



NEWSLETTER

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"Recent Developments in Conventional Powder Metallurgy"

Products manufactured by powder metal technologies represent a \$5.5 billion business in North America, with more than 75% produced by conventional "press & sinter" technology. While the automotive market uses about 70% of the output of the conventional PM manufacturers, other major markets include power tools, lawn and garden, appliances, recreational products, hydraulics and industrial motors/controls. During the 1990's this metal forming technology grew at a compound annual rate of greater than 10%. In order to recapture this unusually high growth rate new advances are required to maintain a cost competitive position relative to other metalworking manufacturing methods. This presentation will provide a short overview of the basic PM process, followed by a detailed examination of the latest advances in PM materials, forming technologies and processing. The latter will include a discussion of the latest high performance compaction methods and the new product opportunities that will be opened by these advances. Similar opportunities will be afforded by novel steel alloy systems and the duplex sinter-heat treat process known as "sinter hardening". Specific targeted markets and competitive manufacturing processes will be identified.

About the Speaker.....

Mr. Sanderow is President of Management and Engineering Technologies, an independent consulting firm specializing in the technology and business aspects of powder metallurgy and related particulate technologies such as ceramics and composites. Prior to starting this consulting business in 1988, Mr. Sanderow spent 15 years in the design and manufacture of powder metal components, holding positions in Engineering, QC, and 8 years as General Manager of a company manufacturing conventional powder metal parts.

He holds a B. Met Eng. Degree from Rensselaer Polytechnic Institute and an MBA from Wright State University. He is an active member of ASM, APMI, AGMA and ASTM and is currently MPIF standards committee chairman for P/M materials as well as the AGMA powder metallurgy gear committee chairman. In 1995 he received the MPIF Distinguished Service to Powder Metallurgy Award.

Mr. Sanderow has authored over 225 technical papers in the P/M field, written a book on High Temperature Sintering and holds 2 patents. He also serves as Executive Director of the Center for P/M Technology and an ISO 17025 assessor for the American Association for Laboratory Accreditation.

Wednesday, December 14, 2005

“Recent Developments in Conventional Powder Metallurgy ”

By

Howard I. Sanderow

Of

Management and Engineering Technologies

Technical Chairperson

Jim Laverick

Location

Lolli's Restaurant
Corner of Belpar and Dressler in Aston Park near Belden Village

Social Period starts at 6:00 p.m. Dinner at 6:30 p.m. Meeting at 7:30 p.m.

Dinner Reservations: Reservations can be made by contacting
Krich Sawamiphakdi (The Timken Company) at 471-2137 {krich.sawamiphakdi@timken.com}.

Reservations can be made up to 5:00 PM on December 13

All walk-ins between 6:00 p.m. and 6:30 p.m. are accepted

***Note: The Chapter must pay for all dinner reservations. “No-shows” may be billed if the reservation is not cancelled by 4:00 PM, December 14.

Dinner Selections: Steak, Stuffed Chicken with Broccoli, Vegetarian, or Orange Roughy (Fish)

Dinner Prices

ASM Members and Spouses: \$16.00

Non-members and Guests: \$18.00

Retirees and Students: \$8.00

**Please provide your name, company affiliation, and dinner selection
when making reservations.**

Pay by cash or check at meeting

*** SPOUSES AND GUESTS ARE WELCOME ***

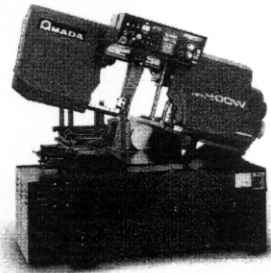
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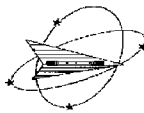


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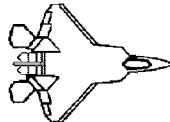


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