

NEWS AND COMMENT

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ence 22–28 August in and around Bend, Oregon. It will include a 1-day symposium for the presentation of technical papers, then field tours to points of geological interest in central Oregon. The meeting, an extension of a symposium on lunar geology held last year by the New York Academy of Science, is intended to focus attention on the area's potential as a site for the development and testing of lunar base facilities and equipment that will be needed for space exploration programs. (L. Staples, Dept. of Geology, University of Oregon, Eugene)

Courses

Fairleigh Dickinson University's fourth annual **thermoanalysis** institute will be held in June, in Madison, N.J. The first of two sessions, scheduled 14–18 June, will be on "principles and applications." It will include work on thermogravimetry, differential thermoanalysis, effluent-gas analysis, and differential scanning calorimetry. The fee for this session is \$100; an additional \$60 for dormitory facilities is optional.

The second session, on "recent advances," will take place 21–23 June. It is designed for persons with some familiarity in the field, and will include lecture and laboratory sessions during the day and lectures in the evenings; recently developed apparatus will also be demonstrated and available for use. The fee for this session is \$60, with \$36 optional for dormitory facilities. (S. Gordon, Thermoanalysis Institute, Fairleigh Dickinson University, Madison)

The American Medical Association will hold its 3rd annual institute on **medical writing**, in Chicago, 28 June to 20 August. The program is designed for medical students and physicians who are interested in written communication. Registration will be limited to 12 members, each of whom will receive a fellowship of \$650 to cover travel and living expenses. There will be no other fees. (Lester S. King, AMA, 535 North Dearborn Street, Chicago, Illinois)

An institute on **management through data control and communications** will be sponsored by American University, Washington, 7–10 June. The topics to be covered include advances in the integration of communications and data

processing, evaluation, and justification; and implementation phases of several major systems will be analyzed. (P. W. Howerton, Center for Technology and Administration, American University, 2000 G Street, NW, Washington, D.C.)

The materials research laboratory of Pennsylvania State University will sponsor a course 14–26 June on modern methods for the **preparation and characterization of materials**, with emphasis on high-band-gap materials. Topics to be covered include crystal chemistry, phase equilibria, theory and technique of crystal growing, materials characterization by x-ray, electron microscope, microprobe, spectroscopic techniques, modern methods of elemental analysis, characterization of point line, and surface defects. (Conference Center, Pennsylvania State University, University Park, Pa.)

A course on **fermentation technology** will be presented at M.I.T. 21–25 June. Emphasis will be on the engineering aspects and the topics to be covered include mixing and mass transfer, air and medium sterilization kinetics, continuous fermentation, and instrumentation and control. (Director of the Summer Session, Room E19-356, M.I.T., Cambridge 39)

Applications are being accepted for a course in **structural synthesis** 12–16 July at Case Institute of Technology, Cleveland. The program will offer about 30 hours of lectures aimed at familiarizing engineers with synthetic structures. It will also review developments in the field during the past 6 years. The course fee is \$200. Applicants must have a bachelor's degree in engineering or the equivalent. Deadline: 11 June. (H. B. Schultz, Jr., Office of Special Programs, Case Institute of Technology, Cleveland, Ohio 44106)

The fourth annual seminar on **energetics in metallurgical phenomena** will be held at the University of Denver 21 June to 13 August. The purpose of the course is "to bring a common focusing point for the application of basic sciences to an understanding of matter." Four separate 2-week lectures will be given. Topics will include nonstoichiometric compounds, thermodynamics and transport properties, phase transformations, and deformation processes. Informal discussions will also be scheduled. Attendance is open for any or all of the sessions. Postdoctoral participants

may be eligible for stipends of \$125 a week, plus dependency and travel allowances, and predoctoral participants may apply for stipends of \$75 a week plus travel allowance. A letter of application, including transcripts, vita, and at least one letter of recommendation are required. (W. Mueller, Department of Metallurgy, University of Denver, Denver, Colo. 80210)

Scientists in the News

The following men received awards during the National Academy of Sciences annual meeting this week in Washington:

Frederick Henry Todd, scientific adviser to the technical director, David Taylor Model Basin, U.S. Department of the Navy; the Gibbs brothers medal for outstanding contribution in the field of naval architecture and marine engineering.

Robert Stuart Edgar, associate professor of biology, California Institute of Technology; the U.S. Steel Foundation award in molecular biology, for distinguished research.

Alfred Day Hershey, director of the genetics research unit, Carnegie Institution of Washington; the Kimber genetics medal for achievement in the science of genetics.

Alfred Henry Sturtevant, professor emeritus of biology, California Institute of Technology; the John J. Carty medal for noteworthy and distinguished accomplishment in any field of science.

George Gaylord Simpson, professor of vertebrate paleontology, Harvard University; the Daniel Giraud Elliott medal for most meritorious work in zoology or paleontology published each year.

Sir Edward Bullard, professor of geophysics, University of Cambridge, England; the Alexander Agassiz medal, for original contribution in the science of oceanography.

Martin Ryle, director of the Mullard radio astronomy observatory, University of Cambridge, England; the Henry Draper medal for original contribution in astronomical physics.

Paul Herget, director of the University of Cincinnati Observatory; the James Craig Watson medal for noteworthy astronomical discoveries or research.

Erratum: In the article "Miocene mammals and Central American seaways" by F. C. Whitmore, Jr., and R. H. Stewart (9 April, p. 180), the sentence beginning on the 11th line of the second paragraph on p. 182 should have read, "The Panama tooth is in an early stage of wear."