



*The Institute For  
Briquetting and Agglomeration*

NEWSLETTER - SUMMER 2005

IBA ADDRESS

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AGGLOMERATE AND COMMUNICATE!

WANTED: POWDER STANDARDS

In the SPRING Newsletter, page 1 and 2 reference was made to previous information (1988, 1994) about industries, processes and plants using powder materials and related problems. Even in 1994 reports, that startup time for solids feedstock systems, as compared with liquids and gases were reported to be greater and longer.

In a recent Industry Perspective (June 05, P&BE publication) James L. Davis, Procter & Gamble, who is on the P&BE Advisory Board, covers that subject under the above mentioned title and urges participation in an ASTM committee "that works to develop standards for powder processing and handling". He continues, that "developing standards has proven to be challenging, yet personally rewarding."

It costs \$ 75.00 per year to belong to ASTM and become an active, voting participant in the standards development process.

Should any of you reading this wish to obtain more information and perhaps wish to join, contact James Davis at P&G, West Chester, OH [davis.jl@pg.com](mailto:davis.jl@pg.com) -

This is for information on a subject of importance. IBA takes no specific position at this time, but I could see some mutual areas of interest and, perhaps, cooperation involving IBA. Having often consulted ASTM (and other) standards on agglomeration to better define and identify methods, I can see a lot of good coming out of continued work in this powder standards field.

The committee D18.24 is titled "Characterization and Handling of Powders and Bulk Solids."

## CHEMICAL PROCESSING

Previewing the July upcoming World Congress of Chemical Engineering, Glasgow, U.K. editor Mark Rosenzweig (May 2005) comments on the five key focus sessions, including 'Managing Complexity', 'Engineering for Life' and 'Science into Engineering' and muses, that most presentations will come from academic research, rather than chemical engineers, due to limiting proprietary data, travel and other funding and other roadblocks, which academics do not have, as a rule.

We are fortunate and have been during our history, to always have at IBA a good mix of government, academic and private industry presentations and, therefore, also a good cross-section of fundamental research, case histories and plant operation experience in paper presentations.

The wide range of industries represented in the moderately sized, compact membership at IBA has continued to expand and we keep reaching out to other organizations and topics to further expand our scope.

That said, we still could use a few more papers for the next meeting in October. Keep your cards and letters coming, says NL and Tom Feldkamp.

## NATIONAL COAL SHOW 2005 and LONGWALL USA

The three-day event in Pittsburgh happened in June, was well attended (sponsors Coal Age and SME/Coal & Energy Division). There were some 130 exhibitors.

## ASAE AMERICAN Society of Agricultural Engineers.

Their meeting is in Tampa, FL, July 17-20, with courses, sessions, technical tours, exhibits, for info: [www.asae.org/meetings/am2005/index.htm](http://www.asae.org/meetings/am2005/index.htm) or 269-429-0300.

## 16th INTERNATIONAL ACTIVATED CARBON CONF. & COURSES

Oct. 6-7, 05, Pittsburgh, PA (724-457-6576, Barbara Sherman).

## GRANULATION, TABLETTING and CAPSULE TECHNOLOGY

Aug. 22-25, Burlingame, CA, Center for Prof. Advancement. For info 732-238-9113, or [info@cfpa.com](mailto:info@cfpa.com) -

### WANT TO GO TO SORRENTO, ITALY?

Who wouldn't. Here is a reason: 5th Intl. Conf. for Conveying and Handling of Particulate Solids, ChoPS-05 for short, August 27-31. Mentioned in the topics to be covered is a wide range of mechanical unit processes, including size reduction, agglomeration and drying. The call for papers went out in May. for more information contact Ortra Ltd, Tel Aviv, Israel, at fsolids@ortra.com -

### EYE ON EXCIPIENTS

Under this title author John A. McCarty writes a series of excellent articles, in Tablets and Capsules (latest April and May issues) and pharmaceutical excipients, often second cousins to binders and other functions. The May article covers lactose.

### TABLETTING E-NEWSLETTER

A quarterly newsletter is provided on this subject by DI Pharma Tech, Westminster, SC and more about obtaining it is available from Tablets & Capsules, fax 651-287-5650, St. Paul, MN.

### WOCA, WORLD OF COAL ASH

The first combined event of two formerly separate coal ash organizations (Intl. Ash Utilization and American Coal Ash Assoc.) seems to have been a success, in April at Lexington, KY with 2000 attendees and 200 exhibits. The Univ. of Kentucky's Center for Applied Energy Research plays a major role as sponsor and organizer.

### POWDER BLENDING FROM ART TO SCIENCE

Dr, Angelo De Palma, Contrib. Editor, Pharmaceutical Manufacturing, May issue, pp. 48-51

### ASTM HAS FORMED NANOTECHNOLOGY COMMITTEE E56

For details, contact 610-832-9720, or website [www.astm.org/COMMIT/E56.htm](http://www.astm.org/COMMIT/E56.htm)

### PAPERS WORTH MENTIONING

- Comparison of Flow Properties of Granules Prepared by Top-drive and Bottom-drive High-shear Granulators, by J.K. Prescott et al.
- Improve Solids Handling During Thermal Drying, by H. Purutyan et al,
- Prevent Caking During Solids Handling, by H. Purutyan et al

These can be obtained through Jenike & Johanson, fax 978-392-9980. And as always, IBA's NL mentions this as service to members and NL readers, not as a preference for any particular company.

**IBA UPDATE**

**Tom Feldkamp, Executive Director**

**This is the final newsletter before our Conference!**

**The IBA 29<sup>th</sup> Biennial Conference will be held at the Hilton Clearwater Beach Hotel, Clearwater Beach, Florida, October 16-19, 2005.**

The room rate is \$159.00 plus taxes per night. The hotel will honor this rate three days before and after the Conference based on availability. 800-753-3954 is the direct number to the hotel. Mention code **IBAGN**. You can also make reservations on line at [www.clearwaterbeachresort.com](http://www.clearwaterbeachresort.com) using the code **IBAGN**. Please make your reservations directly with the hotel as soon as possible to obtain the group rate. Also be sure to send me your registration form with the fees. Remember that Registration fees for the Conference are more reasonable if you are a paid member.

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**SCHEDULED PRESENTERS TO DATE**

- Thomas Wong, Kercher Industries, "Powder Mixing and Industrial Applications"
- Sara Gantner, Bepex International LLC, "The Cost to Agglomerate"
- Dr. Tom Marrero, University of Missouri, "University Research in Agglomeration/Briquetting"
- Norbert Klinker, Kopperrn GmbH & Co., "Latest Design of Roller Presses for Potash Compaction"
- Darrell Taulbee, UK-CAER, "Briquetting of Coal Fines and Sawdust Blends"
- Eugene Kazub, Alberta Research Council, "Refuse-Derived Fuel from Municipal Solid Waste Residuals: A Feasibility Study"
- Andy Britt, Aeroglide Corporation, "Determining the Economic Payback of a Conveyor Drying System"
- Dr. Brian Young, Envirosafe Intl. Pty. Ltd., "An Update on Coal Briquetting"
- Dr. Ronald W. Miller, Bristol-Myers Squibb, "NIR Measures Particle Agglomeration Growth in Fluid Bed Dryer Real Time"
- Bill Callaghan, Continental Products Corporation, "Rollo-Mixer"
- Yuyi Lin, Associate Professor, University of Missouri, "Developing Equipment & Process for Economical Production of Biomass Solid Fuel"
- Stuart Middleton, P.Eng, AMEC, "Update on Potash Industry"
- Paul Language, Bluescope Steel, "The WetPress Process ®"
- B.K. Parekh, University of Kentucky, "Briquetting Studies of Coarse and Fine Size Coal With Sawdust"
- Dr. Roman T. Dec, K.R. Komarek Briquetting Research Inc., "Recent Developments in FEM Modeling of Powder Processing in the Roller Press"
- S. Komar Kawatra, Michigan Technological University, "Use of Compressive Shear Mixing to Enhance the Effectiveness of Bentonite as a Binder"
- Brian Pittenger, Jenike & Johanson, Inc., "Prevent Caking During Solids Handling"
- Scott Wennerstrum, The Fitzpatrick Company, "Product Containment and Inert Processing for Safe Size Reduction"

Agglomeration Roundtable Discussion – Bring your questions, have them discussed by industry experts. This is traditionally a highlight of the Conference.

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**VENDORS NIGHT** with reception and refreshments will continue in 2005. This takes place on Sunday, October 16, 2005 and is an excellent opportunity for suppliers to display their product line in a tabletop fashion. In addition to the obvious benefit of displaying equipment and/or literature, it gives everybody an opportunity to mingle socially prior to the technical conference the next day. We were told by attendees that this was one of the side benefits of the Vendors Night, for they felt more comfortable and open in discussing applications with their fellow colleagues.

There will be limited space available and therefore an early decision on your part would be advisable. The cost for each vendor will be \$550 and they will be fully acknowledged in our program. They will also be included in the *List of Consultants* that is emailed or mailed to individuals and/or companies inquiring to the IBA regarding agglomeration. If further information is needed, contact myself or the following committee members.

Dr. Tom Marrero, [marrerot@missouri.edu](mailto:marrerot@missouri.edu)

Dr. Brian Young, [byoung@envirosafe.com.au](mailto:byoung@envirosafe.com.au)

Bob Hinkle, [bhinkle@marsmineral.com](mailto:bhinkle@marsmineral.com)

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**CONFERENCE HIGHLIGHTS**

Final Programs will be available at the Conference

Sunday	3-5 pm - Registration
	5 pm – Vendors Night and Reception
Monday	8 am – 4pm – General Session
	6 pm Caribbean Dinner on the deck overlooking the Gulf of Mexico
Tuesday	8 am – 4pm – General Session
	Spouse/Guest Luncheon Cruise on the Starlight Majesty
	6:30 pm – President’s Banquet
Wednesday	8am – noon – General Session including Roundtable Discussion

Remember this is sunny Florida. Dress is business casual, casual for Monday’s Caribbean dinner, and sport jacket at the President’s Banquet is recommended.

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**MEET YOUR MEMBERS**

We are continuing to profile our Board Members in this newsletter.

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**DUES**

If you have not paid your dues, please do so. If you need an invoice, we can fax or email it to you. Dues are paid every two years and will cover a two-year period. The Biennial Dues structure covers the period of January 2005 through December 2006.

Individual - \$100, Company - \$200, Consultant – \$150

## **INFORMATION ON CONFERENCE AT CLEARWATER BEACH, FLORIDA**

**IBA 29<sup>th</sup> Biennial Conference to be held at the Hilton Clearwater Beach Resort, on Sunday, October 16 through Wednesday, October 19, 2005.**

**Clearwater Beach, Florida is served by Tampa International Airport. Most domestic airlines service Tampa Airport, along with many International Airlines, to name a few:**

**Air Canada**

**American Airlines**

**British Airways**

**Cayman Airways**

**Northwest**

**See [www.TampaAirport.com](http://www.TampaAirport.com) for a list of all airlines and more information.**

**The Hilton Clearwater Beach Resort is located near many restaurants that are within walking distance. You do not need to rent a car. The airport is 30 minutes away. There is a shuttle service from Tampa Airport called SuperShuttle. You can make advance reservations by calling 800-282-6817 or through their website [www.supershuttle.com](http://www.supershuttle.com) The fee at this time is \$22 per person one way (shared ride). There is also taxi service available. Of course you may want to rent a car if you want to extend your trip and go to Orlando which is 90 minutes away or one of the other beaches. Don't forget there are many golf courses in the area.**

**At registration on Sunday, there will be an information packet for the Spouse/Guests on things to do on Monday. There is the Jolly Trolley and the Official Suncoast Beach Trolley that you can ride all day for \$3.00 to a lot of the area attractions**

**This year the Spouse/Guest lunch will be held on Tuesday, not Monday. It will be a short walk to the Starlight Majesty, which will depart from the marina for a 2-hour luncheon cruise. There will be a choice of 6 entrees.**