LETTERS

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

EDITORIAL

Women/Minorities in Science and Technology: S. M. Malcolm

ARTICLES

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

NEWS AND COMMENT

Shuttle Launch Expected Soon
Genetic Vulnerability Down on the Farm
Thornburg Gets a Hearing
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
Reagan Reforms Create Upheaval at NIOSH

RESEARCH NEWS

Assessing the Risk of Eastern U.S. Earthquakes
Eavesdropping on Bones

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. Willford 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. DeVoogd 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

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

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