

LETTERS	World Modeling: <i>D. Gabor; H. H. Hemond, R. H. Goodwin, W. A. Niering; J. W. Forrester; M. Shubick</i> ; Test Bias: <i>T. A. Cleary and J. C. Stanley</i> ; Psychology and Health Care: <i>H. Dörken</i> ; Research Management: <i>F. L. Floyd</i> ; The College Professor: <i>C. S. Pike</i> ; Machine Translation: <i>J. R. Pierce</i> ; Lunar Basalts: <i>H. C. Urey and K. Marti</i>	109
EDITORIAL	Who Should Ultimately Own the Data?: <i>A. Etzioni</i>	121
ARTICLES	The <u>Human</u> Nature of Human Nature: <i>L. Eisenberg</i>	123
	Circumscribed Halos: <i>R. G. Greenler and A. J. Mallmann</i>	128
	Congenital and Genetic Disease in Domestic Animals: <i>J. J. Mulvihill</i>	132
	The Significance of Science: <i>V. F. Weisskopf</i>	138
NEWS AND COMMENT	National Environmental Policy Act: How Well Is It Working?	146
	NSB Loses Branscomb to IBM	147
	Harvard Teaching Assistants on Strike	148
	OECD: Report Sees Closer Links between Research, Social Objectives	150
BOOK REVIEWS	Harvest of Death, reviewed by <i>A. W. Galston</i> ; Statistical Ecology, <i>R. R. Sokal</i> ; Recent Advances in Adrenergic Mechanisms, <i>I. J. Kopin</i> ; Inorganic Reaction Mechanisms, <i>R. G. Linck</i> ; Force in Newton's Physics, <i>A. Gabbey</i>	154
REPORTS	Multivariate Analysis of an Early Hominid Metacarpal from Swartkrans: <i>G. P. Rightmire</i>	159
	Enrichment of Heavy Metals and Organic Compounds in the Surface Microlayer of Narragansett Bay, Rhode Island: <i>R. A. Duce et al.</i>	164
	Cloud Seeding Experiments: Lack of Bias in Florida Series: <i>G. W. Brier et al.</i>	169

Downloaded from <http://science.sciencemag.org/> on May 24, 2014

BOARD OF DIRECTORS	MINA REES Retiring President, Chairman	GLENN T. SEABORG President	LEONARD M. RIESER President-Elect	DAVID BLACKWELL RICHARD H. BOLT	LEWIS M. BRANSCOMB BARRY COMMONER
VICE PRESIDENTS AND SECTION SECRETARIES	MATHEMATICS (A) John W. Tukey F. A. Ficken	PHYSICS (B) Herbert Friedman Roif M. Sinclair	CHEMISTRY (C) Martin Paul Leo Schubert	ASTRONOMY (D) George B. Field Arlo U. Landolt	
	PSYCHOLOGY (I) Dale B. Harris William D. Garvey	SOCIAL AND ECONOMIC SCIENCES (K) James S. Coleman Harvey Sapolsky		HISTORY AND PHILOSOPHY OF SCIENCE Everett Mendelsohn Raymond J. Seeger	
	PHARMACEUTICAL SCIENCES (Np) Linwood F. Tice John Autian	AGRICULTURE (O) Roy L. Lovvorn Michael A. Farrell	INDUSTRIAL SCIENCE (P) Jacob E. Goldman Jordan D. Lewis	EDUCATION (Q) Lloyd K. Johnson Phillip R. Fordyce	
DIVISIONS	ALASKA DIVISION Gordon Harrison President Irma Duncan Executive Secretary		PACIFIC DIVISION Roy A. Young President Robert C. Miller Secretary		SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION John R. Lacher President Marlowe G. Anderson Executive Secretary

SCIENCE is published weekly, except the last week in December, but with an extra issue on the third Tuesday in November, by the American Association for the Advancement of Science, 1515 Massachusetts Ave., NW, Washington, D.C. 20005. Now combined with The Scientific Monthly. Second-class postage paid at Washington, D.C. Copyright © 1972 the American Association for the Advancement of Science. Annual subscription \$20; foreign postage: Americas \$3; overseas \$5; air freight to Europe, North Africa, Near East: single copies \$1 (back issues, \$2) except Guide to Scientific Instruments which is \$4. School year subscription: 9 months, \$15; 10 months, \$16.75. Provide 4 weeks notice change of address, giving new and old address and zip codes. Send a recent address label. SCIENCE is indexed in the Reader's Guide to Periodical Literature.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Charge Distribution in the Light-Atom Mineral Kernite: <i>P. Coppens, W. F. Cooper, F. K. Larsen</i>	165
Spacecraft Propulsion: New Methods: <i>H. Alfvén</i>	167
Intestinal Calcium Transport: The Role of Sodium: <i>S. J. Birge, Jr., H. R. Gilbert, L. V. Avioli</i>	168
The Immune Reaction as a Stimulator of Tumor Growth: <i>R. T. Prehn</i>	170
Polyamino Acids: Preparation from Reported Proportions of "Prebiotic" and Extraterrestrial Amino Acids: <i>M. A. Saunders and D. L. Rohlfing</i>	172
Leukemia, Lymphoma, and Osteosarcoma Induced in the Syrian Golden Hamster by Simian Virus 40: <i>G. Th. Diamandopoulos</i>	173
Hormone-Calcium Interactions with the Plasma Membrane of Rat Liver Cells: <i>L. Shlatz and G. V. Marinetti</i>	175
Norepinephrine and Dopamine: Assay by Mass Fragmentography in the Picomole Range: <i>S. H. Koslow, F. Cattabeni, E. Costa</i>	177
Genetic Control of Lactate Dehydrogenase Expression in Mammalian Tissues: <i>R. D. Glass and D. Doyle</i>	180
Organotypic Bioelectric Activity in Cultured Reaggregates of Dissociated Rodent Brain Cells: <i>S. M. Crain and M. B. Bornstein</i>	182
Freezing Resistance in Polar Fishes: <i>A. R. Hargens</i>	184
Molecular Defect in a Gamma-2 (γ_2) Heavy Chain: <i>S. M. Cooper, E. C. Franklin, B. Frangione</i>	187
Acetylcholine Receptors: Number and Distribution at Neuromuscular Junctions in Rat Diaphragm: <i>D. M. Fambrough and H. C. Hartzell</i>	189
Morphologic Alterations of Synapses in Electrically Stimulated Superior Cervical Ganglia of the Cat: <i>J. J. Pysh and R. G. Wiley</i>	191
<i>Technical Comments: Carbon Monoxide Concentration Trends in Urban Atmospheres: M. Eisenbud and L. R. Ehrlich</i>	193
MEETINGS Translation: Its Mechanism and Control: <i>T. Caskey et al.</i> ; Ethics, Law, and Genetic Counseling: <i>D. Callahan</i> ; Forthcoming Events	195

Downloaded from <http://science.sciencemag.org/> on May 24, 2019

WARD H. GOODENOUGH
CARYL P. HASKINS

DANIEL P. MOYNIHAN
PHYLLIS V. PARKINS

WILLIAM T. GOLDEN
Treasurer

WILLIAM BEVAN
Executive Officer

GEOLOGY AND GEOGRAPHY (E)
Frank C. Whitmore
William E. Benson

BIOLOGICAL SCIENCES (FG)
Ian Sussex
Richard J. Goss

ANTHROPOLOGY (H)
Richard N. Adams
Anthony Leeds

ENGINEERING (M)
Newman A. Hall
Raynor L. Duncombe

MEDICAL SCIENCES (N)
Robert W. Berliner
F. Douglas Lawrason

DENTISTRY (Nd)
Joseph L. Henry
Sholom Pearlman

INFORMATION AND
COMMUNICATION (T)
Andrew A. Aines
Scott Adams

STATISTICS (U)
W. Duane Evans
Ezra Glaser

ATMOSPHERIC AND HYDROSPHERIC
SCIENCES (W)
John A. Knauss
Louis J. Battan

COVER

The 22° halo and the upper tangential arc. The photograph, which covers the entire sky, was obtained by photographing the reflection in the convex surface of a reflecting sphere. The entire horizon, camera, tripod, and author are visible. See page 128. [R. G. Greenler, University of Wisconsin, Milwaukee]

Science

176 (4031)

Science **176** (4031), 109-212.

ARTICLE TOOLS

<http://science.sciencemag.org/content/176/4031>

PERMISSIONS

<http://www.sciencemag.org/help/reprints-and-permissions>

Use of this article is subject to the [Terms of Service](#)

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title *Science* is a registered trademark of AAAS.