LETTERS  Equivalent Megatons: C. E. Thomas; R. J. Smith; Reactor Decommissioning: C. C. Burwell and A. M. Weinberg; Nonrandom Bubbles: C. F. Bohren; Animals in the Laboratory: D. M. Bowden; Cost of New Journals: J. E. Heath 682

EDITORIAL Scientific Instrumentation: W. A. Fowler and D. C. Shapero 687

ARTICLES Probing the Structure of the Deep Continental Crust: J. Oliver 689

NEWS AND COMMENT The Senate’s Plan for Nuclear Waste 709
National Academy of Sciences Elects New Members 710
NIH Developing Policy on Misconduct 711
France Readies New Research Law 712
Slave Labor on Campus: The Unpaid Postdoc 714
Briefing: NAS Calls for Arms Talks; USDA Retreats on Gypsy Moth Front; Edwards Defends Budget Cuts at DOE; Peace Academy Gaining Momentum; GAO Points Up Military Use of Shuttle 716

RESEARCH NEWS Biology Is Not Postage Stamp Collecting 718
Gene Family Controls a Snail’s Egg Laying 720
Exploring Plant Resistance to Insects 722
Cancer Cell Genes Linked to Viral onc Cells 724

BOOK REVIEWS Conceptions of Ether, reviewed by K. L. Caneva; The Ammonites, P. D. Ward; Foundations of Northeast Archaeology, B. J. Bourque; Comparative Color Vision, G. S. Wasserman; Books Received 725

REPORTS Microscale Patchiness of Nutrients in Plankton Communities: J. T. Lehman and D. Scavia 729
Residual Calcium Ions Depress Activation of Calcium-Dependent Current:
*R. Eckert and D. Ewald* ................................................................. 730

Aircraft Monitoring of Surface Carbon Dioxide Exchange: *R. L. Desjardins* et al. .................................................. 733

Autoradiographic Evidence for a Calcitonin Receptor on Testicular Leydig Cells: *A. B. Chausmer, M. D. Stevens, C. Severn* .................................................. 735

Secretion of Newly Taken-Up Ascorbic Acid by Adrenomedullary Chromaffin Cells: *A. J. Daniels* et al. .................................................. 737

The Human Genes for S-Adenosylhomocysteine Hydrolase and Adenosine Deaminase Are Syntenic on Chromosome 20: *M. S. Hershfield* and *U. Francke* .................................................. 739

Adenosine Triphosphate Synthesis Coupled to K⁺ Influx in Mitochondria:
*K. W. Kinnelly* and *H. Tedeschi* .................................................. 742

Cellular Mechanism of Neuronal Synchronization in Epilepsy: *R. D. Traub* and *R. K. S. Wong* .................................................. 745


Identification of the Constant Chromosome Regions Involved in Human Hematologic Malignant Disease: *J. D. Rowley* .................................. 749

Suppression of Reflex Postural Tonus: A Role of Peripheral Inhibition in Insects: *S. N. Zill* and *D. T. Moran* .................................. 751

Is Sperm Cheap? Limited Male Fertility and Female Choice in the Lemon Tetra (Pisces, Characidae): *K. Nakatsuru* and *D. L. Kramer* .................................. 753

Interdigitation of Contralateral and Ipsilateral Columnar Projections to Frontal Association Cortex in Primates: *P. S. Goldman-Rakic* and *M. L. Schwartz* .................................. 755

Lipofuscin: Resolution of Discrepant Fluorescence Data: *G. E. Eldred* et al. .................................. 757

Early Chronic Low-Level Methylmercury Poisoning in Monkeys Impairs Spatial Vision: *D. C. Rice* and *S. G. Gilbert* .................................. 759

**Technical Comments**: Global Carbon Monoxide Fluxes: Inappropriate Measurement Procedures: *W. Seiler* and *R. Conrad; G. W. Bartholomew* and *M. Alexander* .......... 761