

AIChE Process Development Division Fall Newsletter 2022



For more information, visit

<http://www.aiche.org/community/sites/divisions/process-development>

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Fall Newsletter Outline:

Welcome to the Fall 2022 edition of the Process Development Division Newsletter. As usual, our fall edition centers around activities planned at the Annual Meeting, scheduled for November 13 – 18 in Phoenix, AZ this year. You will find information on division specific activities as well as some general programming information. We hope you are planning to attend and that we'll see you there at the PDD events.

You will also find information on our fall PDD award winners, the upcoming 2023 Process Development Symposium, and other division highlights and opportunities to volunteer in division activities. Please consider becoming engaged in these opportunities, and if you are not a member, please consider joining our group.

Have a great fall, and we hope to see you in Phoenix or at the Spring meeting in Houston next year.

Please Join: Process Development Division (PDD)

The Process Development Division promotes networking and communication amongst engineers and scientists interested in process development. The division sponsors meetings, dinners, seminars, technical programming, and publications. The division provides a forum for the engineer and educator to exchange information and ideas related to process development. Please join or encourage your colleagues to join if they are not already members.

Chartered 2000, Annual Dues: \$10

2022 PDD Annual Meeting Events

PDD Leadership Meeting

Sunday, November 13, 4:00 – 5:00 PM

Phoenix Convention Center – N-223

<https://aiche.confex.com/aiche/2022/meetingapp.cgi/Session/50529>

PDD General Meeting

Monday, November 14, 6:00 – 7:00 PM

Phoenix Convention Center – W-101C

<https://aiche.confex.com/aiche/2022/meetingapp.cgi/Session/50528>

PDD Programming Meeting

Tuesday, November 15, 6:00 – 7:00 PM

Phoenix Convention Center – N-222A

<https://aiche.confex.com/aiche/2022/meetingapp.cgi/Session/50530>

PDD Dinner (Ticketed Event)

Wednesday, November 16

Mancuso's Restaurant

See more information on the following page

Division meetings are great places to get involved in division activities. Please attend or reach out to PDD leadership listed at the end of this newsletter if you are looking for opportunities to become more involved.

Process Development Division Dinner



Mancuso's Restaurant

201 E. Washington Street, Ste. 201
Phoenix, AZ 85004

Wednesday, November 16

Dinner 7:30 PM: Ticketed Event: \$75

Free Reception for PDD Members 6:30 – 7:30 PM

Please join us for an evening of dining and conversation within walking distance of the Convention Center. The dinner is always a PDD highlight of the AIChE meetings and is a great time to meet fellow members. This is a ticketed event. Tickets can be purchased through AIChE prior to the event or at the registration desk upon arrival. Seating is limited, so get your tickets early.

Process Development Division Awards

The following awards will be presented at the PDD Dinner at the Annual Meeting:

Excellence in Process Development Research Award Sponsored by Pfizer



Marianthi Ierapetritou



Dr. Ierapetritou is the Bob and Jane Gore Centennial Chair Professor in the Department of Chemical and Biomolecular Engineering at the University of Delaware. Her research focuses on process operations, design & synthesis of flexible production systems with an emphasis on pharmaceutical manufacturing, energy and sustainability process modeling and operations, and modeling of biopharmaceutical production.

PDD Student Paper Award Sponsored by The Linde Group



Song Wang



Dr. Wang is a postdoc from the Department of Forest Biomaterials, North Carolina State University. Song received his PhD in August 2021 from the Lamar University Chemical Engineering Department. His research areas cover process modeling, control, optimization, techno-economic analysis, and life cycle analysis for processes including fertilizers, oil refining, gasification, power plants, bio-economies, and biomass.

2023 Process Development Symposium



June 13 – 15, 2023

Vancouver, Canada

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 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 the Vancouver, Canada Hyatt Regency on June 13-15, 2023.

If you are interested in volunteering on the organizing committee or have ideas on improving the PDS, please contact PDS Liaison, Aaron Sarafinas (aaron@sarafinasprocess.com) or Cody Hirashima (codyh@aiiche.org).

Process Development Division

2022 Annual Meeting Technical Programming / Sessions

All times are Phoenix local time.

Sunday, November 13

[34 Panel Discussion: Chemical Process and Product Design Careers in Industry & Academia \(Invited Talks\)](#)

3:30 – 6:00 PM: Phoenix Convention Center N-224AB

[35 Process Intensification – Novel Technologies for Carbon Capture and Carbon Recycling](#)

3:30 – 6:00 PM: Phoenix Convention Center N-222A

Monday, November 14

[83 Environmentally Friendly Product and Process Development for Sustainability](#)

8:00 - 10:30 AM: Phoenix Convention Center N-221C

[720 RAPID Roadmapping: Critical Materials](#)

9:30 – 11:00 AM: Phoenix Convention Center N-221B

Sponsor: RAPID, Cosponsor: PDD 12E

[140 Physical Properties for Chemical Product and Process Design](#)

12:30 – 3:00 PM: Phoenix Convention Center N-222C

[141 Process Development: Design, Risk Reduction, Implementation and Operations](#)

12:30 – 3:00 PM: Phoenix Convention Center N-221C

Monday, November 14 - Continued

161 Laboratory and Pilot Plant Safety

3:30 – 4:30 PM: Phoenix Convention Center N-221C

209 Special Session In Honor of Dr Muthanna H. Al-Dahhan's 65th Birthday (Invited Talks)

3:30 – 6:00 PM: Phoenix Convention Center N-222A

732 RAPID Poster Session

5:00 – 7:00 PM: Phoenix Convention Center W-301A

Sponsor: RAPID, Cosponsor: PDD 12E

Tuesday, November 15

273 Facilities of the Future (Invited Talks)

8:00 – 10:00 AM: Phoenix Convention Center N-122C

Sponsor: Pharma Discovery, Development and Manufacturing Forum

Cosponsor: PDD 12B

274 Challenges and Best Practices in Technology Commercialization

8:00 – 10:30 AM: Phoenix Convention Center N-221C

275 Process Intensification - Novel Reactors

8:00 – 10:30 AM: Phoenix Convention Center N-222A

721 RAPID Roadmapping: Hydrogen

9:30 – 11:00 AM: Phoenix Convention Center N-226A

Sponsor: RAPID, Cosponsor: PDD 12E

Tuesday, November 15 - Continued

291 Renewable Polymers and Intermediates Technology

12:30 – 1:45 PM: Phoenix Convention Center N-221C

338 Process Intensification – Novel Reactors (Energy Focus)

12:30 - 3:00 PM: Phoenix Convention Center N-222A

359 Tools and Techniques for Sustainable/Green Product Design

3:30 – 4:45 PM: Phoenix Convention Center N-221C

412 Process Intensification – Novel Integration Concepts

3:30 – 6:00 PM: Phoenix Convention Center N-222A

Wednesday, November 16

464 Materials and Processes for Water Purification and Desalination I

8:00– 10:30 AM: Phoenix Convention Center N-222A

722 RAPID Roadmapping: Food

9:30 – 11:00 AM: Phoenix Convention Center N-221C

Sponsor: RAPID, Cosponsor: PDD 12E

516 Experiences in Teaching Process Safety

12:30 – 3:00 PM: Phoenix Convention Center N-221C

517 Materials and Processes for Water Purification and Desalination II

12:30 – 3:00 PM: Phoenix Convention Center N222A

537 Poster Session: Process Development

3:30 – 5:00 PM: Phoenix Convention Center North Hall E

2023 Spring Meeting

March 12 – 16

George R. Brown Convention Center
Houston, Texas

SPRING23
+19TH GCPS
A Joint AIChE and CCPS Meeting



The upcoming spring meeting will be held in Houston, Texas in March 2023. Mark your calendars and join us for another chance to meet and share ideas.

While you're at it, please consider submitting an abstract to present at one of the technical sessions. New submissions must be entered by Friday, November 11, 2022. <https://aiche.confex.com/aiche/s23/cfp.cgi>

IDEAL & Bylaws Review

As outlined in our summer edition, the division bylaws are under review for incorporation of AIChE IDEAL guidelines (Inclusion, Diversity, Equity, Anti-Racism, and Learning) as well as a general update to match current practices. The effort is being led by Kishori Deshpande and Mary am Ende, and the executive committee has recently been reviewing proposed changes. More information on these updates will be available to members soon.

PDD Fellows Nomination Committee

The division also kicked off a committee this summer to consider division members' contributions and identify those deserving of nomination to the level of AIChE Fellow. The committee's purpose is to encourage nomination of these individuals as well as to assist sponsoring division members who need help navigating the nomination process. If you have questions or suggestions for the committee, please reach out to Rob Nunley, Raymond Rooks, Joe Powell, or Mary am Ende, although there is no need to go through this committee to nominate someone for the level of Fellow if you are comfortable with the process.

PDD Volunteer Opportunity: Webmaster

Looking for an opportunity to volunteer in a position within the division? PDD currently has an opening for webmaster as Bob Huss is vacating the position. The position is to maintain our PDD website under the guidance of PDD leadership. The volunteer who is interested in this position with basic webpage design and maintenance experience is encouraged to contact the PDD Chair, Dr. Qiang Xu, for more details at Email: Qiang.xu@lamar.edu. This is an opportunity for the volunteer to sit on the division leadership team, learn about PDD leadership and management culture, and to support the division and all its members.

Process Development Division Leadership Team

	<p>Chair Qiang Xu Lamar University (409) 880-7818 Qiang.xu@lamar.edu</p>		<p>Chair Elect Kishori Deshpande Dow Chemical (979) 238-5868 KDeshpande@dow.com</p>
	<p>Fall Program Chair Vinod Kumar Venkatakrishnan Shell Oil Company (281) 544-7567 v.venkatakrishnan2@shell.com</p>		<p>Spring Program Chair Juben Chheda Shell Oil Company (281) 544-8232 Juben.chheda@shell.com</p>
	<p>Membership Chair Johnathan Lekse NETL (412) 386-7312 Jonathan.Lekse@NETL.DOE</p>		<p>Awards Chair Jay Miller Arkema (610) 359-2092 Jay.f.miller@gmail.com</p>
	<p>Treasurer Raymond Rooks MATRIC (304) 720-1037 Raymond.Rooks@matricinnovates.com</p>		<p>Webmaster Robert Huss Eastman Chemical Company (423) 229-6425 rhuss@eastman.com</p>
	<p>Past Chair Anthony Cartolano Retired arcartolano@gmail.com</p>		<p>Newsletter Editor Rob Nunley MATRIC (304) 720-6707 Rob.Nunley@matricinnovates.com</p>

2022 PDD Area Leadership

Area 12A - Process Research and Innovation		
Raymond Jian	Chair	rjian@sabic.com
Ben Yang	Chair Elect	xyang116@umd.edu
Mo Jiang	Area Coordinator	mjiang3@vcu.edu
James Marek	Past Chair	james.marek@abbvie.com
Area 12B - Pilot Plants		
Madhav Ghanta	Chair	madhav.ghanta@sabic-hpp.com
Pratik Bhishikar	Chair Elect	pbhishikar@zeton.com
Seeking Volunteer	Area Coordinator	
Mike Trainor	Past Chair	mtrainor@zeton.com
Area 12C/D - Technology Transfer and Manufacturing		
Ha Dinh	Chair	Ha.Dinh@honeywell.com
Michael Telgenhoff	Chair Elect	michael.telgenhoff@dow.com
Mrunmayi Kumbhalkar	Area Coordinator	mkumbhalkar@dow.com
Rob Nunley	Past Chair	rob.nunley@matricinnovates.com
Area 12E/F - Process Intensification and Microprocess Engineering		
Robert Broekhuis	Chair	rbroekhuis@sabic.com
Patrick Heider	Chair Elect	pheider@dow.com
Jing Luo	Area Coordinator	jluo2@dow.com
Matthaeus Siebenhofer	Past Chair	m.siebenhofer@tugraz.at
Area 12G - Product Design		
Mu Wang	Chair	wang.m.13@pg.com
Shaibal Roy	Chair Elect	shaibal.roy@fmc.com
Pranav Karanjkar	Area Coordinator	pranav.karanjkar@dow.com
Kishori Deshpande	Past Chair	kdeshpande@dow.com

2022 PDD Liaisons

Ahmed Youssef	YP Liaison	ahmed.youssef@sabic.com
Aaron Sarafinas	PDS Liaison	aaron@sarafinasprocess.com
Mary T. am Ende	CTOC Liaison	mary.t.amende@nalasengineering.com