



*The Institute For  
Briquetting and Agglomeration*

NEWSLETTER - SPRING 2005

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AGGLOMERATE AND COMMUNICATE!

SPEAKING OF COMMUNICATING

Although the official deadline for submitting paper abstracts for IBA 29 to be held in Florida, October 16-19 has passed, we are still looking for additional papers to complete the program. This is another appeal to members and others in their companies to help us out. Remember, not only agglomeration topics per se, but also related and ancillary topics, such as drying, coating, conditioning, mixing and material handling of powders, bulk solids and agglomerates are of interest and potential topics for papers.

As Tom Feldkamp also mentioned in the last Newsletter (Winter 04/05) the host hotel is the HILTON Clearwater Beach Resort, not the Adams Mark, which cancelled out due to hurricane damage related delays.

INDEX TO ARTICLES, 1987-2004 "AGGLOMERATION"

In their annual A-Z index listing of articles since the start of Powder and Bulk Engineering (Dec. 04 issue) P&BE lists what amounts to a full page of agglomeration topics, such as case histories, custom processors, new installations, test centers and basic technical articles and columns. Quite a number of IBA member articles are included.

SOLIDS HANDLING: THE PROCESS INDUSTRIES' STEPCHILD

The more time changes, the more things stay the same, or - shall we say - move slowly. Under this somewhat provocative title, Chemical Engineering ran an editorial, April 1994, with back-reference to an earlier 1988 article on that subject.

The point was made, in 1994, that startup time for facilities using solid feedstocks are three to six times greater than for liquids and gases.

The case was made, that powder and bulk solids materials handling concepts are not as well or at all studied and tested.

Mention was also made of more extensive course work on the subject in Germany, Australia, Japan and the U.K. at the academic level, compared to the United States.

At present there are more such subjects being taught, seminars and special courses offered by academia and private professional organizations, even companies. Several solids handling specialists, such as Jenike & Johanson, for example, specialize, publicize teach and test in the field. Progress has been made to prevent, as the editorial stated in 1994, that "in many processes, material handling ..... is the stepchild that people don't think much about."

IBA wants to address this area by including as many handling and processing aspects of solids in and around the agglomeration field, which is why we have invited papers on broader topics, see page 1 of the NL.

#### SPECIAL MENTION

1. MIXING MECHANICS, A mixing resource. Peter R. Holman, who is also on the editorial advisory board of P&BE covers this subject in April 2005 issue and mentions several good sources for mixing theory and practice, including "Handbook of Industrial Mixing: Science and Practice", John Wiley & Sons, 2003. The article then also lists additional powder mixing references, see page 23 of the April issue, including "Best of Mixing and Agglomeration, first published by P&BE in 1991 is still available.
2. POWDER HANDLING Handbook 2005 of Processing publication supplement, a slim volume with several good features and a product index (Grandview Media Group, Birmingham, AL).
3. NANOTECHNOLOGY (and the dry bulk solids industries)

This is the title of editor Terry O'Neill's coverage of the subject, saying, at the outset "Nanotechnology is making greater and greater inroads into the dry bulk solids industries. Are we ready to handle it?" Pages 44-49 of P&BE April 2005. Good references and resources. Good reading! We recommend.

#### 4. THINK SMALL

Perhaps this should read "think small". Author J. Peter Clark (email [jpc3@att.net](mailto:jpc3@att.net).) states "Many processes depend on size reduction to improve performance or meet specification."

While this is the opposite of size increase by agglomeration for sometimes the same reasons as stated above, IBA, or course, also covers size reduction as part of an overall agglomeration system. The article appeared in February 2005 in Chemical Processing, pp. 29-33

#### PUBLICATIONS

- Glossary of Applied Terminology for the Pharmaceutical Industry. Issued by ISPE, compiled by Michelle Gonzalez. ISPE is the International Society for Pharmaceutical Engineering, Tampa, FL ([www.ispe.org/glossary](http://www.ispe.org/glossary)) It's free folks and languages are English, French, German.
- Dictionary of Engineering Materials, by Harald Keller and Uwe Erb. John Wiley & Sons, Hoboken, NJ ([www.wiley.com](http://www.wiley.com))
- COAL PREP SOCIETY OF AMERICA: as we write this, the 2005 Coal and Aggregate Processing Exhibition and Conference is in progress. You might also be interested in the proceedings, which will be available after May. This year, there are several features related to agglomeration and associated topics, as they cover upgrading of low-rank coals. For info on proceedings, contact [www.coalaggprepshow.com](http://www.coalaggprepshow.com) -

#### COMING EVENTS

- Euro Coke Summit 2005, 4-6 April, Budapest, Hungary, Intertech ([www.intertechusa.com/eurocoke.html](http://www.intertechusa.com/eurocoke.html))  
2 seminars on cokemaking and environmental regulations and four sessions of technical papers (industrial overview, market trends, European Coke Industry, global markets and new developments)
- Surface Colloids and Nanoscience, July 11-15, Seattle, WA, University of Washington College of Engineering (866-791-1275) or [www.engr.washington.edu/epp/scs](http://www.engr.washington.edu/epp/scs)
- Air & Waste Management Conference, June 21-24, Minneapolis, MN 412-232-3444, Gene Garbowsky
- World Energy Engineering Congress, Sept. 14-16, Austin, TX 770-447-5083, fax 770-271-7981, Ted Kurklis
- Innovations in Pharmaceutical Processing, June 15, Philadelphia. June 21, Parsippany NJ Contact 800-203-5719, fax 856-582-3937,

- Formulating for Nutritional Supplements, Solid Dosage Training Seminar, Los Angeles, CA Sept. 26-27, Ft. Lauderdale, FL Nov. 8-9 (solididosagettraining.com -
- 2005 Shanghai International Powder/Bulk Conf. & Exhib., June 13-15, DHA America, 770-575-0808 (dhaamerica@aol.com)
- 15th Steelmaking Conference and 5th Ironmaking Conf., Argentina November 7-10, contact Christian Genzano (email: genzano@siderurgia.org.ar)
- 2nd International Symposium on Processing and Disposal of Mineral Industry Wastes, Falmouth U.K., June 13-15, Contact Minerals Engineering Intl. (www.min-eng.com)
- Iron Ore 2005, Western Australia, Oct. 24-26, www.ausimm.com.au/events/upcoming.asp

#### IBA MEMBER NEWS

Bepex International is the new name of the former Hosokawa Bepex Minneapolis division of Hosokawa Micron Corp., Osaka, Japan. The "new" Bepex was formed by and purchase from Hosokawa by a privately owned management group. As longtime IBA members will know, Bepex owns some wellknown names (and IBA members of past years) as Komarek-Greaves (K-G), Strong-Scott and Rietz.

Coal Age editor Steve Fiscor, in previewing the above mentioned Coal Agg Prep conference writes in the April issue about IBA member "Bill Kalb, president Tradet, and longtime Coal Prep board member played an instrumental role in organizing the symposium .... for bituminous coals" and the low-rank coal sessions "seem like a natural fit." According to Coal Age they hope to coordinate more sessions on this subject. Bill Kalb is a frequent contributor to IBA and conference attendee.

SPEAKING OF MEMBER NEWS: If you, dear IBA NL reader have any worthwhile news of interest to others that you wish to share, drop us (Newsletter author, or executive director) a line. If it's NEWS, we'll print it, we'll even agglomerate and communicate it.

**IBA UPDATE**

**Tom Feldkamp, Executive Director**

**CLEARWATER BEACH, FLORIDA – October 16-19, 2005**

We are looking forward to an informative 29<sup>th</sup> Biennial Conference at Clearwater Beach Florida. **REGISTRATION FORM IS ENCLOSED.** The **Hilton Clearwater Beach Hotel** has just completed a major renovation. The room rate of \$159.00 plus taxes per night is \$20 per night less than the hotel rate two years ago in Santa Fe, New Mexico. The hotel will honor this rate three days before and after the Conference based on availability. Direct number to hotel is 800-753-3954. Mention code **IBAGN**. You can also make reservations on line at [www.clearwaterbeachresort.com](http://www.clearwaterbeachresort.com). Again use the code **IBAGN**. So make your plans early. Remember it is only 90 minutes from Orlando Theme Parks, such as Disney World, and only 30 minutes away from Tampa International Airport. Please make your reservations directly with the hotel as soon as possible to obtain the group rate. The Clearwater Beach Convention Bureau has assisted us with this mailing and has enclosed brochures on many of the area attractions.

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**CALL FOR PAPERS FOR 2005**

We have received a number of quality abstracts for the upcoming conference, but additional abstracts will still be considered. Please contact me as soon as possible if you are interested in presenting a Paper.

As I stated in our last Newsletter, the agglomeration process includes many unit operations, both upstream and downstream. We have abstracts which will address the critical mixing operations as well as that of drying. A Paper will be given comparing the various types of agglomeration and their overall cost consideration based on actual test results. There will be Papers given that discuss the effectiveness of binders as well as their cost implications. Papers will be presented discussing agglomeration of municipal solid waste, sawdust and coal, potash, and pharmaceutical applications. This is just a sample of the subjects to be addressed. ***Remember our conference is interactive with a hands on approach, not just presentations given to a large audience.*** Bring your agglomeration problems and seek solutions from the leaders of agglomeration at our Roundtable Discussion.

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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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The **2003 IBA Proceedings Volume 28** CD-ROMs are available for \$50.00 plus postage and there are some books available for \$60.00 plus postage. Books from prior conferences are available as well as Indexes from all of the Conferences.

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### MEET YOUR MEMBERS

We are continuing to profile our Board Members.

Attached is a current list of our membership. Remember that Registration fees for the Conference are more reasonable if you are a paid member. If you have paid your dues and we have neglected to include you in this list, let me know immediately and I will correct the situation.

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