



PTF *Newsletter*

Particle Technology Forum

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

Vol. 10 No. 2

Spring 2005

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



I'm ecstatic to be serving as Chair of PTF for a two year term. This is a fantastic organization with a fantastic membership that has been very active in particle technology functions throughout the world. I still remember my first paper presented at an AIChE Area 3b session in San Francisco in the late 70's. Prof. Grace was the session Chair and I remember him preparing me (at the Speaker's Breakfast) for what was to be the first question – a question from Professor Rowe about the existence (or lack) of gas jets! I was amazed when indeed Professor Rowe jumped up after my talk and asked the exact question that Prof. Grace said he would. Thanks John! I'll never forget that. We all recognize the collegiality of PTF members and this is certainly one of the reasons that our PTF banquet dinner is always sold out. Many friendships have started in PTF!

Annual Meeting Scheduling Changes

Based on last year's committee meeting input from members, we will attempt to hold all sessions in Cincinnati on Monday-Wednesday only. This may mean that certain PTF tracks will conflict with other PTF tracks. However, we intend to limit our activities to the first three days of the meeting in order to condense our activities. Also, the PTF dinner will be scheduled for Wednesday evening instead of Tuesday evening and the Baron Award lecture will be fit into the most appropriate session during the day instead of Wednesday evening. We will also use PTF funds to supplement wine and cheese during the social hour before the dinner. This seemed to go over well at the last dinner. So, as always, heed my advice and sign up early for the PTF dinner in order to avoid being shut out!

Fifth World Congress

The PTF has a lead role in organizing the Fifth World Congress on Particle Technology to be held April 23-27, 2006 in Orlando, FL. Please check the web site (www.wcpt5.org) for more detailed information and be sure to submit an abstract. The venue will be at the Walt Disney World Swan & Dolphin Hotel, so bring your family. We expect high participation at this meeting and look forward to providing an informative and enjoyable meeting for our colleagues from around the globe. We thank George Klinzing (Conference Chair), Shrikant Dhodapkar (Technical Program Chair), and Mark Bumiller (Expo Chair) for being the lead organizers of this meeting.

Professor Alan Weimer
PTF Chair

PTF Member Elected as AIChE President

John Chen, the Carl R. Anderson Professor of chemical engineering and former dean of the P.C. Rossin College of Engineering and Applied Science at Lehigh University, has been elected president of the American Institute of Chemical Engineers. He will serve as president-elect in 2005 and as president in 2006.



AIChE, the premiere professional society for chemical engineers worldwide, has 40,000 members, 15 technical divisions, 107 professional sections, and numerous student chapters, including an active chapter at Lehigh. The organization, with an annual budget of around \$15 million and a full-time staff of 40, holds two large national and international conferences each year, along with a number of topical meetings. AIChE also sets the standards for the formal accreditation of chemical engineering curricula at U.S. universities.

Chen said he will seek during his term as president to:

- Strengthen AIChE's international reputation as the principal "forum for the frontiers of chemical engineering research."
- Promote the transfer of new technologies from academia to industry and involve more members of industry in its meetings and symposia.
- Help chemical engineers adapt to the changes in engineering careers that have been brought about by the explosion of information technology and globalization of industry.
- Enhance the institute's ability to promote research and technology transfer in emerging fields.

Chen said the vast scope of the chemical engineering profession poses a challenge to a professional society like AIChE. "Chemical engineers are the only engineers who are trained to think at the microscale of molecules and also at the system scale of an entire chemical plant," says Chen. "We play a major role not only in the legacy industries, such as energy, petrochemicals and polymers, but also in emerging fields such as bioengineering, nanotechnology, advanced materials, and advanced pharmaceuticals and medicine. "For a professional society, this range of interests can be a real challenge. Our members work across a very diverse array of fields, so our organization must strive to maintain a sense of professional identity and to promote networking opportunities for members."

A graduate of the Cooper Union, Carnegie Mellon University, and the University of Michigan, Chen joined the Lehigh faculty in 1970 after a decade in industry and national laboratories. In addition to serving as engineering dean, Chen has served as chairman of the chemical engineering department and as a professor in Lehigh's department of mechanical engineering and mechanics. He is a fellow of AIChE, a fellow of the American Society of Mechanical Engineers, a member of the American Chemical Society, and a member of the American Association for Advancement of Science. In his research, Chen studies transport phenomena in multi-phase systems, an area affecting industries ranging from power production, to petroleum refining, to polymer processing. He has published more than 200 technical articles, including one from 1966, "Correlation for Boiling Heat Transfer to Saturated Fluids in Convective Flow," which last year received the Classic Paper Award from the ASME. Chen has won 16 other major national or international awards, including the Max Jakob Memorial Award, which is the top international prize for achievements in the science and technology of heat transfer.

Call for PTF Award Nominations



Best Ph.D. in Particle Technology Award

Sponsor(s): Proctor and Gamble Company

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.

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 4) at least one letter from industry; and 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.

Fluidized Processing Recognition Award

Sponsor(s): Dow Chemical Company Foundation

Description: Recognizes a Forum member who has made significant contribution to the science and technology of fluidization or fluidized processes, and who has shown leadership in the engineering community. Awarded bi-annually in odd numbered years.

Particle Technology Forum Award

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.

Leadership Award in Fluidization

Sponsor(s): Fluor Daniel Foundation

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 awardees are 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.

Thomas Baron Award in Fluid-Particle Systems

Sponsor(s): Shell Development Company

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.

Send nominations to the Particle Technology Forum Awards Committee Chair, Dr. Shrikant Dhodapkar, B-1402, Solids Processing Lab, Engineering Sciences and Market Development, The Dow Chemical Company, Freeport, TX 77541; Phone: 979-238-7940; Fax: 979-238-0969; E-mail: sdhodapkar@dow.com.

Extended Deadline: April 15th, 2005

For more information, please visit the website: <http://www.aiche.org/awards/divlist.htm>

Student Poster Award Winners

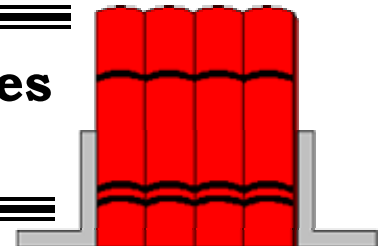


Congratulations to the following students for their excellent contributions to the PTF Poster Session at the 2004 AIChE Annual Meeting.

1st place: Todd Francis, university of Colorado, "Dispersion of Solids using Spinning Wheel Feeders"

2nd place: Yongxin Song, West Virginia university, "Application of the Contact Algorithm for Tablet-Shaped Bodies in DEM Simulations," **Particle Technology Forum Banquet**

Latest Issue of Educational Resources for Particle Technology



I have just posted the latest issue of the Web journal, *Educational Resources for Particle Technology*. This is part of the ERPT tutorial Web site, provided as a public service in an area very under-served by the academic community in the U.S. The direct link to the new issue is www.erpt.org/051Q/covr0501.htm, but you can get there from the main ERPT page. I hope that you enjoy these additions to our offerings. The ERPT site has had a rising number of "hits" each year since we started in 1999, reflecting continuing interest in our ever-expanding list of resources.

Dr. Ralph D. Nelson, Jr., P.E. – Managing Editor
Educational Resources for Particle Technology

<http://www.erpt.org>

2005 AIChE Annual Meeting

October 30 - November 4, 2005

Cincinnati Convention Center

Cincinnati, OH

URL: <http://www.aiche.org/conferences/annual/>



Cincinnati Style Chili

PTF Session	Chair	Co-Chair
Solids Handling and Processing	Bruce Hook bdhook@dow.com	George Klinzing Klinzing@engrng.pitt.edu
Panel Discussion on Solids Handling – this session is dedicated to the memory of Fred Thomson	Shrikant Dhodapkar sdhodapkar@dow.com	Timothy Bell Timothy.A.Bell@usa.dupont.com
Dynamics and Modeling of Particulate Systems	Joerg Theuerkauf JTheuerkauf@dow.com	Ben Glasser bglasser@soemail.rutgers.com
Fundamentals of Fluidization I	T.C. Ho hotc@hal.lamar.edu	Bruce Hook bdhook@dow.com
Fundamentals of Fluidization II	Isaac Gamwo Gamwo@netl.doe.gov	Ben Glasser bglasser@soemail.rutgers.edu
Circulating Fluidized Beds	S.B. Reddy Karri rkpsri@ix.netcom.com	Clay R. Sutton crs9@lehigh.edu
Tutorial: Industrial Applications of Nano-Particle Technology	George Foutou george_fotou@cabot-corpo.com	Shrikant Dhodapkar sdhodapkar@dow.com
Characterization of Engineered Particles and Nano-Structured Particles	Gregory Beaucage gbeaucag@uceng.uc.edu	Mark Bumiller Mark.Bumiller@malvernusa.com
Gas Phase Synthesis of Particles I	Amit Limaye amit.limaye@chrysalis-technologies.com	Srinivas Vemury svemury@kmg.com
Transport in Fluidized Beds	Ray Cocco raycocco@mac.com	Sofiane Benyahia sof@fluent.com
Mixing and Segregation	James F. Gilchrist gilchrist@lehigh.edu	Joseph McCarthy mccarthy@engrng.pitt.edu
Population Balance Modeling for Control of PF Processes; Nucleation, Aggregation and Breakage Kernels	Edward P. Gatzke gatzke@sc.edu	Richard B. McClurg mcclurg@cems.umn.edu
Computational and Numerical Approaches to Particle Flow	Jennifer S. Curtis jcurtis@che.ufl.edu	Pedro Arce parce@tntech.edu
Agglomeration, Granulation and Particle Formation Processes	Paul Mort mort.pr@pg.com	Rebecca L. Carrier rebecca_carrier@groton.pfizer.com

PTF Session	Chair	Co-Chair
Functional Nano-particles and Applications	George Foutou george_fotou@cabot-corpo.com	Jan Sefcik sefcik@tech.chem.ethz.ch
Purification, Separation, and Manipulation of Nano-particles	Yangchuan Xing xingy@umr.edu	Benjamin C. Fuchs benjamin.c.fuchs@usa.dupont.com
Modeling and Scale-up of Nano-particle Processing	Roger Place RogerPlace@compuserve.com	Silvina Tomassone silvina@sol.rutgers.edu
	Rajesh Dave dave@NJIT.EDU	TBD
Nano-particle Based Devices	Agnes Ostafin aostafin@nd.edu	Shrikant Dhodapkar sdhodapkar@dow.com
Gas-Phase Synthesis of Particles II	Karsten Wegner karsten.wegner@flamepowders.com	Yakov Kutsovsky yakov_kutsovsky@cabot-corp.com
Liquid-solid Fluidization	Maureen A. Howley maureen.a.howley@njit.edu	Seyi A. Oduyungbo, Seyi.A.Oduyungbo@conocophillips.com
Nano-Energetic Materials	Jan A. Puszynski jan.puszynski@sdsmt.edu	Hendrik J. Viljoen, chrhjv@engvms.unl.edu
Processing and Safety of Energetic Materials	Dilhan Kalyon dkalyon@stevens.edu	Kristine Jasinkiewicz, kjasink@pica.army.mil
Energetic Materials: Environmental and Life Cycle Issues	Charles R. Painter paintercr@ih.navy.mil	Doris A. Anders, doris.anders@brooks.af.mil
Co-Sponsored Sessions		
Self and Directed Assembly at the Nanoscale	Hank Ashbaugh, hank@lanl.gov	Kristen A. Fichthorn fichthorn@psu.edu
Materials Synthesis Assembly at the Nanoscale	Raashina Humayun raashina.humayun@novellus.com	Rajesh Dave dave@NJIT.EDU
Particle Formation and Crystallization Processes from Liquids or Slurry	Priscilla J. Hill phill@che.msstate.edu	Patrick T. Spicer spicer.pt@pg.com
Structure Modeling of Particles, Surfaces and Aggregates	Jan Sefcik sefcik@tech.chem.ethz.ch	Iлона Kretzschmar, kretzschmar@ccny.cuny.edu
Molecular Modeling and Surface Interactions	Roger Place rogerplace@compuserve.com	Silvina Tomassone silvina@sol.rutgers.edu
Coating and Encapsulation of Nutraceu-tical and Pharmaceu-tical Products	Michael M. Choi michael.choi@particlecoating.com	Mayur P. Lodaya, Mayur.Lodaya@pfizer.com
Nanoparticle Synthesis and Stabilization	Darrell Velegol velegol@psu.edu	TBD
Liquid-Phase Synthesis of Nanoparticles	Michael T. Harris mtharris@ecn.purdue.edu	Michael Z. Hu hum1@ornl.gov
Low Dielectric Materials	Stephen E. Rankin srankin@engr.uky.edu	TBD
Nanoparticle Assemblies and Superlattices	Michael Z. Hu hum1@ornl.gov	Iлона Kretzschmar, kretzschmar@ccny.cuny.edu
Nanotechnology in the Wood Fiber and Paper Industries	Yulin Deng yulin.deng@ipst.gatech.edu	Bandaru V. Ramarao bvramara@syr.edu
Nanotechnology and Nanobio-technology for Sensors	Mark W. Vaughn Mark.Vaughn@ttu.edu	Venkat R. Bhethanabotia venkat@eng.usf.edu

WCPT5



Every four years members of the global particle technology community converge to share their latest insights and applications to industrial, academic, and civil problems. The meeting place cycles between three groups of continents. Please join us in 2006. The WCPT-5 will be held on April 23-27, 2006, in the United States of America at the Swan and Dolphin Hotel in Walt Disney World, Lake Buena Vista, Florida.

WHAT WILL WCPT-5 OFFER?

- ◆ a student conference prior to the Congress
- ◆ introductory seminars for people entering the field
- ◆ five technical tracks with interdisciplinary sessions
- ◆ a technical exposition the latest information and hardware resources for making, measuring, processing, and handling all types of particles
- ◆ seven plenary speakers explain key technical areas
- ◆ banquet and coffee breaks to chat with your colleagues
- ◆ many tourist attractions nearby for your family to enjoy

Timeline:

Between **May 1, 2005** and September 1, 2005, you must file a "Proposal to Present" (PTP) for your presentation. A link to that form will be posted to the web site (<http://www.wcpt5.org>) during the specified period. You must submit the authors, title, an abstract of 200 words or less, a preference for oral, poster, or dual presentation, and a preference for the track in which you wish it to be presented.

Note 1: We are accepting dual oral / poster presentations. For this you would submit a single PTP and a single abstract, you would make the oral presentation and also participate in a poster session. This allows interested parties more time to study the material and to discuss it with the author. You must indicate on the PTP that you wish to make a dual oral / poster presentation.

Note 2: To provide flexibility in organizing the technical sessions you will submit your proposal to one of the five tracks rather than to a specific technical session. The track and session chairs will then group the presentations into suitable technical sessions.

By **October 1, 2005**, each submitting author will be notified if his/her presentation has been accepted.

By **December 1, 2005**, you must file a six-page extended abstract of your presentation (if it was accepted). If you do not submit this extended abstract your presentation will be withdrawn from the program. The abstract should be submitted as a PDF file. Authors who cannot produce a PDF file may submit camera-ready copy of the extended abstract. The address to which the abstract should be sent will be provided to you at the time you are notified of acceptance.

“Know Floe’s Korner”



Top Ten Tips For Making a Better Poster Presentation

Shrikant Dhodapkar, George Klinzing, Lyn Bates

1. Understand your target audience: Start with a clear message that attracts relevant attention. Researchers and practitioners of powder technology who are keen to learn about your work will give feedback if the information is accessible and understandable. Do not expect instant, in-depth critique, so provide means for considered response.
2. Poster Layout: Posters are not enlarged journal articles pasted on a poster board. Make the sequence of information clear, preferably from left to right. Use column format, if possible, because it helps the audience to move through the poster. Readers usually read from left to right, top to bottom.
3. Choose the right fonts: Poster to be easily viewed and understood from 4 feet. Vary fonts to identify headings and subheadings. Have titles of substance. Avoid clutter. Gather text into concise, digestible pockets with clear links to subject.
4. Use meaningful and explicit headings and subheadings. Be creative and avoid generic headings (introduction, experimental, results, conclusions etc.). Use a bold, properly designed title banner. Objective and outcome to be clear.
5. Graphics / Illustrations: Graphics should visually dominate the poster. Keep them self-explanatory and simplify the content by removing unnecessary data. Identify key graphics that you will use to make your case during the presentation. Label the pictures, graphics and sketches for experimental setup. Avoid abbreviations.
6. Make sure photos are not confused by irrelevant background or distracting accessories. Bring out key features by pins, arrows or threads to notes.
7. Use color, especially strong color, in moderation. It can be distracting. Use color to link associated information and pale background for emphasis.
8. Prepare a 5 minute, crisp presentation on the poster that explains the overall problem, the context of your research, what do you did, the results and the implications. Have a shortened, 2 minute version, handy depending on the audience. Speak clearly and loudly for the gathered audience.
9. Have a support package with neat copies of relevant photos, drawings, sketches, graphs charts and tables, with handout of reduced copies of the poster for interested parties and text review that explains the background and summarizes the current position, with invitation for comment.
10. Keep your business card handy for someone keen on discussing details of your work, with notepad and pen(s) and folder for other business cards.

Upcoming Conference Calendar



2005

2005 NSTI Nanotechnology Conference and Trade Show

May 8-12, 2005, Anaheim, CA

Abstract Deadline: passed

Website: www.nsti.org/Nanotech2005

8th International Conference on Circulating Fluidized Beds

May 10-13, 2005, World Trade Center, Hangzhou, China

Abstract Deadline: May 1, 2004

Website: <http://ceee.zju.edu.cn/CFB8.htm>

Particulate Processes in the Pharmaceutical Industry

June 26-30, 2005, Montreal, Quebec, Canada

Abstract Deadline: passed

Website: www.engconfintl.org/5ap.html

7th World Congress of Chemical Engineering

July 10-14, 2005, Glasgow, Scotland

Abstract Deadline: passed

Website: www.chemengcongress2005.com

Powders and Grains 2005

July 18-22, 2005, Stuttgart, Germany

Abstract Deadline: passed

Website: <http://www.ica1.uni-stuttgart.de/~pg2005/serv01.htm>

Particle Systems Analysis PSA 2005

September 21-23, 2005, Stratford-upon-Avon, England

Abstract Deadline: passed

Website: www.psa2005.com



AIChE Annual Meeting

October 30-November 5, 2005, Cincinnati Convention Center, Cincinnati, OH

Abstract Deadline: May 25, 2005

Website: <http://www.aiche.org/conferences/annual/>

2006

The Fifth World Congress on Particle Technology

April 22-26, 2006, Orlando FL

Abstract Deadline: September 1, 2005

Website: <http://www.wcpt5.org>

Gordon Conference on Granular and Granular-Fluid Flow

July 23-28, 2006, Queens College, Oxford University

Website: <http://grc.org/06sched.html>

CHOPS-05, 2006 – The Fifth International Conference for Conveying and Handling of Particulate Solids

August 27-31, 2006, Hilton Hotel, Sorrento, Italy

Abstract Deadline: July 31, 2005

Website: www.ortra.com/solids

American Association for Aerosol Research Second International Symposium on Nanotechnology and Educational Health

October 17-21, 2005, Hilton Austin, Austin, TX

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

Annual AIChE Meeting

November 12-17, 2006, San Francisco Hilton, San Francisco, CA

(details will be available in February 2006)

International Aerosol Conference 2006

September 10-15, 2006, St. Paul, MN

Abstract Deadline: February 1, 2006

Website: <http://www.aaar.org/IAC06/index.htm>

Officer and Committee Listing



Officers:

Chair 2004-2006: Professor Alan Weimer, alan.weimer@colorado.edu, 303-492-3759
Vice-Chair 2004-2006: Dr. Shrikant Dhodapkar, sdhodapkar@dow.com, 979-238-7940
Immediate Past Chair 2002-2004: Dr. Ralph D. Nelson, erptmged@aol.com, 302-239-0409
Secretary 2004-2006: Dr. Pat Spicer, spicer.pt@pg.com, 513-634-9628
Treasurer 2004-2006: Professor Judy Raper, raperj@umr.edu, 573-341-7518

Liaisons:

Academic 2002-2006: Professor Hugo S. Caram, hsc0@lehigh.edu 610-758-4259
Academic 2002-2006: Professor Brij Moudgil, BMoudgil@erc.ufl.edu 352-846-1194 x 225
Academic 2004-2008: Professor Christine Hrenya, hrenya@colorado.edu, 303-492-7689
Academic 2004-2008: Professor Judy Raper, raperj@umr.edu, 573-341-7518
Industry 2002-2006: Professor Manuk Colakyan, colakymc@dow.com, 304-747-4580
Industry 2002-2006: Dr. Costas Coualaloglou, costas.a.coualaloglou@exxonmobil.com
Industry 2004-2008: Dr. Ray Cocco, raycocco@mac.com, 989-631-1166
Industry 2004-2008: Dr. Pat Spicer, spicer.pt@pg.com, 513-634-9628
AIChE-CTOC: Esin Gulari, egulari@nsf.gov, 703-292-7026
AIChE Staff Associate: Ms. Anette Ngijol, anets@aiche.org, 212-591-7478

Standing Committees (Chairs):

Awards Committee 2004-2006: Dr. Shrikant Dhodapkar, sdhodapkar@dow.com, 979-238-7940
Membership: Dr. Manuk Colakyan, colakymc@ucarb.com, 304-747-4580
Newsletter Editor: Professor Christine Hrenya, hrenya@colorado.edu, 303-492-7689
Nominations: Dr. Ralph Nelson, erptmged@aol.com, 302-239-0409
Recognition: Dr. Reg Davies, rdavies@erc.ufl.edu, 302-235-7468
Educational Resources for Particle Technology: Dr. Ralph Nelson, erptmged@aol.com, 302-239-0409

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	Prof. Alan Weimer	University of Colorado
<i>Group 3a – Particle Production and Characterization</i>		
Chair	Prof. Rajesh N. Dave	New Jersey Inst. of Technology
Vice-Chair	Vacant	
<i>Group 3b – Fluidization and Fluid-Particle Systems</i>		
Chair	Prof. T.C. Ho	Lamar University
Vice Chair	Dr. Ray Cocco	The Dow Chemical Co.
<i>Group 3c – Solids Flow, Handling, and Processing</i>		
Chair	Prof. Joe McCarthy	Univ. of Pittsburgh
Vice Chair	Vacant	
<i>Group 3d - Nanoparticles</i>		
Chair	Dr. George Fotou	Cabot, Inc.
Vice Chair	Vacant	
<i>Group 3e – Energetic Materials</i>		
Chair	Bruce Cranford, P.E.	EMF Co.
Vice Chair	Chester Clark	Naval Surface Warfare Center



Report from the Treasurer

PTF Report from the Treasurer

The transactions for the PTF account from the time period 01/01/04 through 01/31/05 are given in the table below:

Description of Transaction	Transaction Amount	Balance
Beginning Balance 08/01/04		\$10,214.19
Expenses 08/01/04 – 01/31/05		
Supplies – special purpose	\$535.15	
Audio Visual Equipment Rental	\$95.85	
Miscellaneous Services and Expenses	\$674.24	
Monetary Awards	\$3,500.00	
PTF Dinner in Austin	\$4,180.00	
Total expenses for period	\$8,985.24	\$1,228.95
Revenues 08/01/04 – 01/31/05		
Dues Income	\$4,131.54	
PTF Dinner Income	\$3,720.00	
Contributions - Corporate	\$2,500.00	
Investment Income - Interest	\$1,421.64	
Total income for period		
	\$11,773.18	\$13,002.13

Respectfully submitted,
Professor Judy Raper, 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

Professor Christine M. Hrenya
Department of Chemical and Biological Engineering
University of Colorado
Boulder, CO 80309-0424
Tel: (303) 492-7689; Fax: (303) 492-4341
email: hrenya@colorado.edu

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

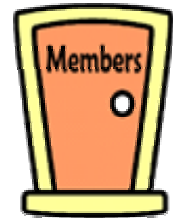
Full page \$110

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):

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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)
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- 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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Card Number: _____ / _____ / _____ / _____ Expiration Date ____ / ____

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