

Start Time	End Time		Speaker	Affiliation
<b>Day 1 - Track 1</b>				
8:15 AM	8:30 AM	<b>Conference Introduction: Belma Demirel</b>		
8:30 AM	9:30 AM	Keynote Introduction: Jason Wu <b>Mike Pires, Air Products, "The Future is now... Hydrogen's role in the Energy Transition"</b>		
9:30 AM	9:50 AM	<b>Break</b>		
9:50 AM	11:30 AM	<b>Energy Storage I</b> Hakim Iddir, Juan Garcia		
9:50 AM	10:15 AM	<b>Enhancing Solid Polymer Electrolytes for All-Solid-State Batteries</b>	Ahmad Helaley	Washington University in St. Louis
10:15 AM	10:40 AM	<b>Predicting Energy Consumption in Lithium-Ion Gigafactories</b>	Kevin Knehr	Argonne National Laboratory
10:40 AM	11:05 AM	<b>Enhanced Performance of Lithium-Ion Batteries By Atomic Layer Deposition</b>	Xinhua Liang	Washington University in St. Louis
11:05 AM	11:30 AM	<b>Earth Abundant Elements Distribution and Domain Structure in Li-Rich Mn-Rich Based Cathode Materials</b>	Juan Garcia	Argonne National Laboratory
11:30 AM	12:45 PM	<b>Lunch - High School Outreach</b>		
12:45 PM	1:45 PM	Keynote Introduction: Hakim Iddir <b>Venkat Srinivasan, Argonne National Lab, "Status of Batteries for Transportation and Grid Decarbonization"</b>		
1:45 PM	2:00 PM	<b>Break</b>		
2:00 PM	3:15 PM	<b>Energy Storage II</b> Hakim Iddir, Juan Garcia		
2:00 PM	2:25 PM	<b>Assessing Particle Degradation in Thermochemical Energy Storage through Imaging</b>	Spenser Vasich	Michigan State University
2:25 PM	2:50 PM	<b>Upgrading Sustainable Materials into Specialized Flow Battery Chemistries</b>	Patrick Sullivan	Flux XII Inc.
2:50 PM	3:15 PM	<b>Negative Electrodes Performance of Lead-Acid Batteries: Analysis from Modeling Cyclic Voltammetry Responses</b>	Mohammed Effat	Argonne National Laboratory
3:15 PM	3:30 PM	<b>Break</b>		
3:30 PM	4:45 PM	<b>Fluid Properties, Fluid Dynamics, &amp; Transport Phenomena</b> Hadjira Iddir, Paul Vesely		
3:30 PM	3:55 PM	<b>Prediction of Densities in Fluidized Bed Strippers for Various Types of Internals</b>	Allan Issangya	Particulate Solid Research, Inc. (PSRI)
3:55 PM	4:20 PM	<b>Using Network Theory to Gain Novel Insights on Flow and Dynamics of Dense Suspensions: Node and Edge Centric Methods</b>	Alessandro d'Amico	Case Western Reserve University
4:30 PM	5:45 PM	<b>Poster Session</b>		
5:45 PM	7:30 PM	<b>AIChE Local Section Dinner</b>		
		Keynote Introduction: Jessica Morris <b>Karen Vilas, BakerRisk, "Leadership, Innovation, and the Pursuit of Legacy. From Chemical Engineer to FORTRESS Protective Buildings"</b>		

Start Time	End Time		Speaker	Affiliation
<b>Day 1 - Track 2</b>				
8:15 AM	8:30 AM	<b>Conference Introduction: Belma Demirel</b>		
8:30 AM	9:30 AM	Keynote Introduction: Jason Wu <b>Mike Pires, Air Products, "The Future is now... Hydrogen's role in the Energy Transition"</b>		
9:30 AM	9:50 AM	<b>Break</b>		
9:50 AM	11:30 AM	<b>Green Engineering</b> <b>Trevor Lardinois</b>		
9:50 AM	10:15 AM	<b>Validation of Passive Solar Dehydrator for Fruit Drying Applications: A Pineapple Study</b>	Katie Kuhn	Milwaukee School of Engineering
10:15 AM	10:40 AM		Ahmad Ijaz	Illinois Institute of Technology
10:40 AM	11:05 AM		Nitin Minocha	UIC
11:05 AM	11:30 AM		Rohan Sartape	UIC
11:30 AM	12:45 PM	<b>Lunch - High School Outreach</b>		
12:45 PM	1:45 PM	Keynote Introduction: Hakim Iddir <b>Venkat Srinivasan, Argonne National Lab, "Status of Batteries for Transportation and Grid Decarbonization"</b>		
1:45 PM	2:00 PM	<b>Break</b>		
2:00 PM	3:15 PM	<b>Process Safety I</b> <b>Jessica Morris, Zac Adesanya</b>		
2:00 PM	2:25 PM	<b>Important Characteristics of an Effective Process Safety Knowledge Management System</b>	Tekin Kunt	PSRG Inc.
2:25 PM	2:50 PM		Danielle Kittaka	Fauske and Associates
2:50 PM	3:15 PM		Trevor Lardinois	Exponent Inc
3:15 PM	3:30 PM	<b>Break</b>		
3:30 PM	4:45 PM	<b>Process Safety II</b> <b>Jessica Morris, Zac Adesanya</b>		
3:30 PM	3:55 PM	<b>Hazardous Area Classification</b>	Calvin Doty	Baker Risk
3:55 PM	4:20 PM		Sajjid Odeh	Baker Risk
4:30 PM	5:45 PM	<b>Poster Session</b>		
5:45 PM	7:30 PM	<b>AICHe Local Section Dinner</b>		
		Keynote Introduction: Jessica Morris <b>Karen Vilas, BakerRisk, "Leadership, Innovation, and the Pursuit of Legacy. From Chemical Engineer to FORTRESS Protective Buildings"</b>		

Start Time	End Time		Bio	Title
<b>Day 2 - Track 1</b>				
8:25 AM	8:30 AM	<b>Conference Introduction: Hadjira Iddir</b>		
8:30 AM	9:30 AM	Keynote Introduction: Hakim Iddir <b>Jeff Greeley, Purdue, "First principles treatments of heterogeneous electrocatalysis – reactivity trends and electrocatalyst structure"</b>		
9:30 AM	9:50 AM	<b>Break</b>		
9:50 AM	11:30 AM	<b>Advances in Refining / Materials</b> <b>Jason Wu, Nick Schulman</b>		
9:50 AM	10:15 AM	<b>Soap Removal from Crud Biodiesel Using Emulsion Liquid Membrane System</b>	Adeeb Hayyan	Universiti Malaya
10:15 AM	10:40 AM	<b>Integration of reconciliation infrastructure for refinery scheduling model tuning</b>	Sean R. Werner	ExxonMobil
10:40 AM	11:05 AM	<b>Metal-Organic Frameworks at Numat™: A Decade of Innovation, High-Tech Manufacturing, and Future Growth.</b>	William Morris	NuMat
11:05 AM	11:30 AM	<b>Petrochemical Transformation: Overcoming Challenges in the Olefins Industry with Naphtha to Ethane/Propane (NEP) Technology</b>	Robert Szczesniak	Honeywell UOP
11:30 AM	12:45 PM	<b>Lunch</b>		
12:45 PM	1:45 PM	Keynote Introduction: Jason Wu <b>Meenesh Singh, UIC, "Nitrogen Electrochemistry to Support DOE's Energy Earthshots"</b>		
1:45 PM	2:00 PM	<b>Break</b>		
2:00 PM	3:15 PM	<b>Machine Learning / Optimization I</b> <b>Mohammed Effat, David Neira</b>		
2:00 PM	2:25 PM	<b>Early Detection of Catalyst Transfer Pipe Plugging Using Temperature Signal Analysis</b>	Holly Butcher	Honeywell UOP
2:25 PM	2:50 PM	<b>Importance Learning Analysis of Ethylene Polymerization By a Single-Atom Cr/SiO<sub>2</sub> Catalyst</b>	Changhae Andrew Kim	University of Illinois Urbana-Champaign
2:50 PM	3:15 PM	<b>Logic-Based Discrete-Steepest Descent: A Solution Method for Process Synthesis Generalized Disjunctive Programs</b>	Albert Lee	Purdue University
3:15 PM	3:30 PM	<b>Break</b>		
3:30 PM	4:45 PM	<b>Machine Learning / Optimization II</b> <b>Mohammed Effat, David Neira</b>		
3:30 PM	3:55 PM	<b>Optimizing Reverse Electrodialysis Process for Renewable Electricity Generation from Salinity Gradient</b>	Carolina Tristan	Purdue University
3:55 PM	4:20 PM	<b>Graph-Based Representations and Applications to Process Simulation</b>	Yoel Cortes-Pena	University of Wisconsin-Madison
4:20 PM	4:45 PM	<b>A Water-Energy-Food Nexus Framework to Improve Resource Security</b>	Brenda Cansino Loeza	University of Illinois at Urbana-Champaign
4:45 PM	6:00 PM	<b>Happy Hour Hosted by CLS YP (all welcome)</b>		

Start Time	End Time		Bio	Title
<b>Day 2 - Track 2</b>				
8:25 AM	8:30 AM	<b>Conference Introduction: Hadjira Iddir</b>		
8:30 AM	9:30 AM	Keynote Introduction: Hakim Iddir <b>Jeff Greeley, Purdue, "First principles treatments of heterogeneous electrocatalysis – reactivity trends and electrocatalyst structure"</b>		
9:30 AM	9:50 AM	<b>Break</b>		
9:50 AM	11:30 AM	<b>Bioengineering and Nanotechnologies</b> <b>Meltem Demirtas, Wujie Zhang</b>		
9:50 AM	10:20 AM	<b>Long-Term Antibody Release Polycaprolactone Capsule and the Release Kinetics in Natural and Accelerated Degradation</b>	Thomas Waterkotte	University of Cincinnati
10:20 AM	10:50 AM	<b>High-Throughput Screening of <i>E. coli</i> Ghosts Against 314 G-Protein Coupled Receptors (GPCRs)</b>	Christopher Vidmar	University of Iowa
10:50 AM	11:20 AM	<b>A Wide Look at MXene-based CO2 Reduction Electrocatalysts: Pioneering Pathways for Green Formaldehyde Production</b>	Sixbert P. Muhoza	Argonne National Laboratory
11:30 AM	12:45 PM	<b>Lunch</b>		
12:45 PM	1:45 PM	Keynote Introduction: Jason Wu <b>Meenesh Singh, UIC, "Nitrogen Electrochemistry to Support DOE's Energy Earthshots"</b>		
1:45 PM	2:00 PM	<b>Break</b>		
2:00 PM	3:15 PM	<b>Catalysis I</b> <b>Aditya Prajapati, Shri Dawande</b>		
2:00 PM	2:25 PM	<b>Highly Selective and Stable Pt-Co Bimetallic Catalysts Prepared By Atomic Layer Deposition for Unsaturated Aldehyde Hydrogenation</b>	Kaiying Wang	Washington University in St. Louis
2:25 PM	2:50 PM	<b>Enzymatic Hydrolysis of 3-Monochloropropane-1,2-Diol Esters Using Deep Eutectic Solvents</b>	Adeeb Hayyan	University of Malaya
2:50 PM	3:15 PM	<b>Process Design, Scaling, and Integration of Catalytic Reactor and Separation Sections for Dehydration of Lactic Acid to Acrylic Acid</b>	Christopher P. Nicholas	Lakril Technologies Corporation
3:15 PM	3:30 PM	<b>Break</b>		
3:30 PM	4:45 PM	<b>Catalysis II</b> <b>Aditya Prajapati, Shri Dawande</b>		
3:30 PM	3:55 PM	<b>DFT Analysis of Surface-Bound Nitrogen Species Under N<sub>2</sub> Plasma Exposure</b>	Chang Yan	University of Notre Dame
3:55 PM	4:20 PM	<b>Structure and Tunable Nature of Heterogenized Molecular Catalysts Developed By Oxidative Grafting</b>	Jacklyn Hall	Argonne National Laboratory
4:20 PM	4:45 PM	<b>Two-Phase Reactors and Population Balance Models for Polymer Upcycling</b>	Changhae Andrew Kim	University of Illinois Urbana-Champaign
4:45 PM	6:00 PM	<b>Happy Hour Hosted by CLS YP (all welcome)</b>		