LETTERS  Circular A-21 Reporting Systems: S. MacLane; Shipwreck Archeology: L. R. Morell; R. J. Rappé; Tufts Nutrition Center: J. Mayer; Malathion Safety Record: J. F. Morton; Saccharin and Bladder Tumors: W. J. Waddell and M. P. Lachance ................. 132

EDITORIAL  Women/Minorities in Science and Technology: S. M. Malcom .................. 137

ARTICLES  Remote Sensing in Development: C. K. Paul and A. C. Mascarenhas .............. 139
Interiors of the Giant Planets: W. B. Hubbard ................................. 145
> Similar Amino Acid Sequences: Chance or Common Ancestry?: R. F. Doolittle ... 149

NEWS AND COMMENT  Shuttle Launch Expected Soon ........................................ 160
Genetic Vulnerability Down on the Farm ........................................... 161
Thornburg Gets a Hearing .......................................................... 162
Briefing: R & D Agencies Brace for Budget Cuts; Moscow Scientists Bow to Police Threats; Cheap Electricity May Save 200 Brookhaven Jobs; Researcher Charged with Cruelty to Monkeys ............... 164
Reagan Reforms Create Upheaval at NIOSH .................................... 166

RESEARCH NEWS  Assessing the Risk of Eastern U.S. Earthquakes ..................... 169
Eavesdropping on Bones ............................................................... 172

BOOK REVIEWS  The Trial Process, reviewed by W. D. Loh; Gondwana Five, J. W. D Dalziel; The New Solar System, T. Owen; Prehistoric Mining and Allied Industries,
REPORTS
Dissociation Reaction in Forsterite Under Shock Compression: 
Y. Syono et al. .................................................... 177

Axonal Transport: Each Major Rate Component Reflects the Movement of 
Distinct Macromolecular Complexes: M. Tytell et al. .................. 179

Changes in Sediment Storage in the Coon Creek Basin, Driftless Area, 
Wisconsin, 1853 to 1975: S. W. Trimble ............................ 181

Merkel Cell Receptors: Structure and Transducer Function: 
K.-M. Gottschaldt and C. Vahle-Hinz ............................... 183

Rheumatoid Factor–Like Immunoglobulin M Protects Previously Uninfected Rat 
Pups and Dams from Trypanosoma lewisi: A. B. Clarkson, Jr., and 
G. H. Mellow .................................................. 186

Phase Transitions and Nonplanar Conformers in Crystalline n-Alkanes: 
R. G. Snyder et al. ................................................ 188

Steady-State Relationship of Calcium-45 Between Bone and Blood: Differences 
in Growing Dogs, Chicks, and Rats: L. Klein ........................ 190

Hindbrain GABA Receptors Influence Parasympathetic Outflow to the Stomach: 
D. J. Williford et al. ................................................................ 193

Sodium Appetite in Sheep Induced by Cerebral Ventricular Infusion of 
Angiotensin: Comparison with Sodium Deficiency: J. P. Coghlan et al. ... 195

Vitamin D–Dependent Calcium Binding Protein: Immunocytochemical 
Localization in Chick Kidney: J. Roth et al. ............................. 197

Sulfhydryl Compounds May Mediate Gastric Cytoprotection: S. Szabo, 
J. S. Trier, P. W. Frankel ................................................ 200

Gonadal Hormones Induce Dendritic Growth in the Adult Avian Brain: 
T. DeVoevod and F. Nottebohm ......................................... 202

The Fish Connection: A Trophic Link Between Planktonic and Rocky Reef 
Communities?: R. N. Bray, A. C. Miller, G. G. Geesey .................. 204

Technical Comments: Dose-Response Analyses of Bone Cancers from Radium: 
W. H. DuMouchel; R. L. Dedrick; O. G. Raabe .......................... 206

MEETING

PRODUCTS AND MATERIALS
Ultrasonic Cleaners; Miniature Telemetry; Coagulation Timer; Contact Spotter 
for Thin-Layer Chromatography; Gradient HPLC; Digital Waveform 
Analyzer; Tissue Culture Decontaminant; Literature .................. 214

Space shuttle Columbia on pad at night 
showing spectra of pad lights. See page 160. [Robert Hillenbrand, Port Orange, 
Florida 32019]