Tuesday 4/21	Session C - Conference Room: Allegheny			
	TRANSFORMATIONAL POWER GENERATION			
	Organization	PI	Title	Moderator
7:00 AM	REGISTRATION AND BREAKFAST			
7:30 AM				
	KEYNOTES			
8:00 AM	Welcome: Brian Anderson, Director, National Energy Technology Laboratory			
8:30 AM	Keynote: Steven Winberg, Assistant Secretary for Fossil Energy, U.S. Department of Energy			
9:00 AM	Panel: Fossil Energy Program Update			
9:30 AM	Update: Historically Black Colleges and Universities (TBD) Success Story: Tech4Imaging, Doing Business with NETL/DOE			
10:00 AM	BREAK			
	Improvements for Existing Plants I			
10:30 AM	GE Steam Power, Inc.	Stanley Boguszewski	Extended Low Load Boiler Operation to Improve Performance and Economics of an Existing Coal Fired Power Plant	Debalina Dasgupta
11:00 AM	Opto-Knowledge Systems, Inc.	Jason Kriesel	Mid Infra-Red Laser Sensor for Continuous Sulfur Trioxide Monitoring to improve Coal-Fired Power Plant Performance During Flexible Operations	
11:30 AM	Oceanit Laboratories, Inc.	Vinod Veedu	Advanced Anti-Fouling Coatings to Improve Coal-Fired Condenser Efficiency	
NOON	LUNCH			
	Improvements for Existing Plants II			
1:00 PM	University of Maine System	Mauricio Pereira da Cunha	Technology Maturation of Wireless Harsh-Environment Sensors for Improved Condition-Based Monitoring of Coal-Fired Power Generation	Barbara Carney
1:30 PM	West Virginia University Research Corporation	Xingbo Liu	High Temperature Electrochemical Sensors for In-Situ Corrosion Monitoring in Coal-Based Power Generation Boilers	
2:00 PM	West Virginia University Research Corporation	Xingbo Liu	High Temperature Gas Sensor for Coal Combustion System	
2:30 PM	Reaction Engineering International	Jacob Beutler	Combustion Performance and Emissions Optimization Through Integration of a Miniaturized High-Temperature Multi Process Monitoring System	
3:00 PM	BREAK			
	Improvements for Existing Plants III			
3:30 PM	Electric Power Research Institute, Inc.	Kent Coleman	Integrated Boiler Management through Advanced Condition Monitoring and Component Assessment	Jason Montgomery
4:00 PM	University of Utah	Mikhail Skliar	Ultrasonic Measurements of Temperature Profile and Heat Fluxes in Coal-Fired Power Plants	
4:30 PM	Microbeam Technologies, Inc.	Shuchita Patwardhan	Improving Coal Fired Plant Performance through Integrated Predictive and Condition-Based Monitoring Tools	
5:00 - 7:30 PM	POSTER SESSION			

Wednesday 4/22	Session D - Conference Room: Lawrence Welk			
	TRANSFORMATIONAL POWER GENERATION			
	Organization	PI	Title	Moderator
7:00 AM	REGISTRATION AND BREAKFAST			
7:30 AM				
8:00 AM				
8:30 AM				
9:00 AM				
9:30 AM				
10:00 AM	BREAK			
10:30 AM				
11:00 AM				
11:30 AM				
NOON				
12:30 PM	LUNCH			
	Improvements for Existing Plants IV			
1:00 PM	National Energy Technology Laboratory	Larry Shadle	Online System ID for Both Fault Detection and Power Plant Dynamics Control During Cycling Operations	Matthew Adams
1:30 PM	National Energy Technology Laboratory	Chris Guenther	Data Driven High Fidelity Proxy Models	
2:00 PM	National Energy Technology Laboratory	Steve Zitney	Dynamic Modeling and Analysis	
2:30 PM	National Energy Technology Laboratory	Marc Turner	Conceptual Design of a Greenfield PC Plant Intended for Flexible Operation	
3:00 PM	BREAK			
	Chemical Looping Combustion & Pressure Gain Combustion			
3:30 PM	University of North Dakota Energy and Environmental Research Center	Junior Nasah	Low-Cost and Recyclable Oxygen Carrier and Novel Process for Chemical Looping Combustion	Debalina Dasgupta
4:00 PM	University of Central Florida	Kareem Ahmed	Advanced Cost-Effective Coal-Fired Rotating Detonation Combustor for High Efficiency Power Generation	
4:30 PM				

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THURSDAY 4/23	Session D - Conference Room: Lawrence Welk TRANSFORMATIONAL POWER GENERATION			
	Organization	**PI**	**Title**	**Moderator**
7:00 AM	**REGISTRATION AND BREAKFAST**			
7:30 AM				
	Oxy-Combustion I			
8:00 AM	Southwest Research Institute	Joshua Schmitt	Flameless Pressurized Oxy-Combustion Large Pilot Design, Construction, and Operation	Diane Revay Madden
8:30 AM	Southwest Research Institute	Joshua Schmitt	Particle Separator for Improved Flameless Pressurized Oxy-Combustion	
9:00 AM	Brigham Young University	Andrew Fry	Development of Enabling Technologies for a Pressurized Dry Feed Oxy-Coal Reactor	
9:30 AM	University of Texas at El Paso	Ahsan Choudhuri	Technology Demonstration of a High Pressure Swirl Oxy-Coal Combustor	
10:00 AM	**BREAK**			
	Oxy-Combustion II			
10:30 AM	University of Illinois at Urbana-Champaign	Yongqi Lu	Catalytic Removal of Oxygen and Pollutants in Exhaust Gases from Pressurized Oxy-Combustors	Mark Freeman
11:00 AM	Reaction Engineering International	Kevin Davis	Characterizing Impacts of Dry Coal Feeding in High Pressure Oxy-Coal Combustion Systems	
11:30 AM	TDA Research, Inc.	Gokhan Alptekin	Oxy-Combustion System Process Optimization	
NOON	**LUNCH**			
1:00 PM				
1:30 PM				
2:00 PM				
2:30 PM				
3:00 PM	**BREAK**			
3:30 PM				
4:00 PM				
4:30 PM				

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POSTER SESSION

Program	Number	Organization	PI	Title	Agreement #
TRANSFORMATIONAL POWER GENERATION	TPG-1	8 Rivers Capital, LLC	Adam Goff	Coal-Based Power Plants of the Future	89243319CFE000015
	TPG-2	Allegheny Science & Technology Corporation	Jesse Goellner	Coal-Based Power Plants of the Future	89243319CFE000016
	TPG-3	Barr Engineering	Chad Haugen	Coal-Based Power Plants of the Future	89243319CFE000017
	TPG-4	Consol Pennsylvania Coal Company, LLC	Daniel Connell	Coal-Based Power Plants of the Future	89243319CFE000020
	TPG-5	Echogen Power Systems, LLC	Timothy Held	Coal-Based Power Plants of the Future	89243319CFE000022
	TPG-6	Electric Power Research Institute, Inc.	Horst Hack	Coal-Based Power Plants of the Future	89243319CFE000023
	TPG-7	Nexant, Inc.	John Gulen	Coal-Based Power Plants of the Future	89243319CFE000025
	TPG-8	Reaction Engineering International	Hong-Shig Shim	Development of Miniaturized High-Temperature Multi-Process Monitoring System	FE0031682
	TPG-9	Siemens Corporation	Anand Kulkarni	Environmental Validation of Materials and Design Concepts to Enable Operational Flexibility of Existing Coal Power Plants	FE0031749
	TPG-10	Microbeam Technologies, Inc.	Shuchita Patwardhan	Demonstration of Multi-Gamma Based Sensor Technology for As-Fired Coal Property Measurement	FE0031750
	TPG-11	Lehigh University	Sudhakar Neti	Flexible Coal Power Plant Operation with Thermal Energy Storage Utilizing Thermosiphons and Cementitious Materials	FE0031755
	TPG-12	Barr Engineering	Nicole Nguyen	Mitigation of Aerosol Impacts on Ash Deposition and Emissions from Coal Combustion	FE0031756
	TPG-13	University of Kentucky	Dimitrios Koumoulis	Ash Fouling Free Regenerative Air Preheater for Deep Cyclic Operation	FE0031757
	TPG-14	Electric Power Research Institute, Inc.	Scott Hume	Concrete Thermal Energy Storage Enabling Flexible Operation Without Coal Plant Cycling	FE0031761
	TPG-15	Electric Power Research Institute, Inc.	Andy Howell	Investigation of Technologies to Improve Condenser Heat Transfer and Performance in a Relevant Coal-Fired Power Plant	FE0031762
	TPG-16	Research Triangle Institute	Zachary Hendren	Anti-Biofouling Surface Treatments for Improved Condenser Performance for Coal-Based Power Plants	FE0031764
	TPG-17	Clemson University	Hai Xiao	Test and Validate Distributed Coaxial Cable Sensors for In Situ Condition Monitoring of Coal-Fired Boiler Tubes	FE0031765
	TPG-18	GE Steam Power, Inc.	Ray Chamberland	Plasma Ignition and Combustion Stabilization Technology to Improve Flexible Operation, Reliability and Economics of an Existing Coal Fired Boiler	FE0031766
	TPG-19	General Electric Company	Mustafa Dokucu	Transient Efficiency Flexibility and Reliability Optimization of Coal Fired Power Plants	FE0031767
	TPG-20	Applied Thermal Coatings, Inc.	Jeff Henry	Elimination of Steam Side Scaling on Grade 91 Steel: Improving Efficiency, Reliability, & Flexibility of Existing Fossil Fired Power Plants	FE0031769
	TPG-21	Combustion Research and Flow Technology, Inc.	William Calhoon	Combustion Modeling for Direct Fired Supercritical CO2 Power Cycles	SC0017235
	TPG-22	TDA Research, Inc.	Fei Yi	Direct Combustion of Fine Coal from Coal Waste	SC0018502
	TPG-23	Argonne National Laboratory	Sreenath Gupta	Advanced Ignition System for Enhanced Ignition Stability and Combustion Efficiency	TCF-19-17594