

Process Development Division

Area 12A – Process Research and Innovation

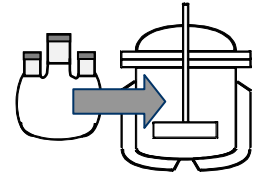
Steering Committee Meeting

AIChE Annual Meeting

Philadelphia, PA

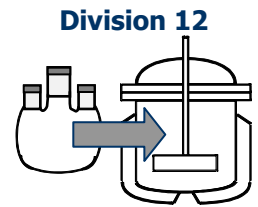
November 18, 2008 (11 am to 12:30 pm)

Loews: Commonwealth D (2nd Floor)



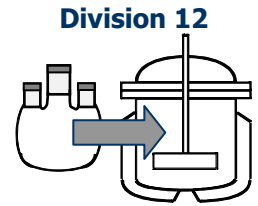
Attendees

- Sagar Gadewar
 - James Marek
 - Joseph Schroer
 - Santiago Faucher
 - Chris Wibowo
 - Levente Simon
 - Bob Huss
 - Maheyar Bilimoria
 - Cheryl Teich
 - Aaron Sarafinas
 - Jean Tom
 - Vivek Julka
 - Yogendra Shastri
 - John Peragine
 - Michael Hill
 - Lionel O'Young
- GRT Inc.
 - Abbott Labs
 - CWB Tech.
 - Xerox
 - CWB Tech.
 - ETH-Zurich
 - Eastman Chemicals
 - TetraTech EC
 - Rohm & Haas
 - Rohm & Haas
 - Bristol Myers Squibb
 - GRT Inc.
 - UIUC
 - Bristol Myers Squibb
 - M Hill & Associates
 - CWB Tech.



- **Introductions**
- **Mission Statement**
- **Area Leadership**
- **Programming Review**
- **Future Programming Topics**
- **New Business**

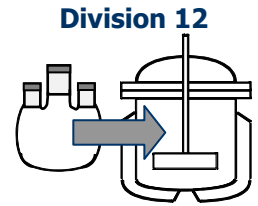
Mission Statement



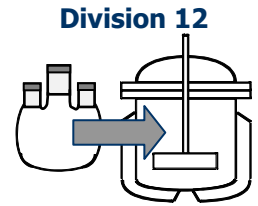
Foster process research and innovation by applying Chemical Engineering principles to the development of new products, manufacturing processes and improvements in existing technology.

The programming and activities will explore the components of successful process research, innovation and implementation, and distribute this shared knowledge to the Institute membership.

Current Area 12A Leadership

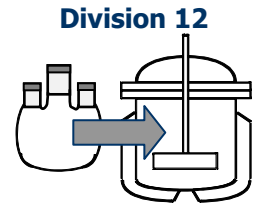


- **Chair: Sagar Gadewar, GRT Inc.**
- **Chair-Elect: Joseph Schroer, CWB Tech.**
- **Activities Chair: Santiago Faucher, Xerox Research Center of Canada**
- **Past Chair: Karl Krause, DuPont**



Area 12A Past Chair

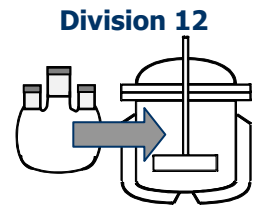
The Area 12A Past Chair oversees the handover of action items and responsibilities to the incoming Area 12A Chair, and supports and advises the Area 12A Chair during his/her two year term as necessary.



Area 12A Chair

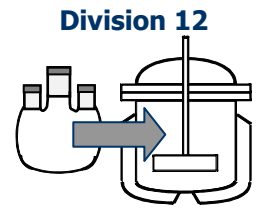
The Area 12A Chair leads all Area 12A activities, and has overall responsibility for ensuring all phases of programming for Area 12A.

- Automatically assumes Area Chair position at the **beginning** of the annual (Fall) meeting in odd years after serving as Chair-Elect for two years.
- Is responsible for selection of technical session topics in coordination with the Division Programming chair, and for finding chairs and co-chairs for these sessions.



Area 12A Chair Cont'd.

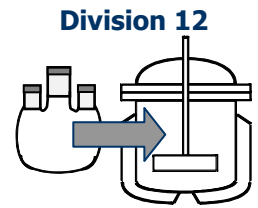
- Coordinates and helps session chairs in organizing sessions and meeting deadlines.
- Develops the Area in accordance with the Area Mission Statement.
- Holds Area meetings at least once a year at the Annual or Spring Meeting.
- Holds an Area election at the Steering Committee meeting upon **leaving** office for the incoming Activities Chair position before handing over responsibilities to the Chair-Elect.
- Provides leadership and management for the Area.



Area 12A Chair-Elect

The Area 12A Chair-Elect prepares for the office of Chair by assisting the Area 12A Chair during his/her two year term.

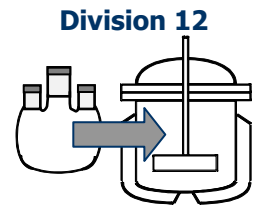
- Deputizes for the Area 12A Chair in the Chair's absence or inability to serve.
- Automatically assumes the position of Area 12A Chair at the beginning of the annual (Fall) meeting in odd years after serving for two years as Area 12A Chair-Elect.
- Formulates long-term plans and strategic activities for the Area in accordance with the Area Mission Statement.
- Assist session chairs and co-chairs with finding presenters for 12A sessions.



Area 12A Activities Chair

The Area 12A Activities Chair prepares for the office of Chair-Elect during his/her two year term. This position requires no prior experience in AIChE/PD Division or Area matters.

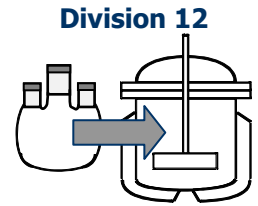
- Is recruited by the outgoing Area 12A Chair-Elect, and is elected to office during Area Elections at the annual (Fall) meeting in odd years.
- Automatically assumes the position of Area 12A Chair-Elect at the annual (Fall) meeting in odd years after serving for two years as Area 12A Activities Chair.
- Assist session chairs and co-chairs with finding presenters for 12A sessions.



- **High Throughput Techniques to Accelerate Process Development (Attendance = 30)**

Chair: Jean Tom

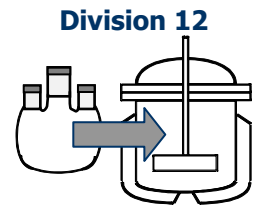
Co-Chair: Mohammad Shafiei



- **Process Innovations for Alternative Energy**
(Attendance = 30)

Chair: Mani Ganti

Co-chair: Parag Kulkarni



- **Applications of Chemometrics for Process Development**

Chair: Jim Marek

Co-chair: Jean Tom

- **Historical Perspectives on Development of New Processes (AIChE Centennial Session)**

Chair: Kamlesh Bhatia

Co-chair: Christianto Wibowo

- **Industrial Innovation in Process Design and Operations (Co-sponsored with 10A)**

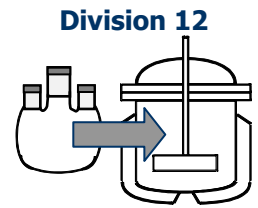
Chair: Harvey Arellano-Garcia

Co-chair: Nikhil Arora

- **Process Development for Sustainability (Two Sessions)**

Chair: Qiang Xu

Co-chair: Vivek Julka



- **Enhanced Oil Recovery**

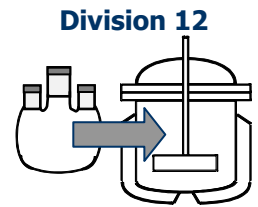
Chair: Jonathan Worstell

Co-chair: Joseph Powell

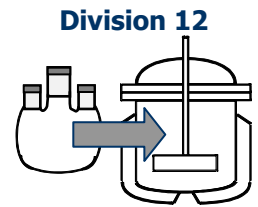
- **Biofuels Process Development**

Chair: Mitch Loescher

Co-chair: Joseph Schroer



- **Applications of Optimization in Industrial Practice**
Chair: Harvey Arellano-Garcia Co-chair: Levente Simon
- **Innovations in Energy Processes**
Chair: Vivek Julka Co-chair: Kamlesh Bhatia
- **Advances in API Process Development (Co-sponsored with 15B)**
Chair: Partha Mudipalli (15B) Co-chairs: David Li (15B)
- **Industrial Innovation in Process Design & Operation (Co-sponsored with 10A, 10C)**
Chair: Nikhil Arora (10A) Co-chair: Lionel O'Young
- **Microscale and High Throughput Systems for Crystallization Development (Co-sponsored with 2B)**
Chair: Paul Kenis (2B) Co-chair: Jean Tom
- **Process Development for Sustainability**
Chair: Qiang Xu Co-chair: Joseph Schroer



■ Process Development for Alternative Energy

Chair: Kamlesh Bhatia

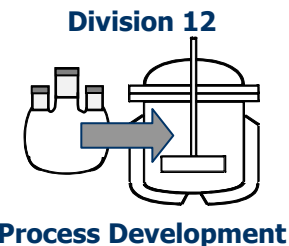
Co-chair: Ray Rooks

■ Innovations in Environmental Emission Abatement

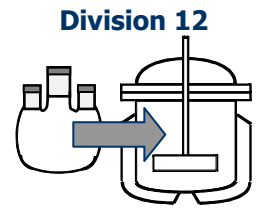
Chair: Qiang Xu

Co-chair:

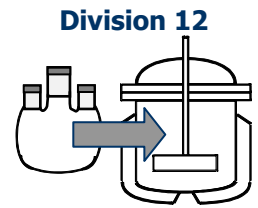
Potential Session Topics



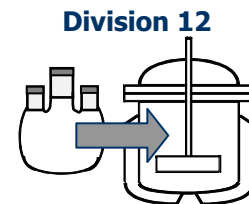
- **Process Innovation as a Route to Competitive Advantage**
- **Innovations in Nanotechnology Process Development (Fall 06 with Div 22)**
- **Innovations in Green Chemistry and Sustainable Process Development (Fall 03)**
- **Selling and Implementing Innovation in the Traditional CPI (Fall, 2003)**
- **Process Innovation as a Route to Shorter Time to Market (Fall, 2003)**
- **Innovation through Process Synthesis and Visioning**
- **Process Innovation Success Stories or Case Studies**
- **Best Practices for New Technology Development**
- **Process Development for Sustainable Processes (like Fall 06)**
- **Development of New Reaction (separation, etc) Processes**
- **Managing risks in New Technology Development**



- **Biofuels Process Development**
- **Process Innovation in Pollution Abatement**
- **Process Development for Sustainability**
- **Product and Process Design**
- **High Through-put Techniques to Accelerate Process Development**
- **Gasification Process Development**
- **Process Intensification**
- **Process Development in the Pharmaceutical Industry**
- **Development of Processes using Renewable Feedstock**
- **Innovation in Pharmaceutical and Biotechnology Development and Manufacturing**
- **Process Development for Electronics Products**



- **Development of Drug Delivery Technologies**
- **Innovative Feedstocks and Energy Utilization for Sustainable Process Development**
- **Process Development With Solids**
- **Innovation in Process Synthesis and optimization**
- **Innovation in Process Design**
- **Innovation in Fuel Cell Development**
- **From the University to the Factory: Successful Collaborations in Innovation**
- **Innovation in Consumer Products**
- **Innovation in Green Chemistry**
- **Process Innovation as a Route to Shorter Time to Market**
- **Selling and Implementing Process Innovation in the Traditional CPI**



Thank You !
