



PTF *Newsletter*

Particle Technology Forum

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

Vol. 10 No. 1

Fall 2004

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



Elections: This year we are conducting our election of the Executive Committee of the PTF by Email, so all members will have the opportunity to vote --not just those who attend the annual meeting. PTF officers are elected by the Executive Committee, so you will be voting only for members of the Executive Committee. The specification of the years in which academic and non-academic members would be eligible for election as Vice Chair was inadvertently reversed, so an amendment to fix the error (and maintain the traditional years for the alternation) will be voted on at the annual meeting.

Publicizing PTF and Recruiting New Members: No PTF funds were spent on these activities.

#1 -- On March 16-18, 2004, Vice Chair Alan Weimer and I attended **POWTECH / PARTEC 2004** in Nuremberg, Germany. In addition to presenting papers and hearing the latest research findings, we wanted to make the European technical community more aware of the Particle Technology Forum and to invite them to participate in the Fifth World Congress on Particle Technology. Four colleagues from the University of Florida and three from ETH Zurich took turns staffing the PTF information table.

#2 -- On May 4-6, 2004, I represented the PTF and WCPT5 at the **2004 International Powder & Bulk Solids Conference / Exhibition** in Rosemont IL. About 50 people stopped by the booth for a chat and literature, and I met many others as I toured the aisles.

Finances: Because its auditors raised a red flag about the many un-audited division bank accounts around the nation the AIChE consolidated the funds of most divisions under a single accounting system, with each Division allowed up to \$2,500 in an external checking account. The Particle Technology Forum has had only a few problems with the new system.

The PTF has the lead role in organizing the Fifth World Congress on Particle Technology in May 2006. Plans and staffing are moving steadily forward. If you can help out by chairing a session, finding exhibitors, welcoming international visitors, or in another capacity, please check the Web site at <www.wcpt5.org>, then send an Email to the conference chair (George Klinzing) at confchair@wcpt5.org, the technical program chair (Shrikant Dhodapkar) at tech-chair@wcpt5.org, or the expo chair (Mark Bumiller) at expo@wcpt5.org. We look forward to providing an informative and enjoyable meeting for our colleagues from around the globe.

Farewell, but Please Follow: I have enjoyed the opportunity to serve as PTF vice chair in 2000-2002 and PTF chair in 2002-2004. During these four years I have become better acquainted with many colleagues around the world, and I have improved my ability to lead and to mentor professional technologists dedicated to improving our profession. My advice to you is "Do not be shy about accepting an opportunity to serve in a leadership position. The work is real, but so is the personal and professional growth you will acquire. Accept the challenge!"

Dr. Ralph D. Nelson, Jr., P.E.
PTF Chair

Brian Scarlett Remembered



I regret to inform you of the death of my friend of 40 years, Professor Brian Scarlett. He was born in Biddulph, Staffordshire, England, on July 11th, 1938, and passed away on Thursday September 2nd in the Gainesville, Florida Hospice after a long illness. He was 66. He was cremated at the Williams and Thomas Funeral Home in Gainesville on September 8th, and his life celebrated in a memorial service on that evening. His ashes will be interred in Biddulph, and a formal memorial event will be arranged in Delft sometime in late October.

He was educated at Wolstanton County Grammar School. He obtained a B.Sc. and M.Sc. in Physics from the University of Durham in 1964. He was later awarded a DSc. in Chemical Engineering both from the Universities of Coimbra, Portugal in 1998, and Loughborough, England in 1999.

After graduation from Durham, he worked for the United Kingdom Atomic Energy Authority at Chapel-Cross Works in Scotland. After two years he returned to academia, taking a research assistant post at the Nottingham and District Technical College, now Nottingham Trent University. He was research assistant to Professor Brian Kaye. It was in Nottingham that he was introduced to the subject of Particle Technology, which became his technical passion for the remainder of his life. He and I met for the first time there 40 years ago. I was working on my PhD. We have remained good friends since then.

After three years, he joined the staff of the nearby Loughborough College of Technology, and formed a Particle Technology group there. He remained at Loughborough for 20 years, seeing it grow to University status. He led the Particle Technology group as a Senior Lecturer. In 1973, he became involved in local politics, and was elected to Charnwood District Council. Later, he was appointed to represent Leicestershire District Councils on Trent River Authority. He rose to the position of Chairman of Water Management. He found the work seductive, but eventually reached the point where a choice between a career in politics or academia had to be made. He chose academia, and he focused the final twenty years of his life on Particle Technology. He became one of the most recognized, respected and effective leaders in this technology in the world.

Shortly after making his decision to devote his life to academic affairs, he moved to the University of Delft in the Netherlands, where he was appointed Professor of Chemical Technology in the Departments of Chemical Engineering, Mechanical Engineering and Mining. He supervised a large research group, producing 50 Ph.D. and close to 150 M.Sc. and other Engineering theses. This work resulted in close to 350 publications, articles, and presentations at conferences worldwide. However, his legacy was not rooted in his writing, but more in the development of his students. No one could have cared more for students than Professor Brian Scarlett. He encouraged them to write, and publish their work. He would review, correct and improve their papers for their presentation on the world stage. He sent his students all over the world carrying the message of particle science and technology. He gave them unique experiences, permitting them to become known and respected by their peers. A vision will always remain of Brian Scarlett

News and Announcements

walking through the conference halls on nearly every continent followed by his entourage of students.

He is remembered for his service to the Engineering profession. He was Series Editor of the Kluwer books on Particle Technology. He was Editor of the journal "Particle, and Particle-System Characterization" Wiley- VCH-USA, a member of the Editorial Boards of "Chemical Engineering and Technology", "Advanced Powder Technology" and "KONA". He chaired the ISO Committee TC/24- "Methods of Particle Sizing other than Sieving". He was Past European Scientific Advisor to the International Fine Particle Research Institute, was a member of the Working Party on Particle Characterization and Agglomeration for the European Federation of Engineers. He was Secretary of the Particle Technology Subject group of the Institution of Chemical Engineers. He was Chairman of the Particle Size group of the Royal Society of Chemistry. He was a member of several working and specialist groups of BCR-EU Committees. He was a member of the AIChE Particle Technology Forum and a recipient of its Lifetime Achievement Award. He was British Council Fellow to the University of Belgrade, and a Consultant to DSM, E.I. DuPont de Nemours & Company, Gist-Brocades, and Genencor.

He was a Fellow of the Royal Academy of Engineering, a Fellow of the Institute of Physics, and a Fellow of the Institute of Chemical Engineers.

In 1990, he retired from Delft University and moved to the University of Florida in the United States of America. There he became Professor in the National Science Foundation Engineering Research Center in Particle Science and Technology. His experience and knowledge helped successfully drive the center through its six- year review. He then formed the largest academic group in Powder Mechanics in the USA. He continued to drive this research program until his death on September 2, 2004.

He was first and foremost a good man. He was a loyal and loving husband. A much loved grandfather. He was a good friend. In his youth he was an athlete, specializing in the 100 and 200 meter sprints. He loved rugby, and began to appreciate its close cousin American Football during his years in Florida. He was a complex man, often keeping his true feelings inside. For this day and age, he was very conservative. His exclusive use of suits and ties, even in the Florida heat, were always a source of teasing by his colleagues. He was unfazed by this.

In recent months, I discovered what a very brave and courageous man he was. He faced all that cancer could throw at him, and suffered his ordeal with dignity. He continued to think of the needs of others more than his own. At the end, he said that he had had a good life, and that he was content.

He is survived by his wife of 42 years, Joan, his son Ian and wife Debbie, daughter Diane and husband Tom, daughter Judy and husband Alistair, and four grandchildren Paul, Lucy, Katie and Jessica.

The world of Particle Technology has lost a champion with the passing of Professor Brian Scarlett, but his legacy- his students, will carry the flag of Particle Science and Technology for many years to come.

In lieu of flowers, donations should be sent to the Gainesville Hospice or to American Cancer Research.

Reg Davies
Wilmington, Delaware

John C. Williams Remembered



in memoriam

John Williams died on October 9, 2003 in Bradford, West Yorkshire, aged 86, which puts his birth year as 1915; at the height of the First World War. He was born in the north east of England, in a village near the industrial city of Sunderland well known at that time for shipbuilding. Few people went to university in that era, and on leaving grammar school John entered industry at the large glass works of Thomas Joblings, which was later to become part of the Pyrex and QVF group of companies. It was here that he first encountered powders in the form of the ingredients of the glass making process; soda ash and sand. John never lost his County of Durham connections and claimed that he could place anyone from the North East to within 30 miles of his or her birth-place simply by the regional dialect words used. Having escaped WW1 by reason of his tender age, he entered the British Army at the start of WW2, and found himself assigned to North Africa where he was eventually captured by the German Army and imprisoned in Italy until that country was freed by the Allies. He never spoke about those experiences as a prisoner of war, and indeed in later life became a great admirer of German technology, particularly in the field of powders. On his release and discharge from the army he returned to his old job in the glass industry and started to study part time for an external London University degree in physics.

On receiving that degree he joined Imperial Chemical Industries (ICI) in Billingham where he found himself working on powders with C.J. Stairmand of cyclone design fame. In the ICI technical department John was faced with a whole range of problems relating to the powder products of the company, which made him realize that an understanding of the basics of mixing, solids separation, and segregation was sadly lacking.

In 1962 he joined the newly formed department of chemical engineering at Bradford College of Advanced Technology (soon to become Bradford University). There he set about developing research programmes in powder technology notably in mixing, hopper design and particle size analysis with the help of the new and existing staff of the powders, and so the first school of powder technology was formed in the UK. It was decided to run a one year postgraduate Diploma in powder technology aimed at filling the perceived needs of industry for research and development engineers and scientists working in the field.

On a visit to a conference in the USA in the late 1960s John met Dr. Saul Gordon who was in the process of forming the Center for Professional Advancement (CPA) in order to run continuing education courses in New Jersey. As a result John was invited to give a course in hopper design which became an annual event in the USA and, later, in Amsterdam. John developed a number of outstanding visual aids to illustrate powder behaviour, and these together with his natural ability for giving interesting lectures, brought invitations to present the results of his researches at conferences in many countries. When Elsevier Publishing saw the need for a journal devoted to powder technology, J.C. Williams was the natural choice to be the first editor, and that journal has continued to be a leader in what is now rightly recognized as a major technical field. The Bradford School of Powder Technology attracted research funds, graduate students, and visiting scholars from all over the world. The university was persuaded by John to confer an honorary doctorate on Professor Hans Rumpf, in recognition of that German scientist's enormous contri-

News and Announcements

bution to the technology of powders. It is regrettable that the University of Bradford failed to recognize John's international reputation by making him the first professor of Powder Technology in the UK.

John Williams was extremely generous with his time, always ready to talk to graduate students, colleagues, and visitors, and to accept invitations to give lectures at conferences. He also took on university duties which were often against his own best interests. He was, for many years, Warden of the students' Halls of Residences and became Dean of Engineering for two terms of office. He suffered from that condition that affects many researchers and brilliant academics: an inability to know when to say No!

John had a very sharp mind, and this coupled with a good sense of humour and a kindly and patient manner made him an excellent committee chairman, though administrative work bored him because it distracted him from trying to solve the many technical challenges of powder handling that so fascinated him. Before he retired from the university John suffered from a heart condition that on one occasion caused him to black out whilst driving on a motorway, so that he ended up on the grassy divider between the two highways. With characteristic courage, after a short time in hospital, he continued with his lecturing and consulting programmes.

John was respected and admired by his colleagues, many graduate students and the worldwide powder technology community. He will long be remembered as one of the pioneers in his field and for his many contributions to the high profile that the subject now occupies in so many countries.

Professor Derek Geldart
Emeritus Professor of Powder Technology
University of Bradford

PTF Award Winners

2004 Award Winners

Particle Technology Forum Award (sponsored by E.I. duPont de Nemours & Company): **Professor George Klinzing**, University of Pittsburgh

Thomas Baron Award (sponsored by Shell Development Company): **Professor Doraiswami Ramkrishna**, Purdue University

Lectureship Award in Fluidization (sponsored by Fluor Daniel Foundation): **Dr. Ye-mon Chen**, Shell Development Corporation

Best Ph.D. Thesis in Particle Technology (sponsored by Proctor & Gamble Company): **Dr. Ecevit Bilgili**, Illinois Institute of Technology



PTF Awards Banquet

Particle Technology Forum Banquet Dinner

Tuesday, November 9

6:30 - 7:30 PM: cash bar (free wine while it lasts)

7:30 PM: dinner

Location: Eddie V's Edgewater Grille; 301 East 5th Street; Austin, TX 78701

Ticket Price: \$60



2004 AIChE Annual Meeting

November 7-12

Austin Convention Center

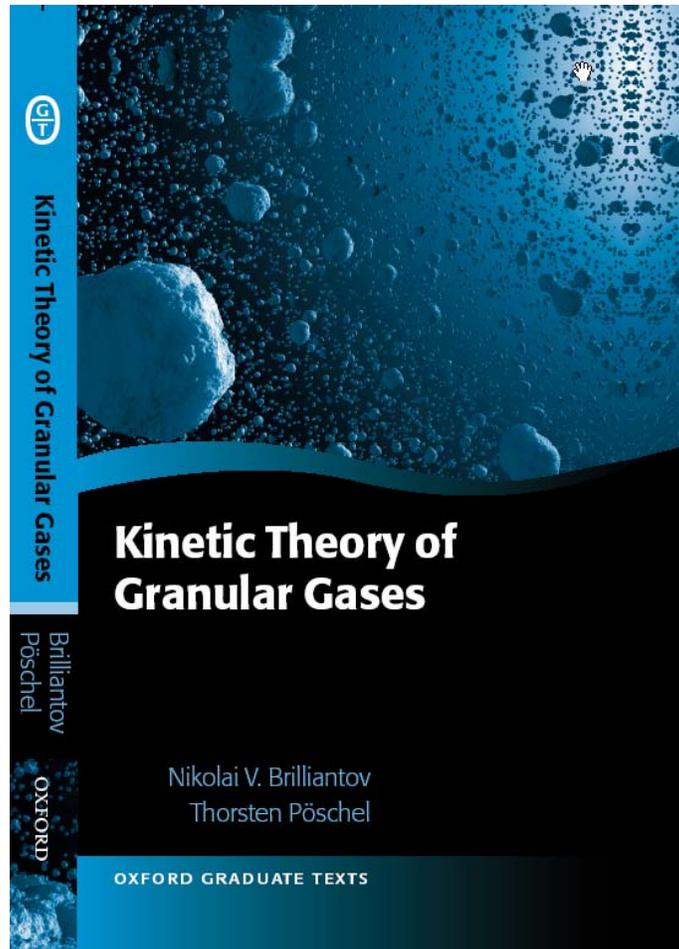
Austin, TX

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



Day of Week	Start Time	Session Title	Location
Tuesday	8:00 AM	Synthesis and Coating via Supercritical Processing	Meeting Room 4BC – ACC
Wednesday	8:00 AM	Multi-scale and Population Balance Modelling of Particle Technology for Materials Processing	Meeting Room 1 – ACC
Wednesday	8:00 AM	Pneumatic Conveying	Meeting Room 3 – ACC
Wednesday	8:00 AM	Invited Session: Advances in Particle Technology – New Processes and Innovations	Meeting Room 2 – ACC
Wednesday	12:30 PM	Molecular Modeling and Surface Interactions	Meeting Room 1 – ACC
Wednesday	12:30 PM	Fundamentals of Fluidization I – Featuring the Fluor Daniel Lectureship Presentation	Meeting Room 3 – ACC
Wednesday	12:30 PM	Dynamics and Modeling of Particulate Systems Part I, Fundamental	Meeting Room 2 – ACC
Wednesday	3:15 PM	Control of Particulate Materials Assembly Through Surface Chemistry	Meeting Room 1 – ACC
Wednesday	3:15 PM	Fundamentals of Fluidization II	Meeting Room 3 – ACC
Wednesday	3:15 PM	Dynamics and Modeling of Particulate Systems II, Applied	Meeting Room 2 – ACC
Wednesday	5:30 PM	Poster Session: Particle Technology Forum	Hall 4 – ACC
Wednesday	6:00 PM	Thomas Baron Award Lecture: Population Balances, Future Prospects	Meeting Room 9 – ACC
Thursday	8:00 AM	Circulating Fluidized Beds	Meeting Room 3 – ACC
Thursday	8:00 AM	Nano Energetic Materials	Meeting Room 2 – ACC
Thursday	12:30 PM	Liquid-Solid Fluidization	Meeting Room 3 – ACC
Thursday	12:30 PM	Processing and Safety of Energetic Materials	Meeting Room 2 – ACC
Thursday	3:15 PM	Solids Handling and Processing	Meeting Room 3 – ACC
Thursday	3:15 PM	Energetic Materials: Environmental and Life Cycle Issues	Meeting Room 2 – ACC
Friday	8:00 AM	Gas Phase Synthesis of Nano-particles I	Meeting Room 3 – ACC
Friday	8:00 AM	Mixing and Segregation in Particulate Systems	Meeting Room 3 – ACC
Friday	8:00 AM	Transport in Fluidized Beds	Meeting Room 2 – ACC
Friday	12:30 PM	Computational and Numerical Approaches to Particulate Flow	Meeting Room 2 – ACC
Friday	12:30 PM	Multicomponent Structured Particles	Meeting Room 8AB – ACC
Friday	12:30 PM	Gas Phase Synthesis of Nano-particles II	Meeting Room 3 – ACC

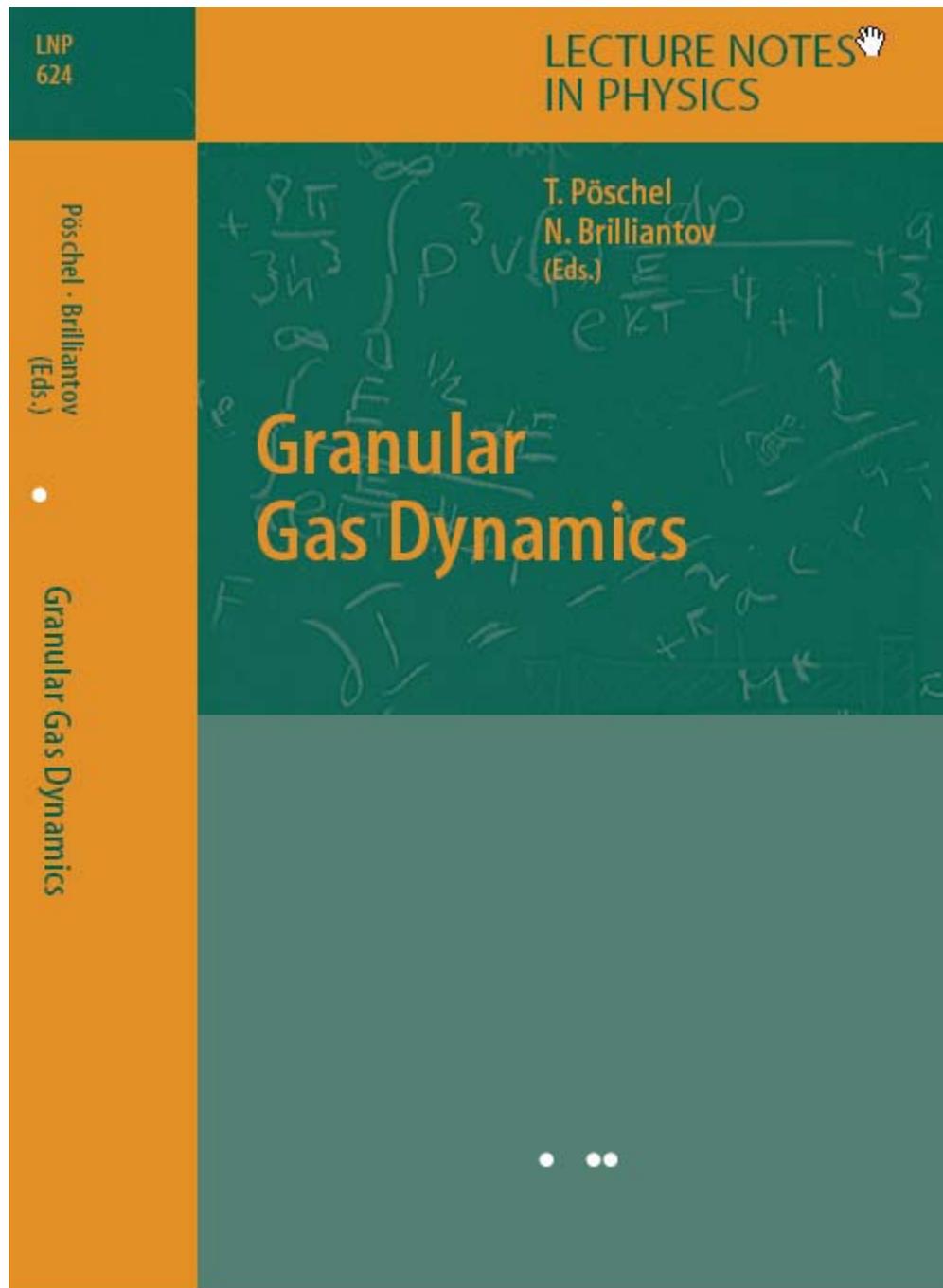
New Texts on Kinetic Theory and Granular Gases



Kinetic Theory of Granular Gases provides an introduction to the rapidly developing theory of dissipative gas dynamics—a theory which has mainly evolved over the last decade. The book is aimed at readers from the advanced undergraduate level upwards and leads to the present state of research. Throughout, special emphasis is put on a microscopically consistent description of pairwise particle collisions which leads to an impact-velocity dependent coefficient of restitution.

The description of the many-particle system, based on the Boltzmann equation, starts with the derivation of the velocity distribution function, followed by the investigation of self-diffusion and Brownian motion. Using hydrodynamical methods, transport processes and self-organized structure formation are studied. An appendix gives a brief introduction to event-driven molecular dynamics. A second appendix describes a novel mathematical technique for derivation of kinetic properties, which allows for the application of computer algebra.

The text is self-contained, requiring no mathematical or physical knowledge beyond that of undergraduate level standard physics. The material is adequate for a one-semester course and contains chapter summaries as well as exercises with detailed solutions. The book is accompanied by a companion web page, from where the molecular dynamics and computer-algebra programs can be downloaded.



While there is currently no general theory for granular materials, significant progress has been achieved for dilute systems, also called granular gases. The contributions in this book address both the kinetic approach using the Boltzmann equation for dissipative gases as well as hydrodynamic descriptions. The last part of the book is devoted to driven granular gases and structure formation. Care has been taken to present the material in a pedagogical and self-contained way and this volume will thus be particularly useful to nonspecialists and newcomers to the field.

Summer School in Winter at PERC



January 28 – February 4, 2005

The Particle Science Summer School in Winter is an exceptional opportunity for graduate students from across the world to participate in specialized modules taught by world-renowned experts. It is also an unparalleled occasion to network with other graduate students working in the field. Students have the opportunity to select two, 2-day modules from a group of four offerings to allow them to tailor the week to meet their specific training needs. Each module includes an instructor from industry to provide an industrial perspective of the topic. Participants will also spend a day listening to a selection of featured speakers and tour PERC laboratory facilities. A highlight for student participants is the day-long poster session. Each student participant presents a brief overview of his or her poster followed by poster viewing. Students from past conferences have identified this as the most valuable feature of the week, as it provides students with a look at what others are researching and provides opportunities for future collaborations among participants.

For the first time, SSIW will be held concurrently with the PERC Industrial Advisory Board (IAB) meeting. PERC has 50 Member Companies that represent the spectrum of industries that rely on particle technology. The IAB will hold a joint meeting with SSIW on Feb. 1, the special seminar day. SSIW participants will also be invited to attend the IAB meeting on Wednesday morning, Feb. 2. In addition, SSIW students who participate in the poster session on Saturday will be invited to participate in the PERC IAB Poster Session on Tuesday evening, providing you with the opportunity to present your work to industrial representatives from these companies.

WHO CAN PARTICIPATE?

Any graduate student working in a particle science and technology area is eligible. Previous student participants represented 9 different academic departments.

WHAT DOES IT COST?

If you are studying at a U.S. Institution and your application is accepted, you will be awarded a \$700 grant to support your travel and local living costs for the program. Up to 50 students will be selected to receive this support. There is no registration fee. If you are a student at a non U.S. Institution, you must pay for your own travel and local living expenses. Previous SSIW students have been sponsored by their faculty, home institution or industry to attend. There is no registration fee.

HOW DO I APPLY?

Use the [on-line application](https://www.erc.ufl.edu/education/ssiw/application.asp) (<https://www.erc.ufl.edu/education/ssiw/application.asp>) to apply. If you are at a Foreign Institution, please indicate the source of support for your participation.

Questions? E-mail Dr. Anne Donnelly at adonnelly@erc.ufl.edu or Donna Jackson at dajackson@erc.ufl.edu.

WCPT5



What?

World Congress on Particle Technology V

Who?

Practitioners and researchers in particle technology

When?

April 22-27, 2006

Where?

*Swan and Dolphin Hotel
Walt Disney World, Florida*

Why?

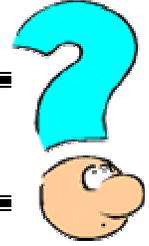
Why not?!

Other pertinent information...

Abstract Requirements: Contributions will be invited for both oral and poster presentations. People who wish to make presentations will have to submit a proposal-to-present form, which will have spaces for the title, author names, and a 200-word summary of the presentation. The form and the Email address to which you should submit it will be posted here later. The proposal will be due by **September 1, 2005**. Notices of acceptance will be issued by November 1, 2005.

If the proposal is accepted the author must then submit a four-page extended abstract of the presentation as a PDF file or as camera-ready copy. This extended abstract will due by **January 1, 2006**. If the author does not submit an extended abstract the presentation will be withdrawn from the Congress program. The above deadlines are currently (2003 December) tentative and subject to revision.

“Know Floe’s Korner”



Top 10 Questions for Selecting Powder Processing Technology

Shrikant Dhodapkar, George Klinzing & Lyn Bates

Powder Process Technology, for this discussion, is defined as a combination of various unit operations and intermediate conveying & storage steps.

1. How well do the process parameters scale up from pilot scale tests to full scale implementation? This is especially important for new processes or novel unit operations.
2. What is the sensitivity of process performance (yield, reliability, product quality etc.) to variability in raw materials? If so, can the variability in raw materials be controlled?
3. What is the turn-down ratio for the process? Can the process be reliably run at reduced capacity?
4. If process automation is desired (e.g. large scale continuous processes), how well does it lend itself to automation? Are there any unit operations in the process that are difficult to automate?
5. Is the operating window for process parameters sufficiently wide to accommodate variations in raw materials and possible variability due to each of the unit operations? Issues related to integration of the new process with current upstream and downstream process steps should be evaluated.
6. Can the product properties be controlled within specifications to achieve acceptable level of performance (low defect rates or off-grade)? Six sigma methodologies can be used to quantify this. Compatibility between a process and the specifications of the final product is critical, especially in pharmaceutical, food and electronic applications.
7. Process upsets are inevitable. How well does the process handle upset conditions in the process? What measures are implemented for a smooth recovery from upset conditions?
8. What is the true cost of ownership for the process? Include operating cost, energy cost, capital cost and cost associated with technology licensing or development.
9. If the product demands continuous improvement or reformulation due to market demands, then the process design should be able to adapt to changes. If multiple products need to be made in the process, then product transitions should be quick and off-grade must be small.
10. Before committing to any processing technology, it is important to investigate the limitations imposed by intellectual property issues. In addition to the licensing costs, if any, thoroughly investigate your rights to practice this technology and your ability to improve or innovate.

Upcoming Conference Calendar



2004

Filter Testing, Validation and Monitoring

October 19, 2004, Runcorn, UK

Website: www.filtsoc.com

AIChE Annual Meeting

November 7-11, 2004, Austin, TX

Papers and Posters Deadline: May 1, 2004

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

PTF Sessions at the 2004 Annual Meeting

November 7-11, 2004, Austin, TX

2005

2005 NSTI Nanotechnology Conference and Trade Show

May 8-12, 2005, Anaheim, CA

Abstract Deadline: November 19, 2004

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>

Particulate Processes in the Pharmaceutical Industry

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

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

7th World Congress of Chemical Engineering

July 10-14, 2005, Glasgow, Scotland

Abstract Deadline: July 1, 2004

Website: www.chemengcongress2005.com



2005 (continued)

Powders and Grains 2005

July 2005, Stuttgart, Germany

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

Particle Systems Analysis PSA 2005

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

Abstract Deadline: November 1, 2004

Website: www.psa2005.com

AIChE Annual Meeting

November 2005, Cincinnati, OH

(details will be available in January or February 2005)

2006

Gordon Conference on Granular and Granular-Fluid Flow

June 2006

The Fifth World Congress on Particle Technology

April 22-26, 2006, Orlando FL

Abstract Deadline: September 1, 2005

Annual AIChE Meeting

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

(details will be available in February 2005)

Officer and Committee Listing

Officers:

Chair 2002-2004: Dr. Ralph D. Nelson, erptmged@aol.com, 302-239-0409
Vice-Chair 2002-2004: Professor Alan Weimer, alan.weimer@colorado.edu, 303-492-3759
Immediate Past Chair 2000-2002: Prof. George Klinzing, klinzing+@pitt.edu, 412-624-0784
Secretary 2002-2004: Professor Hugo Caram, hsc0@lehigh.edu, 610-758-4259
Treasurer 2002-2004: Prof. Richard Turton, turton@cemr.wvu.edu, 304-293-2111, ext. 2145

Liaisons:

Academic 2004-2006: Professor Hugo S. Caram, hsc0@lehigh.edu 610-758-4259
Academic 2004-2006: Professor Brij Moudgil, BMoudgil@erc.ufl.edu 352-846-1194 x 225
Academic 2000-2004: Professor Richard Turton, turton@cemr.wvu.edu, 304-293-2111
Academic 2000-2004: Professor Thomas R. Blake, blake@ecs.umass.edu, 413-577-6606
Industry 2004-2006: Professor Manuk Colakyan, colakymc@dow.com, 304-747-4580
Industry 2004-2006: Dr. Costas Coualaloglou, costas.a.coualaloglou@exxonmobil.com
Industry 2000-2004: Dr. Paul Mort, mort.pr@pg.com, 513-627-8876
Industry 2000-2004: Dr. Shrikant Dhodapkar, sdhodapkar@dow.com, 979-238-7940
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 2002-2004: Professor Alan Weimer, alan.weimer@colorado.edu,
303-492-3759
Membership: Dr. Manuk Colakyan, colakymc@ucarb.com, 304-747-4580
Newsletter Editor: Professor Christine Hrenya, hrenya@colorado.edu, 303-492-7689
Nominations: Professor George Klinzing, klinzing+@pitt.edu, 412-624-0784
Recognition: Dr. Reg Davies, rdavies@erc.ufl.edu, 302-235-7468
Educational Resources for Particle Technology: Prof. George Chase, gchase@uakron.edu,
330-972-7943

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. Ralph D. Nelson, Jr.	DuPont, retired
<i>Group 3a – Particle Production and Characterization</i>		
Chair	Dr. Paul Mort	Procter & Gamble Co. ITC
Vice Chair	Prof. Rajesh N. Dave	New Jersey Inst. of Techn
<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	Prof. Rajesh N. Dave	New Jersey Inst. of Techn
Vice Chair	George Fotou	Cabot, Inc
<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

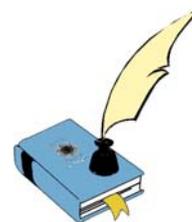
The transactions for the PTF account from the time period 01/01/04 through 07/31/04 are given in the table below:

Description of Transaction	Transaction Amount	Balance
Beginning balance 01/01/04		\$ 10,314.19
Expenses 01/01/04 – 07/31/04		
*Entre Computer Center - Web Domain Name for WCPT5	\$ 60.24	
Entre Computer Center - Web Domain maintenance - 6 mo	\$ 114.00	
Eddie V's Edgewater Grille – deposit for PTF dinner in Austin	\$ 500.00	
*Entre Computer Center - web domain name - 6 mo	\$ 233.70	
Total expenses for this period	\$ 907.94	\$ 9,406.25
Revenues 01/01/04 – 07/31/04		
Dues income	\$ 825.00	\$10,231.25
Balance on 07/31/04		\$10,231.25

*The expenses for Entre Computer Center shown above reflect the addition of a new domain name and the associated maintenance costs for the website for the upcoming World Congress for Particle Technology 5.

Respectfully submitted,
Richard Turton, 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
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Boulder, CO 80309-0424
Tel: (303) 492-7689; Fax: (303) 492-4341
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Advertisements may also be placed in the newsletter. The rates on a per issue basis are:

1/4 page \$40

1/2 page \$60

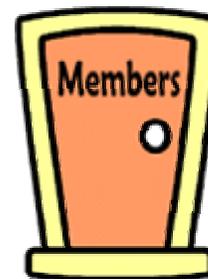
Full page \$110

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



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Phone _____ Fax: _____

Are you an AIChE member? Yes No Member # _____

Other Society Affiliations? _____

Credit Card Information Visa _____ Master Card _____

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Membership rates

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Attn: Document Processing, 3 Park Avenue, New York, NY 10016