This Week in Science ................................................................. 511

LETTERS Scientists' Time: L. J. Lanzorotti; Patent Rights: D. Frenzen; E. Q. Daddario ........ 512

EDITORIAL Science and the Philadelphia Story ............................................. 517

ARTICLES The Structure of Arthropod Hemocyanins: D. Linzen et al. ......................... 519
Reforms and Open Policy in China: Song Jian .......................................... 525
Active T-Cell Receptor Genes Have Intron Deoxyribonuclease Hypersensitive Sites: E. Bier, Y. Hashimoto, M. I. Greene, A. M. Maxam ............................... 528

NEWS AND COMMENT Arms Agreement Breathes New Life into SCC ......................... 535
Germany Axes Neutron Source ............................................................ 536
Mill Tailings: A $4-Billion Problem ....................................................... 537
Briefing: Test Wrecks Reactor, Delights Researchers; Illinois, Cornell Sign Supercomputer Contracts; IOM Sees Need for Autopsy Policy; IOM Reports on Vaccine Supply Problems; United States Drops Action on Ariane Prices ....................... 538
Lobbying Urged for Facilities Fund ........................................................ 540

RESEARCH NEWS Heading for a Dusty Death at Comet Halley? ......................... 541
Is the War on Cancer Being Won? ......................................................... 543

AAAS NEWS Association Moves to New Location; Secrecy Issue of STHV Available to Members at Discount; Project on Handicapped Receives National Award;
New Insights into The Technological Marketplace Available: B. M. Vetter; Obituaries

BOOK REVIEWS
The Cerebellum and Neural Control, reviewed by P. L. Strick; Supernovae as Distance Indicators, S. van den Bergh; Supermaniolds, J. M. Rabin; The Colonisation of Land, K. S. Thomson; Books Received

REPORTS
Mid-Oligocene Extinction Event in North American Land Mammals: D. R. Prothero
Soil Radon and Elemental Mercury Distribution and Relation to Magmatic Resurgence at Long Valley Caldera: S. N. Williams
Cytosolic-Free Calcium Transients in Cultured Vascular Smooth Muscle Cells; Microfluorometric Measurements: S. Kobayashi, H. Kanaide, M. Nakamura
Hepatitis B Virus DNA Sequences in Lymphoid Cells from Patients with AIDS and AIDS-Related Complex: F. Laure et al.
Infection of HTLV-III/LAV in HTLV-I-Carrying Cells MT-2 and MT-4 and Application in a Plaque Assay: S. Harada, Y. Koyanagi, N. Yamamoto
T-Cell Receptor β-Chain Expression: Dependence on Relatively Few Variable Region Genes: M. A. Behlke et al.
Transition from B to Z DNA: Contribution of Internal Fluctuations to the Configurational Entropy Difference: K. K. Irikura, B. Tidor, B. R. Brooks, M. Karplus

PRODUCTS AND MATERIALS
Electrophoresis Unit; Rotary Shaker; DNA Transilluminator; Glass Reaction Autoclave; Biodegradable Scintillator; Amino Acid Analysis Column; Primary Cell Culture Medium; Literature

COVER
Southern Inyo Crater near Mammoth Lakes in Long Valley Caldera, California. This phreatic explosion crater apparently formed late in a sequence of eruptions which ended 550 years ago. The caldera has, since 1978, been experiencing renewed magmatic resurgence accompanied by uplift and an increase in seismicity and fumarolic activity. See page 551. [Stanley N. Williams, Department of Geology, Louisiana State University, Baton Rouge 70803]