LETTERS
Wistar Press: Comment on Closing: C. Gans; Food Additives: M. A. Benarde; Biotechnology and Profit: P. Siekevitz; Cancer Risk Assessment: M. Schach von Wittenau; Mercury in Sperm Whale Meat: J. F. Beary, III

EDITORIAL
National Science Foundation Hearings: R. W. Heyns

ARTICLES
New Experimental Data on Atmospheric Propagation: R. R. Shannon et al.
Terminal Cretaceous Extinction Scenario for a Catastrophe: S. Gartner and J. P. McGuirk
Technological Change in Agriculture: R. E. Just, A. Schmitz, D. Zilberman

NEWS AND COMMENT
Iran and America: The Failure of Understanding
No CAT Scans in Mexico for Shah?
Uncertainties Mark Space Program of the 1980’s

Briefing: House Panel Reassured on Nonproliferation Policy; Carter Says No to WIPP, but DOE May Appeal

RESEARCH NEWS
Planetary Science on the Brink Again
The 1979 Nobel Prize in Physics: S. Coleman

ANNUAL MEETING
Annual Meeting, San Francisco; Toronto Meeting in 1981

BOOK REVIEWS
Evolutionary Biology and Human Social Behavior, reviewed by N. Howell; Images of the Earth, A. L. Donovan; Geological and Geophysical Investigations of Continental Margins, J. F. Dewey; Chemistry
and Chemical Engineering in the People’s Republic of China,
R. E. Cairns, Jr.; Books Received ........................................ 1294

REPORTS
Structure of the Constant and 3’ Untranslated Regions of the Murine γ2B Heavy Chain Messenger RNA: P. W. Tucker et al. ........................................ 1299
Sequence of the Cloned Gene for the Constant Region of Murine γ2B Immunoglobulin Heavy Chain: P. W. Tucker et al. ........................................ 1303
Genetic Mechanism Accounting for Precise Immunoglobulin Domain Deletion in a Variant of MPC 11 Myeloma Cells: A. L. Kenter and B. K. Birshstein .... 1307
Benzo(a)pyrene-7,8-dihydriodiol 9,10-Oxide Adenosine and Deoxyadenosine Adducts: Structure and Stereochemistry: A. M. Jeffrey et al. .................. 1309
Cigarette Smoke Inhalation Decreases α1-Antitrypsin Activity in Rat Lung: A. Janoff et al. .................................................. 1313
Killing of Fibroblasts by Dexamethasone or Dibutyryl Adenosine 3’ ,5’-Monophosphate Is Not a Valid Test for Cystic Fibrosis: J. B. Kurz, J. P. Perkins, M. Buchwald ........................................ 1317
Metabolism of Theophylline to Caffeine in Human Fetal Liver: J. V. Aranda et al. ........................................ 1319
Choline Excites Cortical Neurons: K. Krnjević and W. Reinhardt .................. 1321
Endocrine Pancreas: Three-Dimensional Reconstruction Shows Two Types of Islets of Langerhans: D. Baetens et al. ........................................ 1323
Sex Discrimination in Gerris remigis: Role of a Surface Wave Signal: R. S. Wilcox .................................................. 1325
Shifts in Perception of Size After Adaptation to Gratings: F. S. Frome et al. ........................................ 1327
Genetic Resistance to Aflatoxin in Japanese Quail: H. L. Marks and R. D. Wyatt ........ 1329

PRODUCTS AND MATERIALS
Carbon Dioxide Electrode; Reversible HPLC Columns; Autoradiograph Image Enhancer; Septic Leach Detector; High-Pressure Liquid Chromatography; Scanning Electron Microscope; Scientific Computer; Literature ........................................ 1332

COVER
Masked water strider (Gerris remigis) with a samarium-cobalt magnet glued to its right foreleg. A computer-generated surface wave signal of ≈ 90 waves per second (highlighted by color bands) is imitating the male’s signal through vertical oscillations of the magnet, which is driven by electromagnetic fluctuations from an encircling wire coil. Males can discriminate surface solely by presence or absence of this signal (body length of insect, about 14 millimeters). See page 1325. [R. Stimson Wilcox, State University of New York, Binghamton]