

NETL SPRING RESEARCH PROJECT REVIEW MEETING - AGENDA AT A GLANCE

TUESDAY, APRIL 21

MATERIALS

**SENSORS AND
CONTROLS**

**TRANSFORMATIONAL
POWER GENERATION**

**ADVANCED COAL
PROCESSING**

**GASIFICATION
SYSTEMS**

**RARE EARTH
ELEMENTS**

REGISTRATION AND BREAKFAST

PLENARY SESSION

Welcome: Brian Anderson, Director, National Energy Technology Laboratory

Keynote: Steven Winberg, Assistant Secretary for Fossil Energy, U.S. Department of Energy

Panel: Fossil Energy Program Update

Update: Historically Black Colleges and Universities (TBD)

Success Story: Tech4Imaging, Doing Business with NETL/DOE

Existing Fossil Fleet I
Material Challenges

Advanced Sensors and Controls for
FE Power Generation

Improvements for
Existing Plants I

Advanced Coal
Processing I

Gasification with Mixed Feedstocks
& Flexible Operations I

Recovery of Rare Earth Elements
(REE) from Coal-Based Resources

LUNCH

Existing Fossil Fleet II
Material Challenges

Artificial Intelligence for Improved
Plant Operation and Performance

Improvements for
Existing Plants II

Advanced Coal
Processing II

Air Separation Technologies to
Assist Modular Gasification I

REE Process Scale-Up and
Efficiency Improvements

Existing Fossil Fleet III
Material Challenges

Monitoring & Diagnostics for Gas
Turbine Application

Improvements for
Existing Plants III

Energy Storage
(New Program)

Air Separation Technologies to
Assist Modular Gasification II

REE Separation Technology I

POSTER SESSION

NETL SPRING RESEARCH PROJECT REVIEW MEETING - AGENDA AT A GLANCE
WEDNESDAY, APRIL 22

MATERIALS	SENSORS AND CONTROLS	TRANSFORMATIONAL POWER GENERATION	WATER TECHNOLOGIES	GASIFICATION SYSTEMS	RARE EARTH ELEMENTS
REGISTRATION AND BREAKFAST					
Alloy Manufacturing I	Cybersecurity and Advanced Digital Tools I		Water Management	Enabling Technologies for Affordable Small Scale Gasifiers	REE Separation Technology II
Alloy Manufacturing II	Cybersecurity and Advanced Digital Tools II		Wastewater Treatment and Recovery I	Gasification with Mixed Feedstocks & Flexible Operations II	REE Separation Technology III
LUNCH					
Alloy Development and Advanced Manufacturing	Robotics for Non-Destructive Evaluation and Repair	Improvements for Existing Plants IV	Wastewater Treatment and Recovery II	Modular Systems Workshop I	
Modeling and Alloy Development	Robotics + Materials and Manufacturing Development for Sensing Applications	Chemical Looping Combustion & Pressure Gain Combustion	Wastewater Treatment and Recovery III	Modular Systems Workshop II	

NETL SPRING RESEARCH PROJECT REVIEW MEETING - AGENDA AT A GLANCE
THURSDAY, APRIL 23

MATERIALS	SIMULATION-BASED ENGINEERING	TRANSFORMATIONAL POWER GENERATION	WATER TECHNOLOGIES		
REGISTRATION AND BREAKFAST					
Alloy Development and Life Prediction	Process Systems Modeling and Other Novel Concepts	Oxy-Combustion I	Wastewater Treatment		
Supercritical CO2	MFIX Suite - Multiphase Flow Modeling and Applications	Oxy-Combustion II	Wastewater Treatment and Condensors		
LUNCH					
Materials Modeling	Computational Modeling for Materials Development and Manufacturing		Condensors		
Alloy Development, Ceramics, and Turbine Combustors					