

# AIChE Process Development Division Annual Meeting Newsletter 2016

For more information, visit

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

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## Message from the Chair

Welcome to the Fall 2016 edition of the AIChE Process Development (PDD) Newsletter. The end of year 2016 is rapidly approaching and the 2016 Annual Meeting is only one month away.

Here are the main events for the PDD for the next nine months:

- The 2016 Annual Meeting in San Francisco will be held at the Hilton/Parc 55/Hotel Nikko.
- The 2017 Spring Meeting (including the 13th Global Conference on Process Safety) will be held March 26 – 30, 2017 in San Antonio.
- The 2017 Process Development Symposium will be held June 6 - 8 in Toronto, ON.

(Continued on p.2)

## Message from the Chair (Cont.)

Registration is still open for the Fall meeting. Please plan on joining our Division programming and/or general meetings if you would like to learn more about the Division or are interested in becoming more actively involved in the Division. We'll also be having our Division dinner – tickets for the dinner are available during the registration process or can be purchased separately. Details on the Division meetings and dinner are included in the newsletter.

As always, many thanks to all of you for your support and interest in the Process Development Division. While I will not be attending the Fall meeting, former chair John Peragine will be attending and is a great resource if you have questions or thoughts about the Division. If you have any other questions, thoughts, or suggestions about the PDD, please feel free to contact me at:

Email: [william.hollar@sabic.com](mailto:william.hollar@sabic.com)  
Phone: 812-431-0780

Best regards,

**Bill Hollar**  
**Process Development Division Chair**

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### **AICHE Constitution Amendments: Please Vote!**

The ballots for the Constitution election were mailed out October 1<sup>st</sup>. Paper ballots and brochures were mailed as well as emails. Members can vote either by submitting a paper ballot or by voting online. This year we also have another nice feature - it's a one click feature. Members need only to click on the link and their user name and member ID will be automatically entered so they do not have to login to vote; it takes them immediately to the ballot which saves time. They'll still have the ability to review the Constitution with the proposed revisions via links on the ballot.

Another resource is the AIChE website.

<http://www.aiche.org/about/governance/constitution/proposed-amendments>

### **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>

## **2016 Process Development Awards**

The PD Division is proud to announce that the winners for the following awards for 2016

**Excellence in Process Development Research Award:**  
**Prof. Qiang Xu**, Department of Chemical Engineering at Lamar University (Sponsor: Pfizer Inc.)

**Student Award:** **Gencer Emre**, Graduate Student Researcher in the Chemical Engineering Department at Purdue University (Sponsor: Eli Lilly & Company)

**DSM Award Finalist:**  
**Jeffery Lopez**, Stanford University

**Jouha Min**, Massecheussets Institute of Technology

**Deborah Schneiderman**, University of Minnesota

**Jacob Weiman**, University of Notre Dame

### **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**



# 2017 Process Development Symposium

## “Scaling Up Processes: Solving Common Challenges”

**June 6-8, 2017**  
**Toronto, ON, Canada**

### Overview

The 2017 Process Development Symposium (PDS) is going back to its roots with a focus on the chemical engineering basics. This year’s symposium will cover topics that are relevant to all industries that are served by chemical engineers and chemists. When chemical processing experts gather to discuss the solutions to chemical engineering challenges, the conversations are endless and the vibe is enthusiastic.

PDS is a meeting that specifically sets aside time to allow for communication and networking with fellow experts in industry and academia, along with a single track of presentation sessions. The symposium will feature speakers from the chemical engineering profession sharing their wisdom, knowledge, tips, and personal experiences related to process development.



**Register Today**  
Early Rate Ends May 1\*



### Technical Program Will Cover Topics Such As:

- Process to Commercialization
- Risk Mitigation
- Economic Evaluation
- Process Optimization
- Batch vs. Continuous
- Pilot Plants

### Plus, each registration provides access to:

- ⇒ Poster Reception
- ⇒ Networking Reception
- ⇒ Breakfasts, Lunches, Refreshments
- ⇒ Online Proceedings



**Learn more at [www.aiche.org/pds](http://www.aiche.org/pds)**



## Annual 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 Nov 15, 2016  
**Time:** 6:30 – 7:30 PM (FREE Reception)  
7:30 – 10:00 PM (Ticketed Dinner)  
**Where:** Restaurant LuLu, The Bis Room  
**Address:** 816 Folsom Street, San Francisco  
CA 94017  
**Phone:** 415.495.5775  
**Cost:** \$80 per person



### Bring a Young Colleague

*Are you looking for one more good reason to register for the 2016 AIChE Annual Meeting?*

**Here's one: you can bring a young colleague with you for half price.**

Simply invite a co-worker, friend or industry newcomer to join you at the Meeting. Your colleague can attend for 50% off the registration fee. That's a savings of \$300 or more.

You are welcome to bring any colleague who passes this simple "test":

- Your colleague is 35 or under
- Has never before attended the Annual Meeting
- And would benefit from attending the year's premier event for chemical engineers and the learning, networking

### AIChE Annual Meeting's Student Conference Nov 11-14, 2016

The Annual Student Conference is four days of career information, social events, competitions, and fun. Student engineers from more than 150 schools celebrate the Chemical Engineering profession, along with young professional members, AIChE leaders, and industry professionals

**Featuring:**

***ChemE Jeopardy Competition: 5:00-7:00PM (Nov 12)***

***Recruitment Fair: 9:00-4:00PM (Nov 13)***

***Chem-E Car Competition 12:30-3:30 PM (Nov 13)***

***Student Poster Competition 10:00-12:30 PM (Nov 14)***

### Annual Meeting Highlights

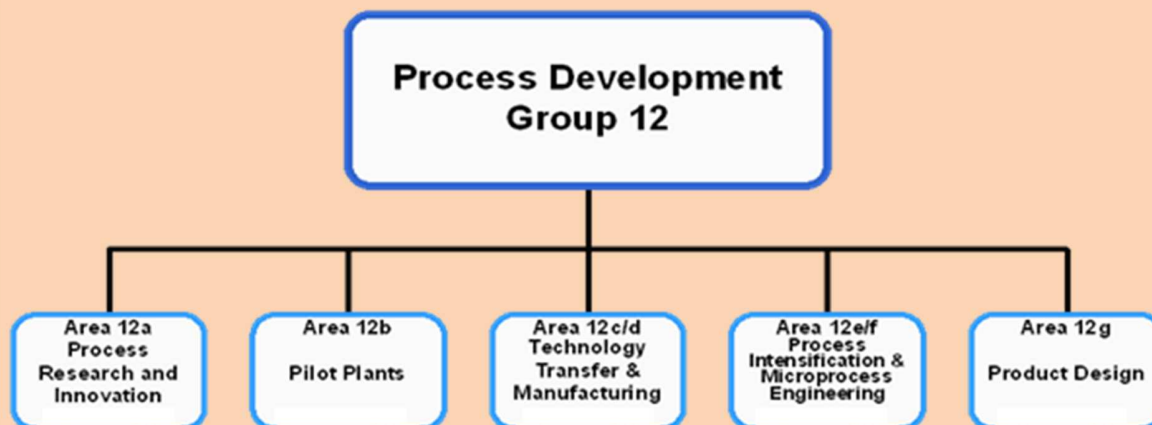
- Celebrate 2016 Award Winners
- John M. Prausnitz AIChE Institute Lecture
- Meet the Presidents
- 3D Printing
- Jump Start Process Safety Engineering Education: A How-To Workshop
- Poster Sessions
- Celebrating NorCal's 70th Anniversary

### Annual Meeting Highlights

- 2016 Sessions from the MPCs and Featured Lectures
- New Topical Conferences for 2016
- 2016 Chemical Engineers Impacting Society Sessions
- Recruitment Fair, Career Services Workshop



## PDD Annual Meeting 2016 Programming



### Sunday, November 13

#### Late PM

**#43 Panel Speakers Forum: Chemical Process and Product Careers in Academia vs. Industry**

**3:30 PM-6:00 PM,**

Hilton: Union Square 3 & 4

### Monday, November 14

#### Morning

**#65 Best Practices in Pilot Plants**

**8:00 AM-10:30 AM,**

Hilton: Union Square 5 & 6

**#80 Emerging and Improved Technologies in Petrochemicals**

**8:00 AM-10:30 AM,**

Hilton: Taylor

**#88 Industrial Innovation through Modeling and Optimization**

**8:00 AM-10:30 AM,**

Hilton: Union Square 3 & 4

**#111 Student Design Competition**

**8:30 AM-10:30 AM,**

Parc 55: Cyril Magnin II

#### Early PM

**#143 Design, Construction and Operation of Unit Operations Labs and Pilot Plants**

**12:30 PM-3:00 PM,**

Hilton: Union Square 5 & 6

**#169 Novel Engineering Approaches to Separations**

**12:30 PM-3:00 PM,**

Hilton: Union Square 3 & 4

**#177 Process Intensification**

**12:30 PM-3:00 PM,**

Nikko: Monterey I

# PDD Annual Meeting 2015 Programming Continued (1)

## Late PM

**#196 Altsep - Sustainable Separation Processes Roadmap Review (Invited Talks)**

**3:15 PM-5:45 PM,**

Parc 55: Cyril Magnin I

**#226 Pharmaceutical Process Development & Pilot Plants**

**3:15 PM-5:45 PM,**

Hilton: Union Square 5 & 6

**#238 Steal This Project!: Case Studies, in-Class Projects, Design Projects**

**3:15 PM-5:45 PM,**

Hilton: Continental 2

**#239 Sustainable and Green Product Design**

**3:15 PM-5:45 PM,**

Hilton: Union Square 3 & 4

## Tuesday, November 15

### Morning

**#286 Crystallization Process Development I**

**8:30 AM-11:00 AM,**

Parc 55: Cyril Magnin III

**#290 Energy and Chemical Process Design**

**8:30 AM-11:00 AM,**

Nikko: Carmel II

**#310 Physical Properties for Chemical Process and Product Design**

**8:30 AM-11:00 AM,**

Hilton: Union Square 3 & 4

**#311 Process Scale-up Techniques**

**8:30 AM-11:00 AM,**

Hilton: Union Square 5 & 6

### Early PM

**#328 Advances in Process Intensification**

**12:30 PM-3:00 PM,**

Hilton: Union Square 5 & 6

**#344 Crystallization Process Development II**

**12:30 PM-3:00 PM,**

Parc 55: Cyril Magnin III

**#374 Process Design I**

**12:30 PM-3:00 PM,**

Nikko: Monterey II

**#379 Sustainable Fuel from Renewable Resources**

**12:30 PM-3:00 PM,**

Hilton: Union Square 13

## PDD Annual Meeting 2015 Programming Continued (2)

### **#383 Tools and Techniques for Product Design**

**12:30 PM-3:00 PM,**  
Hilton: Union Square 3 & 4

### **Late PM**

### **#404 DSM Science and Technology Award (Invited Talks)**

**3:15 PM-5:45 PM,**  
Hilton: Union Square 3 & 4

### **#430 Process Design II**

**3:15 PM-5:45 PM,**  
Nikko: Monterey II

### **#431 Process Intensification by Process Integration**

**3:15 PM-5:45 PM,**  
Hilton: Union Square 5 & 6

## **Wednesday, November 16**

### **Morning**

### **#454 Advanced Treatment for Water Reuse and Recycling I**

**8:30 AM-11:00 AM,**  
Hilton: Union Square 14

### **#495 Process Intensification by Enhanced Heat and Mass Transfer**

**8:30 AM-11:00 AM,**  
Hilton: Union Square 5 & 6

### **#501 Technology Development: Design, Risk Reduction and Implementation**

**8:30 AM-11:00 AM,**  
Hilton: Union Square 3 & 4

### **Early PM**

### **#515 Alternative Fuels and Enabling Technologies I**

**12:30 PM-3:00 PM,**  
Hilton: Taylor

### **#522 Critical Quality Attribute Monitoring and Control in Drug Substance Manufacturing I**

**12:30 PM-3:00 PM,**  
Hilton: Continental 4

### **#532 Innovation via Process Intensification**

**12:30 PM-3:00 PM,**  
Hilton: Union Square 5 & 6

### **#553 Process Research and Development for Industrial Sustainability**

**12:30 PM-3:00 PM,**  
Hilton: Union Square 3 & 4

## PDD Annual Meeting 2015 Programming Continued (3)

### Late PM

**#564 Alternative Fuels and Enabling Technologies II**

**3:15 PM-5:45 PM,**

Hilton: Taylor

**#579 Critical Quality Attribute Monitoring and Control in Drug Substance Manufacturing II**

**3:15 PM-5:45 PM,**

Hilton: Continental 4

**#605 Process Intensification Workshop (Invited Talks)**

**3:15 PM-5:45 PM,**

Hilton: Union Square 5 & 6

**#618 Poster Session: Process Development**

**6:00 PM-8:00 PM,**

Hilton: Grand Ballroom B

### Thursday, November 17

### Late PM

**737 Innovations at the Product Design and Discovery Interface**

**3:15 PM-5:45 PM,**

Hilton: Continental 5

**742 Product Quality Attribute Monitoring and Control in Drug Product Manufacturing**

**3:15 PM-5:45 PM,**

Hilton: Continental 4

**751 Sustainability Metrics at the Process and Product Level**

**3:15 PM-5:45 PM,**

Hilton: Union Square 3 & 4



# 2017 Spring Meeting

March 26-30, 2017, San Antonio, TX

## PDD Tentative Sessions:

### 12000 Poster Session Process Development Division

#### 12A Process Research and Innovation

- 12A00 Modeling Tools and Techniques for Process R&D
- 12A00 Process Research and Development for Industrial Sustainability
- 12A00 Process Innovations for Increased Energy Saving

#### Pilot Plants (12B)

- 12B00 Challenges in Process Scale up
- 12B00 Tools and Best Practices in Pilot Plants
- 12B00 Pilot Plant Separations

#### Technology Transfer & Manufacturing (12C)

- 12C00 Technology Transfer: The Process and the Applications
- 12C00 Best Senior Design Competition
- 12C00 Innovations in and Next-Gen Heat Transfer Challenges

#### Process Intensification & Microprocess Engineering (12E)

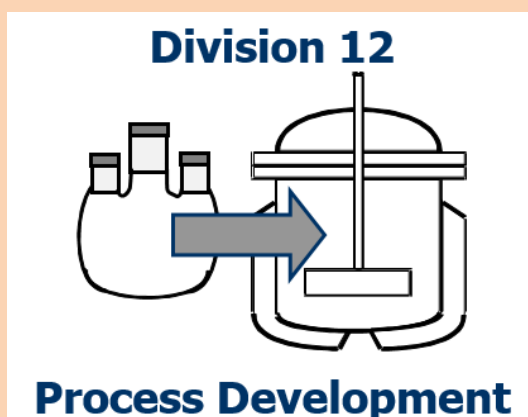
- 12E00 Reactive Separations and Other Intensified Unit Operations
- 12E00 Advances in Process Intensification
- 12E00 Process Intensification Tutorial

**Call for Papers closes October 31, 2016**



## Process Development Area Leadership

	<b>Chair</b>	<b>Chair Elect</b>	<b>Area Coordinator</b>
<b>12a Process Research &amp; Innovation</b>	Tom Enright Xerox Research 905-823-7091 x345 tom.enright@xerox.com	Tom Xu DuPont Tom.Xu@dupont.com	James Marek James.marek@abbvie.com
<b>12b Pilot Plants</b>	Oliver Orrell Zeton Inc. 905-632-3123 x264 oorrell@zeton.com	Hsiang Yee Lai hsiang.lai@swri.org	Nitin Tople SABIC 412-576-4840 nitin.tople@sabic.com
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<b>12e/f Process Intensification</b>	Pankaj Gautam SABIC T: 812 589 9495 Email: pankaj.gautam@sabic.com	Shawn Feist Dow Chemical Company SFeist@dow.com	Derek Griffin Lanza Tech 630-439-3054 Derek@lanzatech.com
<b>12g Product Design</b>	Mosha Zhao ExxonMobil Chemical Company T : 281-834-2626 Email:mosha.h.zhao@exxonmobil.com	Sitaraman Krishnan Clarkson University skrishna@clarkson.edu	Kishori Deshpande Dow Chemical Company kdeshpande@dow.com



## Process Development Division Leadership (2016-2018)

<p><b>Chair</b></p> 	<p><b>William Hollar</b> SABIC Phone: 812-831-4751 Email: <a href="mailto:william.hollar@sabic-ip.com">william.hollar@sabic-ip.com</a></p>	<p><b>Chair Elect</b></p> 	<p><b>Robert Huss</b> Eastman Chemical Company Phone: 423-229-6425 E-mail: <a href="mailto:rhuss@eastman.com">rhuss@eastman.com</a></p>
<p><b>Program Chair</b></p> 	<p><b>Joseph W. Schroer</b> SABIC Phone: 281.207.5601 Email: <a href="mailto:jschroer@sabic.com">jschroer@sabic.com</a></p>	<p><b>Membership Chair</b></p> 	<p><b>Adam Whalley</b> Zeton Inc. Phone: 905.632.3123 x235 Email: <a href="mailto:awhalley@zeton.com">awhalley@zeton.com</a></p>
<p><b>Assistant Program Chair</b></p> 	<p><b>Juben Chheda</b> Shell Oil Inc. (US) Phone: 281 544 8232 Email: <a href="mailto:juben.chheda@shell.com">juben.chheda@shell.com</a></p>	<p><b>CTOC Liaison / Government Relations</b></p> 	<p><b>Joseph Powell</b> Royal Dutch Shell Group Phone: 281-544-8976 Email: <a href="mailto:Joe.Powell@Shell.com">Joe.Powell@Shell.com</a></p>
<p><b>Treasurer</b></p> 	<p><b>David Edwards</b> Zeton Inc. Phone: (905) 632-3123 Email: <a href="mailto:dedwards@zeton.com">dedwards@zeton.com</a></p>	<p><b>Awards Chair</b></p> 	<p><b>Jay Miller</b> Phone: (610) 359-2092 Email: <a href="mailto:jmiller@gmail.com">jmiller@gmail.com</a></p>
<p><b>Newsletter Editor</b></p> 	<p><b>Nitin Tople</b> SABIC T: 812.831.4691 Email: <a href="mailto:nitin.tople@sabic-ip.com">nitin.tople@sabic-ip.com</a></p>	<p><b>Past Chair</b></p> 	<p><b>John F. Peragine</b> Bristol-Myers Squibb Phone: (732) 227-5688 Email: <a href="mailto:John.Peragine@bms.com">John.Peragine@bms.com</a></p>
<p><b>Webmaster</b></p> 	<p><b>Robert Huss</b> Eastman Chemical Company Phone: 423-229-6425 E-mail: <a href="mailto:rhuss@eastman.com">rhuss@eastman.com</a></p>		