LETTERS
Newton and Mercury Poisoning: L. J. Goldwater; Cost of Research: J. W. Green; V. A. Lupidi; C. A. Mandel; Future Planetary Missions: N. W. Hinners; Giant Geoduck: W. Aron; S. O. Landry, Jr.; T. H. Lewis; Trace Elements: M. Colgan.......................... 742

EDITORIAL
R & D at Bell Laboratories .......................................................... 747

ARTICLES
Hurricane Allen's Impact on Jamaican Coral Reefs: J. D. Woodley et al. ............. 749
Diagnosis of Cardiovascular Disease by Digital Subtraction Angiography: C. A. Mistretta and A. B. Crummy. 761

NEWS AND COMMENT
Reactor Safety and the Research Budget .............................................. 766
Physicists Give ISABELLE a Yes, But ................................................ 769
Acid Rain Bills Reflect Regional Dispute ............................................. 770
IOM Counsels Secret Service .......................................................... 771
Briefing: New Mistakes Uncovered at Diablo Canyon Reactors; Computer Data Banks; The Delights and Dangers; Weak Creationist Bill Filed in Maryland; Peace Commission Calls for Federal Establishment ............ 772

RESEARCH NEWS
Drug Found to Help Heart Attack Survivors ........................................ 774
Genes Regulated Through Chromatin Structure .................................... 775
Cornell Submicron Facility Dedicated ................................................. 777

ANNUAL MEETING
Chronological Summary of Symposia and Lectures; Advance Registration and Hotel Reservation Forms ................................................................. 779

BOOK REVIEWS
Statistics in Britain, 1865-1930, reviewed by T. M. Porter; The Origins of Cauchy’s Rigorous Calculus, R. E. Rider; Much Ado about Nothing, E. Sylla; Evolution and Variation of Multigene Families, W. R. Engels;
A Gel Partition Model for Organic Desorption from a Pond Sediment:
D. H. Freeman and L. Š. Cheung .................................................. 790

Heparin Facilitates the Extraction of Tissue Fibronectin: B. A. Bray,
I. Mandl, G. M. Turino ................................................................. 793

Lamellar Twinning Explains the Nearly Racemic Composition of Chiral, Single
Crystals of Hexahelicene: B. S. Green and M. Knossov ....................... 795

Incorporation of 4-Amino-5-Hydroxymethylpyrimidine into Thiamine by
Microorganisms: R. H. White .......................................................... 797

Lectins Mimic Insulin in the Induction of Tyrosine Aminotransferase:
J. D. Smith and A. Y.-C. Liu ......................................................... 799

Islets of Langerhans: Dye Coupling Among Immunocytochemically Distinct
Cell Types: R. L. Michaels and J. D. Sheridan .................................. 801

Further Heterogeneity of Human α Interferon mRNA Species:
P. B. Sehgal, A. D. Saggar, I. A. Braude ........................................ 803

Detection of Circulating Metallothionein in Rats Injected with Zinc or
Cadmium: J. S. Garvey and C. C. Chang ......................................... 805

Phototherapy-Induced Hypocalcemia in Newborn Rats: Prevention by
Melatonin: D. O. Hakanson and W. H. Bergstrom ............................ 807

Increased Pyrophosphate in Fibroblasts and Lymphoblasts from Patients with
Hereditary Diffuse Articular Chondrocalcinosis: G. Lust et al. .......... 809

Different Command Neurons Select Different Outputs from a Shared Premotor
Interneuron of Crayfish Tail-Flip Circuitry: A. P. Kramer, F. B. Krasne,
K. L. Bellman ................................................................. 810

Spatial Frequency Columns in Primary Visual Cortex: R. B. Tootell,
M. S. Silverman, R. L. De Valois ...................................................... 813

Competition Between Ant Species: Outcome Controlled by Parasitic Flies:
D. H. Feener, Jr. ............................................................................... 815

Individual Hippocampal Mossy Fiber Distribution in Mice Correlates with
Two-Way Avoidance Performance: H. Schwegler et al. ..................... 817

Early Experience Determines Song Dialect Responsiveness of Female Sparrows:
M. C. Baker, K. J. Spilker-Nabors, D. C. Bradley ........................... 819

Melatonin: Identification of Sites of Antagonal Action in Mouse Brain:
J. D. Glass and G. R. Lynch ........................................................... 821

Optimization Theory Fails to Predict Performance of Pigeons in a Two-Response
Situation: J. E. Mazur ................................................................. 823

Respiratory Gas Mixing Incubator; Automatic Image Analysis; Data Logger;
Chemistry Analyzer; Microcarrier Stirrer; Instruction in Sample
Preparation; Computer System for Laboratory Management; Literature ....... 826

Severe soil erosion in a community
along Brazil’s Transamazon Highway. Because of the broken terrain and
torrential rainfall, soil erosion is a major constraint on the agricultural develop-
ment of the colonization scheme. Note the bright red earth which is derived
from weathered basalt. See page 755. [Nigel J. H. Smith, University of Flori-
da, Gainesville 32611]