

SCIENCE

LETTERS	Potassium Iodide for Thyroid Protection: <i>F. von Hippel</i> ; ACS Electioneering: <i>A. C. Nixon</i>	1174
EDITORIAL	Foot-and-Mouth Disease Vaccines	1181
ARTICLES	Advances in Picosecond Spectroscopy: <i>P. M. Rentzepis</i>	1183
	Japanese Supercomputer Technology: <i>B. L. Buzbee, R. H. Ewald, W. J. Worlton</i>	1189
	Max Born's Statistical Interpretation of Quantum Mechanics: <i>A. Pais</i>	1193
NEWS AND COMMENT	Nuclear Power for Militarization of Space	1199
	OMB Plans Level NIH Budget	1200
	A Cloudburst of Yellow Rain Reports	1202
	Arms Control Agency on Hold	1203
	<i>Briefing</i> : France-India Fuel Deal Leaves Some Issues Open; Langenberg Resigns as Deputy Director of NSF; Hammer, Lasker Give Cancer Prizes ...	1205
RESEARCH NEWS	Red Deer Data Illuminate Sexual Selection	1206
	Food Affects Human Behavior	1209
	Synchrotron Radiation Assessed	1211
BOOK REVIEWS	Celebration, reviewed by <i>J. Bamberger</i> ; Cave Life, <i>G. J. Vermeij</i> ; Areography, <i>K. L. Heck, Jr.</i> ; Chemical Dynamics via Molecular Beam and Laser Techniques, <i>D. A. Truhlar</i> ; Books Received	1212

Downloaded from <http://science.sciencemag.org/> on September 19, 2020

BOARD OF DIRECTORS

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
--	-----------------------------------	-------------------------------------	--	--

CHAIRMAN AND SECRETARIES OF SPECIAL SECTIONS

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 David L. Hull	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

EDITORIAL DIVISIONS

ARCTIC DIVISION	PACIFIC DIVISION	SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION
Arthur M. Pearson President	Gunter E. Weller Executive Secretary	Herbert Baker President
		Alan E. Leviton Executive Director
		Klaus D. Timmerhaus President
		M. Michelle Balcomb 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): \$48. Domestic institutional subscription (51 issues): \$85. Foreign postage extra: Canada \$24, other (surface mail) air-surface via Amsterdam \$55. First class, airmail, school-year, and student rates on request. Single copies \$2.50 (\$3 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

REPORTS	Observations of Strain Accumulation Across the San Andreas Fault Near Palmdale, California, with a Two-Color Geodimeter: <i>J. O. Langbein et al.</i>	1217
	Crypts Are the Site of Intestinal Fluid and Electrolyte Secretion: <i>M. J. Welsh et al.</i>	1219
	Nature's Ballistic Missile: <i>E. J. Robb and G. L. Barron</i>	1221
	Fragment Spanning the SV40 Replication Origin Is the Only DNA Sequence Required in cis for Viral Excision: <i>S. E. Conrad, C.-P. Liu, M. R. Botchan</i>	1223
	Simultaneous Expression of Globin Genes for Embryonic and Adult Hemoglobins During Mammalian Ontogeny: <i>T. Boussios, J. F. Bertles, J. B. Clegg</i>	1225
	Mammalian Muscle Acetylcholine Receptor: A Supramolecular Structure Formed by Four Related Proteins: <i>B. M. Conti-Tronconi et al.</i>	1227
	DNA Sequence of the Gene Encoding the E _α Ia Polypeptide of the BALB/c Mouse: <i>J. McNicholas et al.</i>	1229
	Ban of DDT and Subsequent Recovery of Reproduction in Bald Eagles: <i>J. W. Grier</i>	1232
	Asymmetrical Brain Activity Discriminates Between Positive and Negative Affective Stimuli in Human Infants: <i>R. J. Davidson and N. A. Fox</i>	1235
	Substantia Nigra: Site of Anticonvulsant Activity Mediated by γ -Aminobutyric Acid: <i>M. J. Iadarola and K. Gale</i>	1237
	Fish Vision and the Detection of Planktonic Prey: <i>N. G. Hairston, Jr., K. T. Li, S. S. Easter, Jr.</i>	1240
	Simulating Amnesic Symptoms in Normal Subjects: <i>P. Graf, G. Mandler, P. E. Haden</i>	1243
	Transient Raman Study of Hemoglobin: Structural Dependence of the Iron-Histidine Linkage: <i>J. M. Freidman et al.</i>	1244
PRODUCTS AND MATERIALS	Molecular Models for Biochemistry; Array Processor; Benchtop Containment Hood; Histological Clearing Agent; Monoclonal Antibody Production; Protein Marker Kits; DNA Fragment Synthesizer; Laboratory Computer; Literature	1248

Downloaded from <http://science.sciencemag.org/> on September 19, 2020

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

COVER

Nestling bald eagles (*Haliaeetus leucocephalus*), about 5 weeks old, in northwestern Ontario, Canada. The birds fledge when 10 to 12 weeks old and acquire the familiar white feathers on the head and tail at age 4. These birds have been banded (visible on leg in foreground) for individual identification. Reproduction of this species increased markedly following the ban of DDT. See page 1232. [James W. Grier, North Dakota State University, Fargo 58105]

American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to promote 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

218 (4578)

Science **218** (4578), 1174-1250.

ARTICLE TOOLS <http://science.sciencemag.org/content/218/4578.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.