

# SCIENCE

<b>LETTERS</b>	Reform of Peer Review: <i>D. E. Chubin</i> ; Cousins' Recovery: <i>N. Cousins</i> ; Hayflick-NIH Settlement: <i>B. L. Strehler et al.</i> . . . . .	240
<b>EDITORIAL</b>	Science in an Election Year . . . . .	245
<b>ARTICLES</b>	Relativistic Jets in SS 433: <i>B. Margon</i> . . . . .	247
	➤ Human Cell Hybrids: Analysis of Transformation and Tumorigenicity: <i>E. J. Stanbridge et al.</i> . . . . .	252
	Maya Archeology: <i>G. R. Willey</i> . . . . .	260
<b>NEWS AND COMMENT</b>	Safe to Delay 1985 Diesel Rule, Study Says . . . . .	268
	Philip Handler Dies . . . . .	269
	Public Attitude Toward Science Is Yes, but— . . . . .	270
	Hayflick Case Settled . . . . .	271
	Science Magazines: The Second Wave Rolls In . . . . .	272
	<i>Briefing</i> : First Question in Geneva: What Numbers to Use?; 145 Congressmen Oppose Solar Research Cuts; Yale Professor Refuses to File Effort Reports . . . . .	274
<b>RESEARCH NEWS</b>	✓ Tumors: A Mixed Bag of Cells . . . . .	275
	<i>Venus Highlights</i> : The Weather of Venus: Also a Relation to Earth?; Tectonics on Venus: Like That of Ancient Earth?; Origins: A Problem with Rare Gases . . . . .	278
<b>BOOK REVIEWS</b>	The Chain Straighteners, <i>reviewed by J. K. Smith</i> ; The Germ of Laziness, <i>R. L. Numbers</i> ; Epistemological and Social Problems of the Sciences in the	

Downloaded from <http://science.sciencemag.org> on July 11, 2020

<b>BOARD OF DIRECTORS</b>	D. ALLAN BROMLEY Retiring President, Chairman	E. MARGARET BURBIDGE President	ANNA J. HARRISON President-Elect	LAWRENCE BOGORAD EDWARD E. DAVID, JR.	NANCIE L. GONZALEZ DAVID A. HAMBURG
<b>CHAIRMEN AND SECRETARIES OF AAAS SECTIONS</b>	MATHEMATICS (A) Felix E. Browder Lynn Arthur Steen	PHYSICS (B) Donald N. Langenberg Rolf M. Sinclair	CHEMISTRY (C) Charles G. Overberger William L. Jolly	ASTRONOMY (D) Irwin I. Shapiro Donat G. Wentzel	
	PSYCHOLOGY (J) Eleanor J. Gibson Bert F. Green	SOCIAL, ECONOMIC, AND POLITICAL SCIENCES (K) Thomas C. Schelling David L. Sills		HISTORY AND PHILOSOPHY OF SCIENCE (L) Erwin N. Hiebert Diana L. Hall	ENGINEERING (M) Robert W. Dunlap W. Edward Lear
	EDUCATION (Q) Elaine W. Ledbetter Roger G. Olstad	DENTISTRY (R) Paul Goldhaber Harold M. Fullmer	PHARMACEUTICAL SCIENCES (S) Louis A. Luzzi Robert A. Wiley	INFORMATION, COMPUTING, AND COMMUNICATION (T) Marilyn C. Bracken Madeline M. Henderson	
<b>DIVISIONS</b>	<b>ALASKA DIVISION</b>		<b>PACIFIC DIVISION</b>		<b>SOUTHWESTERN AND ROCKY MOUNTAIN DIV</b>
	Vera Alexander President	T. Neil Davis Executive Secretary	Robert I. Bowman President	Alan E. Leviton Executive Director	Max P. Dunford President M. Michelle Balco Executive Officer

**SCIENCE** is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Second-class postage (publication No. 484460) paid at Washington, D.C., and at an additional entry. Now combined with **The Science Monthly**® Copyright © 1982 by the American Association for the Advancement of Science. Domestic individual membership and subscription (51 issues): \$43. Domestic institutional subscription (51 issues): \$80. Foreign postage extra: Canada \$24, other (surface mail) \$27, air-surface via Amsterdam \$55. First class, airmail, school-year, and student rates on request. Single copies \$2 (\$2.50 by mail); back issues \$3 (\$3.50 by mail); classroom rates on request. **Change of address:** allow 6 weeks, giving old and new addresses and seven-digit account number. **Postmaster:** Send Form 3579 to *Science*, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. *Science* is indexed in the *Reader's Guide to Periodical Literature* and in several specialized indexes.

# AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Early Nineteenth Century, *J. L. Heilbron*; Fishes in North American  
Deserts, *W. L. Fink*; Biochemistry of Taste and Olfaction, *D. G. Drescher*;  
North American Bison, *J. S. Robertson, Jr.*; Books Received ..... 280

<b>REPORTS</b>	Virginia Barrier Island Configuration: A Reappraisal: <i>S. P. Leatherman, T. E. Rice, V. Goldsmith</i> .....	285
	The Rise of Global Mean Sea Level as an Indication of Climate Change: <i>R. Etkins and E. S. Epstein</i> .....	287
	Occultation by a Possible Third Satellite of Neptune: <i>H. J. Reitsema et al.</i> .....	289
	Photosynthetic Hydrogen and Oxygen Production: Kinetic Studies: <i>E. Greenbaum</i> .....	291
	Prenatal Exposure to the Herbicide 2,4-Dichlorophenyl- <i>p</i> -Nitrophenyl Ether Destroys the Rodent Harderian Gland: <i>L. E. Gray, Jr., et al.</i> .....	293
	Muscle Fatigue and the Role of Transverse Tubules: <i>C. P. Bianchi and S. Narayan</i> .....	295
	Sedimentation Field Flow Fractionation of Liposomes: <i>J. J. Kirkland, W. W. Yau, F. C. Szoka</i> .....	296
	Human T Cell Antigen Expression by Primate T Cells: <i>B. F. Haynes et al.</i> .....	298
	Developmental Equations for Postural Tremor: <i>W. W. Tryon</i> .....	300
	Migration Inhibition of Endothelial Cells by Lymphokine-Containing Supernatants: <i>M. C. Cohen et al.</i> .....	301
	<i>Stephanopogon</i> , a Phylogenetically Important "Ciliate," Shown by Ultrastructural Studies to Be a Flagellate: <i>D. L. Lipscomb and J. O. Corliss</i> .....	303
	Basilar Membrane Tuning in the Cat Cochlea: <i>S. M. Khanna and D. G. B. Leonard</i> .....	305
	Ethanol in Low Doses Augments Calcium-Mediated Mechanisms Measured Intracellularly in Hippocampal Neurons: <i>P. L. Carlen, N. Gurevich, D. Durand</i> .....	306
	Iodine-125-Labeled Triiodothyronine in Rat Brain: Evidence for Localization in Discrete Neural Systems: <i>M. B. Dratman et al.</i> .....	309
	<i>Technical Comments</i> : Scatchard Plots: <i>I. H. Scheinberg; R. A. Weisiger, J. L. Gollan, R. K. Ockner</i> .....	312

Downloaded from <http://science.sciencemag.org/> on July 11, 2020

ALTER E. MASSEY HEN E. SAWYER	SHEILA E. WIDNALL HARRIET ZUCKERMAN	WILLIAM T. GOLDEN Treasurer	WILLIAM D. CAREY Executive Officer
GEOLOGY AND GEOGRAPHY (E) Richard A. Socolow Thomas Dutro, Jr.	BIOLOGICAL SCIENCES (G) Carl Gans Walter Chavin	ANTHROPOLOGY (H) John W. Bennett Priscilla Reining	
CHEMICAL SCIENCES (N) John M. Tepperman Richard M. Lowenstein	AGRICULTURE (O) Duane Acker Coyt T. Wilson	INDUSTRIAL SCIENCE (P) Ward J. Haas Robert L. Stern	
STATISTICS (U) John R. Rosenblatt Richard A. Glaser	ATMOSPHERIC AND HYDROSPHERIC Frederic Sanders Glenn R. Hilst	GENERAL (X) Daniel Alpert S. Fred Singer	

## COVER

Pyramid of Temple I at Tikal, Department of Petén, Guatemala. Tikal is the largest of the Maya ruins of the southern Maya lowlands. It was first settled in the first millennium B.C. and became an important political and religious center before the beginning of the Christian era. Temple I dates from the Late Classic Period of the site's occupancy. The total height of the building, from the plaza floor to the top of the ornamented roof comb of the temple, is more than 200 feet. Temple I was excavated by the University of Pennsylvania expedition to Tikal, under the direction of W. R. Coe II. See page 260. [Richard M. Leventhal, Peabody Museum, Harvard University, Cambridge, Massachusetts 02138]

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects 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.

# Science

**215 (4530)**

*Science* **215** (4530), 240-314.

**ARTICLE TOOLS**

<http://science.sciencemag.org/content/215/4530.citation>

**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. The title *Science* is a registered trademark of AAAS.

Copyright © 1982 The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works.