

Process Development Opportunities for our Changing Industries

The 2023 Process Development Symposium (PDS) is a place to exchange wisdom, knowledge, tips, and personal experiences in the development and scale-up of chemical and related processes. The PDS provides an opportunity for process development professionals from all across the world to discuss their experiences with novel and innovative technologies to trigger radical changes in next-generation processes development and operations featuring presentations from process development professionals. This symposium, planned jointly between AIChE and its Process Development Division, is held annually in June. This year's symposium will take place in Vancouver, Canada on June 13-15, 2023.

PROGRAM SCHEDULE*

Tuesday, June 13, 2023		
9:30 10:30	Registration Open/Plant Tour Check-In	
10:30 16:00	Coanda Plant Tour (Ticketed Event)	
17:30 19:30	Welcome Reception	

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	Wednesday, June 14, 2023
8:15 9:00	Registration (Open all day) & Breakfast
9:00 9:10	Chairmen's Introduction
	Day 1 Featured Keynote Presentation: Growing Energy Supply While Lowering
9:10 9:55	Carbon Intensity
	Chris Jablonski, Chevron
9:55 10:15	Break
10:15 11:45	Session : Scale-Up/Scale-Down and Commercialization
	Chair: Anastasios Skoulidas, ExxonMobil
	Co-Chair: Daniel Marple, Dow Performance Silicones
10:15 10:45	Scale-Down and Scale-up of a Slurry Mixing Process
	Richard Grenville, SPX FLOW INC
10.45 11.15	Never Let a Good Crisis Go to Waste: RAPID RACER AMPD and the Opportunity to
10:45 11:15	Accelerate Process Development – An Update
	Patricia Gillenwater, RAPID
	A Novel Zinc-Air battery Technology commercialization for Energy Storage
11:15 11:45	application
	Altamash Jauhar, e-Zinc
11:45 13:15	Lunch
13:15 14:45	Session: Process Intensification in Industry
	Chair: Patricia Gillenwater, RAPID
	Co-Chairs: Yamini Krishnan, Corteva; Simon Leyland, Siemens
13:15 13:45	Batch-to-Continuous Conversion of Substituted Alkyl Phenols
	Nasser Al Azri, The Lubrizol Corporation
13:45 14:15	Chemical Transformers and the Clean Hydrogen Grid
	Robert Wegeng, STARS Technology
14:15 14:45	Microwave Assisted Processing for Industrial Scale Material and Chemical Synthesis
14.15 14.45	Applications
	Robert Weiss, Malachite Technologies
14:45 15:15	Coffee Break
15:15 16:45	Session: Bioprocesses & Automation
	Chair: Anne Mohan, Merck
15:15 15:45	Assemblytron: Flexible Automation of DNA Assembly with Opentrons OT-2 Lab
13.13 13.43	Robots
	John Bryant, Virginia Tech
15:45 16:15	Coffee Break
16:15 17:30	Roundtable Discussion: Cutting Edge Technologies
	Chair: Anastasios Skoulidas, ExxonMobil

Wednesday, June 14, 2023		
17:30 19:00	Poster Session & Reception	
17:30 18:15	Poster Presentations	
POSTER	Demonstration of a Process Intensification Scenario for Producing Ammonia Synthesis Gas without an Air Separation Unit Using Soec Technology	
	Kristian Bek Helmig, Aarhus University	
POSTER	Utilizing Cross-functional Collaboration for the Successful Implementation of Commercial Scale-up	
	Daniel Marple, Dow	
POSTER	The Development of Predictive Models for the pH Value within Multi-Buffered Systems	
	Jivya Lamba, Modern School Vasant Vihar	
18:15 19:00	Reception	

Thursday, June 15, 2023	
8:15 9:00	Registration (Open half day) & Continental Breakfast
9:00 9:10	Chairmen's Summary of Previous Day's Discussions
9:10 9:55	Day 2 Morning Plenary Presentation: Opportunities for Process Development Engineers in Accelerating the Transport Sector Energy Transition Shyamal Bej, Shell
9:55 10:15	Break
10:15 11:45	Session: Innovative Solutions for Designing Sustainable Processes
	Chair: Gaurav Agrawal, Origin Materials Co-Chair: Santiago Faucher, Insight RND; Yamini Krishnan, Corteva; Rui Shi, Penn State; David Couling, Corteva; Pranav Karanjkar, Dow; Omid Ebrahimpour, e-Zinc
10:15 10:45	From industrial waste to potable water filter media: reimagining our use of wastes.
	Aurelio Stammitti, Ecomaterials
10:45 11:15	Sustainability in Modular Process Plants
	David Edwards, Zeton Inc
11:15 11:45	Applying Knowledge from Earlier Transitions for Developing Processes to Produce Sustainable Aviation Fuel
	Shyamal Bej, Shell
11:45 13:15	Lunch
13:15 14:45	Session: Innovation & New Technologies
	Chair: Aurelio Stammitti, Insight RND
	Co-Chair: Stephen Tieri, DuPont; Pranav Karanjkar, Dow
13:15 13:45	Utilizing Azeotropes & Solvent Recycle for Cost Effective Implementation on Batch 1
	David Couling, Corteva Agriscience
13:45 14:15	Thermochemical Production of Green Hydrogen or Syngas
	Britt Boughey, University of Colorado Boulder
14:15 15:30	Closing Break & Networking