LETTERS
Population Control: Man and Other Species: J. Young; Authors et al.: J. S. Ayars;
Small Conferences: F. Fremont-Smith; Language among Scientists:
W. S. Wooster; Metric Conversion: Petition to Congress: R. W. Engel

EDITORIAL
New Directions for the National Science Foundation

ARTICLES
Tectonic Deformation Associated with the 1964 Alaska Earthquake: G. Plafker
National Planning for Medical Research: P. Handler
Institutional Grants of the National Science Foundation: J. M. England
Massive Extinctions in Biota at the End of Mesozoic Time: M. N. Bramlette

NEWS AND COMMENT
Medical Colleges: New Horizons—Population Politics: Congress Gets Proposal
Report from Europe: European Launcher Development Organization:
Its Changing Role: V. K. McElheny

BOOK REVIEWS
A Workshop on the Research Policy of the United States: S. Dedijer
Advances in Communication Systems: Theory and Application, reviewed by
I. Jacobs; other reviews by J. B. Spencer, A. F. C. Wallace, H. C. Cutter,
W. Trager, R. F. Kimball; New Books

REPORTS
Carbonaceous Rocks of the Soudan Iron Formation (Early Precambrian):
P. E. Cloud, Jr., J. W. Gruner, H. Hagen
Cosmogenic Radionuclides in the Bondoc Meteorite: P. J. Cressy, Jr., and
J. P. Shedlovsky
Crystal Multiplication without Nucleation: B. Chalmers and R. R. Williamson
Xenon-Photosensitized Formation of Metastable Nitrogen: W. M. Jackson and
M. D. Scheer
Fossil Bacteria in Pyrite: E. G. Ehlers, D. V. Stiles, J. D. Birle
Cryogenic Cooling by Noncondensible-Gas Injection: F. W. Lytle and J. T. Stoner
Carbonates: Association with Organic Matter in Surface Seawater: K. E. Chave
Jupiter's Decametric Emission Correlated with the Longitudes of the First Three
Galilean Satellites: G. R. Lebo, A. G. Smith, T. D. Carr

BOARD OF DIRECTORS
LAURENCE M. GOULD
Retiring President, Chairman
HENRY L. BURGIN
President
ALFRED S. ROMER
Executive Secretary
JOHN W. GARDNER
H. BENTLEY GLASS
DAVID R. GO
MINA S. REESE

VICE PRESIDENTS AND SECTION SECRETARIES
MATHEMATICS (A)
Bernard Friedman
Wallace Givens

PHYSICS (B)
Emilio G. Segrè
Stanley S. Ballard

CHEMISTRY (C)
A. H. Balchneider
Milton Orchin

ASTRONOMY (D)
John W. Evans
Frank Bradshaw

ANTHROPOLOGY (H)
Albert C. Spaulding
Eleanor Leacock

PSYCHOLOGY (I)
Benton J. Underwood
Frank W. Finger

SOCIAL AND ECONOMIC SCIENCES (K)
Othniel Sulliv

HISTORY AND PHILOSOPHY OF SCIENCE (L)
C. West Churchman
Norwood Russell Hanson

PHARMACEUTICAL SCIENCES (N)
John E. Christian
Joseph P. Buckley

AGRICULTURE (O)
R. H. Shaw
Howard B. Sprague

INDUSTRIAL SCIENCE (P)

EDUCATION (Q)
James Rutledge
Frederic B. B

DIVISIONS
ALASKA DIVISION
Richard M. Hurd
PACIFIC DIVISION
George Dahlgren
Janis Bonner
Robert C. Miller

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION
Aden B. Meinert
Marlowe G. Anderson

EXECUTIVE SECRETARY

SCIENCE is published weekly on Friday and on the fourth Tuesday in November by the American Association for the Advancement of Science, 1515 Massachusetts Ave
Washington, D.C. 20005. Now combined with The Scientific Monthly. Second-class postage paid at Washington, D.C. Copyright © 1965 by the American Association for
Advancement of Science. Annual subscriptions: $8.50; foreign postage, $1.50; Canadian postage, $1.00; single copies, $3.50. School year subscriptions: 6 months, $7.10; 12 months, $14.20; 24 months, $27.50. Provide 4 weeks' notice for change of address, giving new and old address and zip numbers. Send a recent address label. SCIENCE is indexed in the Readers' Guide to Periodical Literature.
Microseisms from Hurricane "Hilda": J. Cl. De Bremaeker .................................................. 1725
Complement: Increased Efficiency of the Second Component after Treatment with Iodoacetamide: M. J. Polley and H. J. Müller-Eberhard .................................................. 1728
Auxin Transport, Gibberellin, and Apical Dominance: W. P. Jacobs and D. B. Case .............................................. 1729
Reversion in Hamster Cells Transformed by Rous Sarcoma Virus: I. Macpherson .................................................. 1731
Phenotypic Alterations in Adrenal Tumor Cultures: G. H. Sato et al. .................................................. 1733
Thyroid and Parathyroid Roles in Hypercalcemia: Evidence for a Thyrocalcitonin Releasing Factor: R. F. Gittes and G. L. Irvin .................................................. 1737
Configuration of Inactive and Active Polysomes of the Developing Down Feather: E. Bell et al. .............................................. 1739
Growth of Rats Fed on Opaque-2 Maize: E. T. Mertz et al. .................................................. 1741
Isoantigens of Gamma Globulin in Pigs: B. A. Rasmussen .................................................. 1742
Degeneration of the Eyes of Tyrosine-Deficient Chick Embryos: C. R. Grau, R. E. Austic, G. C. Matteson .............................................. 1743
Radiation Resistance in Lipovirus-Altered Human Cells: J. B. Little and R. S. Chang .................................................. 1746
Trematode Parasitism and Polymorphism in a Marine Snail: W. H. Ewers and C. R. Rose .............................................. 1747
Gymnodinium breve: Induction of Shellfish Poisoning in Chicks: S. M. Ray and D. V. Aldrich .................................................. 1748
Two-Stage Paired-Associate Learning and Eye Movements: P. D. McCormack and E. J. Haltrecht .............................................. 1749
Pupillary Response of the Screech Owl, Otus asio: L. G. Bishop and L. Stark .............................................. 1750
Territorial Behavior among Puku in Zambia: A. de Vos .............................................. 1752
Mus musculus: Experimental Induction of Territory Formation: P. K. Anderson and J. L. Hill .............................................. 1753
Comments on Reports: Iodine-131 Fallout from Underground Tests II: E. A. Martell .............................................. 1756

MEETINGS

Catabolism of Collagen: H. B. Bensusan and L. Klein; Forthcoming Events .............................................. 1758

DEPARTMENTS

New Products .............................................. 1771

Cover

Fault displacement associated with the 1964 Alaska earthquake. The northwest block (left) of the Hanning Bay Fault has been displaced upward between 4 and 5 meters, relative to the southeast block, along a high-angle reverse fault. The white coating on the reef rock of the upthrown block consists of the bleached remains of calcareous algae and bryozoans that lived below mean tide level. See page 1675. [George Plafker, U.S. Geological Survey]