



PTF *Newsletter*

Particle Technology Forum

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

Vol. 13 No. 2

Spring 2008

The PTF is an international and interdisciplinary forum that promotes information exchange, scholarship, research, and education in the field of particle technology – that branch of science and engineering dealing with the production, handling, modification, and use of a wide variety of particulate materials, both wet or dry, in sizes ranging from nanometers to centimeters. Particle technology spans a range of industries to include chemical, petrochemical, agricultural, food, pharmaceuticals, mineral processing, advanced materials, energy, and the environment. See www.erpt.org/ptf for more information.

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LETTER FROM THE CHAIR



Salt Lake City hosted the last AIChE Annual meeting during November 4-9, 2007. With over 30 sessions dedicated to particle technology interests, we definitely had a strong presence during the meeting. Once again, we saw increased interest in topics related to granular flow, modeling and nanoparticle technology. I feel that as we move forward, we need to survey our membership to gauge their current interests in the realm of particle technology. This will help us to focus on relevant topics so that we can retain our audience while bringing new ones in the fold. I have initiated an effort with AIChE's help to conduct a web survey of our membership. I would greatly appreciate input and advice from our membership.

The award lectures were presented by Prof. Jennifer Curtis and Prof. John Grace. Prof. Curtis gave an overview of her work on numerical modeling of fluid particle system, and Prof. Grace reviewed his research interests in fluidization and energy systems.

The PTF banquet was held in the lobby of beautiful Abravanel Hall. In addition to being a beautiful venue with a stunning view of the Mormon temple, we were also treated to a guided tour of the auditorium. Prof. L. T. Fan, the recipient of PTF Award, took us down the memory lane and relived some of his experiences in conducting research. I want to thank Jenike and Johanson, Inc. and Arena-Flow for their sponsorship of the dinner events. My sincere thanks to Prof. Hugo Caram for all the hard work in organizing the banquet.

This year we initiated the best paper awards for PTF. These awards recognize excellence in content and quality of presentation for the papers presented at the meeting. Sorting out the best papers turned out to be a daunting task, and I would like to recognize all the session chairs and the group chairs for their diligence, fairness and meticulousness in the evaluation process. These awards will be presented during next year's banquet.

Best regards,
Shrikant Dhodapkar
Chair – Particle Technology Forum

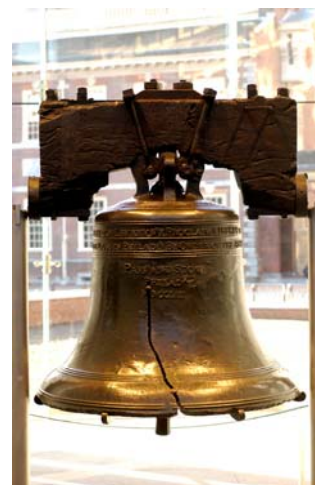
2008 AIChE Annual Meeting

November 16-21, 2008

Philadelphia Marriott & Pennsylvania Convention Center
Philadelphia, PA

Abstract Deadline: May 11, 2008

URL: <http://www.aiche.org/Conferences/AnnualMeeting/index.aspx>



PTF Session	Chair	Co-Chair
03001 Poster Session: Particle Technology Forum	Manuk Colakyan M.Colakyan@aol.com	
03002 Particle Technology Forum Awards Lectures	Hugo S. Caram hs0@lehigh.edu	
AREA: Particle Production and Characterization (03a)		
03A01 Population Balance Modeling for Particle Formation Processes: Nucleation, Aggregation and Breakage Kernels	Roger Place rogerplace@compuserve.com	Edward P. Gatzke gatzke@sc.edu
03A02 Agglomeration and Granulation Processes	Paul Mort mort.pr@pg.com	Gabriel I. Tardos Tardos@CCNY.CUNY.Edu
03A03 Applications of Engineered Structured Particulates	Christopher L. Kitchens ckitche@clemsom.edu	Ranjit Thakur ranjit.thakur@novartis.com
03A04 Characterization of Engineered Particles and Nano-Structured Particles	Mark Bumiller Mark.Bumiller@malvernusa.com	Caroline Nam Laufer nam@udel.edu
03A05 Dynamics and Modeling of Particles, Crystals and Agglomerate Formation	Jan Sefcik sefcik@tech.chem.ethz.ch	Roger Place rogerplace@compuserve.com
03A06 Particle Formation in Supercritical Fluids for Food and Pharmaceuticals	Jun Yang jyang2@colorcon.com	Rajesh Dave rajesh.n.dave@njit.edu
03A07 Comminution – Experiments, Theory and Modeling	R. Bertrum Diemer r-bertrum.diemer@usa.dupont.com	Ecevit Bilgili ecevit_bilgili@merck.com
03A08 Scale Effects on Particle Production – Tutorial	Silvina M. Tomassone wilvina@sol.rutgers.edu	
03A09 Production of Metallic Nanoparticles	Richey Davis rmdavis@vt.edu	

News and Announcements

03A10 History and Future of Particle production – Anniversary Topic	R. Bertrum Diemer r-bertrum.diemer@usa.dupont.com	
03A11 Characterization and Measurement in Powder Processing	Clive E. Davies c.davies@massey.ac.nz	
03A12 Particle Formation and Crystallization Processes from Liquids, Slurries and Emulsions	Manuk Colakyan M.Colakyan@dow.com	
AREA: Fluidization and Fluid-Particle Systems (03b)		
03B01 Fundamentals of Fluidization	L.S. Fan fan.1@osu.edu	
03B02 Fundamentals of Fluidization II	Ah-Hyung Alissa Park ap2622@columbia.edu	
03B03 Applications of Fluidization	Manuk Colakyan M.Colakyan@dow.com	
03B04 Circulating Fluidized Beds	Jesse Zhu jzhu@uwo.ca	
03B05 Gas/Solid Mixing and Heat/Mass Transfer in Fluidized Beds	Bing Du bdu@dow.com	
03B06 Computational and Numerical Approaches to Particle Flow	Jennifer S. Curtis jcurtis@che.ufl.edu	Yi Cheng yicheng@mail.tsinghua.edu.cn
03B07 Industrial Application of Computational and Numerical Approaches to Particle Flow	Ken Williams ken@arena-flow.com	Ray Cocco ray.cocco@psrichicago.com
03B08 Fluidized Bed Reactor	Bruce D. Hook Sr. bdhook@dow.com	Reza Mostofi reza.mostofi@uop.com
03B09 Energy Systems in Fluidization and Fluid-Particle Systems	Isaac K. Gamwo Gamwo@netl.doe.gov	Hadjira Iddir Hadjira.Iddir@uop.com
03B10 Bio-Refining and Bio-Fuels in Fluidization and Fluid-Particle Systems	Jesse Zhu jzhu@uwo.ca	
AREA: Solids Flow, Handling and Processing (03c)		
03C01 Dynamics and Modeling of Particulate Systems	James F. Gilchrist gilchrist@lehigh.edu	Joerg Theuerkauf JTheuerkauf@dow.com
03C02 Solids Handling and Processing	Clive E. Davies c.davies@massey.ac.nz	Jim Davis davis.jl.2@pg.com
03C03 Mixing and Segregation of Particulates	Bruce D. Hook Sr. bdhook@dow.com	

News and Announcements

03C04 Session in Honor of George Klinzing's 70th Birthday	Shrikant Dhodapkar sdhodapkar@dow.com	Nestor A. Vasquez nvasquez@dow.com
03C05 Material Parameters for Particle Simulations	Joerg Theuerkauf JTheuerkauf@dow.com	Gustavo G. Joseph Gustavo.Joseph@colorado.edu
03C06 Measurement, Monitoring and Characterization for Particulate Systems	Clive E. Davies c.davies@massey.ac.nz	
03C07 Post Crystallization Processes	Bruce D. Hook Sr. bdhook@dow.com	
AREA: Nanoparticles (03d)		
03D01 Liquid-Phase Synthesis of Nanomaterials and Particles	Jan Sefcik sefcik@chem.ethz.ch	Christopher L. Kitchens ckitche@clermson.edu
03D02 Modeling and Scaleup of Nanoparticle Processes	Roger Place rogerplace@compuserve.com	Silvina M. Tomassone silvain@sol.rutgers.edu
03D03 Functional Nanoparticles and Nanocoatings on Particles (1)	Lutz Madler lutz@seas.ucla.edu	George Fotou george_fotou@cabot-corp.com
03D04 Gas Phase Synthesis on Nanoparticles	Wendelin J. Stark wendelin.stark@chem.ethz.ch	Susanne Regine Weith Susanne.r.veith@usa.dupont.com
03D05 Large Scale Production of Nanoparticles	Silvina M. Tomassone silvina@sol.rutgers.edu	Roger Place rogerplace@compuserve.com
03D06 Nanoparticles by Mechanical Breakage and Size Reduction	Karsten Wegner wegner@ptl.mavt.ethz.ch	Gregory Beaucage beaucag@uc.edu
03D07 Aggregate and Agglomerate Formation Dynamics	Gregory Beaucage beaucag@uc.edu	Michael R. Zachariah mrz@umd.edu
03D08 Nanoparticles for Functional Coatings	Karsten Wegner wegner@ptl.mavt.ethz.ch	Sotiris Pratsinis pratsinis@ptl.mavt.ethz.ch
03D09 Nanoparticles for Energy Conversions	Yangchuan Xing xingy@umr.edu	
03D10 Ancient Nanoparticles	Roger Place rogerplace@compuserve.com	
AREA: Energetics (03e)		
03D01 Nano-Energetic Materials	Jan Puszynski Jan.Puszynski@sdsmt.edu	Bruce Cranford Bruce-Cranford-PE@comcast.net
03E02 Processing and Safety	Dilhan Kalyon dkalyon@stevens.edu	
03E03 Environment & Lifecycle	Charles R. Painter charles.r.painter@navy.mil	
03E04 Thermophysical Properties of Energetic Materials – Predictions and Experimental Measurements	Veera Boddu veera.boddu@usace.army.mil	Paul Redner paul.redner@us.army.mil

Call for PTF Nominations



BEST PH.D. IN PARTICLE TECHNOLOGY AWARD

Winner: 2007 – Mahesh Iyer

Sponsor: Procter and Gamble

Description: Recognizes an outstanding dissertation by an individual who has earned a doctoral degree. The dissertation can be in any discipline in the physical, biomedical or engineering sciences, but must be in particle science and engineering. Selection criteria include: 1. An outstanding original dissertation with relevance to particle technology. 2. The candidate must have received a doctoral degree within the last three calendar years prior to the year the award is given.

Deadline: May 15, 2008. Nominations can be made by any member of the Particle Technology Forum. Nominations should include 1) a letter of nomination, 2) an extended abstract of up to six pages including a list of refereed publications resulting directly from that dissertation, 3) no more than three supporting letters, all of which must be from institutions outside the one granting the dissertation, and 4) at least one letter from industry. 5) The letter of nomination should include a critical review stating the value of the dissertation in terms of its originality, significance, and potential applications in the field of particle science and technology. The supporting letters may focus on any of these attributes. Send nominations to the Particle Technology Forum Awards Committee Chair: Prof. Hugo S. Caram, Department of Chemical Engineering, Lehigh University, 111 Research Drive, Iacocca Hall, Bethlehem, PA 18105; Phone: 610-758-4259; Fax: 610-758-5057; E-mail: hsc0@Lehigh.EDU.

Award: A plaque and a \$500 honorarium.

Presentation: The award is presented at a Forum sponsored event during the AIChE Annual Meeting.

Past Recipients: 2006 Griselda Bonilla

2005 Stephen L. Conway

2003 Stephen Tallon

2000 H. Shinto

1998 P. Spicer

2004 Ecevit Bilgili

2002 Himanshu Gupta

1999 R. Agnihotri

1997 C. M. Hrenya

PARTICLE TECHNOLOGY FORUM AWARD

Winner(s): 2007 – L.T. Fan

Sponsor(s): E.I. duPont de Nemours & Company

Description: Recognizes a forum member's significant scientific/technical contributions to the field of particle technology, as well as leadership in promoting scholarship, research, development, or education in this field. Nominee has to be a member of the Particle Technology Forum.

Deadline: May 15, 2008. Please indicate in the nomination if you would like the nominee to also be considered for the Thomas Baron Award, and the PTF Forum Award. Send nominations to the Particle Technology Forum Awards Committee Chair: Prof. Hugo S. Caram, Department of Chemical Engineering, Lehigh University, 111 Research Drive, Iacocca Hall, Bethlehem, PA 18105; Phone: 610-758-4259; Fax: 610-758-5057; E-mail: hsc0@Lehigh.EDU.

Award: A plaque and \$1,000 honorarium.

Presentation: The award is normally presented at a Forum sponsored event at the AIChE Annual Meeting.

Past Recipients: 2006 Doug Fuerstenau

2005 J. Schwedes

2004 George Klinzing

2003 Chi Tien

2002 Brian Kaye

2001 S. K. Friedlander

2000 B. Scarlett

1998 A. W. Jenike

1997 R. Davies

1996 K. Leschonski

1995 R. Pfeffer

LECTURESHIP AWARD IN FLUIDIZATION

Winner: 2007 – Jennifer Sinclair Curtis

Sponsor: Particulate Solid Research, Inc.

Description: Recognizes an individual's outstanding scientific/technical research contributions with impact in the field of fluidization and fluid-particle flow systems. Selection criteria include: 1. An outstanding contribution advancing fluidization or fluid-particle flow systems. 2. The awardee is required to deliver a keynote paper at the Fundamentals of Fluidization and Fluid-Particle Systems session of Area 3b during the AIChE Annual Meeting. The awardee is also required to submit a written manuscript. 3. Membership in the Particle Technology Forum or AIChE is not required.

Deadline: May 15, 2008. Submit nominations to: Reza Mostofi, UOP, 25 E. Algonquin Road, Des Palines, IL 60017-5017, USA; Phone: 847-391-1171; Fax: 847-391-2758; Email: reza.mostofi@uop.com.

Award: A plaque and a \$1,000 honorarium.

Presentation: The award is presented at a Forum sponsored event during the AIChE Annual Meeting.

Past Recipients: 2006 Yong Jin

2005 Shigekatsu Mori

2004 Ye Mon Chen

2003 Norman Epstein

2002 Dimitri Gidaspow

2001 M. Horio

2000 W. Yang

1999 H. Arastoopour

1998 J. Werther

1997 M. Kwauk

THOMAS BARON AWARD IN FLUID-PARTICLE SYSTEMS

Winner(s): 2007 – John Grace

Sponsor(s): Shell Global Solutions, Inc.

Description: Recognizes an individual's outstanding scientific/technical accomplishment which has made a significant impact in the field of fluid-particle systems or in a related field with potential for cross-fertilization. Selection criteria include: 1. An outstanding contribution advancing fluid-particle systems, or a related field. 2. The awardee is invited to deliver a Plenary Lecture at an AIChE Annual Meeting session. The awardee is also required to submit a written manuscript.

Deadline: May 15, 2008. Please indicate in the nomination if you would like the nominee to also be considered for the Thomas Baron Award, and the PTF Forum Award. Send nominations to the Particle Technology Forum Awards Committee Chair: Hugo S. Caram, Professor, Lehigh University, Dept Of Chem Eng, 111 Research Dr., Bethlehem, PA 18015; Phone: (610) 758-4259; Fax: (610) 758-5057; Email: hsc0@lehigh.edu.

Award: A plaque and \$1,000.

Presentation: The award is presented at a Forum sponsored event at the AIChE Annual Meeting.

Past Recipients: 2006 Dimitri Gidaspow

2005 S. Sundaresan

2003 Sotiris Pratsinis

2001 L. White

1998 S.L. Soo

1996 D. D. Joseph

1994 L. Fan

2004 Doraiswamy Ramkrishna

2002 Darsh Wasan

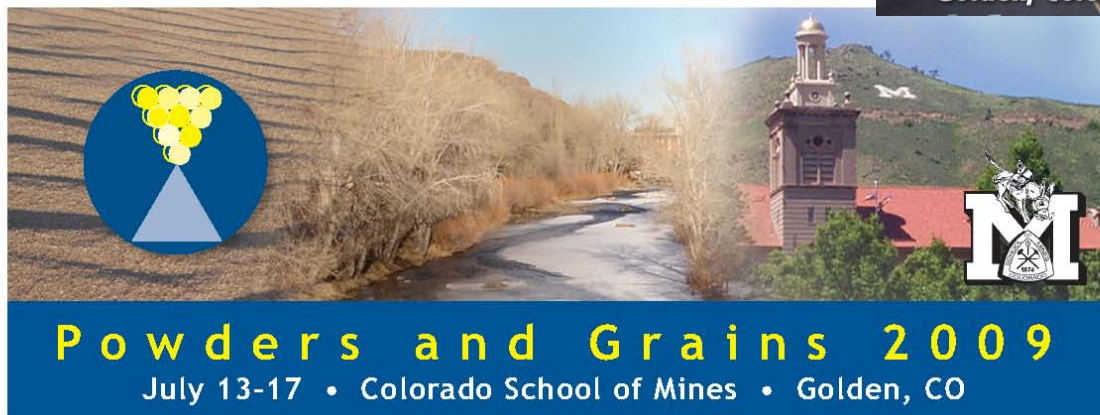
2000 R. Pfeffer

1997 R. C. Flagan

1995 J. C. Chen

1993 R. Jackson

Powders and Grains 2009



CONFERENCE WEBSITE

<http://PandG2009.mines.edu>

P&G 2009 — A STRONG TRADITION

Powders & Grains is an international scientific conference held every 4 years that brings together engineers and physicists interested in the micro-mechanics of granular media. The conference is organized under the auspices of the Association pour l'Etude de la Micromécanique des Milieux Granulaires (AEMMG).

Previous meetings were held in Clement-Ferrand, France (1989), Birmingham, England (1993), Durham, USA (1997), Sendai, Japan (2001) and in Stuttgart, Germany (2005).

Powders & Grains distinguishes itself from other meetings on granular materials in two ways:

- It brings together both engineers and physicists.
- It emphasizes the micro-mechanics of granular materials.

The aim of the conference is to give an up-to-date picture of the broad research field of granular media. Contributions from experts around the world will present research topics that cover a wide range of open problems in the field.

P&G 2009 — FORWARD THINKING

Powders & Grains 2009 will feature the highest quality of research presentations addressing the relevance of granular materials research to contemporary issues in the areas of *Energy, Climate Change* and *Space Exploration*. In the area of Energy, many methods of processing of granular material, such as comminution, are perceived to be very inefficient. Geophysical phenomena impacted by *Climate Change* may present certain applications of granular materials modeling, such as melting Arctic ice. Extra-terrestrial granular material, such as lunar soil, behave differently due to the extreme environment on the Moon. The organizing committee will encourage research papers addressing these issues as well as those with strong fundamental scientific values.

ABSTRACT DEADLINE

July 1, 2008

CONFERENCE FEE

The conference fee is \$525 and students' fee is \$250. Both prices are per participant and include proceedings in a published format, coffee breaks, and participation in a social event.

CONFERENCE MANAGEMENT

Office of Special Programs & Continuing Education
Tel: (00-1) 303-273-3493 • Fax: (00-1) 303-273-3314 • E-mail: pandg@mines.edu
www.mines.edu/Outreach/Cont_Ed

CONFERENCE ORGANIZER

Association pour l'Etude de la Micromécanique des Milieux Granulaires
www.mssmat.ecp.fr/html_petg/spip.php?rubrique3

INVITED SPEAKERS

- Eric Clément: *ESPCI, France*
- Martin von Hecke: *Leiden, NL*
- Richard Iverson: *US Geological Survey, USA (Invited)*
- Kenichi Maeda: *Nagoya Institute of Technology, Japan*
- Tom Mullin: *Manchester University, UK*
- Francisco Melo: *Universidad de Santiago de Chile, Chile*
- Mario Nicodemi: *University of Warwick, UK*
- Franck (Farhang) Radjai: *LMGC, Montpellier, France*
- Stuart B. Savage: *Canada (Invited)*
- Mark D. Shattuck: *The City College of NY, USA*
- Antoinette Tordesillas: *The University of Melbourne, Australia*

ORGANIZING COMMITTEE

Masami Nakagawa: Organizer
*Department of Mining Engineering,
Colorado School of Mines, USA*

Christine M. Hrenya
*Department of Chemical and Biological
Engineering, University of Colorado, USA*

Philip Metzger
Kennedy Space Center, NASA, USA

Anthony D. Rosato
*Department of Mechanical Engineering,
New Jersey Institute of Technology, USA*

Surajit Sen
*Department of Physics, State University of
New York at Buffalo, USA*

David Wu
*Department of Chemical Engineering,
Colorado School of Mines, USA*

GREENING

Powders & Grains Conference
www.greenmeetings.info

Gordon Research Conference on Granular and Granular-fluid Flows



Dear Colleagues,

The 4th Gordon Conference on Granular and Granular-Fluid Flow will take place:

June 22-27, 2008

**Colby College
Waterville, ME**

This meeting provides an exciting and broad range of theory and experiment on granular physics, colloids and suspensions, jamming, applications to engineering, particular flows in nature, and more. Our preliminary list of speakers includes: Martin van Hecke, Andrea Liu, Charles Campbell, Prabhu Nott, Christine Hrenya, Takashe Matshshima, Nicolas Vandervelle, Doug Durian, Olivier Dauchot, Matthieu Wyart, Veronique Trappe, Erik Flekkoy, Deniz Ertas, Anael Lemaitre, Gerd Gudehus, Karen Daniels, David Cole, Sal Torquato, Tomaso Aste, Nicolas Taberlet, Meiyong Hou.

You can find more information at the GRC websites below, or you can contact the chair or vice chair. We hope to see you all at the meeting.

Chair:

Robert P. Behringer
bob@phy.duke.edu

Vice Chair:

Narayanan Menon
menon@physics.umass.edu

Here is a link to the conference program that appears on the GRC web site:

<http://www.grc.org/programs.aspx?year=2008&program=granular>

If interested in attending this conference, you may apply via the web site:

<http://www.grc.org/application.aspx?id=10334>

Particulate Science & Technology – Call for Papers

Invitation to Publish Manuscript in a Journal

All presenters in PTF-sponsored and/or -organized technical sessions at the *AIChE Spring National Meeting 2008 (New Orleans, LA)* are invited to submit full length manuscripts (approximately 4,000 to 5,000 words) for publication consideration in *Particulate Science and Technology, an International Journal*. To ensure quality, all manuscripts will go through the rigorous peer-reviewed process. The materials presented in the manuscript should be original, i.e., should not have appeared in a journal publication or submitted to a journal for publication. The normal review time is 12 weeks from the date of completion of the paperwork: (1) submission by the author of the full length manuscript typeset according to the journal format guidelines, (2) submission by the author of signed Copyright Form, and (3) receipt by the author of the paper ID number from the Editor. For follow-up and/or additional information, please contact co-Editor-in-Chief, Prof. Virendra M. Puri at vmpuri@psu.edu.



Best Paper Awards from 2007 AIChE Annual Meeting



Sponsored By: Jenike and Johanson, Inc.

GROUP 3A

Title: Application of In-Line Transmission Nir for Improved Process Understanding and Control of a Continuous Mixing Process

Authors: Gregory M. Troup, John P. Higgins, Craig A. Mckelvey, Michael Lowinger, Jeff S. Ko, Luke R. Schenck, Robert F. Meyer, Brit L. Rudeen

Winner: Gregory Troup

GROUP 3B

Title: Four Ways to Introduce Structure in Fluidized Bed Reactors

Authors: John Nijenhuis, J. Ruud Van Ommen, Marc-Olivier Coppens

Winner: John Nijenhuis

GROUP 3C

Title: Dynamics, Packing Porosity, And Conformation Variations Of Granular Chains

Authors: Amy Shen

Winner: Amy Shen

GROUP 3D

Title: Passivation Of Pigment-Grade TiO₂ By SiO₂ Atomic Layer Deposition In A Fluidized Bed Reactor

Authors: David M. King, Xinhua Liang, Kamal M. Akhtar, Alan W. Weimer

Winner: David M King

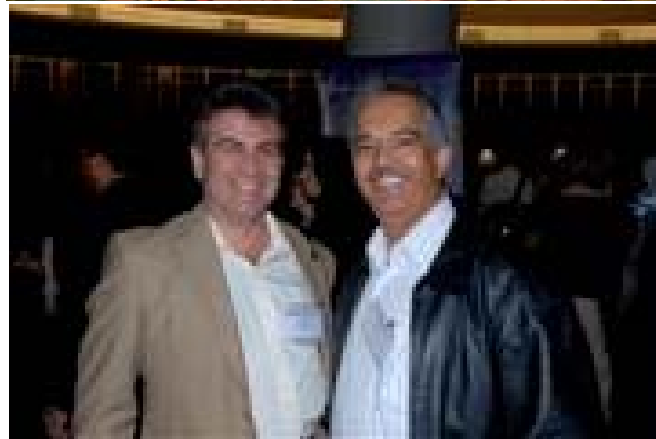
GROUP 3E

Title: Ignition Sensitivity of Nanoenergetics Produced by Various Processing Methods

Authors: Chris J. Bulian, Jan Puszynski, Jacek J. Swiatkiewicz

Winner: Chris Bulian

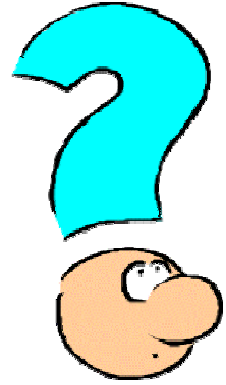
Snapshots from 2007 AIChE Annual Meeting



News and Announcements



“Know Floe’s Korner”



Characterizing Bulk Materials

Lyn Bates, Ajax Equipment (UK)
Shrikant Dhodapkar, The Dow Chemical Company
George Klinzing, University of Pittsburgh

1. Characterizing for flow cannot be reduced to a single numerical value as the flow potential has a multi-attribute identity. Understand and measure the upper bounds of ‘*worst*’ values of the various physical properties that are likely to be encountered in the application under consideration.
2. Measure the bulk density in the extreme bulk conditions of the application, i.e. most dilated as stored, but not settled, and as most compacted in storage. A high ratio of these two values indicates there is some potential form of flow problem and the nearer the value is to one can highlight a possible tendency to segregate.
3. Measure the wall friction for possible materials of construction to establish the optimum, contact surface for slip and basis for design of hoppers, chutes and any equipment requiring relative movement between the bulk material and its containing boundary. Do not assume wall friction characteristics based on data from reference handbooks. A survey of large data-sets (Figure 1) indicates that the probability of achieving mass flow at 60 degree cone angle is only between 15 to 25%.
4. Measure the shear strength at maximum compacting stress that is to be experienced in the relevant equipment and a comparative measure at 25% of this loading.
5. Evaluate the hazardous characteristics of raw materials, intermediates and products from a plant safety perspective.
6. Identify the health and exposure issues individually, based on chemical and physical properties that may be injurious or dangerous.
7. Deal with quality issues as a separate, user defined subject, with physical examples of what is just within and outside the limits of acceptability.
8. Shake a sample of the product in a half full measuring cylinder and graph the rate of settlement to produce a measure of porosity, as this will reflect how easy the material will be able to expand for flow without undue resistance of a negative pressure in the expanding, interstitial voids.
9. A ‘representative’ sample for equipment design purposes is then the one that has the most unfavorable qualities relevant to the form of equipment under consideration.
10. Add other relevant values that may influence the design or above values, e.g. particle size, for potential blocking of flow channel, moisture content that may vary due to ambient or process conditions. Note that presence of moisture attains a maximum bulk strength beyond which increase in moisture reduces the bulk strength.

Upcoming Conference Calendar



2008

The 9th International Conference on Circulating Fluidized Beds

May 13-16, 2008, Hamburg, Germany

Abstract deadline: passed

Website: <http://www.cfb9.org>

Computational Fluid Dynamics in Chemical Reaction Engineering V

June 15-20, 2008, Whistler, Canada

Abstract deadline: passed

Website: www.engconfintl.org/Baf.html

Gordon Research Conference on Granular and Granular-Fluid Flow

June 22-27, 2008, Colby College, Maine

Applications due: June 1, 2008

Website: <http://www.grc.org/programs.aspx?year=2008&program=granular>

**The XVth International Congress on Rheology: Mini-Symposium on
Granular Materials and Ageing**

August 3 - 8, 2008, Monterey, California

Abstract deadline: passed

URL: <http://www.rheology.org/ICR2008/default.aspx>

Annual AIChE Meeting

November 16-21, 2008, Philadelphia Marriott & Pennsylvania Convention Center,
Philadelphia, PA

Website: <http://www.aiche.org/Conferences/Calendar/2008.aspx>

Abstract deadline: May 11, 2008

2009

**Institute of Mathematics and Its Applications (IMA) Workshop on Dense,
Granular Flows**

January 5-9, 2009, Cambridge, UK

Powders & Grains 2009

July 13-17, 2009, Golden, Colorado

Abstract deadline: July 1, 2008

Website: <http://PandG2009.mines.edu>

2009 Annual AIChE Meeting

November 8-13, 2009, Nashville, TN

Officer and Committee Listing



Officers:

Chair 2006-2008 Dr. Shrikant Dhodapkar, sdhodapkar@dow.com, 979-238-7940
Vice-Chair 2006-2008: Professor Hugo S. Caram, hsc0@lehigh.edu, 610-758-4259
Immediate Past Chair 2004-2006: Professor Alan Weimer, weimera@colorado.edu, 303-492-3759
Secretary 2006-2008: Dr. Patrick Spicer, spicer.pt@pg.com, 513-634-9628
Treasurer 2006-2008: Professor Joseph McCarthy, mccarthy@engr.pitt.edu, 412-624-7362

Liaisons:

Academic 2004-2008: Professor Christine Hrenya, hrenya@colorado.edu, 303-492-7689
Academic 2004-2008: Professor Rajesh N. Dave, dave@njit.edu, 973-596-5860
Academic 2006-2010: Professor Jennifer Sinclair Curtis, jcurtis@che.ufl.edu, 352-392-0882
Academic 2006-2010: Professor Joseph McCarthy, mccarthy@engr.pitt.edu, 412-624-7362
Industry 2004-2008: Dr. Ray Cocco, raycocco@mac.com, 989-631-1166
Industry 2004-2008: Dr. Patrick Spicer, spicer.pt@pg.com, 513-634-9628
Industry 2006-2010: Dr. Ecevit Bilgili, ecevit_bilgili@merck.com, 215-652-2821
Industry 2006-2010: George Fotou, george_fotou@cabot-corp.com, 505-563-4275
AIChE-CTOC: Dr. Joseph Cramer, josec@aiche.org, 313-577-3767
AIChE Staff Associate: Mr. Simon Spitalny, simos@aiche.org, 212-591-7478

Standing Committees (Chairs):

Awards Committee 2006-2008: Professor Hugo S. Caram, hsc0@lehigh.edu, 610-758-4259
Education: Dr. Ralph D. Nelson, erptmged@aol.com, 302-239-0409
Membership: Mark Bumiller/Hugo Caram, mark.bumiller@malvernusa.com, 508-480-0200, ext. 222/hsc0@lehigh.edu, 610-758-4259
Newsletter Editor: Professor Christine Hrenya, hrenya@colorado.edu, 303-492-7689
Nominations: Professor Alan Weimer, weimera@colorado.edu, 303-492-3759
Recognition: Professor Sotiris Pratsinis, pratsinis@ivuk.mavt.ethz.ch, 41-1-632-3180

Technical Programming Area Liaison and Group Chairs

The main focus of the PTF has been arranging for the extensive technical programs at the annual AIChE meeting in November. A lot of hard work goes into developing session themes, negotiating for sufficient time and reasonable scheduling of the sessions, attracting and screening papers, finding and training new session chairs, and making sure the whole process flows smoothly. Shrikant Dhodapkar, our Area 3 Liaison, attends an all-day session each January to plan the technical sessions at the Annual Congress and to arrange for co-sponsored sessions with other Divisions and Forums. Participation in this process is excellent training in and proof of management capabilities. The leaders selected this fall were

<u>Position</u>	<u>Person</u>	<u>Affiliation</u>
Area 3 Liaison	Dr. Manuk Colakyan	The Dow Chemical Co.
Area 3 Vice Liaison	Dr. Shrikant Dhodapkar	The Dow Chemical Co.
<i>Group 3a – Particle Production and Characterization</i>		
Chair	Dr. Patrick Spicer	Procter & Gamble Co. CETL
Vice-Chair	Prof. M. Silvina Tomassone	Rutgers University
<i>Group 3b – Fluidization and Fluid-Particle Systems</i>		
Chair	Dr. Jesse Zhu	Univ. of Western Ontario
Vice Chair	Reza Mostofi	UOP
<i>Group 3c – Solids Flow, Handling, and Processing</i>		
Chair	Prof. Benjamin Glasser	Rutgers University
Vice Chair	Dr. Bruce Hook	Dow Chemical
<i>Group 3d - Nanoparticles</i>		
Chair	Professor Yangchuan Xing	University of Missouri-Rolla
Vice Chair	Gary Liu	DuPont
<i>Group 3e – Energetic Materials</i>		
Chair	Charles R. Painter	Department of the Navy
Vice Chair	Jerry S. Salan	Naval Surface Warfare Center

Report from the Treasurer



Although I am typically about 2-3 months out-of-phase with the AIChE account (they send the balance sheets late) here is the state of the accounts as of the end of 2007. I expect a “final accounting” correction from AIChE sometime soon, but these numbers are all correct to date.

AIChE Account	Starting	Income	Expenses	Balance
As of 11/30/2006	\$14,055.92			
Investment Income (Dec.)		\$704.55		
Investment Income (April)		\$200.88		
Investment Income (June)		\$751.79		
Investment Income (Sept)		\$1,411.96		
Investment Income (Dec)		\$1,017.12		
Investment Income YTD				\$3,381.75
Dues Income – Divisions (Dec.)		\$35.00		
Dues Income – Divisions (Jan.)		\$885.00		
Dues Income – Divisions (Feb.)		\$210.00		
Dues Income – Divisions (Mar.)		\$180.00		
Dues Income – Divisions (Apr.)		\$225.00		
Dues Income – Divisions (May)		\$120.00		
Dues Income – Divisions (June)		\$90.00		
Dues Income – Divisions (July)		\$78.00		
Dues Income – Divisions (Aug)		\$600.00		
Dues Income – Divisions (Sept)		\$600.00		
Dues Income – Divisions (Oct)		\$510.00		
Dues Income – Divisions (Nov)		\$405.00		
Dues Income – Divisions (Dec)		\$810.00		
Total Dues YTD				\$4,713.00
Registration Income - Special Events (07-08)		\$195.00		
Registration Income - Special Events (07-09)		\$2,340.00		
Registration Income - Special Events (07-10)		2,210.00		
Registration Income - Special Events (07-11)		1,235.00		
Registration Income – YTD				\$5,980.00
Contributions – Al Weimer (06-12)		\$500.00		
Contributions – PSRI (06-12)		\$1,000.00		
Contributions – Dupont (06-12)		\$1,000.00		
Contributions – Dupont (07-12)		\$1,000.00		
PTF Dinner Awardees			\$4,500.00	
Conference Restaurant – Payment			\$3,525.96	
Conference Dinner Hall – Payment			\$1,783.75	
Supplies - Special Purpose (Plaques)			\$440.64	
Miscellaneous Exp (Dinner)			14.38	
Supplies - Special Purpose (Area Plaques)			\$95.19	
AIChE correction from 2005			\$2,500.00	
Totals as of 11/01/2007	\$14,055.92	\$18,314.30	\$12,859.92	\$19,510.30
Pitt Account	Starting	Income	Expenses	Balance
As of 01/24/2007	\$1,432.68			
Add'l Plaque (Area 3e)			\$63.00	
Miscellaneous Exp (bank fee)			\$22.39	
Web Hosting			\$119.70	
Contributions – PSRI (07-10)		\$1,000.00		
Miscellaneous Exp (check order)			\$20.13	
Web Hosting (Nov)			\$19.95	
Web Hosting (thru Sept)			\$159.60	
Conference Restaurant – Payment			\$469.89	
Totals as of 11/01/2007	\$1,432.68	\$1,000.00	\$874.66	\$1,558.02

Due to the difficulty in keeping track of award money donations that come through AIChE, I will be changing the process this year and will have all future award donations go through the Pitt account.
Joe McCarthy, PTF Treasurer

From the Editor's Desk



The *PTF Newsletter* is published twice a year as a vehicle for communication for all PTF members. PTF members are encouraged to send in news and information of general interest to PTF members. Please address your communication to

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If you would prefer to continue receiving a hard copy of the newsletter instead of the electronic version, please send a note to this effect to the editor at the above address.

Advertisements may also be placed in the newsletter. The rates on a per issue basis are:

1/4 page \$40

1/2 page \$60

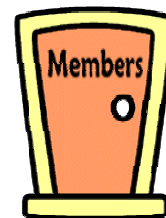
Full page \$110

Moving? New E-mail?



Help us get PTF news to your new address by filling in and e-mailing a change of address form. See the PTF web page at

<http://www.erpt.org/ptf/addrchng.txt>



Membership Information

Membership Application for the Particle Technology Forum, AIChE

CONTACT INFORMATION (print or type):

Name: _____ Title: _____

Category (check only one): AIChE Member [# if you are a member = _____]

Not an AIChE member

Company or University: _____

Address: _____

City: _____ State: _____ ZIP: _____ Country: _____

Work Phone: _____ FAX: _____

Email: _____

MEMBERSHIP DUES (check only one line below) [Note that dues are for a calendar year]:

15.00 \$US for one year. Anyone use this option. For AIChE members dues will be listed on your AIChE dues invoice after your first year in PTF. Nonmembers don't receive a dues notice.

75.00 \$US for five years dues. **Only** nonmembers of AIChE are eligible for this option, which is provided as a courtesy so that non-members won't have to send in five small checks.

METHOD OF PAYMENT (check and fill-in only one line below):

check (must be in \$US on a U.S. bank or on a foreign bank with a New York City branch.)

Make payable to **Am. Inst. of Chem. Engineers**. Mail with form to the address below.

money order (an international money order in \$US is acceptable)

Make payable to **Am. Inst. of Chem. Engineers**. Mail with form to the address below.

credit card (only VISA or MasterCard are accepted)

I agree to pay the amount checked-off above to the **Am. Inst. of Chem. Engineers**

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Mail to the address below or FAX to (212)-591-8888 (in the United States)

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