

Tuesday 4/21	Session E - Conference Room: Bob Hope			
	GASIFICATION SYSTEMS			
	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 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			
8:30 AM				
9:00 AM				
9:30 AM				
10:00 AM	BREAK			
	Gasification with Mixed Feedstocks & Flexible Operations			
10:30 AM	Oak Ridge National Laboratory	James Parks II	Experimental Validation of Coal Gasification with Neutron Imaging	Diane Revay Madden
11:00 AM	National Energy Technology Laboratory RI&C	Mehrdad Shahn Timer	Advanced Gasifier Design	
11:30 AM	University of Alaska - Fairbanks	Brent Sheets	Making Coal Relevant for Small Scale Applications: Modular Gasification for Syngas/Engine CHP Applications in Challenging Environments	
NOON	LUNCH			
	Air Separation Technologies to Assist Modular Gasification I			
1:00 PM	Pacific Northwest National Laboratory	David Reed	Pressure Driven Oxygen Separation	Venkat Venkataraman
1:30 PM	National Energy Technology Laboratory RI&C	Jonathan Lekse	Oxygen Production for Gasification	
2:00 PM	Research Triangle Institute	John Carpenter	Pilot Testing of a Modular Oxygen Production System Using Oxygen Binding Adsorbents	
2:30 PM	Pacific Northwest National Laboratory	Jamie Holladay	Magnetocaloric Cryogenic System for High Efficiency Air Separations.	
3:00 PM	BREAK			
	Air Separation Technologies to Assist Modular Gasification II			
3:30 PM	Idaho National Laboratory	Frederick Stewart	Advanced Oxygen Separation from Air Using a Novel Mixed Matrix Membrane	Venkat Venkataraman
4:00 PM	Los Alamos National Laboratory	Rajinder P. Singh	High Selectivity and High Throughput Carbon Molecular Sieve Hollow Fiber Membrane based Modular Air Separation Unit for Producing High Purity O2	
4:30 PM	North Carolina State University	Fanxing Li	Radically Engineered Modular Air Separation System Using Tailored Oxygen Sorbents	
5:00 - 7:30 PM	POSTER SESSION			

Wednesday 4/22	Session E - Conference Room: Sky			
	GASIFICATION SYSTEMS			
	Organization	PI	Title	Moderator
7:00 AM	REGISTRATION AND BREAKFAST			
7:30 AM				
	Enabling Technologies for Affordable Small Scale Gasifiers			
8:00 AM	TDA Research, Inc.	Gokhan Alptekin	Integrated Water-Gas-Shift (WGS) / Pre-Combustion Carbon Capture Process	Steven Markovich
8:30 AM	University of Kentucky Research Foundation	Landon Caudill	Staged Opposed Multi Burner (OMB) for Modular Gasifier/Burner	
9:00 AM	National Energy Technology Laboratory	Mark Smith	Microwave Reactions for Gasification	
9:30 AM	Research Triangle Institute	Atish Kataria	Advance Syngas Cleanup for Radically Engineered Modular Systems (REMS)	
10:00 AM	BREAK			
	Gasification with Mixed Feedstocks & Flexible Operations II			
10:30 AM	National Energy Technology Laboratory	Jinichiro Nakano	Advanced Manufacturing Technologies for Gasification	Steven Markovich
11:00 AM	Southern Research Institute	Mikhail Granovskiy	Small-Scale Engineered High Flexibility Gasifier	
11:30 AM	Mainstream Engineering Corporation	Nicholas Schwartz	Conversion of Coal Wastes and Municipal Solids Mixtures by Pyrolysis Torrefaction and Entrained Flow Gasification	
NOON	LUNCH			
12:30 PM				
	Gasification Approaches for 21st Century Needs Workshop I			
1:00 PM	<div>Panel Presentations</div> <div><div>- Workshop Goals - David Lyons</div><div>- Process Intensification for Syngas and Hydrogen (TBD)</div><div>- Air Separation Technology (TBD)</div><div>- Coal-Biomass to Liquids and Negative CO2 (Raghubir Gupta)</div></div>			
1:30 PM				
2:00 PM	<div>Breakout Sessions</div>			
2:30 PM				
3:00 PM	BREAK			
	Gasification Approaches for 21st Century Needs Workshop II			
3:30 PM	Report out by Session Leads			
4:00 PM	David Lyons		Final remarks	
4:30 PM				

**POSTER SESSION**

Program	Number	Organization	PI	Title	Agreement #
GASIFICATION SYSTEMS	GAS-1	University of South Carolina	Xingjian (Chris) Xue	Modularization of Ceramic Hollow Fiber Membrane Technology for Air Separation	FE0031473
	GAS-2	TDA Research, Inc.	Gokhan Alptekin	Warm Gas Multi-Contaminant Removal System	SC0008243
	GAS-3	National Energy Technology Laboratory	Justin Weber	Flexible Modular Vortex Gasifier for Deployable Power	ARS FWP