

Conference Report

European Powder Metallurgy Conference

1998 Powder Metallurgy World Congress & Exhibition (PM'98) will be held 18-22 Oct 1998 in Granada, Spain. Organized by the European Powder Metallurgy Association (EPMA), PM'98 will be the next in the series of PM World Congresses following the successful PM2Tec96, held recently in Washington, USA, and attended by more than 2000 delegates. PM'98 will feature a technical program covering the whole spectrum of powder metallurgy and related technologies; including process technology, materials, and applications. PM'98 will address all aspects of powder metallurgy not only through traditional oral and poster presentations, but also through a unique series of topical seminars and symposia. These will be aimed at providing a unique balance of theory and practice.

The internationally acclaimed Granada Congress Center will host the PM'98 Congress, and also a large trade exhibition on powder metallurgy machinery, materials, powder metallurgy components, and research centers. Granada, situated in Andalusia, Southern Spain, is close to the snow-capped mountains of the Sierra Nevada and the Mediterranean coast. Contact: EPMA Secretariat, European Powder Metallurgy Association, Old Bank Buildings, Bellstone, Shrewsbury SY1 1HU, UK; tel: +44 (0)1743 248899; fax: +44 (0)1743 362968; e-mail: epma@dial.pipex.com.

Vacuum Coaters Conference

Vacuum Coating Manufacturing and Technology issues will be discussed at the 40th Society of Vacuum Coaters Technical Conference (SVC TechCon). 12-17 April 1997, New Orleans, LA. Technical sessions include: vacuum web coating, optical coating, plasma processing, process control and instrumentation, emerging technologies, decorative and functional coating, large area rigid coating, and new products and services from vendors.

Contact: Society of Vacuum Coaters, 440 Live Oak Loop NE, Albuquerque, NM 87122-1407; tel: 505/856-7188; fax: 505/856-6716; e-mail: svcinfo@svc.org.

Welding and Joining Science and Technology Conference

The Madrid Conference, 10-12 March 1997, Madrid, Spain, in co-operation with the Centro Nacional de Investigaciones Metalurgicas (CENIM), will cover a wide variety of welding-related topics, both basic and applied. The focus of the conference will be on sharing the information in the field of materials joining and will include topics on welding, soldering, solid-phase welding, and new kinds of joints made using various heat sources.

The program for the Conference will cover a wide discussion on the problems and solutions in the field of treatment and joining of materials. Topics include modeling of welding processes, process development, weldability, welding metallurgy, and properties of weldments. In addition, papers are solicited on welding and joining issues related to the control of defects, sensing, control and automation, quality, productivity, design, and life extensions of welds in automotive, aerospace, ship-building, and energy systems.

Contact: ASM International Europe, Boulevard St. Michel, 15 B-1040 Brussels, Belgium. Tel: +32.2.743.15.46, fax: +32.2.743.15.50; e-mail: 100332.670@compuserve.com.

The Third Recycling of Metals Conference and Exhibition

11-13 June 1997, Barcelona, Spain. The topic of recycling is maturing quickly, and identifying the major technological and economical trends is needed. At issue will be the competition among materials and between recycling and primary (or virgin) metals. Therefore, the 1997 conference will address the challenges associated with metal recycling with both an economic track and a technical track. Other issues facing both tracks will be global trends in metal consumption, metal dispersive uses, and availability for scrap.

The program will include one general session and several concurrent sessions in two tracks addressing a variety of recycling subjects including: recycling of metals and economic competition and advanced technology in recycling processes.

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Third Synthesis, Processing, and Modeling of Advanced Materials Conference

The conference on Advanced Materials and Processes (25-27 June 1997, Paris, France), will consist of presentations by invited speakers on selected topics and associated poster sessions. The conference will consist of approximately 26 invited speakers representing an equal number of European and American speakers. This transatlantic combination of expertise will provide a thorough overview of the latest developments in processing, modeling, and synthesis of high-performance alloys.

The proposed topics to be covered are: emerging airframe applications, emerging engine applications, titanium alloys, aluminum alloys, steels, metal-matrix composites, intermetallics, fatigue and fracture, process modeling, casting, joining, and forming and powder metallurgy.

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Processing and Fabrication of Advanced Materials

The Sixth Conference on Processing and Fabrication of Advanced Materials (PFAM VI) will be held 24-26 Nov 1997 in Singapore. The purpose of this interdisciplinary conference is to bring together state-of-the-art developments in the processing and fabrication aspects of advanced materials spanning the entire spectrum of metallic, intermetallics, ceramic-matrix composites, intermetallic-matrix composites, metal-matrix composites, polymer-matrix composites, and high-temperature coatings. The conference will provide an attractive forum for presenting the latest advances in materials processing and fabrication by researchers and engineers from industry, research laboratories, and academia.

The topics of interest include, but are not restricted to: advanced ceramics, biomaterials, ceramics and ceramic-matrix composites, intermetallics and intermetallic-matrix composites, functionally graded materials, metal-matrix composites, polymers and polymer-matrix composites, and surface coatings and high-temperature coatings.

Contact: PFAM VI Conference Secretariat, Center for Continuing Education, Nanyang Technological University, Nanyang Avenue, Singapore 639798, Republic of Singapore; tel: 65/799-4723; fax: 65/791-6178; e-mail: PFAM97@ntuvax.ntu.ac.sg.

Metallurgical Coatings and Thin Films Conference

The International Conference on Metallurgical Coatings and Thin Films (ICMCTF 97) (21-25 April 1997, Town and Country Hotel, San Diego, CA), now entering its twenty-fourth year, addresses issues in the science and technology of thin-film and metallurgical coatings and surface modifications.

Fundamental research issues, as well as commercial applications, are highlighted in several core topical areas. These focus on advances in processing and characterization, in addition to the properties and performance of coated or modified materials. The Conference is cosponsored by the Vacuum Metallurgy and the Thin Films divisions of the American Vacuum Society. The High Temperature, Hard Coatings, and Tribological Coatings Symposia are traditional strengths of the Conference. The Conference also sponsors extensive symposia dealing with advances in coating and thin-film characterization (including coatings for use at high temperature, hard coatings and vapor deposition technology, and tribological coatings/surface modifications), optical thin films, diamond and related materials, advanced materials in microelectronics, and applications, manufacturing, and equipment.

Contact: Mary S. Gray, Suite 502, 1090 G Smallwood Drive, Waldorf, MD 20603; tel: 301/870-8756; fax: 301/645-1426; e-mail: 104673.1235@compuserve.com.

Eighth International Symposium on Nondestructive Characterization of Materials

15-20 June 1997, Hotel Boulderado, Boulder, CO. The role of nondestructive evaluation is changing and will continue to change dramatically. It has become increasingly evident that it is both practical and cost effective to expand the role of nondestructive evaluation to include all aspects of materials production and application and to introduce it much earlier in the manu-

facturing cycle. The symposia on nondestructive materials characterization are directed toward this expanded role for nondestructive evaluation. The role of NDE has expanded far beyond its historical mission of detecting macroscopic defects in structures and components that have already been constructed and most often had been in service for an extended period of time. Today, using advanced sensors and modern measurement technology, along with signal/data processing techniques, information on the processing conditions and the properties and characteristics of the materials being processed can be continuously generated.

Contact: Debbie Harris, The Johns Hopkins University, Center for Nondestructive Evaluation, 102 Maryland Hall, 3400 N. Charles Street, Baltimore, MD 21218; tel: 410/516-5397; fax: 410/516-7249; e-mail: cnde@jhuvms.hcf.jhu.edu.

Corrosion Conference in India

The Nehru Center, Mumbai, India, will be the site for the International Conference on Corrosion & Corrosion Exhibition (CORCON 97) on 4-6 Dec 1997.

Contact: Corrosion Science and Engineering, Attn. Prof. A. S. Khanna, IIT Mumbai - 400 076, India; fax: 0091 22 578 3480.

Automotive Technology and Automation Conference

The International Symposium on Automotive Technology and Automation (30th ISATA) will be held 16-19 June 1997 in Florence, Italy. The 1997 symposium will be chaired by Mr. Laurent Chappius, Technical Specialist Lightweight Stampings, Ford Motor Company, USA and cochaired by Dr. Matthias Nohr, Daimler-Benz AG, Germany. The conference will focus on state-of-the-art developments in the field of New Materials and their implications in the automotive industries. Topics will include: lightweight metals, high-performance metals, powder metals, polymer composites, automotive interiors, and glass and ceramics.

Included is a "mini-conference" on ceramics. Ceramics have been used in automotive engines for a number of years. Applications include spark plug insulators for ignition systems, safety and tempered glass for windows, catalyst and catalyst supports for emission abatement, and sensors for feedback controls of combustion and performance. Properties of ceramics such as high hardness, wear resistance, low friction, low density, and low thermal conductivity, have simulated significant interest in further applications. These can be broadly categorized as: insulating (e.g., precombustion chamber and exhaust port liner), wear resistant (e.g., rocker arm and tappets), and low inertia (e.g., turbocharger rotors). The trend for the future is towards sensing and actuating devices based on smart materials; that is, materials able to detect a change in the environment and to respond accordingly. In some cars up to 50 such devices can be used. Among the best known are piezoceramics used for noise control and oxide-based catalysts used to improve converter efficiency and reduce emissions.

This mini-conference will address the challenges facing ceramics (monolithics, coatings, and smart materials) in the automotive industry. Topics include: materials reliability, design/lifing (including modeling), component fabrication (joining and coating), nondestructive evaluation, energy and environmental consideration, and economic and social acceptability.

The mini-conference organizer is: Dr. John A. Fernie, TWI, Cambridge, England. The Materials Conference Coordinator is: Claire Farrugia, ISATA, Croydon, England.

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