LETTERS
Intermediate Technology: P. N. Gillingham; Computers: Active or Passive?: M. Klerer; A. Etzioni; Conserving Nonhuman Primates: M. W. Terry; Moral Responsibility: R. E. Frisch

EDITORIAL
One-Armed Scientists?: E. E. David, Jr.

ARTICLES
The 1973 Flood and Man's Constriction of the Mississippi River: C. B. Belt, Jr.
Honey Bee Recruitment: The Dance-Language Controversy: J. L. Gould
The American Birth Rate: Evidences of a Coming Rise: J. Sklar and B. Berkov

NEWS AND COMMENT
New Jersey Higher Education: Accountability Versus Autonomy
What's Wrong with This Picture?
An Obscure Front-Runner for Interior
Science in Vietnam: The Postwar North Seeks American Assistance

RESEARCH NEWS
Opiate Receptors: Implications and Applications
It's Not Mars, But It's Still a Big Drop
BOOK REVIEWS

The Compton Effect and Scientific Papers of Arthur Holly Compton, reviewed by J. L. Heilbron; Antivivisection and Medical Science in Victorian Society, W. Provine; Primate Aggression, Territoriality, and Xenophobia, G. Hausfater; The Biology of Hystricomorph Rodents, J. P. Rood; Higher Excited States of Polyatomic Molecules, D. M. Hanson; Membrane Transport in Plants, R. M. Fanswick

REPORTS

Thermochemical Decomposition of Water Based on Reactions of Chromium and Barium Compounds: C. E. Bamberger et al.


Jupiter: Its Infrared Spectrum from 16 to 40 Micrometers: J. R. Houck et al.

Cyclic Octatomic Sulfur: A Possible Infrared and Visible Chromophore in the Clouds of Jupiter: B. N. Khare and C. S. Lieber

Sun-Tracking Solar Furnaces in High Arctic Flowers: Significance for Pollination and Insects: P. G. Kevan

Predicting Response to Endocrine Therapy in Human Breast Cancer: A Hypothesis: K. B. Horwitz et al.

Acetaldehyde Oxidation by Hepatic Mitochondria: Decrease After Chronic Ethanol Consumption: Y. Hasumura, R. Teschke, C. S. Lieber

Phosphorus-31 as a Nuclear Probe for Malignant Tumors: K. S. Zaner and R. Damadian

Tail Pinch Induces Eating in Sated Rats Which Appears to Depend on Nigrostriatal Dopamine: S. M. Antelman and H. Szechtman
Editor's Summary