Message from the Chair

Welcome to the Fall 2015 edition of the AIChE Process Development Division (PDD) Newsletter. Here are some highlights for the PDD in Fall 2015 and Spring 2016:

- The 2015 Annual Fall Meeting on Nov. 8-13th at the Salt Palace Convention Center in Salt Lake City, UT.
- The 2016 Spring Meeting (including the 12th Global Conference on Process Safety) on April 10-14th at the George R. Brown Convention Center in Houston, TX.

The Fall Meeting is only a few weeks away! Please register soon if you’re planning to attend. You’re welcome to attend our division meetings during the conference to learn more about the division and consider becoming involved in the technical programming or leadership of the Division. The general Division meeting is being held on Mon. Nov. 9th starting at 11:15 AM. Boxed lunches will be provided for the first 25 attendees.

(Continued on p.2)
Message from the Chair (Cont.)

Elections for division officers for the 2016-2018 term are being held. Voting for Division Chair-elect and Treasurer will be held this month via on-line balloting on the AIChE website. All division members will receive instructions through e-mail this month for completing the ballot. Election results are expected to be announced during the week of the Fall meeting. Elections for Area Chair-elects and Coordinators for the 2016-2018 term will be conducted at the Division programming meeting on Mon. evening Nov. 9th, starting at 5:45 PM.

A few years back, the division started a practice of having a free reception for division members, with beer/wine and snacks. At the Fall meeting this year, rather than having this reception in the convention hall, we’ll be having it at the restaurant where we’re having our dinner. This one hour reception will be located at Christopher’s Prime Steak House and Grill nearby the Salt Palace Convention Center, starting promptly at 5:45 PM on Tues. Nov. 10th. The dinner (ticketed event) will follow immediately after the reception, starting promptly at 6:45 PM. Please consider joining us for the dinner, where our annual student and process research awards will be presented. We’ll also be presenting the new DSM Science and Technology award at the dinner (along with a short presentation by the awardee). You can purchase tickets for the dinner when you register for the conference (or separately, if you’ve already registered).

Thanks to all for your interest and support of the Division. Bill Hollar, our current division Chair-elect, will be taking over leadership of the division for the 2016-2018 term. Likewise, the current Area Chair-elects will assume the Area Chair roles for the upcoming term. I’m looking forward to my new role as Past Division Chair in the new term. If you have any questions about the division, please feel free to e-mail me at John.Peragine@bms.com or call me at (732)-227-5688.

Best regards,

John Peragine

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/awards/awards-provisions-eligibility#division-forum-nomination

http://www.pd-aiche.com/awards.html (Student Award)

2015 Process Development Awards

The PD Division is proud to announce that the winners for the following awards for 2015

Process Development Practice Award: Mr. Bipin Vora who is retired from UOP (Sponsor Zeton)

Excellence in Process Development Research Award: Prof. Allan Myerson from the Chemical Engineering Department at Massachusetts Institute of Technology (Sponsor: Pfizer Inc.)

Student Award: Elcin Icten who is a Graduate Student Researcher in the Chemical Engineering Department at Purdue University (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
Each year our division sponsors the Process Development Symposium (PDS). The PDS is a very focused conference: it is limited to approximately 100 attendees; its sessions discuss primarily process development topics; almost all speakers and attendees are from industry. This year’s PDS was held this past June in Houston, Texas. The Symposium’s theme was “Emerging Trends in Process Research”. You can see more information about the 2015 PDS at http://www.aiche.org/conferences/process-development-symposium/2015.

Planning for the 2016 Process Development Symposium is now underway. Potential venues for the Symposium have been narrowed down to the Boston, Chicago or Philadelphia areas. The tentative dates are June 7th through June 9th. The general theme of the Symposium is being finalized but will emphasize topics addressing the need to develop processes that reduce water usage, energy usage and waste production especially as many companies transition to products and processes involving natural source materials and biological organisms.

If you are interested in helping organize the 2016 symposium, please contact Kelsey Kettelhut at kelsk@aiche.org.

Who should attend?
- Engineers and Managers Working on Product and Process Development
- Process Engineers
- Process Improvement Managers
- Researchers and Development Specialists
- Consultants

What to expect based on 2015 programming:
- Process Modeling and Optimization
- Career Growth / Leadership and Career Progression
- Process Intensification
- Best Practices in Managing Process Research
- Process Development Case Studies
- Process Research Fundamentals
- Designing Sustainable Process
- Pilot Plant in Process Research
- War Stories: An Interactive Discussion
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 10, 2015
Time: 5:45 – 6:45 PM (FREE Reception)
6:45 – 8:30 PM (Ticketed Dinner)
Where: Christopher’s Prime Steak House & Grill
Address: 134 W. Pierpont Ave, Salt Lake City
UT 84101 (Short walk from Convention)
Phone: 801.519.8515
Cost: $75 per person

Bring a Young Colleague

Are you looking for one more good reason to register for the 2015 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 6-9, 2015

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:

Student Poster Competition 9:00-12:30 PM (Nov 9)
Chem-E Car Competition 12:30-3:00 PM (Nov 8)
Recruitment Fair 9:00-4:00PM (Nov 8)
Multiple Student-Related Technical Session
http://www.aiche.org/conferences/annual-aiche-student-conference/2015

Annual Meeting Highlights

■ 67th Institute Lecture, Liang-Shih Fan
■ DOE Quadrennial Technology Review
■ 2015 Featured Lectures and Panels
■ Career Service Workshop
■ Salt Lake Chevron Refinery Site Tour
■ Process Safety Education: Meeting ABET Requirements and Industry Needs
■ Chemical Engineers Impacting Society Sessions

Annual Meeting Highlights

■ SBE’s James E. Bailey Award Lecture
■ IACChE’s James Y. Oldshue Lecture
■ D.I.C. Wang Award Lecture
■ 2015 Andreas Acrivos Award for Professional Progress in Chemical Engineering Lecture
ANNUAL MEETING – WHY??

The AIChE Annual Meeting is the premier educational forum for chemical engineers interested in innovation and professional growth. Academic and industry experts will cover wide range of topics relevant to cutting-edge research, new technologies, and emerging growth areas in chemical engineering.

THINGS TO DO WHILE IN SALT LAKE CITY ...

Plan on spending a good chunk of your time exploring Temple Square, the official headquarters of the Mormon Church. This walled neighborhood at the heart of Salt Lake City hosts spectacular religious buildings such as the Salt Lake Temple as well as lush gardens and soaring sculptures. But there's more to do: The Great Salt Lake provides a spectacular setting for hiking & picnicking, while nearby Wasatch National Forest is cross-hatched with scenic trails.

WHAT TO DO?

Temple Square: Temple Square's three-block plaza is home to nearly 20 attractions related to the Church of Jesus Christ of Latter-day Saints. Travelers recommend taking a free, guided tour of the square. It's anchored by the towering Salt Lake Temple — where, among other things, weekly meetings of the church's governing bodies are held — and other fascinating buildings like the expansive Tabernacle and the Gothic-style Assembly Hall, which offer insight into the history and development of the Mormon church.

Salt Lake Public Library: Whether you like to read or look at beautiful architecture, the stunning and contemporary Salt Lake City Public Library could be worth your while. Located in the downtown area, the library has more than 500,000 books and plenty of cozy corners ideal for hunkering down with a good story.

Great Salt Lake: Clocking in at approximately 1,700 square miles, the Great Salt Lake is the largest natural lake west of the Mississippi River. The lake's name comes from the nature of the water: The evaporation process (the only exit available for the lake's water) leaves behind salty mineral deposits.

WHAT TO EAT?

Red Iguana: Buzzy, family-run Mexican cafe specializing in mole & also serving traditional & gluten-free fare.

Valter's Osteria: Upscale, white-tablecloth Italian restaurant set in loftlike surroundings with a bar & open kitchen.

Bombay House: Acclaimed eatery serving traditional Indian cuisine, beer & wine in an intimate, mural-filled space.

Takashi: Takashi pushes the envelope of contemporary Japanese cuisine, presenting unrivaled sushi and sashimi along with innovative small plates and hot entrees in a memorable downtown setting.
Monday, November 9

**Morning**

# 83 Physical Properties for Chemical Process and Product Design  
8:30 AM-11:00 AM  
Marriott: Salon I

# 88 Process Reengineering for Energy Saving and Pollution Prevention  
8:30 AM-11:00 AM  
Marriott: Salon J

# 91 Sustainable Chemicals: Advances in Innovative Processes  
8:30 AM-11:00 AM  
Salt Palace CC: 255E

Process Development Division General Meeting  
11:15 AM - 12:00 PM  
Marriott: Salon J

**Early PM**

# 131 Development of Water Treatment Processes  
12:30 PM-3:00 PM,  
Marriott: Salon J

# 170 Sustainable Fuels: Advances in Innovative Processes  
12:30 PM-3:00 PM  
Salt Palace CC: 255E

# 173 Tools for Product Design  
12:30 PM-3:00 PM  
Marriott: Salon I

**Late PM**

# 223 PAT for Crystallization Development and Manufacturing  
3:15 PM-5:45 PM  
Marriott: Salon J

# 235 Sustainable and Green Product Design  
3:15 PM-5:45 PM  
Marriott: Salon I
PDD Annual Meeting 2015 Programming Continued (1)

# 237 Undergraduate Research Forum III: Classical Chemical Engineering/Other Special Topics
3:15 PM-5:45 PM,
Salt Palace CC: Ballroom H

# 249 Poster Session: Innovations in Process Development
6:00 PM-8:00 PM,
Salt Palace CC: Exhibit Hall 1

Late PM
# 223 PAT for Crystallization Development and Manufacturing
3:15 PM-5:45 PM,
Marriott: Salon J

# 235 Sustainable and Green Product Design
3:15 PM-5:45 PM,
Marriott: Salon I

# 237 Undergraduate Research Forum III: Classical Chemical Engineering/Other Special Topics
3:15 PM-5:45 PM,
Salt Palace CC: Ballroom H

# 249 Poster Session: Innovations in Process Development
6:00 PM-8:00 PM,
Salt Palace CC: Exhibit Hall 1

Tuesday, November 10

Morning
# 265 Advances in Process Intensification
8:30 AM-11:00 AM,
Marriott: Salon I

# 297 Innovation without Borders: The Challenges of Managing Innovation, IP, and Product Development with International Teams and Partners
8:30 AM-11:00 AM,
Marriott: Deer Valley I/II

# 313 Process and Product Design: Innovation for Sustainability I
8:30 AM-11:00 AM,
Salt Palace CC: 259

# 314 Process Intensification By Process Integration
8:30 AM-11:00 AM,
Marriott: Salon J

Early PM
# 354 Innovation, Scale-up, and Technology Commercialization
12:30 PM-3:00 PM,
Marriott: Salon I

# 370 Process Intensification By Enhanced Mass and Heat Transfer
12:30 PM-3:00 PM,
Marriott: Salon J

# 374 Sustainability in Facility Siting
12:30 PM-3:00 PM,
Salt Palace CC: 259
PDD Annual Meeting 2015 Programming Continued (2)

Late PM
# 394 Crystallization Process Development
3:15 PM-5:45 PM,
Salt Palace CC: 155D

# 397 DSM Science and Technology Award (Invited Talks)
3:15 PM-5:45 PM,
Marriott: Salon I

# 435 Sustainable Fuel from Renewable Resources
3:15 PM-5:45 PM,
Salt Palace CC: 255E

Wednesday, November 11

Morning
# 447 Advances in Fluid Particle Separation
8:30 AM-11:00 AM,
Salt Palace CC: 252A/B

# 456 Carbon Dioxide Capture Technologies and Its Use
8:30 AM-11:00 AM,
Salt Palace CC: 255E

# 466 Emerging Technologies for Sustainable Food Production
8:30 AM-11:00 AM,
Salt Palace CC: 259

# 468 Ensuring Safe Process Scale up
8:30 AM-11:00 AM,
Marriott: Salon I

# 492 Process Improvement and Innovation Via Intensification
8:30 AM-11:00 AM,
Marriott: Salon J

Early PM
# 529 Experiences in International Assignments
12:30 PM-3:00 PM,
Marriott: Deer Valley I/II
# 531 Fluid Particle Separation in Energy, Water and Environmental Systems
12:30 PM-3:00 PM,
Salt Palace CC: 252A/B

# 552 Pharmaceutical Process Development and Pilot Plants
12:30 PM-3:00 PM,
Marriott: Salon I

# 554 Process Development Innovations for Sustainable Food Production
12:30 PM-3:00 PM,
Salt Palace CC: 259

# 555 Process Intensification
12:30 PM-3:00 PM,
Marriott: Salon D
PDD Annual Meeting 2015 Programming Continued (3)

# 556 Process Research and Development for Industrial Sustainability
12:30 PM-3:00 PM,
Marriott: Salon J

Late PM
# 577 Challenges in Small-Scale Synthesis - Pilot Plants
3:15 PM-5:45 PM,
Marriott: Salon I

# 626 Poster Session: Sustainable Food Production
6:00 PM-8:00 PM,
Salt Palace CC: Exhibit Hall 1

Thursday, November 12

Late PM
# 746 Product Quality Attribute Monitoring and Control in Drug Substance Manufacturing
3:15 PM-5:45 PM,
Salt Palace CC: Ballroom B

# 752 Sustainability Metrics at the Process and Product Level
3:15 PM-5:45 PM,
Salt Palace CC: 255F
PDD Tentative Sessions:
12A Process Research and Innovation
Process Research and Development for Industrial Sustainability
Best Practices in Process Research and Innovation
Pilot Plants (12B)
T2000 Pilot Plants and Scaling up (Co-sponsor)
12B00 Design, Construction and Operation of Unit Operations Labs and Pilot Plants

Technology Transfer & Manufacturing (12C)
T2000 Enabling Process Innovation through Computation: Focus on Optimization (Co-sponsor)
T2000 Innovations in- and Next Gen.- Heat Transfer Technologies (Co-sponsor)
12C00 Best Senior Design Competition
12C00 Technology Transfer: The Process and Applications

Process Intensification & Microprocess Engineering (12E)
T2000 Innovations in- and Next Gen.- Heat Transfer Technologies (Co-sponsor)
T7000 Process Intensification of Divided Wall Column (Co-sponsor)
12E00 Best Practices in Process Intensification

Product Design (12G)
12G00 Designing Inherently Safer Chemical Products
12G00 Inhibitor, Additives, and Petroleum Products: Designing, Formulating,

Topical 2: Innovations in Process Research and Development
Process Research and Development for Industrial Sustainability
Best Practices in Process Research and Innovation
Pilot Plants and Scaling Up
Innovations in- and Next Gen.- Heat Transfer Technologies
Enabling Process Innovations through Computation: Focus on Optimization
From Biomass to Valuable Products
Case Studies in Process R&D
Enabling Process Innovations through Computation: Focus on Modelling Effort
Advance Technologies for reduction in Atmospheric Emissions in Petrochemical and Refining

Call for Papers closes November 2, 2015
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