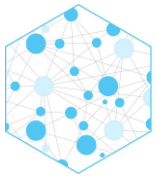


Monday, September 26, 2022	
6:00-9:00 PM	<b>Individual partnership discussions with IDAES leadership</b> <i>Details TBD</i>
Tuesday, September 27, 2022	
8:30	<b>Registration and Continental Breakfast</b>
9:00	<b>Welcome and Discussion of Meeting Agenda</b> John Shinn, Coordinator Stakeholder Advisory Board, IDAES
9:10	<b>DOE Keynote</b>
9:45	<b>IDAES Overview</b> David Miller, Technical Director, IDAES
10:15	<b>Morning Break</b>
10:45	<b>Optimization of Grid-Integrated Processes for Decarbonization</b> Speaker: Alex Dowling and John Sirola
11:05	<b>Integrated Energy Systems for Power and Hydrogen</b> Speaker: Anthony Burgard
11:25	<b>Flexible Carbon Capture for Dynamic Systems</b> Speaker: Jaffer Ghouse
11:45	<b>Mitigating Technical Risk with Robust Design and Uncertainty Quantification</b> Speaker: Chrysanthos Gounaris
12:05	<b>Application to Water Management, Treatment, and Desalination: WaterTAP and Pareto</b> Speakers: Timothy Bartholomew and Markus Drouven
12:30	<b>Lunch and Poster Session 1</b> Posters with team leads for in-depth technical discussions <b>Poster Flash Presentations during lunch</b> 1 slide, 1 minute presentations to provide an overview of posters
2:00	<b>Growth and Development of the IDAES Integrated Platform</b> Speakers: Andrew Lee and John Sirola
2:20	<b>User Interfaces and User Support</b> Speaker: Dan Gunter
2:40	<b>Surrogate Modeling for Improved Design and Operations</b> Speaker: Carl Laird
3:00	<b>Optimal Long-Term Expansion of Power Generation Systems</b> Speaker: Ignacio Grossmann
3:20	<b>Partner Applications</b> Speakers: <i>TBD</i>
3:40	Afternoon Break
4:00	<b>Stakeholder Panel</b> Panel speakers: <i>TBD</i> IDAES experiences, feedback, recommendations
5:00-9:00 PM	<b>Technical Poster Session and Reception</b> Hors d'oeuvres, No host bar
Wednesday, September 28th	
9:00-12:00 AM	<b>Individual Partnership Dialogues with IDAES Leadership</b> <i>Details TBD</i>



## Poster Topics

1. Managing Growth of the IDAES Integrated Platform – Keith Beattie
2. Process Modeling with IDAES – Andrew Lee
3. IDAES User Interfaces and Usability – Dan Gunter
4. Dynamic Model Convergence, Reliability, and Diagnostics – Bethany Nicholson
5. Process/Market Analysis of Low Carbon, Integrated Energy Systems for Power and Hydrogen – Tony Burgard
6. Dynamics and Control of SOEC-based Hydrogen Production System – Steve Zitney, Debangsu Bhattacharyya, Larry Biegler
7. Dynamic Degradation Modeling of Energy Systems – Debangsu Bhattacharyya
8. Multiperiod Generalized Disjunctive Programming Optimization in IDAES: Simultaneous Design and Operation of an Integrated Energy System – Soraya Rawlings
9. Optimal Approaches for Design and Deployment of Modular Process Families – Georgia Stinchfield, Carl Laird
10. Flexible Carbon Capture System Design and Operations – Jaffer Ghouse
11. Design of Flexible Systems for Enhanced Operability – Michael Bynum
12. Two-Stage Robust Optimization of Energy Systems Under Economic and Renewables Uncertainty – Jason Sherman, Natalie M. Isenberg, Xian Gao, Jaffer H. Ghouse, Alexander W. Dowling, John D. Sirola, Carl D. Laird, and Chrysanthos E. Gounaris
13. Enabling Process-Materials Co-Optimization Via Surrogate Modeling for Adsorption-Based Gas Separations – Xiangyu Yin, Larry Biegler, Chrysanthos E. Gounaris
14. AI / ML for Integrated Systems for Decarbonization – Nick Sahinidis
15. IDAES Capabilities for Integrated Process / Market Design and Operations – Alex Dowling
16. Optimal Expansion Planning of Reliable Power Generation Systems – Seolhoo Cho, Ignacio Grossmann
17. WaterTAP – Tim Bartholomew
18. PARETO – Markus Drouven
19. Process Optimization and Modeling for Minerals Sustainability (PrOMMiS) – Miguel Zamarripa, Ana Torres, Morgan Summers, Alison Fritz