

Bromley to Address 1991 MRS Fall Meeting

D. Allan Bromley, assistant to the President for science and technology and director of the Office of Science and Technology Policy will address 1991 MRS Fall Meeting attendees in a special plenary session on Monday, December 2. Among other issues, Bromley is expected to report on progress in the national materials initiative under development by the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET).

On leave from his position as Henry Ford II Professor of Physics at Yale University, where he was founder and director of the A.W. Wright Nuclear Structure Laboratory, Bromley is one of the world's leading nuclear physicists. He has carried out pioneering studies on the structure and dynamics of nuclei and is considered the father of modern heavy ion science. He has also played major roles in the development of accelerators, detection systems, and computer-based data acquisition and analysis systems. He has published over

450 papers in science and technology, has edited 18 books, and has received numerous honors and awards, including the National Medal of Science.

An outstanding teacher, Bromley has also been a leader in the national and international science and science policy communities. As chairman of the National Academy's Physics Survey in the early 1970s, he contributed to charting the future of that science in the subsequent decade. As president of the American Association for the Advancement of Science and of the International Union of Pure and Applied Physics, he has been one of the leading spokesmen for U.S. science and for international scientific cooperation.

Prior to his present appointment, Bromley served as a member of the White House Science Council throughout the Reagan administration and as a member of the National Science Board in 1988-1989. As the U.S. chairman for both the Gandhi-Reagan Indo/U.S. and the Sarney-Reagan Brazil/

U.S. Science and Technology Initiatives, he led four Presidential missions to conduct negotiations for bilateral cooperation in science and technology.

Bromley holds BSc and MSc degrees from Queens University, Ontario, Canada. He received a PhD degree in nuclear physics from the University of Rochester and has been awarded 16 honorary degrees from universities in Canada, France, Germany, Italy, South Africa, and the U.S.

Bromley is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, a foreign member of the Brazilian Academy of Sciences, and a Benjamin Franklin Fellow of the Royal Society of Arts (London).



ESSENTIAL READING IN MATERIALS RESEARCH

Forthcoming . . .

LOW TEMPERATURE MICROSCOPY AND ANALYSIS

by Patrick Echlin

This comprehensive volume explores the preparation, examination, and analysis of organic, hydrated, and biological specimens using cryomicroscopic techniques. The author commences with a detailed explanation of liquid water and its conversion to a solid state. He then discusses the preparation of various samples for microscopy and analysis, and outlines the processes of examination and analysis using light, electron, and X-ray imaging systems.

0-306-43984-0/approx. 500 pp./ill./1992

ELECTRON TOMOGRAPHY

Three-Dimensional Imaging with the Transmission
Electron Microscope

edited by Joachim Frank

Electron Tomography details the theory, working methods, and applications of electron tomographic techniques for imaging asymmetric, noncrystalline biological specimens. Contributors to this unique resource discuss all aspects of this growing field, including image formation, computational methods for overcoming artifacts due to missing angular data, and the visualization of three-dimensional scalar data.

0-306-43995-6/approx. 400 pp./ill./1992



PLENUM PUBLISHING CORPORATION
233 Spring Street, New York, NY 10013-1578
Telephone orders: 212-620-8000/1-800-221-9369

FUNDAMENTAL ASPECTS OF CORROSION FILMS IN CORROSION SCIENCE

by Bruce D. Craig

Providing new insight into the understanding of corrosion mechanisms and corrosion control, this text reviews the fundamental concepts of surface films and details their important role in the overall resistance and reaction of metals to their environment.

0-306-43623-X/206 pp./ill./1991/\$49.50

text adoption price on orders of six or more copies: \$29.50

ELECTRON PROBE QUANTITATION

edited by K.F.J. Heinrich and Dale E. Newbury

Comprehensive papers detail a diversity of approaches to quantitative electron probe microanalysis, including the procedures of analysis, data evaluation, and practical applications.

0-306-43824-0/408 pp./ill./1991/\$49.50

CHARACTERIZATION OF ADVANCED MATERIALS

edited by William Altergott and Edmund Henneke

Leading experts detail the latest advances in techniques for characterizing the properties of composites and ceramics, and discuss the results of the evaluation of electronic materials, ceramics, composites, surface treatments, and new alloys.

0-306-43837-2/180 pp. + index/ill./1990/\$69.50

Book prices are 20% higher outside US & Canada.

Circle No. 38 on Reader Service Card.

Please visit Booth No. 405 at the MRS Equipment Exhibit in Boston, December 3-5, 1991.