

european powder
metallurgy association



EPMA
european powder metallurgy association

Euro PM2012 International Powder Metallurgy Congress & Exhibition

16th - 19th September 2012, Congress Center Basel, Switzerland

FIRST ANNOUNCEMENT & CALL FOR PAPERS

A focused powder metallurgy event covering:

- PM Applications and New Processes
- **Hard Materials and Diamond Tooling**
- Powder Injection Moulding
- Hot Isostatic Pressing



Euro PM2012 will provide focused programmes for the 'Hard Materials & Diamond Tooling', 'Powder Injection Moulding' and 'Hot Isostatic Pressing' sectors plus, for the first time, a special programme on 'PM Applications and New Processes'. In addition to the main technical programme, a wide variety of industry orientated workshops and special sector meetings will take place.

www.epma.com/PM2012

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congress & exhibition

PM APPLICATIONS AND NEW PROCESSES (New for Euro PM)

Innovation is the motor of every industry and the Powder Metallurgy industry has always benefited from a strong Research and Development effort, which allows the development of new processes and the discovery of new applications for PM components. The special programme on 'PM Applications and New Processes' should highlight the current and future successes in different topic categories. The programme offers a "bottom up" approach, where all PM areas can be addressed.

Topic Areas will include:*

- Miniaturization & Nanotechnology in PM
- Secondary & Finishing Operations
- Tools for Improving PM: Design and Control
- Tools for Improving PM: Process
- PM Non Ferrous & Special Materials
- PM Lightweight & Porous Materials
- PM Biomaterials
- PM Functional Materials
- Powder Metallurgy for Current & Future Applications



POWDER INJECTION MOULDING

PIM is now an established manufacturing process for small precision components which would be costly to produce by alternative methods. It is capable of producing, in both large and small volumes, complex shapes from a wide range of materials, including non ferrous metals/high performance steels, Al and Ti, hardmetals/cemented carbides and magnetic materials and intermetallics. The competitiveness of PIM is shown by its average 10% annual growth rate, maintained and confirmed even over the 2008-2009 crisis period, and as a result components made by the PIM process are found in a wide range of applications. These include the aerospace, automotive, business equipment, bio medical, computer hardware and defence sectors.

Topic Areas will include:*

- MIM Powders Production and Properties
- Modelling
- PIM Components Production
- Applications and Properties
- Quality Assurance
- Economics, Markets and Legislation



* More detailed lists of topic areas can be found on www.epma.com/pm2012

TO PRESENT A PAPER OR POSTER

Authors are invited to submit abstracts of papers for presentation in the Technical Programme. These should be of original and unpublished work, and commercialism in manuscripts, presentations, or visuals will not be permitted.

Papers will be allocated to Oral and Poster Sessions by the Technical Programme Committee (TPC), based on authors' wishes, overall evaluation and limits of the time schedule.

It is planned that Oral Sessions will each contain four presentations, with 20 minutes scheduled for each paper, including discussion time. Poster Presentations will be located in allocated topic zones and will be on display for the duration of the event.

When assessing submitted papers, the Technical Programme Committee will consider:

- the originality and novelty of the subject
- critical study of a process, or a product in the course of development
- study of the effects of fundamental scientific results on R & D
- description of industrial achievements
- technical/economic analysis of processes
- comparisons with competitive processes or products.

ABSTRACT SUBMISSION

Abstracts should be submitted on-line only at www.epma.com/pm2012 by **3rd February 2012**. They should be between 100 and 150 words in length, and give sufficient information to allow the TPC to evaluate the proposed presentation. Receipt of all abstracts will be acknowledged; acceptance of papers will be confirmed by 6 April 2012.

CONGRESS PROCEEDINGS

Presentations from the Oral and Poster Technical Sessions (mandatory), and Special Interest Seminars (optional) will be published in the Congress Proceedings (maximum 6 x A4 pages per paper), and these will be made available to delegates at the time of the congress. EPMA has an agreement with Proquest LLC to enable the wider circulation of papers presented at EPMA conferences and to enhance their standing in the academic community. The papers from Euro PM2012 will, therefore, be made available to the subscribers of Proquest and its sister company, Cambridge Scientific Abstracts.

PLEASE GO TO WWW.EPMA.COM/PM2012 TO SUBMIT A

HARDMETALS, CERMETS, COATINGS, SUPERHARD MATERIALS & DIAMOND TOOLING

Europe is a key player in the global hard materials field, the size of which is comparable to the structural parts sector. The range of hard materials available to design and manufacturing engineers has broadened considerably over recent years, and includes WC based hardmetals; Ti(C,N) based cermets; engineering ceramics; superhard CBN and PCD; and monocrystalline diamond impregnated tools.

The programme in Basel will include a Special Interest Seminar focusing on the "Modelling and Application of Hard Materials".

Topic Areas will include: *

- Developments in Materials and Processing
- Raw Material and Manufacture of Grade Powders
- Consolidation
- Sintering
- Finishing Treatments and Hard Functional Surfaces
- Joining
- Quality Assurance and Characterization
- Modelling
- Economics, Markets and Legislation
- Applications and Properties



HOT ISOSTATIC PRESSING

HIP has established itself in the past decade as an essential manufacturing process for the production of complex and highly specified components made from a wide range of metals and/or ceramics. As a niche, but developing sector with great potential, HIP introduces PM technology into size ranges and capabilities not traditionally associated with the technology. These HIP components are currently being used in a number of industry sectors that have highly demanding environments for example: aerospace, offshore, energy and medical.

Topic Areas will include:

- Powders for HIP
- Properties of PM HIPed materials and standardisation
- PM HIP applications: Semis, near net shape or net shape
- PM HIP applications; Bimetal, compounds, MMC
- PM HIP applications: Others (sinterHIP, MIM, etc.)



* More detailed lists of topic areas can be found on www.epma.com/pm2012

CONDITIONS

The text of all papers will be refereed by Session Chairmen, and the Organising Committee reserves the right to reject a paper that does not meet its evaluation criteria. The inclusion of a paper in the final programme will also be dependent upon:

- the submission of the draft and final text by the official deadlines, and
 - the presenting author completing his/her delegate registration and payment by the official Authors' deadline which will be 31st July 2012.
- Note to Authors: All costs relating to Congress participation, including registration (special rate for authors), travel, accommodation and subsistence expenses, will be covered by the author.

AUTHOR DEADLINES

Abstracts - 3rd February 2012

Draft Text of Paper - 30th May 2012

Final, Refereed Manuscripts - 6th July 2012

Delegate Registration - 31st July 2012



CONGRESS CO-CHAIRMEN

We are pleased to advise that the Co-Chairmen will be:

Mr Georg Breitenmoser, Parmaco Metal Injection Moulding AG and

Dr Steven Moseley, Hilti AG.

The Chairman of the Technical Programme Committee will be Professor Efraín Carreño-Morelli, University of Applied Sciences Western Switzerland

LANGUAGE

English will be the official language of the congress.

LOCATION

Basel lies in the heart of Europe, situated in the border triangle of France, Germany and Switzerland.

BY AIR Basel has its own airport, 15 minutes from the city centre; it is also less than an hour by train from Zurich airport.

BY TRAIN Basel is an international rail hub with ICE, IC and EC connections to Germany, Austria, Italy, France and Benelux.

BY CAR Basel is located at the junction of Swiss, French and German motorway networks, and the “Messe” exit on the A2 motorway leads directly to the congress centre.

The Congress Centre Basel is in the city centre. A wide range of hotels, the Old Town, shopping streets and museums are within easy walking distance, a few minutes away by tram.



EXHIBITION

The Euro PM2012 Exhibition, held in conjunction with the Congress, offers an excellent opportunity for international suppliers to the PM industry to network with new and existing customers from the powder metallurgy and associated sectors.

If you supply the Powder Metallurgy Industry with products and services in Europe, the Euro PM2012 Exhibition is the one event you need to attend. The Euro PM2012 Congress & Exhibition will attract many key PM industry decision makers, who may be your next customers.

Exhibition stands are sold on a “First come/First served” basis and full details, including a copy of the exhibition floor plan, is available via the Euro PM2012 Congress & Exhibition website www.epma.com/pm2012.



SPONSORSHIP

There is a range of outstanding sponsorship and advertising opportunities to help raise the profile of a company within the powder metallurgy industry. Cost effective sponsorship packages are available, to suit all budgets, from advertising opportunities in the Congress & Exhibition Guide, to promotional items for the Session Speakers, through to sponsoring key event activities, such as the Welcome Reception or Gala Dinner Drinks.

For full details on available sponsorship and advertising packages at next year's Euro PM Event, including the associated costs, please visit www.epma.com/pm2012

CONGRESS ORGANISERS

Euro PM2012 is sponsored and organised by the European Powder Metallurgy Association (EPMA). EPMA, a non-profit organisation formed in 1989, is the leading trade association for powder metallurgy in Europe. Its key functions are to represent the interest of the European PM community and to promote PM technology throughout the world. Further information about services and membership can be found at www.epma.com

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