# AIChE Process Development Division

## Spring Newsletter 2018

For more information, visit

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

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## In this issue

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message from the Chair</td>
<td>P.2</td>
</tr>
<tr>
<td>PDD Awards</td>
<td>P.2</td>
</tr>
<tr>
<td>2018 Process Development Symposium</td>
<td>P.3</td>
</tr>
<tr>
<td>2018 Spring Meeting – Need to know</td>
<td>P.4</td>
</tr>
<tr>
<td>PDD Spring Meeting ‘18 Programming</td>
<td>P.5-6</td>
</tr>
<tr>
<td>2018 Spring Meeting – Topical Conference on Process Intensification</td>
<td>P.7</td>
</tr>
<tr>
<td>Annual Meeting ’18 Call for Abstracts</td>
<td>P.8-9</td>
</tr>
<tr>
<td>PDD Area Leadership</td>
<td>P.10</td>
</tr>
<tr>
<td>PDD Leadership</td>
<td>P.11</td>
</tr>
</tbody>
</table>
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)

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

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
For more information, contact Kevin G. Joback (kevin@molecularknowledge.com) or Kelsey Kettelhut (kelsk@aiche.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
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
CALL FOR ABSTRACTS NOW OPEN

Submit your abstract by April 18 at www.aiche.org/annual.

Researchers and practitioners working in all areas of chemical engineering and related disciplines are invited to submit their abstracts 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
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

<table>
<thead>
<tr>
<th>Division</th>
<th>Area</th>
<th>Chair</th>
<th>Chair Elect</th>
<th>Area Coordinator</th>
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<tbody>
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<td>12A</td>
<td>Process Research &amp; Innovation</td>
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**Process Development Symposium Liaison:**

Kevin G. Joback (kevin@molecularknowledge.com)
# Process Development Division Leadership (2018-2019)

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<thead>
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