LETTERS

Math and Science Education: G. F. Davies; D. Moshman; L. B. Resnick;
Soviet-U.S. Exchanges: W. M. Todd; Japanese Computer Project:
G. E. Lindamood .......................................................... 1006

EDITORIAL

Communication Between Scientists ........................................ 1011

ARTICLES

Current Status of Asymmetric Synthesis: H. S. Mosher and J. D. Morrison ..... 1013
DNA-Binding Proteins: Y. Takeda et al. .................................. 1020
Science, Risk, and Public Policy: W. D. Ruckelshaus .................... 1026

NEWS AND COMMENT

Soil Microbes Pose Problems for Pesticides ............................... 1029
First Trimester Prenatal Diagnosis ......................................... 1031
Briefing: Medal of Technology to Debut Next Year; Acid Rain Researchers Get
Up to Nitty-Gritty; Survey Documents Life After the Ph.D. ............ 1032
Can Smoking Explain Ultimate Gender Gap? .............................. 1034
British Association Seeks Corporate Links .................................. 1035

RESEARCH NEWS

What Killed the Giant Mammals? .......................................... 1036
Gambling on the Supercollider .............................................. 1038
Why 20 TeV? ..................................................................... 1039
Whither Brookhaven? ............................................................ 1040
Precisely Measuring the Past Million Years ............................... 1041

BOOK REVIEWS

The Development of Mathematical Thinking, reviewed by R. S. Siegler;
Long-Term Prediction in Dynamics, J. K. Percus; The Hummingbirds of
North America, W. A. Calder III; Books Received .......................... 1042
N-Nitroso Compounds: Evidence for Their Presence in Airborne Particles: T. J. Kneip et al. .................................................. 1045


Burst Discharge in Mammalian Neuroendocrine Cells Involves an Intrinsic Regenerative Mechanism: R. D. Andrew and F. E. Dudek .......... 1050

Immunocytochemically Identified Vasopressin Neurons in Culture Show Slow, Calcium-Dependent Electrical Responses: D. T. Theodosius et al. .......... 1052

Differential Effects of Classical and Atypical Antipsychotic Drugs on A9 and A10 Dopamine Neurons: F. J. White and R. Y. Wang .......... 1054

A Serological Test for Leprosy with a Glycolipid Specific for Mycobacterium leprae: D. B. Young and T. M. Buchanan .......... 1057


Antibodies to Human T-Cell Leukemia Virus Membrane Antigens (HTLV-MA) in Hemophiliacs: M. Essex et al. .......... 1061


Abnormal Ion Permeation Through Cystic Fibrosis Respiratory Epithelium: M. R. Knowles et al. .......... 1067

Vasoactive Intestinal Peptide Alters Membrane Potential and Cyclic Nucleotide Levels in Retinal Horizontal Cells: E. M. Lasater, K. J. Watling, J. E. Dowling .......... 1070

Cerebral Cortices of East African Early Hominids: D. Falk .......... 1072

Hand Preference Across Time Is Related to Intelligence in Young Girls, Not Boys: A. W. Gottfried and K. Bathurst .......... 1074


On Seeing Reddish Green and Yellowish Blue: H. D. Crane and T. P. Piantanida .......... 1078

Performance of Concurrent Tasks: A Psychophysiological Analysis of the Reciprocity of Information-Processing Resources: C. Wickens et al. .......... 1080

Lewy Bodies of Parkinson's Disease Contain Neurofilament Antigens: J. E. Goldman et al. .......... 1082

COVER

Softshell turtle (Trionyx spiniferus) in the process of hatching from its rigid-shelled egg. Eggs like this exchange little, if any, liquid water with the surrounding environment during the course of incubation. Although biologists have come to expect embryos developing in eggs of this kind to convert wastes from protein catabolism into insoluble urates, embryonic softshell turtles convert nitrogenous wastes into soluble urea and ammonia. See page 1049. [Mary J. Packard, Colorado State University, Fort Collins 80523]