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

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R & D at Bell Laboratories

ARTICLES

Hurricane Allen’s Impact on Jamaican Coral Reefs: J. D. Woodley et al.
Colonization Lessons from a Tropical Forest: N. J. H. Smith
Diagnosis of Cardiovascular Disease by Digital Subtraction Angiography: C. A. Mistretta and A. B. Crummy

NEWS AND COMMENT

Reactor Safety and the Research Budget
Physicists Give ISABELLE a Yes, But
Acid Rain Bills Reflect Regional Dispute
IOM Counsels Secret Service

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

RESEARCH NEWS

Drug Found to Help Heart Attack Survivors
Genes Regulated Through Chromatin Structure
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ANNUAL MEETING

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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. C. Cheung 

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

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

Incorporation of 4-Amino-5-Hydroxymethylpyrimidine into Thiamine by 
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Lectins Mimic Insulin in the Induction of Tyrosine Aminotransferase: 
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Islets of Langerhans: Dye Coupling Among Immunocytochemically Distinct 
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Further Heterogeneity of Human α Interferon mRNA Species: 
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Detection of Circulating Metallothionein in Rats Injected with Zinc or 
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Phototherapy-Induced Hypocalcemia in Newborn Rats: Prevention by 
Melatonin: D. O. Hakanson and W. H. Bergstrom 

Increased Pyrophosphate in Fibroblasts and Lymphoblasts From Patients With 
Hereditary Diffuse Articular Chondrocalcinosis: G. Lust et al. 

Different Command Neurons Select Different Outputs From a Shared Premotor 
Interneuron of Crayfish Tail-Flip Circuitry: A. P. Kramer, F. B. Krasne, 
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Spatial Frequency Columns in Primary Visual Cortex: R. B. Tootell, 
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Competition Between Ant Species: Outcome Controlled by Parasitic Flies: 
D. H. Feener, Jr. 

Individual Hippocampal Mossy Fiber Distribution in Mice Correlates With 
Two-Way Avoidance Performance: H. Schweger et al. 

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

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

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

Respiratory Gas Mixing Incubator; Automatic Image Analysis; Data Logger; 
Chemistry Analyzer; Microcarrier Stirrer; Instruction in Sample 
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are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, 
to improve the effectiveness of science in the promotion of human welfare, and to increase public understanding and 
appreciation of the importance and promise of the methods of science in human progress.

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