



NETL - Penn State



PennState

University Coalition for Fossil Energy Research

University Coalition Workshop at NETL

May 16-17, 2017

University Coalition Objectives

The University Coalition for Fossil Energy Research was established by the U.S. Department of Energy (DOE) through an open competitive process to advance basic and applied fossil energy research. The University Coalition will facilitate basic and applied energy research and promote multidisciplinary collaboration among the member universities of the Coalition and the National Energy Technology Laboratory (NETL) of DOE. Its research will focus on coal, natural gas, and oil in the following five core competency areas: Geological and Environmental Systems; Materials Engineering and Manufacturing; Energy Conversion Engineering; Systems Engineering and Analysis; Computational Science and Engineering.

Workshop Objectives

This workshop will provide university-coalition members information about the research and development conducted at NETL. The participants will be able to tour NETL's laboratory facilities and listen to NETL scientists and technologists. The workshop will provide participants an opportunity to discuss lessons learned from NETL-University-Coalition collaboration so far and to identify best practices to maximize the benefits of collaboration to NETL and the University Coalition members.

Workshop Notes

The University Coalition participants will arrive in Pittsburgh, PA on Monday, May 15th evening. The first day of meeting will at NETL-Pittsburgh campus on Tuesday, May 16th. The workshop participants will travel to NETL-Morgantown for the Day-2 meeting on Wednesday, May 17th. Carpooling encouraged as parking spaces on the campuses are limited.

The core competency leads will discuss the major research topics, NETL expertise and collaboration opportunities within their areas of expertise. The technology managers will discuss their technology portfolio. The schedule allows for only one or two short questions during the presentations. Detailed discussions are encouraged during one-on-one meetings and during break time. Similarly, the presenters at the lab tours will be available for additional discussions at the end of the lab tour at 4:30 pm.

Tuesday, May 16, NETL, Pittsburgh, PA Campus

Agenda

Time	Session	Speakers
8:00	Arrival, badging, and continental breakfast	
9:00	Welcome and Introductory remarks	M. Syamlal/ Sydni Credle
9:15	Overarching research mission at NETL, and the importance of partnerships	Randy Gentry
9:45	Introduction to UCFER	Chunshan Song
10:05	Break	
10:20	Technology Portfolio: Carbon Capture/ Carbon Use and Reuse	Lynn Brickett
10:40	Core Competency: Materials & Manufacturing Engineering	Dave Alman
11:00	Technology Portfolio: Rare Earth Elements	Mary Anne Alvin
11:20	Core Competency: Systems Engineering and Analysis	Kristin Gerdes
11:40	Group Photo	
11:50	Lunch. Informal discussions among participants. Participants may congregate near name-tents for today's presentations. (Room 922-B)	
12:50	Technology Portfolio: Carbon Storage	Traci Rodosta
1:10	Core Competency: Geological & Environmental Systems	Mark McKoy
1:30	Technology Portfolio: Oil and Gas	Jared Ciferno
1:50	Dialog between UCFER TAC members and NETL leadership. (Room 922-C)	Time for one-on-one meetings that NETL and UCFER personnel may schedule.
3:10	NETL-Pittsburgh Campus Lab tour	
4:30	The speakers at the tour stops will be available to answer additional questions, if any, from the university participants. (Room B83 104 A/B)	
6:00	No-host dinner. Please sign up at the registration desk.	

The presentations are in Room 922-A. Exceptions are shown in parenthesis.

Wednesday, May 17, NETL, Morgantown, WV Campus

Agenda

Time	Session	Speakers
8:00	Arrival, badging and continental breakfast	
9:00	Technology Portfolio: Crosscutting Research and Analysis	Bob Romanosky
9:20	Technology Portfolio: Fuel cells	Shailesh Vora
9:40	Technology Portfolio: Gasification	Dave Lyons
10:00	Break	
10:15	Technology Portfolio: Turbines	Rich Dennis
10:35	Core Competency: Energy Conversion Engineering	Dave Berry
10:55	Core competency: Computational Science & Engineering	Chris Guenther
11:15	Technology Portfolio: Advanced combustion	John Rockey
11:35	Lunch. Informal discussions among participants. Participants may congregate near name-tents for today's presentations. (Room G51-A)	
12:35 Parallel sessions	CCAB, TAC Executive committee meetings (Room G51-B)	Time for one-on-one meetings that NETL and UCFER personnel may schedule.
2:05	NETL-Albany Campus (Virtual) Lab tour	
2:25	NETL-Morgantown Campus Lab tour	
4:30	The speakers at the tour stops will be available to answer additional questions, if any, from the university participants.	
5:00	Meeting adjourns	

The presentations are in Room G51-C. Exceptions are shown in parenthesis.