LETTERS

EDITORIAL
A Century of Chemical Progress: G. T. Seaborg

ARTICLES
Transportation Energy Conservation Policies: E. Hirst
Ergotism: The Satan Loosed in Salem?: L. R. Caporael
Meaning, Memory Structure, and Mental Processes: D. E. Meyer and R. W. Schvaneveldt

NEWS AND COMMENT
NIH: Cancer Institute Politics Complicate a Difficult Case
National Forests: Court Ruling Spurs Clear-Cutting Controversy
Science in the European Community: Deadlock on Fusion
Biological Warfare: Suspicious of Soviet Activity
Solar Research Institute Starts Out in Partial Eclipse

RESEARCH NEWS
Brain Biochemistry: Effects of Diet

AAAS NEWS
BOOK REVIEWS

Chemical Oceanography, reviewed by D. W. Spencer; Recent Advances in the Chemistry and Biochemistry of Plant Lipids, A. A. Benson; River Ecology, R. T. Oglesby; International Conference on X-Rays in Space, G. R. Blumenthal; Books Received ........................................... 46

REPORTS

Solar Absorption in a Stratosphere Perturbed by NO₂ Injection: F. M. Luther ........ 49
Sex Pheromone Specificity in the Pine Sawflies: Interchange of Acid Moieties in an Ester: D. M. Jewett, F. Matsumura, H. C. Coppel ........................................... 51
Nonenzymic Joining of Oligoadenylates on a Polyuridylic Acid Template: D. A. Usher and A. H. McHale ........................................... 53
Human Glyceraldehyde-3-Phosphate Dehydrogenase in Man-Rodent Somatic Cell Hybrids: G. A. P. Bruns and P. S. Gerald ........................................... 54
Carbohydrate Deficiency of the Factor VIII/von Willebrand Factor Protein in von Willebrand’s Disease Variants: H. R. Gralnick, B. S. Coller, Y. Sultan ........ 56
Insect Photoperiodism: The “T Experiment” as Evidence for an Hourglass Mechanism: M. F. Bowen and S. D. Skopik ........................................... 59
Tin: A Potent Inducer of Heme Oxygenase in Kidney: A. Kappas and M. D. Maines 60
Theiler’s Virus-Induced Demyelination: Prevention by Immunosuppression: H. L. Lipton and M. C. Dal Canto ........................................... 62,
Insulin-Dependent Diabetes: A Disease of Autoaggression: S.-W. Huang and N. K. Maclaren ........................................... 64
Palaeosclerotium, a Pennsylvanian Age Fungus Combining Features of Modern Ascomycetes and Basidiomycetes: R. L. Dennis ........................................... 66
Acid Precipitation and Embryonic Mortality of Spotted Salamanders, Ambystoma maculatum: F. H. Pough ........................................... 68
Tool Use in a Social Insect and Its Implications for Competitive Interactions: J. H. Fellers and G. M. Fellers ........................................... 70
Oroville Earthquakes: Normal Faulting in the Sierra Nevada Foothills: C. G. Bufe et al. ........................................... 72

COVER

Bow of the Ivory Star in Halifax, Nova Scotia, 11 July 1974, after her collision with a “growler” in the Gulf of St. Lawrence. The 612-foot-long vessel displaced 16,320 tons (8,964 tons net) and was carrying 700,000 bushels of grain. A human stands in the lower right of the hole. See page 7. [Wamboldt-Waterfield Photography Ltd., Halifax, Nova Scotia]