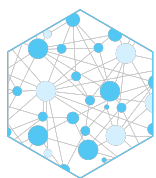


Wednesday, October 2	
8:30	Registration/Breakfast/Networking Discussions
9:00	Welcome and Overview Dr. David C. Miller (NETL)
9:15	Advanced Modeling Framework Dr. Andrew Lee (NETL), Prof. Debangsu Bhattacharyya (WVU)
9:35	Multi-scale Design & Optimization Dr. John Sirola, Prof. Chrysanthos Gounaris (CMU)
9:55	Flowsheeting & Data Management Framework (includes Jupyter) Dan Gunter
10:05	Dynamic Optimization & Control Prof. Larry Biegler (CMU), Dr. Bethany Nicholson (SNL)
10:25	Break/Poster Discussions: Fundamental IDAES Capabilities <i>See list next page</i>
11:30	Plenary Address: Crosscutting R&D Program Dr. Briggs White, Technology Manager for Crosscutting Research, NETL
12:00	Working Lunch: Discussion of Collaboration Opportunities Dr. John Shinn
12:45	Support for the Existing Coal Fleet & Demonstration Partnership Dr. Anthony Burgard (NETL), Prof. Debangsu Bhattacharyya (WVU)
1:15	Design and Optimization of Coal Plants of the Future Dr. Carl Laird (SNL), Dr. Chinedu Okoli (NETL)
1:30	Conceptual Design & Optimization Prof. Ignacio Grossmann (CMU)
1:45	Machine Learning & Surrogate Modeling Approaches for Optimization Prof. Nick Sahinidis (CMU), Dr. Oluwamayowa Amusat (LBNL)
2:05	Break/Poster Discussions: IDAES Applications and Demonstration <i>See list next page</i>
3:15	Grid & Infrastructure Modeling Dr. John Sirola (SNL), Prof. Alexander Dowling (ND)
3:35	IDAES Future Plans and Opportunities Dr. David Miller (NETL)
3:50	Open Source Release, Github & Issue Tracking Keith Beattie (LBNL)
4:00	Stakeholder Panel - Experience and Anticipated Applications for IDAES Dr. John Shinn
5:00	Social Hour/Networking – All Posters will be available Installation of IDAES for those wishing to take working code home
6:15	Working Dinner Dr. John Shinn



Thursday, October 3		
8:00	Registration/Breakfast/Networking Discussions	
	Introductory Tutorial	Advanced Tutorial
8:30	<i>Introduction and Initial Setup</i>	<i>Quick refresher on Module 1 and Module 2</i>
9:00	<i>Module 1: Using IDAES Unit Model Library</i>	<i>Module 3: Custom unit models in IDAES</i>
10:00	<i>Break</i>	<i>Break</i>
10:30	<i>Module 2: Flowsheet example and optimization</i>	<i>Demos:</i> 1. <i>Using the DMF with Module 2</i> 2. <i>Flowsheet visualization tool (maybe)</i>
11:45	<i>Conclusion and feedback</i>	<i>Conclusion and feedback</i>
12:00	Conclude	

Poster Discussions: Fundamental IDAES Capabilities @ 10:25 AM Wednesday

1. Unit Model Library and Process Flowsheeting (Andrew Lee)
2. Advanced Model Development (Miguel Zamarripa/Chinedu Okoli)
3. Robust Process Design (Natalie Isenberg)
4. Advanced Tools for Conceptual Design (Qi Chen/Michael Bynum)
5. Advanced Capabilities for Grid and Infrastructure Planning (John Siirola)
6. Process Dynamics and Advanced Process Control (Bethany Nicholson)
7. Real Time Optimization (Owais Sarwar/Nick Sahinidis)
8. Helmholtz Energy Thermodynamics (Marissa Engle)
9. Towards a Mathematical Optimization Toolkit for Nanoscale Materials Design (Chris Hanselman)
10. Advanced Dynamic Modeling for Fluidized Beds (Rob Parker/David Thierry)
11. Developer and User Support (Keith Beattie)

Break/Poster Discussions: IDAES Applications and Demonstration @ 2:05 Wednesday

12. Modeling and Optimization of Existing Fleet (Miguel Zamarripa)
13. Optimizing Opportunities for Power Grid Participation (Xian Gao/Alex Dowling)
14. Power Grid Participation and Planning Studies (Ben Knueven)
15. Design and Optimization of Chemical Looping Combustion Processes (Chinedu Okoli/Anca Ostace)
16. State-of-the-Art Modeling and Optimization of Electrolyte Systems (Paul Akula/Debangsu Bhattacharya)
17. Developer and User Support (Keith Beattie)