LETTERS

EDITORIAL
Scientific Instruments and Analytical Techniques.

ARTICLES
Molecular Biological Mechanisms of Speciation: M. R. Rose and W. F. Doolittle.
Crop Germplasm Conservation and Developing Countries: D. L. Plucknett et al.

NEWS AND COMMENT
Reagan Plans New ABM Effort.
Space Telescope in Trouble.
Democrats Boost R & D.

Briefing: Robert M. White to Head Academy of Engineering; Metrically, the U.S. Doesn’t Measure Up; German Science Minister Kept on by Government; More Fallout at EPA.
Congress Questions NBS Budget Cuts.
Research Chief Quits French Cabinet.

RESEARCH NEWS
Quadrupoles Appear in New Instruments.
LIMS Is Next Step in Laboratory Automation.
A New Way to Correct Background in AA.

Instrument Highlights: A Boom for Supercritical Fluids; Microfabrication Is Not Only for Electronics; Optical Fibers Make It into Instruments; Artificial Intelligence Comes to Atlantic City.

AAAS NEWS
Programs Provide a History Lesson—Blacks and Women in Science: J. Wrather; Cross-Cultural Comparison of “Self” Wins AAAS Prize; 1983 Exemplar Service Award; 70th Indian Science Congress Held in Tirupati.
BOOK REVIEWS

Current Problems in Sociobiology; Evolution of Social Behavior; Natural Selection and Social Behavior, reviewed by A. R. Blaustein; Aging and Cognitive Processes, R. D. Neves; The Paracellular Pathway, D. R. DiBona; Solar Magnetohydrodynamics, H. C. Spruit; Books Received ............................................. 188

REPORTS

Strontium Isotope Fractionation in the Kiglapait Intrusion: S. A. Morse............. 193
Argonne Intense Pulsed Neutron Source Used to Solve the Molecular Structure of a Novel Organometallic Complex: A. J. Schultz et al. .... 197
Carbon Dioxide Exchange Between Air and Seawater: No Evidence for Rate Catalysis: J. C. Goldman and M. R. Dennett......................... 199
Fibronectin Binds to Some Bacteria but Does Not Promote Their Uptake by Phagocytic Cells: L. Van De Water, A. T. Destree, R. O. Hynes ......... 201
Swine Influenza-Like Viruses in Turkeys: Potential Source of Virus for Humans?: V. S. Hinshaw et al. ............................................................... 206
Mycoplasma-Like Organisms: Occurrence with the Larvae and Adults of a Marine Bryozoan: R. L. Zimmer and R. M. Woollacott 208
Regulation of the Macrophage Content of Neoplasms by Chemoattractants: B. Bottazzi et al. ......................................................... 210
Taste-Aversion Conditioning of Crows to Control Predation on Eggs: L. K. Nicolaus et al. .......................................................... 212
Nicotinic Cholinergic Receptor Binding Sites in the Brain: Regulation in vivo: R. D. Schwartz and K. J. Kellar........................... 214
Formaldehyde Damage to DNA and Inhibition of DNA Repair in Human Bronchial Cells: R. C. Graffstrom et al. .................................. 216
Dopamine Modulation of the Effects of γ-Aminobutyric Acid on Substantia Nigra Pars Reticulata Neurons: B. L. Waszczak and J. R. Walters ................................................................. 218
Technical Comments: Diffusion Barrier in the Small Intestine: J. A. DeSimone; K. W. Smithson........................................ 221

PRODUCTS AND MATERIALS

Variable Wavelength Detector; Spectrofluorometer; Minicomputer; Electrochemical Detector; Nucleic Acid Chromatography System; Gel Sequencer; Separation Material for HPLC; Literature.............................. 224

COVER

A crow that becomes taste-averted by eating the green-painted toxic egg in this straw nest in North Dakota will avoid other green eggs whether or not they contain toxin. The monarch butterfly caterpillar (Danaus sp.) shown here accumulating cardiac glycoside while feeding on milkweed (Asclepias sp.) may, with its visual mimics, be relying on the same mechanisms to protect it from visual predators. See page 212. [L. K. Nicolaus, Butte Falls, Oregon 97522]