

AIChE Process Development Division

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Spring 2011



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Message from the Chair

The 2011 Spring Meeting in Chicago is quickly approaching (March 13-17). Process Intensification is dominating this year's sessions with most sessions being devoted to the area. This illustrates the increasing interest in reducing capital and energy costs by combining unit operations. In addition, we continue with the time honored "Best Practices" session and a new session in "Energy Systems Design". There are also 2 co-sponsored sessions, including the keynote session from 10:30 am-noon on Monday. I encourage you to attend these sessions.

The Process Development Division has taken the lead in our first international conference, which is co-sponsored by AIChE & DECHEMA. The conference takes place June 5-8 in Hong Kong. It is titled "Global Conference on Energy Sustainability in the Process Industries" (ESPI) and will address the increasing emphasis on energy sustainability, which is a key challenge. The speakers at the conference are from a range of companies, including Siemens, Bayer, Linde, and Mitsubishi Chemical. Sponsorship opportunities are still available. For more information go to: <http://www.aiche.org/conferences/specialty/ESPI.aspx>.

2011 represents the second decade since founding the Process Development Division. For those of you were who were able to attend the reception in Salt Lake City, it was great meet you, for the first time, or as old acquaintances. Per suggestion of David Attride, we had a general meeting (with lunch supplied) structured to introduce new people to the division and to the opportunities of division leadership, and it worked out well. Due to its success, we plan to repeat it in Minneapolis, hope you can attend.

At the SLC meeting, the leadership team voted to combine 12C (Technology Transfer) and 12D (Manufacturing) into one area. This was approved by CTOC, which oversees the division programming. This will strengthen programming, and it is a natural fit between the areas. In addition, it was recently decided to change the title of each area Activities Chair to Area Coordinator. In this position, future area leadership can be developed. With great appreciation, I welcome Bob Huss to the position of Assistant Programming Chair to give Joe Powell much needed help. Programming is the most important activity in the division, and is vital to have strong leadership in this area.

The division dinner in Chicago will be at Quartino, on March 15th. Please register for this dinner early (a limited number of seats can fill up quickly). The leadership meeting will be on Sunday, March 13th from 5-6 pm. The division area meetings will be on Tuesday, March 15th from 5-6 pm, before the division dinner. The meeting rooms haven't been announced yet, please look at the event schedule.

We conduct division elections for both Chair-Elect and Treasurer in odd years, which means that we are looking for candidates to be on the ballot. The election will be conducted online, the winners will be announced in at the Annual Meeting. If you are interested in running, please contact me. Michael Hill, the current chair-elect will take over after the Annual Meeting, I will then take the position of Past Chair.

Raymond Rooks (raymond_rooks@praxair.com, 716-879-7447)

Process Development Division Chair

DID YOU KNOW? (fun facts about Chicago)

1. More than 46 million people visited Chicago in 2010!
2. Chicago was incorporated as a city in 1837
3. Chicago's nicknames include: The Windy City, the City of Big Shoulders, the Second City, and The City That Works
4. The "Historic Route 66" begins in Chicago at Grant Park on Adams Street in front of the Art Institute of Chicago
5. The Chicagoland area contains nearly 10 million people in three states – Illinois, Wisconsin and Indiana – and is the 22nd largest metropolitan area in the world
6. Chicago is home to eleven Fortune 500 companies, while the rest of the metropolitan area hosts an additional 21 Fortune 500 companies
7. McCormick Place, Chicago's premier convention center, offers the largest amount of exhibition space in North America (2.2 million square feet)
8. The first Ferris wheel made its debut in Chicago at the 1893 World's Columbian Exposition. Today, Navy Pier is home to a 15-story Ferris wheel, modeled after the original one
9. Chicago's downtown area is known as "The Loop." The nickname refers to the area circled by the elevated ('L') train tracks
10. Four states are visible from the Skydeck Chicago (formerly the Sears Tower Skydeck). Indiana, Illinois, Michigan & Wisconsin

Process Development Division Announcements



AIChE-DECHEMA Global Conference

The program for the upcoming "AIChE-DECHEMA (German Chemical Engineering Society) Global Conference on Engineering Sustainability in the Process industries" (or ESPI for short) is rapidly taking shape with 17 speakers of an anticipated 24 speakers now confirmed. This conference represents the first in what both societies hope will be a series of international conferences on emerging issues critical to chemical engineering and chemical engineers and directly developed from a proposal of your Process Development Division.

The following link lists most of these speakers

(<http://aiche.confex.com/aiche/esp11/webprogram/meeting.html>) . The speakers represent a balanced mix of academics and industry which is typical for process development work. Currently there are speakers from China, Hong Kong, Japan, Germany, Malaysia and the US . Major companies represented include Mitsubishi, Bayer, and Siemens to name just a few. Universities and research centers from China and Hong Kong, Malaysia, Japan, Europe and the US are also represented. The conference will be formatted to allow plenty of time for delegates to interact both formally (through a panel session and ample Q&A time) as well as in informal breakfasts, receptions and networking meals.

The conference venue is the Hong Kong University of Science and Technology (HKUST) which is rapidly emerging as one of Asia's premier schools for science and technology. The HKUST's (see http://en.wikipedia.org/wiki/Hong_Kong_University_of_Science_and_Technology)conference facilities are first class and the campus looks like it's worth a visit just for the view. The conference will arrange for free bussing to a central four ★ hotel (information will be posted shortly). Although delegates can stay at any facility they choose the anticipated room night price of about \$130 US (total cost including service charge....no tax in Hong Kong) and free transportation and chance for increased interaction with other delegates should make this an attractive option.

There are many flight options with the base

cost for a round trip flight from New York being around \$1,200 and no visas are required for travel between the US and Hong Kong. The best conference rate for members is \$750 (this covers all conference materials, free bussing from the principal hotel and a lot of free food and drink as well). The basic cost for a US attendee will be on the order of \$3,000. While this may be \$1,000-\$1,200 more than the cost of attending an AIChE Spring or Annual meeting it will expose attendees to an entirely new set of people and ideas. Please read the right hand side panel for more information.

In addition there are opportunities for those companies looking to expand activities in Asia to get greater attention by becoming sponsors

(http://www.aiche.org/uploadedFiles/Conferences/Specialty/PDS/2011/5718_DECHEM_A%20SponsorForm.pdf) . For those who want more information, just e-mail Dr. Joe Cramer on AIChE staff at programming@aiche.org or call him at 646-495-1365.

Call for Papers

AIChE Process Development Division-12 is proposing or co-sponsoring a number of sessions at the 2011 Annual Meeting in Minneapolis, covering a wide range of topics of interest to industry and academia. Please consider presenting a paper for one of these sessions, and /or forward to interested colleagues! And please get involved via the PDD-12 Division meetings at both the Spring and Fall meetings, announced with the Ancillary Meetings list (on-line, or at registration desk).

Call for papers:

<http://aiche.confex.com/aiche/2011/cfp.cgi>

Call for papers is open until May 2, 2011.

Submitted by:

Joe Powell <Joe.Powell@Shell.com>

Global Conference on Energy Sustainability in the Process Industries (ESPI)

The Improving energy efficiency and reducing CO2 emissions have always been objectives in any process and product design. However, they have typically been considered secondary to overall process economics. Today, with climate change concerns and diminishing natural resources, these design objectives have become a principal consideration. Mindful of ever-increasing driving forces for continued improvements in the global standard of living, this conference will focus on emerging technologies and the potential for new directions in engineering to support these advancements. Furthermore, the needs and incentives of various countries and government organizations in support of this work will be discussed in order to arrive at the best global engineering solutions.

The program of this conference is organized in 6 sessions. Four of the sessions will deal with energy efficiency for traditional fossil and renewable fuels while one session will focus on policy positions in Asia, Europe and the Americas. Prominent international representatives from major industry leaders and university research centers will present invited talks. The final session will reconvene key participants to discuss important conclusions or trends and allow for greater conference delegate participation. Companies like Linde, Siemens, Bayer, SAIC Motor and Mitsubishi Chemical have agreed to present.

Full details on the conference can be found at

<http://www.aiche.org/conferences/specialty/ESPI.aspx>





Announcements (continued)

AICHe Energy Initiative

AICHe Center for Energy Initiatives is looking for Division members who would be interested in joining one of their Task Teams. Task Teams are centered on a particular subject. Some examples are Carbon Capture and Storage (CCS), and Massive Electricity Storage (MES). Members will become representatives in the areas to address the topic. Activities may include programming, congressional briefings, and generating publications. If you are interested, please contact Joe Schroer (jschroer@cwbttech.com).

Submitted by: Joe Schroer

Looking for Leadership Opportunities?

We are always looking for volunteers to help us lead our division. If you are an established member or a new one, please consider becoming more active in our division. This is an activity that will help you improve your leadership skills and offer you an opportunity to give back. If you are interested in learning more, please contact Raymond Rooks at (Raymond_rooks@praxair.com).

Division 12 Events During the Conference

Sunday, March 13 2011

5:00 PM-6:00 PM

Leadership Meeting - - Columbus EF, Hyatt Regency Hotel

Tuesday, March 15 2011

5:00 PM-6:00 PM

Division Area Meetings for Technical Programming - - Water Tower, Hyatt Regency Hotel

6:45 PM-9:45 PM

Dinner with awards presentation

❖Quartino

626 N. State (corner of State and Ontario)

❖\$55 per person (buy through AICHe)

❖Family style 4 course meal (vegetarian dishes in the menu)

❖Soft drinks/coffee/ CASH BAR ONLY

❖For questions contact Ray Rooks (716-879-7447)

Division 12 Announcements

If you belong to division 12 and would like to communicate information to the whole division, please send your message to Salvador Aldrett (salvador.aldrett@shell.com). We would love to hear of any events or accomplishments!



Process Development Division Program

Monday March 14, 2011

9:00 AM-10:30 AM

(#10) - T7000 Fuels & Petrochemicals Division Welcome Session and Energy Leadership Presentation

Sponsored by: Topical 7: 14th Topical on Refinery Processing

Co-Sponsored by: Process Development Division (12)

10:30 AM-12:00 PM

(#14) - 18K00 Spring Meeting Keynote Address

Sponsored by: Keynotes and Plenaries

Co-Sponsored by: Process Development Division (12)

2:00 PM-5:00 PM

(#31) - 12A01 Innovations in Energy Systems Design

Sponsored by: Process Research and Innovation

Topical 2: Advanced Fossil Energy Utilization (T2)

Tuesday March 15, 2011

8:30 AM-11:45 AM

(#47) - 12F01 Process Intensification (I)

Sponsored by: Process Intensification

(#54) - 05001 Management with Startup Ventures

2:00 PM-5:00 PM

(#77) - 12F02 Process Intensification (II)

Are you hungry?

Here's a few places you could try while in Chicago

✓ **Ay Ay Picante Peruvian Cuisine**

AY AY Picante has the best Ceviche in Town. Peruvian food is so different and complex that makes you wonder more about their dishes, service is great; but "warning" their spice sauce is HOT-HOT, great staff.

✓ **Dee's Mandarin**

This restaurant offers the best of both worlds — Chinese cuisine and a great sushi bar. Mandarin and Szechuan entrees include both mild and spicy dishes. Try the kung pao chicken, the crab rangoon, or the mooshu pork. The authentic sushi bar offers only the freshest fish. The interior of Dee's is very pleasant with comfortable booths, skylights, a fireplace, and a lovely outdoor garden dining area perfect for warm evenings.

✓ **The Original Gino's East of Chicago**

Chicago-style pizza has won droves of ardent fans, and this restaurant is probably the downfall for most of them. Just try to resist the irresistible, deep-dish Chicago pizza with oozing cheese, rich sauce, and fresh toppings from its crisp, cornmeal-infused crust.

✓ **Spiaggia**

For luxurious, upscale Italian dining, Spiaggia is a top pick.

From the Editor

If you are a regular reader of this newsletter and would like to give feedback, I would like to hear from you, Thanks!

Salvador Aldrett

Salvador.aldrett@shell.com

Process Development Division Program Continued

Wednesday March 16, 2011

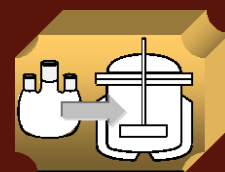
8:00 AM-11:00 AM

(#92) - 12F03 Process Intensification (III)

(#95) - 12F04 Membrane Reactor Operation

2:00 PM-5:00 PM

(#110) - 12B01 Best Practices and Case Studies In Process Development



AICHE Process Development Division (12)
Newsletter produced by Salvador Aldrett
Spring 2011

Process Development Division Leadership (2010-2012)

Chair	Raymond Rooks Praxair, Inc Phone: (716) 879-7447 Email: raymond_rooks@praxair.com	Chair Elect	Michael Hill M Hill & Associates, LLC Phone: (201) 995-9320 E-Mail: michael@mhillassoc.com
Program Chair	Robert S. Huss, Ph.D. Eastman Chemical Company Phone: 423-229-6425 Email: Bob Huss	Membership Chair	A.R. (Tony) Cartolano Air Products and Chemicals, Inc. Tel: 610-481-4262 e-mail: cartolar@airproducts.com
Assisting Program Chair	Joe Powell Shell Global Solutions US Inc. Phone: (281) 544-8976 Email: Joe.Powell@shell.com	CTOC Liaison	Cawas A. Cooper AIChE Fellow Phone/Fax: (610) 481-9165 E-Mail: cawas.cooper@gmail.com
Group Treasurer	David Edwards Zeton Inc. Phone: (905) 632-3123 Email: dedwards@zeton.com	Awards Chair	Jay Miller LyondellBasell Industries Phone: (610) 359-2092 Email: j.miller@lyondellbasell.com
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Division 11 Liaison	Dennis Hendershot	EBPC Liason	John F. Peragine Bristol-Myers Squibb Phone: (732) 227-5688 E-Mail: John.Peragine@bms.com

Leadership of Area 12a: Process Research and Innovation

<http://www.pd-aiiche.com/area12a/>

Chair	Joe Schroer CWB Tech. Phone : 909-595-8928	Chair - Elect	Santiago Faucher Xerox Research Phone : 905.823.7091 ext. 261	Area Coord	Qiang Xu ChE Dept Lamar University Phone:(409) 880-7818
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Leadership of Area 12b: Pilot Plants

<http://www.pd-aiiche.com/area12b/>

Chair	Adam Whalley, P.Eng. Zeton Inc. Tel: 905-632-3123 (ext. 235)	Chair - Elect	David Attride Eastman Chemicals Phone: (423) 967-8840	Area Coord	Kiran Gupte BP Phone: (630) 420- 4390
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Leadership of Area 12c/d: Technology Transfer

<http://www.pd-aiiche.com/area12c/>

Chair	Juben Chheda Shell Tel: 281-544-8232 e-mail: juben.chheda@shell.com	Chair - Elect	Vacant	Area Coord	
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Leadership of Area 12e: Microprocessing Engineering

<http://www.pd-aiiche.com/area12e/>

Chair	Thomas Dietrich mikroglas chemtech GmbH Phone: +49-6131- 55550-50	Chair - Elect	Laurence Weatherley University of Kansas phone: 785-864-3553 e-mail: lweather@ku.edu	Area Coord	Open
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Leadership of Area 12f: Process Intensification

<http://www.pd-aiiche.com/area12f/>

Chair	Dr.-Ing. Hannsjoerg Freund Max Planck Institute Phone: +49-391-6110- 275	Chair - Elect	Zhijun Jia Chart Energy & Chemicals, Inc. Phone: (608) 787-6714 Email: Zhijun Jia	Area Coord	Open
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Leadership of Area 12g: Product Design

Chair	Kevin Joback Molecular Knowledge Systems, Inc. Phone: 603-472-5315	Chair - Elect	Yogendra Shastri University of Illinois at Urbana- Champaign Phone: (312) 375- 2354	Area Coord	Ken Cox Rice University (713) 348-3529
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