

PowderMet2009 features a trade exhibition, 46 technical sessions, six special interest programs and a technical poster program.

Long-Term PM Industry Growth

AFFIRMED BY POWDERMET CONFERENCE PROGRAM

Schedules will be jam packed for attendees of PowderMet2009, the International Conference on Powder Metallurgy and Particulate Materials, where there is no shortage of special activities and technical events. presentations. This is not to mention all the usual attractions the PM industry will find in Las Vegas.

Sponsored by the Metal Powder Industries Federation (MPIF) in cooperation with APMI International, PowderMet features a 100-booth trade exhibition of the latest PM products, raw materials and process equipment. International industry experts will offer more than 200 technical presentations in 46 sessions, six special interest programs

and a technical poster program. "The collection of high-quality contributions, coming from both the industrial and research communities, will those attending PowderMet2009 an opportunity to gain insight into the ongoing evolution of the PM industry," says Stephen J. Mashl, co-chairman of the program committee and global director of research and development for Bodycote plc.

Some topics the technical session will cover include advanced powder production techniques, nanostructured materials, thermal management materials, functionally gradient materials, biomedical applications in powder injection molding, advanced gear processing, foams and

structured sandwich materials, titaniumboron materials, trends in metal powders, PM process equipment and PM parts

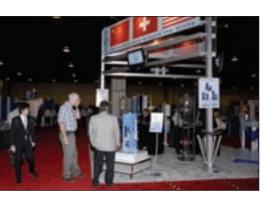
"The program reflects good sound interest in PM, despite tough condition in the national economy, and shows there is still confidence in PM's longterm growth," says Thomas J. Jesberger, co-chairman of the program committee and chief technical officer of Abbott Furnace Co.

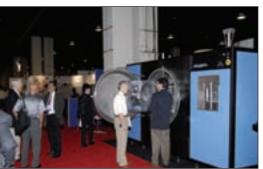
The keynote presentation for the opening general session, held first thing Monday morning, also addresses a timely topic: "Tough Driving Ahead: the Future of the U.S. Automotive

continued



Attendees scope out some gears featured in the PM design excellence awards.





Visitors walk the show floor at 2008's PM World Congress browsing the latest PM products, raw materials and process equipment.

Market in the Next Decade." The address will be given by Sean McAlinden, executive vice president and chief economist for the non-profit Center for Automotive Research. Dr. McAlinden will assess the current economic and competitive positions of North American automotive companies, and he will discuss the prospects for market recovery, what industries will be a part of it, and his expectations for the role of powder metallurgy in the kinds of cars, regulations and technologies that will develop in the long-term.

In addition to the technical sessions, there are six special interest programs. "SIPs, as they are called, are created by the Conference Program Committee and MPIF Technical Board, and [they] are based on current technical or hot topics utilizing invited presentations, as opposed to the open 'call for papers,' which fill the technical session program," explains Sandra Leatherman, manager of meetings and conferences for MPIF.

At last year's World Congress, the international PM community's biennial event, which was hosted in Washington D.C., there was an SIP devoted to "Gears—The Next PM Frontier."

"The three-session SIP contained nine presentations and was the best attended technical session at PM2008," Leatherman says. "There was an excellent exchange of technology through the interaction of the attendees during the presentations and scheduled speaker interact.

"Due to the overwhelming interest and subsequent discussions after each session of the 'Gears-The Next PM Frontier,' the Center for Powder Metallurgy Technology (CPMT) has launched a new program 'Advanced Gear Processing,'" Leatherman says. "The program objectives are to understand the contribution of post-PM processes on performance characteristics—contact fatigue, bending fatigue, wear and dimensional accuracy."

The Advanced Gear Processing session (number 39) will take place Wednesday morning from 10:45–12:15. The session is chaired by Jeffrey R. Hamilton of Cloyes Gear and Products, Inc. Two German papers are being presented, titled "Gear-Rolling Study" and "Rollability of Case-Hardening PM Steel." An American paper titled "Surface Durability of Ausformed Powder Metal Gears" is also part of the session.

Also of interest to gear makers is a paper called "High-Speed Gear Hobbing—HSS or Carbide?" being presented in the Wear session (number 43), held Wednesday afternoon, 1:30–3:00. The High-Density Applications session (number 33), on Wednesday morning from 8:00–9:30, includes a paper on "Investigation of a Cogging Process for Surface Densification of PM Gears by FEM Simulation."

PowderMet2009 takes place June 28–July 1 at the Mirage Hotel in Las Vegas. For more information, visit www.mpif.com.

Gear Scudding® can be up to six times faster than gear shaping -and only American Wera does it!



This revolutionary process called Scudding®, developed by Wera Profilator GmbH, involves a machine using synchronized spindles and an HSS cutter that feeds directly through the work piece to generate a high-quality gear internal or external, spur or helical.

When you need a flexible gear cutting process, look to American Wera. Whether you are looking for a single or multiple process machine, American Wera can engineer a solution for you. The Profilator's modular design allows us to combine processes including Scudding®, hobbing, step lock milling, polygon milling, tooth pointing and rotary deburring.



4630 Freedom Drive • Ann Arbor, MI 48108 • 734.973.7800 • fax 734.973.3053



S-MAX Hi-Feed

Blistering feed rates even in titanium!

 Industry's only four-edged tangentially mounted hi-feed insert

4 edges without sacrificing strength

Coolant -through

TETRA

- 4 high-positive cutting edges
- Helical, clean-shearing cutting action
- · Coolant-through available on end mills
- Available as face mills as well as extended flute and single-station end mills



Ingersoll Cutting Tools

ALENDA

July 8-10—Gear Manufacturing Troubleshooting Course. Liebherr America, Saline, MI. This training school for gear manufacturing is a basic course offered by the Gear Consulting Group in regional versions throughout the year to reduce the time employees spend out of the office while training. Other sessions this year will take place in California, September 7-9 and Ontario, Canada, dates to be announced. Instructors Geoff Ashcroft and Ron Green teach participants both theory and practical aspects of gear manufacturing while imparting knowledge of everyday problems and understanding how to think through troubleshooting. Tuition is \$750 and includes a reference manual and certificate of completion from AGMA. For more information, call (269) 623-4993, or email gearconsulting@aol.com.

July 20-24—Coordinate Metrology Systems Conference. Louisville Marriott Downtown, Louisville, KY. The 25th annual CMSC will bring together professional and novice users of portable 3-D coordinate measurement technology. White papers will be presented by expert users from leading companies and universities; workshops, user group meetings and an exhibition highlight portable coordinate measurement systems, software, accessories, peripherals, inspection and measurement service providers. The CMS also hosts networking events, a membership banquet, entertainment and a local tour. For more information, visit www.cmsc.org.

July 27-29—Powder Metallurgy Basic Short Course. Penn Stater Conference Center Hotel, State College, PA. This three-day course is designed for people starting out in the PM field looking for an introduction, looking to learn about recent developments in the industry, trying to broaden a PM background and users of PM parts. Attendees will learn the history of PM, why it is viable, why use is so widespread, design points, production, injection molding, standards and the latest technologies. It is not required that attendees have a technical background. It is designed specifically for engineers, tool designers, product designers, metallurgists, technicians, QC personnel and more. For more information, visit http:// www.mpif.org/meetings/2009/2009_basic_sc.pdf or call the MPIF at (609) 452-7700.

September 15-17—Gear Expo. Indianapolis, IN. For the first time since 1995 the gear industry's premier trade event returns to Indianapolis featuring five pavilions on the show floor: aerospace, breakdown, energy, powder metal/plastics and tooling. AGMA anticipates more than 175 exhibitors and 3,000 attendees from 43 states and 36 countries. This year's Gear Expo is co-located with the Heat Treating Society's Conference and Exposition, which is expected to add another 3,000 attendees and 180 exhibitors. For more information, go to www.gearexpo.com or visit our Gear Technology Gear Expo Showroom at www.geartechnology. com/gearexpo.

DREWCO WORKHOLDING

Now more than ever



Workholding Matters Small investments - Big returns

- Reduce set up
- Maximize spindle time
- Be a hero

Email us for our case studies

ISO 9001-2000 Certified

Ph: (262) 886-5050



Fax: (262) 886-5872

