LETTERS
Asbestos Legislation: M. Fenwick; R. J. Smith; Nitrite Study: P. G. Roehrig

EDITORIAL
Nutrition and E. V. McCollum: H. G. Day

ARTICLES
Promotion and Limitation of Genetic Exchange: W. Arber
Pituitary Hormones in Brain: Where, How, and Why?: D. T. Krieger and A. S. Liotta

NEWS AND COMMENT
Senate Skeptical on SALT Verification
Briefing: A Warning on Synfuels, CO₂, and the Weather: Oh, Sweet CONAES, Where Art Thou?
What Can Government Do for Innovation?
Snapshots of Camp David

RESEARCH NEWS
New Instrument Decodes Astronomical Signals
SO₂ Pollution May Be Good for Plants

BOOK REVIEWS
Otto Warburg, reviewed by J. T. Edsall: Distortions of Agricultural Incentives.

REPORTS
Algal Fossils from a Late Precambrian, Hypersaline Lagoon: D. Z. Oehler, J. H. Oehler, A. J. Stewart
Isotope Selectivity of Infrared Laser-Driven Unimolecular Dissociation of a Volatile Uranyl Compound: D. M. Cox et al. .......................................................... 390
Sulfur Volcanoes on Io: G. J. Consolmagno ......................................................... 397
Samarium-Neodymium Systematics in Kimberlites and in the Minerals of Garnet Lherzolite Inclusions: A. R. Basu and M. Tatsumoto ........................................ 398
Flash X-ray Microscopy: R. McCorkle et al. ......................................................... 401
Rainfall Changes in Summer Caused by St. Louis: S. A. Changnon, Jr. ................. 402
Preferential Transmission of the Z Deficient Allele of α1-Antitrypsin: C. Chapuis-Cellier and P. Arnaud ............................................................. 407
Erythrosin B Inhibits Dopamine Transport in Rat Caudate Synaptosomes: J. A. Laffermand and E. K. Silberfeld ......................................................... 410
Adaptive Female-Mimicking Behavior in a Scorpionfly: R. Thornhill .................... 412
Opioid Peptides May Excite Hippocampal Pyramidal Neurons by Inhibiting Adjacent Inhibitory Interneurons: W. Ziegglansberger et al. .......... 415
Appetitive Learning in 1-Day-Old Rat Pups: I. B. Johanson and W. G. Hall .............................................................. 419

PRODUCTS AND MATERIALS

Luminescence Measurement; Programmable Dispensing Pump; Laser Scanning Densitometer; Detector for Proteolytic Enzymes; Pump for Small Volumes; Blood Chemistry Analyzer; pH-Temperature Meter; Literature. .......................... 426

COVER

Lightning flash over Gateway Arch in St. Louis, Missouri. Statistical tests of the summer rainfall distribution in the St. Louis area reveal that values downwind of the city are significantly higher than those of surrounding areas. These results support the idea that major urban areas increase summer rainfall. See page 402. [James T. Van Horn, St. Louis, Missouri]