LETTERS
Chemical Carcinogens: N. K. Hooper, R. H. Harris, B. N. Ames; M. A. Schneiderman; F. J. Weigert; Mexican Oil Reserves: A. A. Meyerhoff; W. D. Metz; Editorial Writers: B. C. Belden; J. Schmandt

EDITORIAL
The Burden of Competitive Grants: A. C. Leopold

ARTICLES
Little Salt Spring, Florida: A Unique Underwater Site: C. J. Clausen et al.
Total Synthesis of a Gene: H. G. Khorana

NEWS AND COMMENT
Drugging of Football Players Curbed by Central Monitoring Plan, NFL Claims
American Physical Society Panel Gives a Long-Term Yes to Electricity From the Sun
Carter Attempt to Limit Doctor Supply Faces Tough Going in Congress
U.S.–China Exchange Formalized
Briefing: Canada Wants Cash for Cosmos 954 Cleanup; AT & T Hits Files of Ten Federal Agencies; Acorns? Fat Chance. The Skylab Is Falling!

RESEARCH NEWS
More People Are Talking to Computers as Speech Recognition Enters the Real World
It Isn’t Easy Being King.

BOOK REVIEWS
Origins of Agriculture, reviewed by R. I. Ford; Tropical Trees as Living Systems, L. J. Webb; Vertebrate Photoreception, T. H. Goldsmith; Books Received
REPORTS

Io: An Intense Brightening Near 5 Micrometers: F. C. Witteborn, J. D. Bregman, J. B. Pollack

Predator Removal: Effect on Fisheries Yields in Lake Victoria (East Africa): G. G. Marten


Seasonal Cycling of Cesium-137 in a Reservoir: J. J. Alberts, L. J. Tilly, T. J. Vigerstad

Biological Control of Dissolved Aluminum in Seawater: Experimental Evidence: M. Stoffyn

Heat Storage in the Oceanic Upper Mixed Layer Inferred from Landsat Data: E. Mollo-Christensen and A. S. Mascarenhas, Jr.

Hydraulic Transients: A Seismic Source in Volcanoes and Glaciers: W. St. Lawrence and A. Qamar

Circadian Clock in Culture: N-Acetyltransferase Activity of Chick Pineal Glands Oscillates in vitro: C. A. Kasal, M. Menaker, J. R. Perez-Polo

Microevolution and Clone Structure in Spartina patens: J. A. Silander

Osmotic Shock Prevents Nuclear Exchange and Produces Whole-Genome Homozygotes in Conjugating Tetrahymena: E. Orias, E. P. Hamilton, M. Flacks

Obesity Genes: Beneficial Effects in Heterozygous Mice: D. L. Coleman

Electroencephalogram Correlates of Higher Cortical Functions: A. S. Gevins et al.

Human Muscular Dystrophy: Elevation of Urinary Dimethylarginines: M. F. Lou

Nitrogenous Nutrition of Marine Phytoplankton in Nutrient-Depleted Waters: J. J. McCarthy and J. C. Goldman

Technical Comments: Cytidylate Cyclase: Possible Artifacts in the Methodology: R. M. Galon and G. Krishna; L. J. Ignarro

COVER

Little Salt Spring, Florida. Cross section of the pond and the underwater cavern. Abundant human remains, vertebrate and invertebrate fossils (food refuse), and wood, bone, and shell artifacts have been found in sediments on re-entrants in the cavern and on the floor of the pond and adjacent slough. The site includes an Archaic cemetery 5000 to 6000 years old, with an estimated 1000 burials. See page 609. [Steve Daniels, Department of Administration, State of North Carolina, Raleigh]