Editorial

797 The Fifth Decade: William D. Carey

Letters


News & Comment

808 Congress Boosts NIH Budget 17.3%
809 Regrowing a Dry Tropical Forest
811 Germany's 75 Years of Free Enterprise Science
813 World Bank Pressed on Environmental Reforms
815 Soviets Decline Offer to Monitor U.S. Test • Grasshopper Control Program Successful • Campaign Promises Delay Waste Program
816 Briefing: Academy Members Skeptical on SDI • Chipmakers Protest • AAU's Poem to Itself • Blueprint for R&D • Comings & Goings

Research News

817 Taking Shots at Ozone Hole Theories
818 Drug Resistance of Cancer Cells Probed
821 Electron Microscope Inventors Share Nobel Physics Prize

Articles

825 Optical Guided-Wave Devices: R. C. Alferness
836 Third World Debt: R. Dornbusch and S. Fischer

Research Articles

842 A 40-Million-Year Lake Record of Early Mesozoic Orbital Climatic Forcing: P. E. Olsen
Footprint with skin impressions of a small (1 meter) Late Triassic lizard-like form (probably spenodontid) that walked along the shores of a rising lake. The lake level rose and fell during the early Mesozoic in response to orbital forcing of climate. See page 842. [Paul E. Olsen, Lamont-Doherty Geological Observatory of Columbia University, Palisades, NY 10964]

**Reports**


863 Curvilinear, Three-Dimensional Motion of Chromatin Domains and Nuclei in Neuronal Interphase Nuclei: U. DE BONI AND A. H. MINTZ


868 Flow Control Among Microvessels Coordinated by Intercellular Conduction: S. S. SEGAL AND B. R. DULING

870 Vertical Nitrate Fluxes in the Oligotrophic Ocean: M. R. LEWIS, W. G. HARRISON, N. S. OAKLEY, D. HEBERT, T. PLATT

873 Induction of Altered c-src Product During Neural Differentiation of Embryonal Carcinoma Cells: S. A. LYNCH, J. S. BRUGGE, J. M. LEVINE

**Book Reviews**

882 Black Holes, reviewed by R. WALD ■ Evolution through Group Selection, J. W. FITZPATRICK ■ Adapational Biology, T. W. MOON ■ Cytochrome P-450, R. E. WHITE ■ Books Received

**Products & Materials**

885 Process Membrane Filters ■ Automated Ion-Selective Electrode System ■ Zoom Stereomicroscope ■ HPLC Systems ■ Sample Preparation System ■ Literature