LETTERS

EDITORIAL
Amending the National Science Foundation Act: F. Press

ARTICLES
New Laser Source Technology: C. P. Christensen
Fiber-Optic Sensors for Biomedical Applications: J. I. Peterson and G. G. Vurek
Scientists and Congress: H. B. Gonzalez

NEWS AND COMMENT
Iraq’s Chemical Warfare: Case Proved
Pentagon Names Star Wars Czar
Lawyers Flush Out Toxic Shock Data
Universities Gag on Research Controls
Will Deficits Put a Damper on R & D?
Boom Time for British Biotechnology?
Pressure for Patent Reform
Briefing: Meselson Meets a Shower of Yellow Rain from Bees; Pediatrician May Head ADAMHA; In the Doghouse at OSHA

RESEARCH NEWS
Computing in the Language of Science
Ice Cap of 30 Million Years Ago Detected
PET Scan Controversy Aired ......................................................... 143
A New Route to Chiral Compounds ............................................. 145

BOOK REVIEWS

Supernova Remnants and Their X-Ray Emission, reviewed by S. P. Reynolds; Fundamental Processes in Energetic Atomic Collisions, C.-D. Lin; Coated Grains, J. D. Milliman; The Order of Man, B. T. Shea; Books Received ......... 146

REPORTS

Helium-3 Emission Related to Volcanic Activity: Y. Sano et al. ............... 150
Early Eocene Vertebrates from Baja California: Evidence for Intracontinental Age Correlations: J. J. Flynn and M. J. Novacek ..................... 151
Topography from Single Radar Images: R. L. Wildey .......................... 153
Gaseous Nitrate Radical: Possible Nighttime Atmospheric Sink for Biogenic Organic Compounds: A. M. Winer, R. Atkinson, J. N. Pitts, Jr. ............. 156
Single-Copy Inverted Repeats Associated with Regional Genetic Duplications in γ Fibrinogen and Immunoglobulin Genes: A. J. Fornace, Jr., et al. ............ 161
Phospholipase-Induced Crystallization of Channels in Mitochondrial Outer Membranes: C. A. Mannella ............................................. 165
Immunohistochemistry of Adenosine Deaminase: Implications for Adenosine Neurotransmission: J. I. Nagy et al. ...................................... 166
Sequence of the Human Somatostatin I Gene: L.-P. Shen and W. J. Rutter .... 168
High Incidence of “Leapfrog” Pattern of Geographic Variation in Andean Birds: Implications for the Speciation Process: J. V. Remsen, Jr. ............ 171

COVER

Individuals from three populations of Hemispingus superciliaris, a small tanager of the Andes that illustrates the “leapfrog” pattern of geographic variation. Yellow populations of the northern and southern Andes are geographically separated by very differently colored gray populations in central Peru. This type of pattern is found in about 20 percent of all Andean birds with three or more subspecies. See page 171. [Painting by John P. O’Neill, Museum of Natural Science, Louisiana State University, Baton Rouge 70803]