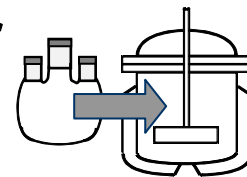


# AICHE Process Development Division Newsletter



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## Process Development Programming Areas

Area 12a: Process Research and Innovation

Area 12b: Pilot Plants

Area 12c: Technology Transfer

Area 12d: Manufacturing

Area 12e: Micro Process Engineering

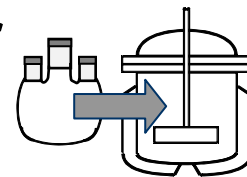
Area 12f: Process Intensification

Area 12g: Product Design



Spring National Meeting  
April 26<sup>th</sup> – 30<sup>th</sup>, 2009  
Tampa, FL

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## From the Chair...

Welcome to the Spring 2009 edition of the AIChE Process Development Division (PDD) Newsletter. On behalf of the division and leadership team members, listed at the end of this newsletter, I encourage you to read this newsletter fully and gain understanding of what the division is all about. It has information on our division's technical sessions, Spring Meeting Highlights, areas/division meetings, courses, dinner, awards, new initiatives, and many more exciting future plans.

Our next big event is the Spring 2009 AIChE Meeting from 26<sup>th</sup> to 30<sup>th</sup> April in Tampa, FL. PDD's Annette Johnston is the Meeting Programming Chair for the Spring 2009 meeting. Please feel free to contact me if you have any questions for the meeting. If you are unable to attend in person because of the current economic climate, please take advantage of web casting from Tampa. Presentations of the authors who have authorized AIChE to tape and broadcast their papers will be available for you to view. At this moment, all responses are still being collected and the exact numbers of web casts from the PDD sessions are unknown. For purchase information please see <http://www.aiche.org/conferences/springmeeting/webcasts/overview.aspx>.

Regarding technical programming, this meeting has six interesting sessions as listed in the newsletter. Other presentations in a topical on "Applications of Microreactor Engineering" will also be of interest. Technical Programming Monday through Wednesday about Alternative Energy and Alternative Fuels is expected to be one of the main attractions. Of special interest to all will be Monday's Keynote on the importance of ethics and transparency to business success by Fluor Corporation's CEO, a Tuesday plenary on alternative energy strategies featuring several key executives from the energy industry and a Wednesday plenary on water use sustainability.

We hope that you can also join us at the division's general meeting on 28<sup>th</sup> April per details in this newsletter. It will be a forum for lively discussion and brainstorming about ideas for future programming and activities. This is a good opportunity for persons considering to become active in the division. We do have some open positions on the leadership team listed at the end.

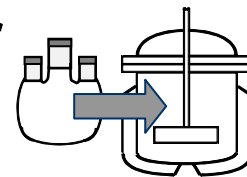
One of the premier ticketed events for the PDD is the division dinner. This year's dinner will take place on Tuesday, 28<sup>th</sup> April at Jackson's Bistro in Tampa. At the dinner, we will also present the PDD Practice Award. Please buy dinner tickets now because they are almost sold out by the night of the dinner (call 1-800-242-4363 to and your registration if necessary). The PDD dinner has always been a great networking experience, so don't miss it!

Key PDD events for the 2009 year are the AIChE Day at Chem Show (November 17<sup>th</sup>), and the Fall Meeting (November 8<sup>th</sup> to 13<sup>th</sup>) in Nashville, TN. Please submit papers for the Fall Meeting now to share your knowledge and connect with your peers. (<http://aiche.confex.com/aiche/2009/cfp.cgi>).

Thanks to all of you in advance for your interest and support. See you all in Tampa. If not, let me know what else we should be doing or how you want to play a role in our future.

*Cawas Cooper* ([cawas.cooper@gmail.com](mailto:cawas.cooper@gmail.com), 610-481-9165)  
AIChE Fellow and Process Development Division Chair

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## Announcements:

### **Find Your Focus, Attend the 2009 Spring Meeting in Tampa!**

PLAN TO COME TO THE MEETING, OR PLAN TO COME TO A COURSE. OR BOTH!!!

This year's Spring Meeting offers programming for a wide variety of practitioners in Industry and Government. The programming has been sorted in to several focused areas, here's a sampler:

MICROPROCESSING TOPICAL - Our perennial Process Development Division Favorite

SAFETY - 5th Global Congress on Safety, including CCPS, Loss Prevention and Process Plant Safety

ETHYLENE - 21st Annual Ethylene Producers' Conference

FUELS AND PETROCHEMICALS - Monday Keynote by Alan Boeckmann, CEO of Fluor, and technical programming Monday through Thursday.

DEVELOPING ENERGY STRATEGIES - Technical Programming Monday through Wednesday about Alternative Energy and Alternative Fuels, featuring a Panel Discussion of Industry Leaders from Coal Generated Power, Alternative Power (Wind, Solar), Nuclear Power and Alternative Fuels. Panel is featured on Tuesday. It is possible to register for a tour of the Tampa Electric Plant on Wednesday Afternoon, which is one of the few running IGCC Plants in the United States. Program includes a topical on Nuclear Energy and Processes.

WATER - Technical Programming Tuesday through Thursday, with a plenary session discussing policy and industry practice on Wednesday. It is possible to register for a tour of the Desalination Plant, which is one of two running in the United States.

NATURAL GAS UTILIZATION - 9th Topical Conference on Natural Gas Utilization - includes discussions of LNG process and usage.

REFINERY PROCESSING - 12th Topical Conference on Refinery Processing - offered every other year.

In addition to traditional sessions and plenaries, some excellent short courses are offered. Many relevant courses will be offered on Sunday, as well as special offerings for young professionals. The Carbon Counting Course is our latest addition. Consider attending if you are looking for a new future career, or just want to understand the counting process behind the Carbon Cap and Trade System that is projected to be required by the Obama Administration. For a complete list of courses offered please visit:

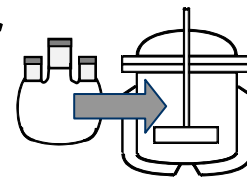
<http://www.aiiche.org/Conferences/SpringMeeting/ShortCourses/2009.aspx>

The Spring Meeting offers programming for areas that continue to be relevant to ChemE industrial practice, and for areas where the growth will be - energy, alternative energy, water management, carbon management. Plan to come for at least one day!

### **Comprehensive Quality by Design in Pharmaceutical Development and Manufacture**

This year at the annual meeting in Nashville, our division will be co-sponsoring a topical conference on Comprehensive Quality by Design for Pharmaceutical Product Development and Manufacture. A Quality by Design (QbD) exercise requires a multidisciplinary team of experts that will collaborate to de-risk the manufacture of pharmaceutical goods. Chemical engineers have found an important role to play in the practical implementation of QbD principles. This topical conference offers a forum where the distinct aspects of QbD can be brought together, providing an interdisciplinary discussion; between scientists working in the

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pharmaceutical sector, but more important, with scientists from other industrial sectors, where QbD has been brought to practice before.

The 15 topical conference sessions examine QbD aspects of unit operations, drug substance, drug product (solid as well as parentals), modeling and control. The keynote speakers include Christine Moore (FDA), John Lepore (Merck), Fernando Muzzio (Rutgers), Tim Watson (Pfizer), Gintaras Reklaitis (Purdue).

## **Fall 2009 Conference**

The Process Development Division 12 has 33 sessions co-listed for Fall 2009, Nashville, many under the QbD topical "Comprehensive Quality by Design to Develop and Manufacture Pharmaceutical Products (TI)". Other topics include process intensification I & II, innovation in alternative fuels and energy, sustainability for product and process design, pilot plant metrics, product design metrics and modeling, manufacturing site changes, and taking the industry career plunge.

Student Speed-Networking: PDD will be having another student speed-networking event (as part of the student conference in Nashville). Other AIChE divisions will join us and make it a larger joint effort.

See you in Nashville!

## **2009 AIChE Day at the Chem Show**

Do not miss this opportunity! This is a first of a kind program for us. The date will be November 17th, the first day of the Chem Show at the Javitts Center in New York City. Participants will be able to sign up for the entire day or choose just the morning or afternoon, The entire day will probably be priced at about \$500 (final details to come). The conference is really a collection of approximately 10 tutorials. A registrant can attend any of the five concurrent tutorials or move around if they wish but the tutorials are really organized to have a participant attend for the entire program. Of course registrants can also visit the show floor which should have between 80,000-100,000 square feet of exhibits. Many of the presenters are Process Development Division members. This is a tremendous value. Here are some of the topics:

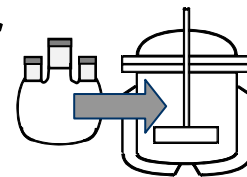
- Integrated Process Solutions for Solid-Liquid Separations (updated 2/25/09)
- Micro and Ultra-Filtration Membranes for Pharmaceutical and Food applications (updated 3/1/09)
- Chemical Product Design and Engineering (confirmed 2/26/09)
- Implementing Sustainability Practices into the Chemical Processing Industry (updated 2/25/09)
- Integrative Approach to Crystallization Process Development (updated 2/26/09)
- Mixing Basics and Single Phase Mixing\*(confirmed in phone conference 3/1/09)
- Multiphase Mixing\* (confirmed in phone conference 3/1/09)
- Fundamentals of Powder Flow Technology (confirmed 2/27/09)
- Troubleshooting Common Pneumatic Conveying Problems (confirmed 2/27/09)
- Process Safety Practices in the Chemical Processing Industry

Please look for further announcements on <http://www.chemshow.com/exhibitorlist/index.php> as they become available or contact Joe Cramer at [programming@aiiche.org](mailto:programming@aiiche.org) for more information.

## **Call for Papers**

The Call for Papers/PTP process for the 2009 AIChE Fall National Meeting is now open. To submit a paper please visit <http://aiiche.confex.com/aiiche/2009/cfp.cgi>. The deadline for submission is May 11, so hurry up.

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## **Fall 2009 Divison 12 Sections**

These are the preliminary sessions for the Process Development Division for Fall 2009. More details at [http://aiiche.confex.com/aiiche/2009/preliminaryprogram/group\\_1367.htm](http://aiiche.confex.com/aiiche/2009/preliminaryprogram/group_1367.htm)

### AREA: Process Research and Innovation (12a)

12A00 Applications of Optimization in Industrial Practice

12A01 Innovations in Energy Processes

12A02 Process Development for Sustainability

### AREA: Pilot Plants (12b)

12B00 Pilot Plant Metrics and Productivity

### AREA: Technology Transfer (12c)

12C00 Technology Transfer - Considerations for Manufacturing Site Changes

### AREA: Manufacturing (12d)

12D00 Taking the Career Plunge: What the Industry Wants You to Know about the Working World

### AREA: Product Design (12g)

12G00 Design of Alternative Fuel Products

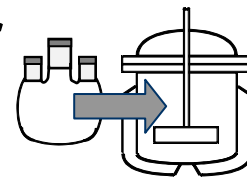
12G01 Product Design and Sustainability

PDD will be a host again for a student networking event as part of the Student Conference. Anyone interested in more information about this event or interested in participating should contact PDD Past Chair, John Peragine (contact info at back of newsletter).

## **Process Development Division Practice Award**

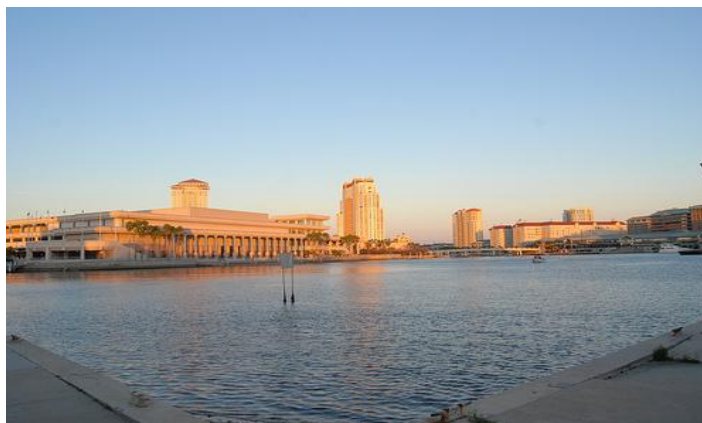
On behalf of our leadership team, I am pleased to announce that Gavin Towler has been selected to receive the 2009 Process Development Division Practice Award sponsored by Zeton. We will be presenting the award to Gavin at the Spring Meeting PDD Dinner on Tuesday (4/28) in Tampa. Complete details for the dinner are given just before the Leadership Team members listing. **Please join me in congratulating Gavin!**

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## PROCESS DEVELOPMENT DIVISION PROGRAM

### Monday, April 27, 2009

**8:30 AM-11:30 AM**

#6 - Instrumentation: An Engineer's Best Friend and Biggest Enemy (12D00)

**2:00 PM-5:00 PM**

#32 - Plant Improvements: Identifying and Prioritizing Work When the Plant Is Running Well (12D01)

### Tuesday, April 28, 2009

**8:30 AM-11:30 AM**

#53 - Enhanced Oil Recovery (12A00)

**2:00 PM-5:30 PM**

#68 - Biofuels Process Development (12A01)

### Wednesday, April 29, 2009

**8:30 AM-11:30 AM**

#92 - Shortcut Methodology in Pilot Plants (12B00)

## Co-Sponsored Sessions

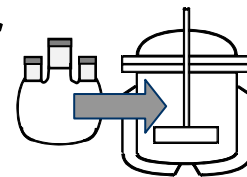
### Tuesday, April 28, 2009

**11:45 AM-1:10 PM**

#60 - Developing Energy Strategies Plenary (18001)

Cosponsored by: 12 Process Development Division

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## Other Division 12 Events during the Spring Meeting

**Sunday, April 26 2009**

**5:00 PM-6:00 PM**

Leadership Meeting - - Room 17 (1<sup>st</sup> floor) Tampa Convention Center.

**6:00 PM-7:30 PM**

Welcome Reception - - West Hall, Tampa Convention Center

**Tuesday, April 28 2009**

**4:30 AM-6:00 PM**

Division and Area Meetings - - PM Room 35 (4th Floor) Tampa Convention Center.

**6:00 PM-9:00 PM**

Dinner with awards presentation

Jackson's Bistro

601 S. Harbour Island Blvd., Tampa

Ph-813-277-0112

Parking available in the Jackson's Bistro garage at Knight's Point

Guests start to arrive @ 6:00pm

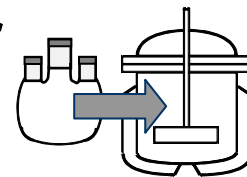
Dinner to be served @ 6:30 pm

Guests will be contacted via e-mail about 2 weeks prior to the dinner for their entree choice

Cash bar

**BUSINESS CASUAL DRESS CODE**

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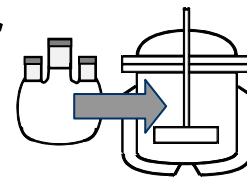


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## Process Development Division Leadership (2008-2010 Term)

<b>Chair</b>	Cawas A. Cooper AIChE Fellow Phone/Fax: (610) 481-9165 E-Mail: <a href="mailto:cawas.cooper@gmail.com">cawas.cooper@gmail.com</a>	<b>Elect Chair</b>	Raymond Rooks Praxair, Inc 175 East Park Drive Tonawanda, NY 14150 Phone: (716) 879-7447 Fax: (716) 879-7091 Email: <a href="mailto:raymond_rooks@praxair.com">raymond_rooks@praxair.com</a>
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<b>Assisting Program Chair</b>	Joe Powell Chief Scientist - Chemical Engineering Shell Global Solutions US Inc. Westhollow Technology Center P.O. Box 1380, Houston, TX 77251-1380 Phone: (281) 544-8976 Fax: (281) 544-7370 Email: <a href="mailto:Joe.Powell@shell.com">Joe.Powell@shell.com</a>	<b>CTOC Liaison</b>	Ramesh Rameswaran Sr. Team Leader-Process Development SABIC Americas Inc. SABIC Technology Center 1600 Industrial Blvd. Sugar Land, TX 77478 <a href="mailto:rrameswaran@americas.sabic.com">rrameswaran@americas.sabic.com</a>
<b>Group Treasurer</b>	David Edwards Project Engineer Zeton Inc. 740 Oval Court Burlington, Ontario Canada, L7L 6A9 Phone: (905) 632-3123 Email: <a href="mailto:dedwards@zeton.com">dedwards@zeton.com</a>	<b>Awards Chair</b>	A.R. (Tony) Cartolano Research Associate Air Products and Chemicals, Inc. 7201 Hamilton Boulevard Allentown, PA 18195-1501 Tel: 610-481-4262 Fax: 610-481-7719 e-mail: <a href="mailto:cartolar@airproducts.com">cartolar@airproducts.com</a>
<b>International Liaison</b>	Kamlesh K. Bhatia AIChE Fellow Phone: (302) 738-7250 Email: <a href="mailto:k.k.bhatia@att.net">k.k.bhatia@att.net</a>	<b>Past Chair</b>	John F. Peragine Principal Technical Investigator Bristol-Myers Squibb 1 Squibb Dr. PO Box 191 New Brunswick, NJ 08903-0191 Phone: (732) 227-5688 Fax: (732) 227-3892 E-Mail: <a href="mailto:John.Peragine@bms.com">John.Peragine@bms.com</a>
<b>Webmaster</b>	Joseph W. Schroer ClearWaterBay Technology Inc., 4000 W. Valley Blvd., suite 100 Walnut, CA 91789 Phone: (909) 595-8928 E-mail: <a href="mailto:jschroer@cwbttech.com">jschroer@cwbttech.com</a>	<b>Newsletter Editor</b>	Salvador Aldrett Shell Global Solutions 3333 Highway 6 South Houston, TX 77082 Phone: (281) 544-6067 E-mail: <a href="mailto:salvador.aldrett@shell.com">salvador.aldrett@shell.com</a>

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## Leadership of Area 12a: Process Research and Innovation

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

<b>Chair</b>	Sagar Gadewar: 861 Ward Dr, Santa Barbara, CA 93111 Phone: (805)696-6660 ext 104 Fax: (805) 696-6761 email: sagar@gadewar.com	<b>Chair - Elect</b>	Joseph Schroer ClearWaterBay Technology, Inc. 4000 Valley Blvd, Suite 100 Pomona, CA 91789- 1532 USA Tel: +1 (909) 595-8928 Fax: +1 (909) 595- 6899 Email: jschroer@cwbttech.com	<b>Activities Chair</b>	Santiago Faucher Composite Materials and Process Engineering Xerox Research Center of Canada 2660 Speakman Drive Mississauga, ON, L5K 2L1 Phone : 905.823.7091 ext. 261 Email : santiago.faucher@xerox.com
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## Leadership of Area 12b: Pilot Plants

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

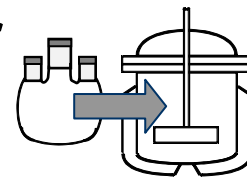
<b>Chair</b>	Dan Pintar, Operation Manager UOP Phone: (708) 442-3703 Email: daniel.pintar@uop.com	<b>Chair - Elect</b>	Adam Whalley, P.Eng. Zeton Inc. 740 Oval Ct. Burlington, ON, L7L 6A9 tel. 905-632-3123 ext. 235 fax. 905-632-0301 <a href="mailto:awhalley@zeton.com">awhalley@zeton.com</a>	<b>Activities Chair</b>	David C. Attride Senior Research Associate Eastman Chemical Company, 200 S. Wilcox Dr., P.O. Box 511 Kingsport, TN 37662- 5027 dattride@eastman.com
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## Leadership of Area 12c: Technology Transfer

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

<b>Chair</b>	Dr. Mitchell Loescher CDtech Chemical Research and Licensing 10100 Bay Area Boulevard Pasadena, TX 77507 Phone: 281-474-0685 Fax: 281-474-0660 Email: mloescher@cdtech. com	<b>Chair - Elect</b>	Mike J. Doll Research Engineer HODer Shell Global Solutions 3333 Highway 6 South Houston, TX 77082 Phone: (281) 544-7253 Fax: (281) 544-8687 Email: Mike.Doll@Shell.com	<b>Activities Chair</b>	Open
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## Leadership of Area 12d: Manufacturing

<http://www.pd-aiiche.com/area12d/>

<b>Chair</b>	Lorna Ortiz-Soto CRI/Criterion Catalysts Westhollow Technology Center 3333 Highway 6 South Houston, TX 77082 <a href="mailto:lorna.ortiz-soto@shell.com">lorna.ortiz-soto@shell.com</a> Phone: 281-544-7746 Fax: 281 544 8770	<b>Chair - Elect</b>	Shawna Berg Shell Global Solutions (US) Inc. Westhollow Technology Center 3333 Highway 6 South Houston, TX 77082 <a href="mailto:shawna.berg@shell.com">shawna.berg@shell.com</a> Phone: 281-544-8309 Fax: 281 544 7370	<b>Activities Chair</b>	Jason VanRoeyen Shell Chemical LP   Geismar Plant AOID Technical Support 7594 Hwy 75, Geismar, LA 70734 225.201.5322 (P) 225.229.5436 (C) 225.201.5229 (F) <a href="mailto:jason.vanroeyen@shell.com">jason.vanroeyen@shell.com</a>
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## Leadership of Area 12e: Microprocessing Engineering

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

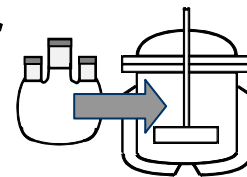
<b>Chair</b>	Ronald S. Besser, Ph.D. Professor Chemical, Biomedical, and Materials Engineering Stevens Institute of Technology Castle Point on Hudson Hoboken, NJ 07030 Phone: (201) 216-5257 Fax: (240) 255-4028 Email: <a href="mailto:rbesser@stevens.edu">rbesser@stevens.edu</a>	<b>Chair - Elect</b>	Laurence Weatherley Chair-Elect The University of Kansas Chemical and Petroleum Engineering 1530 W. 15th Street, Learned Hall Lawrence, KS 66045- 7609 US phone: 785-864-3553; fax: 785-864-4967 e-mail: <a href="mailto:lweather@ku.edu">lweather@ku.edu</a>	<b>Activities Chair</b>	Dr. Thomas R. Dietrich mikroglas chemtech GmbH Galileo-Galilei-Str.28 55129 Mainz Germany tel +49-6131-55550-50 fax +49-6131-55550-52 <a href="mailto:T.Dietrich@mikroglas.com">T.Dietrich@mikroglas.com</a> <a href="http://www.mikroglas.com">www.mikroglas.com</a>
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## Leadership of Area 12f: Process Intensification

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

<b>Chair</b>	Costas Tsouris, Chair Oak Ridge National Laboratory P.O. Box 2008 1 Bethel Valley Road Oak Ridge, TN 37831-6181 Tel. 865-241-3246 Fax. 865-241-4829 Email: <a href="mailto:tsourisc@ornl.gov">tsourisc@ornl.gov</a>	<b>Chair - Elect</b>	Dr.-Ing. Hannsjoerg Freund, Chair Elect Max-Planck-Institut fuer Dynamik komplexer technischer Systeme Fachgruppe Physikalisch- Chemische Prozesstechnik Sandtorstrasse 1 D-39106 Magdeburg, Germany Phone:+49 391 6110- 275	<b>Activities Chair</b>	Dr. Bora Aydin Research Scientist Industrial Systems Optimisation Canmet Energy Technology Centre 1615 Lionel-Boulet Blvd., Varenes, QC, J3X 1S6 Canada Tel: +1 450 6520214 Fax: +1 450 6525918 <a href="mailto:bora.aydin@nrcan.gc.ca">bora.aydin@nrcan.gc.ca</a>
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## Leadership of Area 12g: Product Design

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Activities Yogendra Shastri  
Chair