The next major event of PMAI is 'PM-09', The International Conference with Trade Exhibition, 5th in the series, along with 35th Annual Technical Meeting, in Feb. 2009 at Goa. Some details are provided here.

This issue also features a report on the International Conference and Exhibition along with the 34th Annual Technical Meeting held at Chennai in Feb. 2008. Best paper award was given to the paper titled 'Structural, electrical and magnetic properties of nanosized NiCo ferrites prepared by high energy ball milling.'

The other features of this issue include: 'Development in water bench test facility for atomization systems', 'Employment opportunities in Sandvik Asia Ltd.', 'Distribution of ID cards to PMAI members', 'Publication of PMAI Directory incorporating PMAI members and Who's Who in particulate materials', 'Special publication of Powder Metallurgy for the 21st Century' and 'Proposed PMAI delegation to U.S.A.'

This issue of News Letter has been sponsored by Höganas.

P. Ramakrishnan

Höganas is the world’s largest producer of metal powders. Not just in terms of mass but also geographically. In fact, we are all over the world - branching out from our headquarters in Sweden further on to USA, Israel, India, China and Japan.

Metal powders open up new possibilities for creative technical solutions. Powder components require little or no subsequent machining, achieve nearly 100% material utilization, and deliver numerous performance benefits – including the lowest total unit cost for the manufacturer.

These are just some of the reasons why over 40 million powder components are produced every single day. Actually, you find more and more of them in cars, computers, household machines and electrical tools.

Höganas

http://www.hoganas.com
The conference was held at Chennai Trade Centre, Chennai on 20th and 21st February 2008 with the theme of ‘Cost effective technologies for net shape production’.

President of PMAI Mr.Bijoy Sarma welcomed the gathering. Mr.N.Gopinath, Convener reviewed the highlight of the event. The conference was inaugurated by Mr.B.S.Bhatia, Member Ordinance Board and Member PMAI. The conference was attended by about 200 delegates from India as well as from abroad and covered various aspects of Powder Metallurgy. More than 50 technical papers by authors from countries like Singapore, U.S.A., Germany, Switzerland, Canada, Venezuela, Czech Republic, Turkey South Korea, Ukraine etc. in addition to India, were presented during the conference.

The best paper award was given to ‘Structural, Electrical and Magnetic Properties of Nanosized NiCo Ferrite Prepared by High Pressure and Gas Flow Rates’ by Bholakpur, Hyderabad - 500 048.

Well Tech Engineers, located at Hyderabad has been fabricating water and gas atomization systems under the guidance of Dr. Krishna Rao and supplying them. It now has set up a “Water Bench” testing facility for judicial design and development of freefall and close-coupled gas atomization nozzles for different melt flow rates, pressure and gas flow rates. The facility will become operational from the month of May 2008. The tests will help in correctly defining the operational windows and optimize atomizer performance. It allows the use of high efficiency close coupled nozzle designs.

The “Water Bench” tests will help WellTech Engineers to offer appropriate gas nozzles and also service customer’s nozzles to ensure optimum performance.

WellTech Engineers
PRECISION AND FABRICATION ENGINEERS

1-4-872/2, New Bakaram, Bholakpur, Hyderabad - 500 048.
Phone: 27601000

Position 1: Research Engineer - Medical Materials Processing
Requirements: Hot working, such as hot rolling, forging and extrusion, for medical materials.

Position 2: Research Engineer - Process Metallurgist with Focus on Medical Materials
Requirements: Production technologies for medical materials and orthopedic products.

Position 3: Research Engineer - Powder Technology
Requirements: Develop production technologies including gas atomisation for metallic powders.

Position 4: Research Engineer - Process Metallurgy
Requirements: Raw materials, electric arc furnace technology, AOD and ladle furnace.

Position 5: Research Engineer - Production Processes for Advanced Materials
Requirements: Focus on remelting metallurgy and solidification/casting

For all the positions, the engineers will be employed in India but will work in Sweden for the initial two to three years on an expatriate contract. After this period, the engineers will come back to join the Indian operations.

HOW TO APPLY: Interested candidates should email their CVs mentioning “Applications for DMT R&D” in the subject line to careers.india@sandvik.com. Read more about Sandvik at www.sandvik.com

Sandvik Materials Technology is a business area within the Sandvik Group and a world-leading manufacturer of high value added products in advanced, dense materials, special steels, metallic and ceramic materials; as well as process plants and systems. Annual sales were about US$2.3 billion with 8,600 employees, the product areas comprise Tube and Pipe, Strip, Wires, Fastener and Process Systems.

SANDVIK ASIA LTD.
Requiring Process Metallurgists at The New R&D Centre at Pune
Sandvik Asia Ltd., Pune, is a member of Sandvik Group, Sweden, world leader in the fields of Toding, Mining & Construction, and Materials Technology. We are looking for research engineers in the areas of process metallurgy and metal working for multiple positions in the new R&D Centre of Sandvik Materials Technology, Pune.

Resumes are invited from candidates with strong academic background and relevant experience, preferably with Ph.D. or Masters degree in Materials and Metallurgical Engineering, with excellent analytical and communication skill and capability to work with an international team.

Position 1: Research Engineer - Process Development and Hot Working
Requirements: Process development in hot working, such as hot rolling, forging and extrusion.

Position 2: Research Engineer - Medical Materials Processing
Requirements: Hot working, such as hot rolling, forging and extrusion, for medical materials.

Position 3: Research Engineer - Process Metallurgist with Focus on Medical Materials
Requirements: Production technologies for medical materials and orthopedic products.

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Prof. G.S.Upadhyay and Mr. S.R.Sunderam were felicitated with PMAI Fellowships.

The inaugural function was immediately followed by the Key Note address ‘PM Industry in India’ by Mr. S.Srinivasan of Hoganas India; Pune.

This was followed by a special lecture by Mr. P.S. Upadhyaya, Director (Technical) of NMDC Ltd. Hyderabad, on NMDC initiatives in the area of Powder Metallurgy.

The P.R.Roy Memorial Lecture entitled ‘Design and performance of fast reactor fuels: Towards energy sustainability and security’ was delivered by Dr. Baldev Raj, Distinguished Scientist and Director of Indira Gandhi Centre for Atomic Research (IGCAR) Kalpakkam. The Tamhankar Memorial Lecture ‘Expanding horizons of powder metallurgy’ was delivered by Dr. T.R.Rama Mohan, Professor (Retd) IIT Bombay, consultant and Honorary Fellow of PMAI.

The conference was attended by about 200 delegates from India as well as from abroad and covered various aspects of Powder Metallurgy. More than 50 technical papers by authors from countries like Singapore, U.S.A., Germany, Switzerland, Canada, Venezuela, Czech Republic, Turkey South Korea, Ukraine etc. in addition to India, discussed the developments in the investigations on microstructures and mechanical properties, powder metallurgy of ferrous and non-ferrous alloys, nuclear materials, nano-structured composite materials and electronic materials.

The best paper award was given to ‘Structural, Electrical and Magnetic Properties of Nanoized NGO Ferrite Prepared by High Energy Ball Milling’ by R.Rakesh Radhakrishnan, G. Sreenivasulu, B.S.Murty of IIT Madras, Chennai.

PMAI News
From PMAI Office

PMAI office has prepared ID cards for members. Some of them were distributed during PM08 at Chennai. Others have been sent by post. In case of non-receipt of the ID card please contact PMAI office by e-mail or letter.

Postal address : 1002, B Wing, Kingston,High Street, Hiranandani Complex,Powai,Mumbai-400076

Tel : 022-25704588

E-mail address : pmai_pm@yahoo.com

PMAI Directory

The new PMAI Directory (Feb.08) incorporating members of PMAI and WHO’S WHO in Particulate Materials in India has now been published. It is priced @Rs.250/ (U.S.$10/for foreign countries) inclusive of postage. Those interested in procuring it should send the amount by local cheque@Mumbai), or draft at PMAI office in Mumbai. In case of outstation cheques please add Rs.50/.

The directory can also be purchased by personal visit to PMAI office.

Powder Metallurgy for the 21st Century

PMAI has published a special volume of Transactions, April 2008, entitled ‘Powder Metallurgy for the 21st Century’. This was the theme of the National Conference of PMAI at Chennai during Feb.3rd and 4th 2000.

Copies of this issue have already been dispatched to all the subscribers and US $ 50/ for Overseas subscribers.

PMAI Delegation to U.S.A.

Efforts are being made for a PMAI delegation to attend Powder Metallurgy World Congress, Washington D.C., starting from 8th June 2008 followed by discussions with few key PM people and visit to Industries.

International PM Events

INTERNATIONAL POWDER METALLURGY SHOW CASE OF METAL FORMING DESIGN SOLUTION (WITHIN SAE WORLD CONGRESS) April 14-17, 2008 Detroit, U.S.A. www.sae.org

HIP08 - THE 9TH INTERNATIONAL CONFERENCE ON HOT ISOSTATIC PRESSING May 6 - 9, Huntington Beach, CA, www.hip2008.com

WORLD CONGRESS ON POWDER METALLURGY & PARTICULATE MATERIALS June 8 - 12, Gaylord National Hotel, Washington, DC, www.mppl.org


PMAI-09, INTERNATIONAL CONFERENCE AND EXHIBITION Feb.16-18, 2009, Cidade De Goa, Panjim, Goa www.pmai.in

WATER BENCH FACILITY

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From PM Industries

SANDVIK ASIA LTD. Requires Process Metallurgists at The New R&D Centre at Pune

Sandvik Asia Ltd., Pune, is a member of Sandvik Group, Sweden, world leader in the fields of Toding, Mining & Construction, and Materials Technology. We are looking for research engineers in the areas of process metallurgy and metal working for multiple positions in the new R&D Centre of Sandvik Materials Technology, Pune.

Resumes are invited from candidates with strong academic background and relevant experience, preferably with Ph.D. or Masters degree in Materials and Metallurgical Engineering, with excellent analytical and communication skill and capability to work with an international team.

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