



Wednesday, May 23	
Presentation	Title/Presenter
01	Plenary Address: The challenges facing fossil-based electric power generation Angelos Kokkinos (Director of Advanced Fossil Technology Systems, Clean Coal and Carbon Management, Office of Fossil Energy, U.S. Department of Energy)
02	IDAES: Supporting advanced decision making Dr. John Shinn (IDAES Stakeholder Board Chair)
03	Advances in computational technology for process systems Dr. Carl Laird (Sandia)
04	IDAES: Capability overview Dr. David Miller (NETL)
05	Power Plants and Advanced Combustion Systems: Current Status and Future Opportunities Dr. Anthony Burgard (NETL) Prof. Debangsu Bhattacharyya (WVU)
06	Grid-level Modeling: Opportunities and Program Plan Dr. John Sirola (Sandia)
07	Conceptual Design of New Energy Technologies Prof. Ignacio Grossmann (CMU)
08	Introduction to Pyomo: The optimization foundation for IDAES Dr. John Sirola (Sandia)
09	Process Modeling - IDAES Integrated Approach Dr. Andrew Lee (NETL)
10	An advanced approach to integrated process optimization Prof. Larry Biegler (CMU)
11	Dynamic Modeling, Optimization and Control Dr. Bethany Nicholson (Sandia)
12	Machine learning approaches to properties and reaction models Prof. Nikolaos Sahinidis (CMU)
13	Making IDAES Products Available - Open Source Release Approach and Plans Keith Beattie (LBNL)
14	Demonstration: Jupyter Notebook/DMF: how to use the tools Dan Gunter (LBNL)



IDAES
Institute for the Design of
Advanced Energy Systems

**Stakeholder Workshop
Marriott Wardman Park
Washington, DC**

May 23-24, 2018

Posters/Demos

1. Power Plant Models – Tony Burgard
2. Machine Learning: Reaction Identification & Parameter Estimation (RIPE) – Zach Wilson
3. Machine Learning: HELMholtz Energy Thermodynamics (HELMET) – Marissa Engle
4. Simultaneous Parameter Estimation – Andrea Staid
5. Data Management Framework – Dan Gunter
6. Chemical Looping Process Modeling & Optimization – Chinedu Okoli
7. Optimal Materials Design – Chris Hanselman
8. Infrastructure Planning – Cristiana Lara
9. Conceptual Design – Qi Chen
10. Robust Optimization – Natalie Isenberg
11. Dynamics & Advanced Process Control – Bethany Nicholson
12. Parallel Computation – Carl Laird
13. Hardware-based Parallel Computation – Ben Sauk



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