q&A & Discussion

**Feasibility of Recovering Rare Earth Elements**

3:45 – 4:05 pm  Current Uses and Future Opportunities for US Industry in REE and CM Technologies and Markets: Knowledge-Base Tool Development (05-PSU-V1-04: Feasibility of Recovering Rare Earth Elements)
Francis Kuklis, Pennsylvania State University

4:05 – 4:10 pm  Feasibility of Recovering Rare Earth Elements Q&A & Discussion

4:10 – 4:20 pm  Closing Remarks & Adjourn