

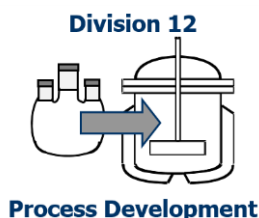
# AIChE Process Development Division Spring Newsletter 2018

For more information, visit

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

## In this issue

Message from the Chair	P.2
PDD Awards	P.2
2018 Process Development Symposium	P.3
2018 Spring Meeting – Need to know	P.4
PDD Spring Meeting '18 Programming	P. 5-6
2018 Spring Meeting – Topical Conference on Process Intensification	P.7
Annual Meeting '18 Call for Abstracts	P.8-9
PDD Area Leadership	P.10
PDD Leadership	P.11



# Message from the Chair

Hello Process Development Division (PDD) members!

I'm Bob Huss, the new Division Chair, for 2018-2019. Thanks very much to our Past Chair, Bill Hollar. He did a fantastic job leading the division, if you will be at the Spring meeting in Orlando, please thank him in person.

We held elections in the fall, and our new Chair-Elect is Tony Cartolano, who will be Chair 2020-2021. We also elected a new Treasurer, Raymond Rooks. All our Area Leadership has also changed, with the previous Chair-elects moving into the chair position, and new Area coordinators recruited. See page 9 for the full listing.

Welcome to the 2018 Spring edition of the AIChE PDD Newsletter. Please read through to see information on the Spring meeting coming up soon in Orlando, the now annual Process Development Symposium, and the 2018 Annual meeting in Pittsburgh. Note that the Call For Abstracts deadline for the fall meeting is just days away, April 18, which is earlier than previous years! Please consider submitting a paper.

Thanks for being a member of the Division, and your support. Please consider becoming more active in the division through our programming areas, or attending the PDS, or one of the national AIChE meetings. If you are interested in getting more involved in any way, please reach out to me, or anyone on our leadership team.

Best regards,

**Bob Huss**

**Process Development Division Chair**

## 2018 Process Development Awards

The PD Division is proud to announce that the winner for the **Process Development Practice award** for 2018 (Sponsor: Zeton Inc.) is:

**David Kolesar, The Dow Chemical Company (DowDupont)**

<https://www.aiche.org/profile/david-kolesar>

**To be announced:**

- **Excellence in Process Development Research Award** (Sponsor: Pfizer Inc.)
- **Student Award** (Sponsor: Eli Lilly & Company)

### Join Process Development Division (PDD)

The PD division promotes networking and communication among engineers and scientists interested in process development through meetings, seminars, courses, and publications. This division also organizes AIChE activities in the field, and materials with other related societies.

In addition, the PD division provides a forum for the engineer and educator to exchange information and ideas.

**Chartered: 2000, Dues: \$10**

### Interested in nominating yourself or a colleague for the following categories

- Excellence in Process Development Research Award
- Process Development Practice Award
- Process Development Division Student Paper Award

**Please fill out the Nomination form at**

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





## Applying New Technologies in Process Development

June 5-7, 2018

Hamburger University • Oak Brook, IL



**REGISTER BY APRIL 30 TO RECEIVE THE EARLY RATE.**

**T**he 2018 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. This symposium provides an opportunity for process development professionals from all across the country to discuss their experiences with novel and innovative technologies to trigger radical changes in next-generation processes development and operations.

Plan to attend PDS this June, in Oak Brook, IL and catch up on the latest process development advancements and network with colleagues involved in the industry.

### SESSION TOPICS INCLUDE:

- Process Intensification
- Modular Systems
- Case Studies
- Alternative Separations
- Chemical Modification - Processing Additives
- Computational Tools and Techniques
- Optimization and Process Simulation
- Challenges and Opportunities for Process Development

The Symposium will also include a welcome reception, poster reception, and the opportunity to visit nearby plant facilities.

For additional conference information and to register, visit [www.aiche.org/pds](http://www.aiche.org/pds).

For more information, contact Kevin G. Joback ([kevin@molecularknowledge.com](mailto:kevin@molecularknowledge.com))  
or Kelsey Kettelhut ([kelsk@aiiche.org](mailto:kelsk@aiiche.org))

## 2018 Spring Meeting – What you need to know

### Process Development Division (PDD) Dinner

The Process Development Division Dinner provides an excellent opportunity for networking. Plan to attend and become more engaged in the Division!

**When:** TUESDAY, APRIL 24, 2018  
**Time:** 6:00 – 7:00 PM (FREE Reception  
for PDD members)  
07:00 PM - 09:00 PM (Ticketed Dinner)  
**Where:** Orlando World Marriott - Hawk's Landing  
**Address:** 8701 World Center Dr, Orlando, FL 32821  
**Phone:** 1-407-238-8829  
**Cost:** \$70 per person



### Spring Meeting Highlights

- 2018 AIChE Spring Meeting and 14th GCPS Opening Reception
- Young Professionals Mixer
- Industry 4.0 Topical Conference
- Industry 4.0 Panel Discussion
- Expo Events
- Educating the Chemical Engineering Workforce on Cybersecurity Panel Discussion
- 2018 Spring & GCPS Monday Luncheon
- 2018 Spring & GCPS Tuesday Luncheon
- 2018 Spring & GCPS Wednesday Luncheon
- Disability Unity Community Convocation
- Unconscious Bias Featured Sessions
- 2018 Spring Meeting & 14th GCPS Poster Sessions & Cocktail Reception
- Sponsored Technology Workshops
- F&PD Panel Discussion – Shale Gas/Oil Impact on N. America
- 14th GCPS Welcome Plenary Keynote
- 2018 AGILE Award Keynote Address
- Ethylene Producers' Conference (EPC) Networking Luncheon

### The AIChEvents App is Now Available

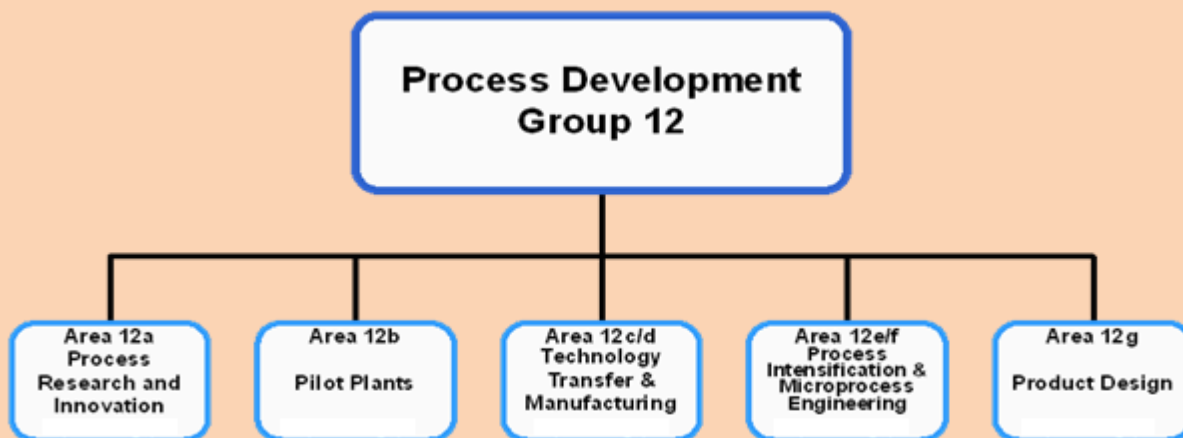
Put away your pen and paper. Everything you need to manage your time at the meeting is available on your phone or mobile device with the AIChEvents app.



### Featured Topical Conferences

- 4th Topical Conference on Big Data Analytics
- 6th International Conference on Upstream Engineering and Flow Assurance
- 18th Topical Conference on Gas Utilization
- 21st Topical Conference on Refinery Processing
- Distillation Symposium
- Innovative and Smart Manufacturing
- The 30th Ethylene Producers' Conference
- Sustainable Engineering
- Process Intensification
- Emerging Technologies in Clean Energy

## PDD Spring Meeting 2018 Programming



### **MONDAY, APRIL 23, 2018**

#### **01:30 PM - 03:00 PM:**

Division Plenary Session (Invited Talks), Orlando World Center Marriott - Atlanta

#### **03:30 PM - 05:00 PM:**

Challenges in Process Scale Up, Orlando World Center Marriott – Atlanta

Identifying Opportunities for Sustainability in Chemical Processes I, Orlando World Center Marriott – Chicago

#### **05:00 PM - 07:00 PM**

Poster Session: Process Development, Orlando World Center Marriott - Cypress Ballroom 1/2

### **TUESDAY, APRIL 24, 2018**

#### **08:00 AM - 09:30 AM**

Advances in Product/Process Design & Development I, Orlando World Center Marriott - Boston

Identifying Opportunities for Sustainability in Chemical Processes II, Orlando World Center Marriott - Chicago

Initiatives in Process Intensification and Modular Chemical Processing, Orlando World Center Marriott – Anaheim

Managing Project Start-Ups, Orlando World Center Marriott - Tampa

Pilot Plant and Laboratory Safety I, Orlando World Center Marriott - Atlanta

Industrial Strategies for Sustainability, Orlando World Center Marriott - Chicago

Smart Manufacturing, Orlando World Center Marriott - Grand Ballroom 4

## PDD Spring Meeting 2018 Programming Continued (1)

### **10:15 AM - 11:45 AM**

Advances in Product/Process Design & Development, Orlando World Center Marriott - Boston  
Distributed Chemical and Energy Processes for Sustainability, Orlando World Center Marriott - Chicago

Pilot Plant and Laboratory Safety II, Orlando World Center Marriott - Atlanta

Smart Manufacturing I, Orlando World Center Marriott - Grand Ballroom 4

Toll and External Manufacturing, Orlando World Center Marriott - Washington

### **01:30 PM - 03:00 PM**

Advance Process Concepts - Heat & Mass Transfer I, Orlando World Center Marriott - Anaheim

Advances in Product/Process Design & Development III, Orlando World Center Marriott - Boston

How Young Managers Can Successfully Manage Experienced Employees, Orlando World Center Marriott - Tampa

### **03:30 PM - 05:00 PM**

Advance Process Concepts - Heat & Mass Transfer II, Orlando World Center Marriott - Anaheim

Pilot Plant Success Stories, Orlando World Center Marriott - Atlanta

## **WEDNESDAY, APRIL 25, 2018**

### **08:00 AM - 09:30 AM**

Modeling Tools and Techniques for Process R&D, Orlando World Center Marriott - Boston

PI in Solids Handling/Processing, Orlando World Center Marriott - Anaheim

Pilot Plant Separations, Orlando World Center Marriott - Atlanta

### **10:15 AM - 11:45 AM**

Advance Process Concepts - Reactors and Reactive, Orlando World Center Marriott - Anaheim

Modeling Tools and Techniques for Process R&D, Orlando World Center Marriott - Boston

### **01:30 PM - 03:00 PM**

Advances in Manufacturing Enabling PI and MCPI, Orlando World Center Marriott - Anaheim

Biomass Conversion to Valuable Products I, Orlando World Center Marriott - Atlanta

Modeling Tools and Techniques for Process R&D, Orlando World Center Marriott - Boston

### **03:00 PM - 05:00 PM**

Biomass Conversion to Valuable Products II, Orlando World Center Marriott - Atlanta

Challenges in Education and Workforce Development for Process Intensification and Modular, Orlando World Center Marriott – Anaheim

Process Research and Development for Industrial Sustainability, Orlando World Center Marriott - Boston

## Spring Meeting 2018 - Topical C: Process Intensification

### **MONDAY, APRIL 23, 2018**

**03:30 PM - 04:30 PM**

RAPID Information Session and Meet & Greet, Orlando World Center Marriott - Anaheim

### **TUESDAY, APRIL 24, 2018**

**08:00 AM - 09:30 AM**

Initiatives in Process Intensification and Modular Chemical Processing, Orlando World Center Marriott - Anaheim

**10:15 AM - 11:45 AM**

Opportunities in Process Intensification - Industrial Perspective, Orlando World Center Marriott - Anaheim

**01:30 PM - 03:00 PM**

Advance Process Concepts - Heat & Mass Transfer I, Orlando World Center Marriott - Anaheim

**03:30 PM - 05:00 PM**

Advance Process Concepts - Heat & Mass Transfer II, Orlando World Center Marriott - Anaheim

### **WEDNESDAY, APRIL 25, 2018**

**08:00 AM - 09:30 AM**

PI in Solids Handling/Processing, Orlando World Center Marriott - Anaheim

**10:15 AM - 11:45 AM**

Advance Process Concepts - Reactors and Reactive Separation, Orlando World Center Marriott - Anaheim

**01:30 PM - 03:00 PM**

Advances in Manufacturing Enabling PI and MCPI, Orlando World Center Marriott - Anaheim

**03:00 PM - 05:00 PM**

Challenges in Education and Workforce Development for Process Intensification and Modular Processing, Orlando World Center Marriott - Anaheim



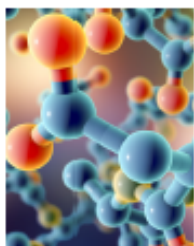
# 2018 Annual Meeting

October 28 - November 2, 2018, Pittsburgh, PA



OCTOBER 28 - NOVEMBER 2 • PITTSBURGH, PA

AIChE + Chemical Engineering:  
**TODAY, TOMORROW  
& LEADING THE FUTURE**



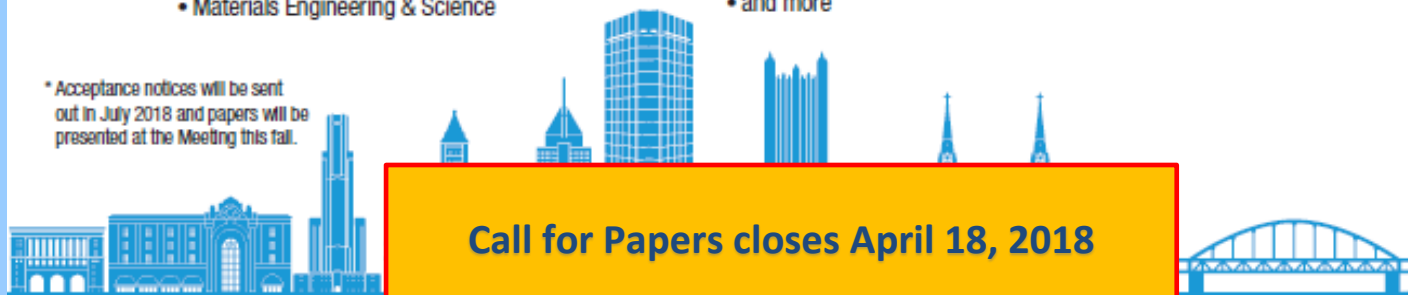
## CALL FOR ABSTRACTS NOW OPEN

Submit your abstract by **April 18**  
at [www.aiche.org/annual](http://www.aiche.org/annual).

Researchers and practitioners working in all areas of chemical engineering and related disciplines are invited to submit their abstract\* for presentation to share their research and knowledge at the **2018 AIChE® Annual Meeting in Pittsburgh, PA, October 28 - November 2.**

- Beer Brewing
- Bioengineering
- Catalysis & Reaction Engineering
- Computing & Systems Technology
- Education
- Electrochemical Fundamentals
- Energy, including Fossil, Solar, and Bioenergy
- Environmental Topics
- Forest & Plant Bioproducts
- Fluid Mechanics
- Fuels & Petrochemicals
- High Pressure
- Interfacial Phenomena
- Management
- Materials Engineering & Science
- Mixing
- Molecular Science & Engineering
- Nanotechnology & Nanomaterials
- Nuclear Engineering
- Particle Technology
- Pharmaceutical Engineering
- Process Development
- Process Intensification
- Sensors
- Separations
- Sustainability
- Thermodynamics & Transport Properties
- Transport & Energy Processes
- Upstream Engineering
- and more

\* Acceptance notices will be sent out in July 2018 and papers will be presented at the Meeting this fall.



**Call for Papers closes April 18, 2018**

FOLLOW US: #AIChEAnnual



# 2018 Annual Meeting

October 28 - November 2, 2018, Pittsburgh, PA



## Process Development Division tentative sessions and co-sponsored sessions:

3D Printing Applications

AIChE's 110 Year Celebration (Invited Talks)

Advances in Industrial Modeling & Optimization: Methodologies, Tools and Applications

Advances in Process Intensification

Best Practices in Pilot Plants

Panel Discussion: Chemical Process and Product Design Careers

Poster Session: Process Development

Risk Reduction in - and Implementation of - Process & Technology Development

3D Printing Fundamentals

Biobased Intermediates and Biomaterials

Cyber Security of Critical Infrastructure

Design, Construction, and Operation of Unit Operations Labs and Pilot Plants

Physical Properties for Chemical Process and Product Design

Process Intensification By Enhanced Heat and Mass Transfer

Industrial Internet of Things (IIoT) Applications and Success Stories

Innovative Approaches and Tools to Streamline Process Development

Pharmaceutical Process Development and Pilot Plants

Process Intensification By Process Integration

Separations Technology Innovations for New Product Design and Development

The Future of Energy in the Region, Nation and World (Invited Talks)

Process Intensification through the Application of Microreactors, Multiphase Reactors, and Membrane Reactors

Process Research for Improved Throughput & Efficiency, and Reduced Cost & Environmental Impact

Process Scale-up Techniques

Sustainable and Green Product Design

What the Heck Happened? Past, Present & Future Disruptions to the Chemical/Fuels Business (Invited Talks)

Crystallization Process Development

Tools for Product Design

Modeling, Control, and Optimization of Manufacturing Systems

Integrated Process Engineering and Economic Analysis

Process Intensification; an Industrial View: Past Successes and Failures and Future Path

Bioseparations and Downstream Processing

Materials and Processes for Thermo-, Electro- and Photo-Chemical Energy Storage

Workshop: Teaching Design (Products, Processes, and Industry Involvement)

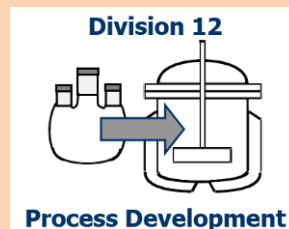
Process Control Strategies in Pharmaceutical Manufacturing I

Process Control Strategies in Pharmaceutical Manufacturing II

Process Control Strategies in Pharmaceutical Manufacturing III

Next Generation of Cyber Forces

# Process Development Area Leadership



	Chair	Chair Elect	Area Coordinator
<b>12A</b> Process Research & Innovation	Tom Xu DuPont Tom.Xu@dupont.com	James Marek James.marek@abbvie.com	Ray Jian rjian@sabic.com
<b>12B</b> Pilot Plants	Hsiang Yee Lai hsiang.lai@swri.org	Nitin Tople SABIC 412-576-4840 nitin.tople@sabic.com	Mike Trainor mtrainor@zeton.com
<b>12C/D</b> Technology Transfer & Manufacturing	Minghua Ye SABIC mye@sabic.com	Qiang Xu ChE Dept, Lamar University 409-880-7818 qiang.xu@lamar.edu	
<b>12E/F</b> Process Intensification & Microprocess Engineering	Shawn Feist Dow Chemical Company SFeist@dow.com	Matthaeus Siebenhofer m.siebenhofer@tugraz.at	Robert Broekhuis rbroekhuis@sabic.com
<b>12G</b> Product Design	Sitaraman Krishnan Clarkson University skrishna@clarkson.edu	Kishori Deshpande Dow Chemical Company kdeshpande@dow.com	Mu Wang wang.m.13@pg.com

## Process Development Symposium Liaison:

**Kevin G. Joback (kevin@molecularknowledge.com)**

## Process Development Division Leadership (2018-2019)

<b>Chair and Webmaster</b> 	<b>Robert Huss</b> Eastman Chemical Company Phone: 423-229-6425 E-mail: rhuss@eastman.com	<b>Chair Elect</b> 	<b>Anthony Cartolano</b> Anellotech Inc. E-mail: arcartolano@gmail.com
<b>Program Chair</b> 	<b>Joseph W. Schroer</b> SABIC Phone: 281.207.5601 Email: jschroer@sabic.com	<b>Membership Chair</b> 	<b>Adam Whalley</b> Zeton Inc. Phone: 905.632.3123 x235 Email: awhalley@zeton.com
<b>Assistant Program Chair</b> 	<b>Juben Chheda</b> Shell Oil Company Phone: 281 544 8232 Email: juben.chheda@shell.com	<b>Awards Chair</b> 	<b>Jay Miller</b> Phone: (610) 359-2092 Email: jmiller@gmail.com
<b>Treasurer</b> 	<b>Raymond Rooks</b> Praxair Email: Raymond_Rooks@praxair.com	<b>Newsletter Editor</b> 	<b>Vinod Kumar Venkatakrishnan</b> Shell Oil Company T: 281-544-7567 Email: v.venkatakrishnan2@shell.com
<b>Past Chair</b> 	<b>William Hollar</b> SABIC Phone: 812-831-4751 Email: william.hollar@sabic-ip.com	<b>YP Liaison</b> 	<b>Ahmed Youssef</b> SABIC E-mail: ahmed.youssef@sabic.com