

<b>LETTERS</b>	Tanker Safety: Vessel Traffic Control?: <i>A. H. Schuyler, Jr.</i> ; Cancer and Mental Illness: <i>R. M. Roppel</i> . . . . .	398
<b>EDITORIAL</b>	The Management of Weather Resources: <i>H. Cleveland</i> . . . . .	399
<b>ARTICLES</b>	A Terminal Mesozoic "Greenhouse": Lessons from the Past: <i>D. M. McLean</i> . . . . .	401
	Higher Order Structure of Simian Virus 40 Chromatin: <i>U. Müller et al.</i> . . . . .	406
	Research Instrument Sharing: <i>C. L. Coulter</i> . . . . .	415
<b>NEWS AND COMMENT</b>	Peter Bourne's Mistake: A Prescription for Trouble . . . . .	421
	American-Soviet Relations: The Canceled Computer . . . . .	422
	<i>Briefing</i> : Post-Apollo Astronauts Train for Shuttle; Detour on the Road to Brave New World; NRC Study Tracks Trends in Doctorates . . . . .	424
	Endangered Species Act Survives Senate Hunters . . . . .	426
	Efforts to Stop Paraquat Set Back . . . . .	427
<b>RESEARCH NEWS</b>	Ultrahigh Pressure: New Highs Spur Pursuit of Exotic Goals . . . . .	429
	Holographic Filing: An Industry on the Verge of Birth . . . . .	431
<b>AAAS NEWS</b>	Math Called Key to Indian Self-Determination: <i>R. Green</i> ; Call for Nominations: 1979 General Election; Science Education for Handicapped Theme of Conference: <i>C. A. Davis</i> ; Change in Section H Election Slate; For the Library; 1977 AAAS Summary Financial Statements . . . . .	433
<b>ANNUAL MEETING</b>	Call for Contributed Papers . . . . .	436

Downloaded from <http://science.sciencemag.org/> on April 26, 2019

<b>BOARD OF DIRECTORS</b>	EMILIO Q. DADDARIO Retiring President, Chairman	EDWARD E. DAVID, JR. President	KENNETH E. BOULDING President-Elect	ELOISE E. CLARK MARTIN M. CUMMINGS	RENÉE C. FOX BERNARD GIFFORD
<b>MEMBERS AND SECRETARIES OF SECTIONS</b>	MATHEMATICS (A) Mark Kac Ronald Graham	PHYSICS (B) D. Allan Bromley Roif M. Sinclair	CHEMISTRY (C) William E. McEwen William L. Jolly	ASTRONOMY (D) Paul W. Hodge Donat G. Wentzel	
	PSYCHOLOGY (J) Brenda Milner Meredith P. Crawford	SOCIAL AND ECONOMIC SCIENCES (K) Kurt W. Back Gillian Lindt	HISTORY AND PHILOSOPHY OF SCIENCE (L) Robert S. Cohen Diana L. Hall	ENGINEERING (M) Robert B. Beckmann Donald E. Marlowe	
	EDUCATION (Q) Marjorie H. Gardner James T. Robinson	DENTISTRY (R) Sholom Pearlman John Termine	PHARMACEUTICAL SCIENCES (S) John G. Wagner Raymond Jang	INFORMATION, COMPUTING, AND COMMUNICATION (T) Eugene Garfield Madeline M. Henderson	
<b>DIVISIONS</b>	<b>ALASKA DIVISION</b>		<b>PACIFIC DIVISION</b>		<b>SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION</b>
	Donald H. Rosenberg President	Keith B. Mather Executive Secretary	Glenn C. Lewis President	Alan E. Leviton Secretary-Treasurer	James W. O'Leary President Lora M. Shields Executive Officer

SCIENCE is published weekly, except the last week in December, but with an extra issue on the third Tuesday in September, 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., and additional entry. Copyright © 1978 by the American Association for the Advancement of Science. Member rates on request. Annual subscriptions \$65; foreign postage: Canada \$10; other surface \$13; air-surface via Amsterdam \$30. Single copies \$2 by mail (back issues \$3) except *Guide to Scientific Instruments* \$6. School year subscriptions: 9 months \$50; 10 months \$55. Provide 6 weeks' notice for change of address, giving new and old addresses and postal codes. Send a recent address label, including your 7-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

<b>BOOK REVIEWS</b>	<p>The Essential Tension, reviewed by R. S. Westman; Environmental Aerodynamics, H. A. Panofsky; Endopolyploidy and Polyteny in Differentiation and Evolution, B. B. Spear; Books Received . . . . .</p>	<p>437</p>
<b>REPORTS</b>	<p>Velocity Anomalies in Dilatant Rock: C. H. Scholz . . . . .</p> <p>Flowering Induced on Young Loblolly Pine Grafts by Out-of-Phase Dormancy: M. S. Greenwood . . . . .</p> <p>Light-Stimulated Morphogenesis in the Fruiting Myxobacterium <i>Stigmatella aurantiaca</i>: G. T. Qualls, K. Stephens, D. White . . . . .</p> <p>Suppression of Chronic Allergic Encephalomyelitis: Relevance to Multiple Sclerosis: C. S. Raine, U. Traugott, S. H. Stone . . . . .</p> <p>Mutant Strains of <i>Rhizobium japonicum</i> with Increased Ability to Fix Nitrogen for Soybean: R. J. Maier and W. J. Brill . . . . .</p> <p>Abnormal Auditory Evoked Potentials in Early Infancy Malnutrition: A. B. Barnett et al. . . . .</p> <p>Proteins in a Nonvenomous Defensive Secretion: Biosynthetic Significance: J. R. Aldrich et al. . . . .</p> <p>Biosynthesis and Accumulation of Formic Acid in the Poison Gland of the Carpenter Ant <i>Camponotus pennsylvanicus</i>: A. Hefetz and M. S. Blum. . . . .</p> <p>Adherence of Group A Streptococci to Pharyngeal Cells: A Role in the Pathogenesis of Rheumatic Fever: D. S. Selinger et al. . . . .</p> <p>Genomic Masking of Nondefective Recombinant Murine Leukemia Virus in Moloney Virus Stocks: P. J. Fischinger, C. S. Blevins, N. M. Dunlop . . . . .</p> <p>Suid Evolution and Correlation of African Hominid Localities: An Alternative Taxonomy: H. B. S. Cooke . . . . .</p> <p>Enkephalin-Like Material Elevated in Ventricular Cerebrospinal Fluid of Pain Patients After Analgetic Focal Stimulation: H. Akil et al. . . . .</p> <p>Central Nervous System Dysfunction Due to Lead Exposure: J. A. Valciukas et al. . . . .</p> <p>Enkephalin-Containing Neurons Visualized in Spinal Cord Cell Cultures: J. H. Neale et al. . . . .</p> <p>The Jet Stream Microbeveler: An Inexpensive Way to Bevel Ultrafine Glass Micropipettes: T. E. Ogden, M. C. Citron, R. Pierantoni . . . . .</p>	<p>441</p> <p>443</p> <p>444</p> <p>445</p> <p>448</p> <p>450</p> <p>452</p> <p>454</p> <p>455</p> <p>457</p> <p>460</p> <p>463</p> <p>465</p> <p>467</p> <p>469</p>

Downloaded from <http://science.sciencemag.org/> on April 26, 2019

C CORMACK RICK MOSTELLER	RUSSELL W. PETERSON CHEN NING YANG	WILLIAM T. GOLDEN Treasurer	WILLIAM D. CAREY Executive Officer
<p>GY AND GEOGRAPHY (E)</p> <p>A. Friedman E. Bisque</p> <p>L SCIENCES (N)</p> <p>Jacobson Lowenstein</p> <p>TICS (U)</p> <p>W. Greenhouse user</p>	<p>BIOLOGICAL SCIENCES (G)</p> <p>Ursula K. Abbott Walter Chavin</p> <p>AGRICULTURE (O)</p> <p>James B. Kendrick Coyt T. Wilson</p> <p>ATMOSPHERIC AND HYDROSPHERIC SCIENCES (W)</p> <p>Kenneth C. Spengler Glenn R. Hilst</p>	<p>ANTHROPOLOGY (H)</p> <p>June Helm Priscilla Reining</p> <p>INDUSTRIAL SCIENCE (P)</p> <p>David B. Hertz Robert L. Stern</p> <p>GENERAL (X)</p> <p>Allen V. Astin Joseph F. Coates</p>	

merican Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects rther the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, ve the effectiveness of science in the promotion of human welfare, and to increase public understanding and ition of the importance and promise of the methods of science in human progress.

## COVER

Spinal cord cells grown in dissociated cell culture. The yellow fluorescence throughout the central nerve cell represents endogenous neuronal reactivity to antiserum against enkephalin antibody. The intimate apposition of the "opiate peptide" containing neuronal processes and nonreactive cells suggests the possibility of peptide-mediated communication. See page 467. [Joseph Neale *et al.*, Georgetown University, Washington, D.C.]

# Science

**201 (4354)**

*Science* **201** (4354), 398-470.

ARTICLE TOOLS

<http://science.sciencemag.org/content/201/4354.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. 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.