LETTERS

EDITORIAL
International Technical Assistance

ARTICLES
Meteorites and Craters of Campo del Cielo, Argentina: W. A. Cassidy et al. 1055
Field studies have thrown new light on a unique prehistoric encounter of a cosmic body with the earth.

Chemical Communication in the Social Insects: E. O. Wilson 1064
Insect societies are organized principally by complex systems of chemical signals.

The Financial Status of National Merit Finalists: R. C. Nichols 1071
The proportion of these students from low-income families is related to public support for education.

NEWS AND COMMENT
Report from Europe: Technologically, the Atlantic Community Exists: V. K. McElheny 1080

BOOK REVIEWS
The Vegetation of North and Central America and of the Hawaiian Islands, reviewed by D. Mueller-Dombois; other reviews by A. M. Carter, J. E. McDonald, W. P. Mason, H. Orlans, R. Syski; New Books 1083

REPORTS
Radioactivity of the Columbia River Effluent: M. G. Gross, C. A. Barnes, G. K. Riel 1088
Immunoglobulin Structure: Partial Amino Acid Sequence of a Bence Jones Protein: K. Titani et al. 1090
Liquid Waves by Computer: F. H. Harlow, J. P. Shannon, J. E. Welch 1092
Turnover of Ribosomal RNA in Rat Liver: J. N. Loeb, R. R. Howell, G. M. Tomkins .................................................. 1093

Cystathioninuria: Nature of the Defect: G. W. Frimpter .......................................................... 1095

Inhibition of Protein Synthesis by Spectinomycin: J. Davies, P. Anderson, B. D. Davis .............................. 1096

Lability of Host-Cell DNA in Growing Cell Cultures Due to Mycoplasma: C. C. Randall et al. .................. 1098

Nucleoside Incorporation into Strain L Cells: Inhibition by Pleuropneumonia-Like Organisms: R. M. Nardone et al. .......................................................... 1100

Protein Synthesis by Ribosomes from Heart Muscle: Effect of Insulin and Diabetes: O. R. Rampersad and J. G. Wool ........................................... 1102

Ultraviolet Damage to Bacteria and Bacteriophage at Low Temperatures: M. J. Ashwood-Smith, B. A. Bridges, R. J. Munson ........................................ 1103

Induction in vitro of Antibodies to Phage T2: Antigens in the RNA Extract Employed: H. P. Friedman, A. B. Stavisky, J. M. Solomon .......................... 1106

Induction of Tumors in Hamsters with an Avian Adenovirus (CELO): P. S. Sarma, R. J. Huebner, W. T. Lane .......................................................... 1108

Dorsal Spinocerebellar Tract: Response Pattern of Nerve Fibers to Muscle Stretch: J. K. S. Jansen and T. Rudjord .................................................. 1109

DNA: Reaction with Chloroquine: J. L. Allison, R. L. O'Brien, F. E. Hahn ........................................... 1111


Color Adaptation of Edge-Detectors in the Human Visual System: C. McCollough ........................................... 1115

A Brief Temporal Gradient of Retrograde Amnesia Independent of Situational Change: D. Quartermain, R. M. Paolino, N. E. Miller .......................... 1116

Comments on Reports: Dental Caries in Tehuacán Skeletons: E. A. Sweeney ........................................... 1118

MEETINGS

Nonequilibrium Thermodynamics, Variational Techniques, and Stability: R. J. Donnelly; Forthcoming Events .................................................. 1119

COVER

Surging water under a sluice gate is simulated by computer calculations. The sequence of figures shows unretouched computer output, illustrating early stages in the development of a hydraulic jump from a backward-breaking wave. Such numerical solutions of the full nonlinear, time-dependent Navier-Stokes equations make possible the detailed study of this and numerous other problems in fluid dynamics. See page 1092.