LETTERS

NSF: R. F. Inger; H. Brooks

EDITORIAL

Pressure on Basic Research

ARTICLES

Antibody Active Sites and Immunoglobulin Molecules: S. J. Singer and R. F. Doolittle

Curiosity and Exploration: D. E. Berlyne

Dynamic Programming: R. Bellman

NEWS AND COMMENT

Mohole: Senate Asked To Restore Funds—Wilderness Act: Park Plan Debated


BOOK REVIEWS

Education's Role in Nation Building: E. Staley

Explorations in Elementary Mathematics, reviewed by C. W. Nelson; other reviews by A. L. Burnett, P. P. Cohen, Z. Tar, A. O. Barut, J. C. Crowell, E. J. Pinney

REPORTS

Pygmy Stars: First Pair: F. Zwicky

Chondrules: Suggestion Concerning the Origin: F. L. Whipple

Martian Wave of Darkening: A Frost Phenomenon?: J. Otterman and F. E. Bronner

Cohenite in Meteorites: A Proposed Origin: R. Brett

Peroxidase and Resistance to Ceratocystis in Sweet Potato Increased by Volatile Materials: B. Clare, D. J. Weber, M. A. Stahmann

In vitro Synthesis of an Infectious Mutant RNA with a Normal RNA Replicase: N. R. Pace and S. Spiegelman

Copper and the Role of Isopods in Degradation of Organic Matter: W. Wieser

BOARD OF DIRECTORS

HENRY EYRING

ALFRED S. ROMER

DON K. PRICE

H. BENTLEY CLASS

HUDSON HOAG

Retiring President, Chairman

President

President Elect

President, Orin Sex

MINA S. REES

VICE PRESIDENTS AND SECTION SECRETARIES

MATHEMATICS (A)

PHYSICS (B)

CHEMISTRY (C)

ASTRONOMY (D)

Albert W. Tucker

Alien V. Aslin

Alfred E. Brown

Philip C. Keenan

Wallace Givens

Stanley S. Ballard

Milton Orchin

Frank B. Chadwick

ANTHROPOLOGY (E)

PSYCHOLOGY (F)

SOCIAL AND ECONOMIC SCIENCES (K)

HISTORY AND PHILOSOPHY OF SCIENCE (L)

Cora Du Bois

Robert M. Gagné

Kenneth L. Bowling

Melvin Kranzberg

Anthony Leeds

Frank W. Finger

Eugene B. Skolnikoff

Norwood Russell Hanson

PHARMACEUTICAL SCIENCES (M)

AGRICULTURE (O)

INDUSTRIAL SCIENCE (P)

EDUCATION (R)

Andre Archambault

Nyla G. Brady

Elvis A. Johnson

C. A. McElreath

Joseph P. Buckley

Ned D. Bayley

Burton V. Dean

Frederick B. DeWitt

DIVISIONS

ALASKA DIVISION

PACIFIC DIVISION

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION

A. B. Coyle

Eleanor Viereck

Daniel G. Aldrich, Jr.

Marlowe A. Anderson

President

Executive Secretary

President

Secretary

President

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 Avenue, Washington, D.C. 20005. Subscription rates: $30.00 a year. Rate for institutions: $30.00 a year. Single copy price: $5.00. Copyright © 1966 by the American Association for the Advancement of Science. Annual subscriptions: 9 months, $7.10; 10 months, $7.30. Payable in advance. In Canada and for Canadian addresses, $7.10 for 9 months, $7.30 for 10 months. In Australia, New Zealand, and all English-speaking countries, $12.00 for 12 months. Address all correspondence to Science, 1515 Massachusetts Avenue, N.W., Washington, D.C. 20005. Second-class postage paid at Washington, D.C. and additional mailing offices. Printed in U.S.A. by the American Association for the Advancement of Science. Science is indexed in the Reader's Guide to Periodical Literature.
Nitrogen- and Helium-Induced Anoxia: Different Lethal Effects on Rye Seeds: R. L. Latterell ........................................... 69
Montmorillonite: Effect of pH on Its Adsorption of a Soil Humic Compound: M. Schnitzer and H. Kodama ........................................... 70
Circadian Rhythm in Pineal Tyrosine Hydroxylase: E. McGeer and P. L. McGeer ........................................... 73
Antiserum to Immunoglobulin A: Inhibition of Cell-Mediated Demyelination in Tissue Culture: G. F. Winkler and B. G. Arnason ........................................... 75
Polysomes and Protein Synthesis in Cells Infected with a DNA Virus: R. J. Sydskis and B. Roizman ........................................... 76
Calibration of Gauges for Determining Leaf Water Status: P. G. Jarvis and R. O. Slatyer ........................................... 78
Influence of the Lethal Yellow (Ay) Gene on Estrous Synchrony in Mice: A. Bartke and G. L. Wolf ........................................... 79
Mechanism of a Reaction in vitro Associated with Delayed-Type Hypersensitivity: B. R. Bloom and B. Bennett ........................................... 80
Dimethyl Sulfoxide: Lens Changes in Dogs during Oral Administration: L. F. Rubin and P. A. Mattis ........................................... 83
Glucuronidase Gene Expression in Somatic Hybrids: R. Ganschow ........................................... 84
Sleep Deprivation in the Rat: R. A. Levitt ........................................... 85
Qualitative versus Directional Cues in Two Forms of Differentiation: C. Dobrzecka, G. Szwejkowska, J. Konorski ........................................... 87

Nucleic Acid and Protein Chemistry: R. D. Cole and C. A. Dekker; Forthcoming Events ........................................... 92

Cover
Examples of "incongruity," the possession by a stimulus pattern of characteristics that a human subject will generally have learned to regard as incompatible. Such pictures have been used in experiments on curiosity and other motivational effects of "collative" stimulus properties. See page 25. [S. E. Burgess]
This copy is for your personal, non-commercial use only.

Editor's Summary