

Inter-American Materials Conference Set

The IX Inter-American Conference on Materials will be held in Santiago, Chile, October 4-9, 1987. The event is sponsored by the University of Chile and the Organization of American States. Topics include ceramic, composite, and refractory materials; physical, mechanical, extractive, and manufacturing metallurgy; cements and concrete technology; wood science and technology; and materials education. For more information, contact Ernesto Croquevielle, CIATM-9, Universidad de Chile, Casilla 1420, Santiago, Chile.

ORNL Analytical Chemistry Conference Celebrates 30th Anniversary

"Back to the Future" will be the theme for the Oak Ridge National Laboratory (ORNL) Conference on Analytical Chemistry in Energy Technology, October 20-22, 1987 in Knoxville, TN. The annual conference, cosponsored by the Department of Energy (DOE), brings together U.S. and foreign analytical chemists representing government laboratories, industry, and educational institutions. Special 30th anniversary sessions will highlight contributions of DOE research to analytical chemistry and look at anticipated directions in the development of analytical tools and their application.

Contributed papers will cover: spectral techniques (mass, spectrophotometric, atomic, and molecular); analysis of radioactive materials for inorganic, organic, and radiochemical constituents; and ultratrace analysis in environmental, health and safeguards applications. Each area will be introduced by invited lectures; both oral and poster sessions, as well as an equipment exhibit, are planned.

For information, contact: W.R. Laing, Technical Program Chairman, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, TN 37831-6127; telephone (615) 574-4852 or FTS 624-4852.

SPIE Symposium on Innovative Science and Technology Is Part of O-E LASE '88

SPIE-The International Society for Optical Engineering has announced a Symposium on Innovative Science and Technology to be held in Los Angeles, CA January 10-15, 1988 as part of O-E LASE '88, SPIE's third annual technical program on optoelectronics and laser applications in science and engineering. The Symposium on Innovative Science and Technology is

under the general chairmanship of James A. Ionson, SDIO Office of Innovative Science and Technology.

Included in the symposium are several conferences which will address advanced materials in detail. "Optical Sensor Protection and Multifunctional Materials" will be a forum aimed at protective materials produced by new techniques such as sol-gel and high pressure metastable phase production. "Micro-Optoelectronic Materials" will examine electronic, optical, and packaging materials for faster data processing speeds and more reliable operation. "Structural Properties of Materials" will look especially at the synthesis of high performance ceramic fibers and thermochemically stable fiber coatings for diffusion barriers and interface property control in high temperature space applications. For information, contact: SPIE, P.O. Box 10, Bellingham, WA 98227-0010; telephone (206) 676-3290; telex 46-7053.

MRS Cosponsors Conference on Atomic and Molecular Processing of Electronic and Ceramic Materials

Cosponsored by the Materials Research Society and the Pacific Northwest Materials Council, the Conference on Atomic and Molecular Processing of Electronic and Ceramic Materials: Preparation, Characterization, and Properties will be held August 31 through September 2, 1987 at the University of Washington, Seattle, WA. The conference will bring together experts in both synthesis and characterization of ceramic and primarily nonsilica-based electronic materials.

Two symposia will concentrate on (1) processing ceramic materials and (2) preparing electronic materials. They will include joint sessions on characterization and properties of electronic and ceramic materials. The conference organizers are using a unique approach to transfer information to the participants and maximize interaction. This approach combines aspects of both the Gordon Conferences and topical symposia by offering fewer speakers and focused topics with more time for discussion. The invited speakers include:

- Charles B. Duke, Xerox Webster Research Center, Keynote Speaker;
- Douglas M. Collins, Hewlett-Packard Laboratories;
- Morton B. Panish, AT&T Bell Laboratories;
- S.A. Wainwright, Duke University;
- Miles Crenshaw, Dental Research Laboratory, University of North Carolina;
- Susan Palmateer, MIT Lincoln Laboratories;

- David Marshall, Rockwell Science Center;
- Jim Martin, Sandia National Laboratories; and
- Ron Gronsky, Lawrence Berkeley Laboratories.

For information, contact: Prof. Thomas G. Stoebe, Chairman of the Department of Materials Science and Engineering, Roberts Hall FB-10, University of Washington, Seattle, WA 98195; telephone (509) 543-7090.

ICTA Ninth International Congress on Thermal Analysis Scheduled for August 1988

The ICTA Ninth International Congress on Thermal Analysis is scheduled for August 21-26, 1988 in Jerusalem. The objective of the congress is to bring together those involved in research and applications of the techniques used in thermal analysis to assess the present state of these areas and to evaluate a unified formula for the future. Symposia, oral presentations, workshops, and poster sessions have been scheduled. Various aspects of thermal analysis and calorimetry in research and production will be discussed, including:

- Theory
- Application
- Instrumentation
- Chemistry — inorganic, organic solid state, pyrolysis, heterogeneous catalysis
- Polymers
- Physics — thermophysics, thermally stimulated processes (TL, TSC, TPD, TSD, etc.)
- Earth Science — geochemistry, clay minerals
- Mining Engineering
- Agriculture, pedology
- Biology
- Medical Science, pharmaceuticals
- Metallurgy, ceramics, plastics, oil and petroleum, glass, cement, coal

For information, contact: S. Shoval, Everyman's University, P.O. Box 39328, Tel-Aviv 61392, Israel.

Nominations for ICTA Awards

Nominations are requested for candidates for the ICTA DuPont and Young Scientist Awards which will be presented at the ICTA Ninth International Conference.

The DuPont Award consists of a plaque, an honorarium of \$1,000 (U.S.), and expenses to attend the Jerusalem meeting. It will be awarded to a person who has, in the judgment of the Awards Committee and Council of ICTA, made an outstanding contribution to the science of thermal analysis and/or shown significant leader-

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UPCOMING CONFERENCES

ship to the profession of thermal analysis. Nominations should include the candidate's consent, curriculum vitae, lists of publications, and other relevant supporting material.

The Young Scientist Award consists of a plaque and financial support to attend the meeting. Candidates, who must be under 35 years of age as of December 31, 1988, should submit the paper they intend to present at the meeting, together with a list of publications and a short curriculum vitae. The paper must be in English and the candidate must be the sole author.

Five copies of the documentation for either nomination should be received by **September 30, 1987** by: Dr. D.J. Morgan, Chairman ICTA Awards Committee, British Geological Survey, Keyworth, Nottingham NG12 5GG, United Kingdom.

SPIE Announces O-E LASE '88

SPIE—The International Society for Optical Engineering will feature a compre-

hensive agenda of technical conferences at O-E LASE '88, its annual meeting on optoelectronics and laser applications in science and engineering to be held January 10-15, 1988 in Los Angeles, CA. Forty technical conferences are offered in the following programs:

- Optical Mass Data Storage and Related Techniques
- Laser Science and Engineering
- Laser Spectroscopy: New Equipment, Techniques, and Applications
- Medical and XUV Applications of Lasers
- Aerospace Applications of Lasers
- Optics and Optomechanics
- Optical Computing and Holography

Supplementing the technical conferences are a technical instrument exhibit, tutorial short courses, engineering update courses, and interactive equipment demonstrations. Also featured are a special Symposium on Innovative Science and Technology and SPSE's International Symposium and Exposition on Electronic Imaging Devices and Systems '88. (See separate articles in this section of the BULLETIN.)

For information, contact: SPIE, P.O. Box

10, Bellingham, WA 98227-0010; telephone (206) 676-3290; telex 46-7053.

Electronic Imaging Devices and Systems '88 Held in Conjunction with O-E LASE '88

To be held in conjunction with O-E LASE '88 is the International Symposium and Exposition on Electronic Imaging Devices and Systems '88, sponsored by SPSE—The Society for Imaging Science and Technology and cosponsored by SPIE. The symposium and exposition will address the disciplines related to the capture, generation, manipulation, transmission, and display of images, wholly or in part by electronic means. Nine two-day topical conferences will provide state-of-the-art information in the variety of technologies related to electronic imaging, components, devices, and systems.

For information, contact: SPSE, 7003 Kilworth Lane, Springfield, VA 22151; telephone (703) 642-9090.

CALL FOR PAPERS

JSAP-MRS International Conference on Advanced Materials

*New Materials and New Physical Phenomena for
Electronics of the 21st Century*

June 12 - 15, 1988

Tokyo, Japan

FEATURED TOPICS:

- Metallic Oxide — High T_c Superconductors
- New Quantum Phenomena, including Quantum Wire, Quantum Well, and Quantum Box, etc.
- Application of the Aharonon-Bohm Effect to Quantum Effect Devices
- Digital Epitaxy for Controlling Atomic Layers

For information, contact:

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Fax: 813-818-5706

Sponsored by MRS and the Japan Society of Applied Physics in cooperation with E-MRS.

CALL FOR PAPERS

MRS International Meeting on Advanced Materials

Sunshine City, Ikebukuro, Tokyo, Japan

May 30 - June 3, 1988

The first International Meeting on Advanced Materials will address materials which play key roles in present and future industry. Contributed and poster papers are solicited on:

- Composites • Rapid quenching • Powder preparation • Superconductivity • Superplasticity • Joining of metals and ceramics • Corrosion/coating of advanced materials • Shape memory materials • Hydrogen absorbing materials
- Structural ceramics for mechanical components • Multilayers • Magnetic materials • Fracture mechanics • Biomaterials

The Deadline for abstracts is October 31, 1987.

For information, contact:

Prof. M. Doyama or S. Somiya
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