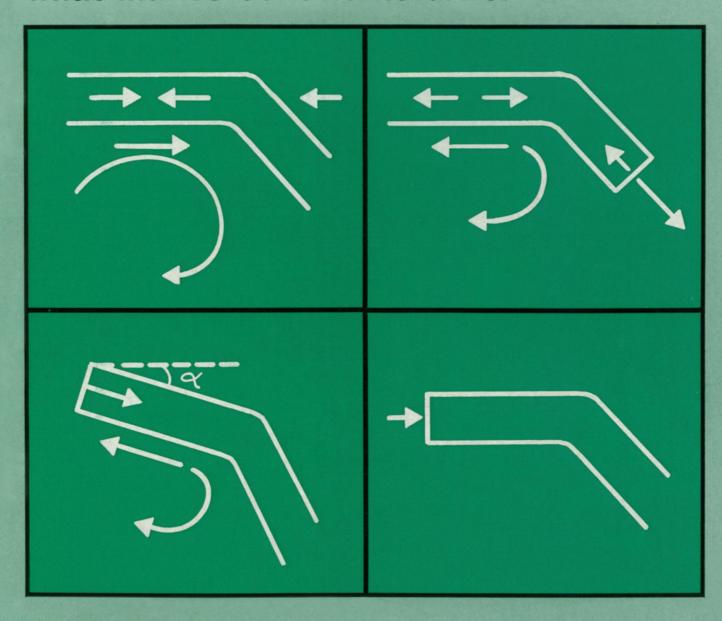
July 25, 1970 **25 c** Vol. 98, Nos. 3 & 4, pp. 49-88

science news

Edging away from lead
Treating traumas
Gravity in a centrifuge
Snowbank ecology

what makes continents drift?





AUDIOTAPE RECORDINGS OF THE 1969 (BOSTON) AAAS MEETING NOW AVAILABLE

We at the American Association for the Advancement of Science are pleased to present to the public, tape recordings of selected sessions of the Association's 1968 and 1969 annual meetings. These tapes, available at low cost in either cassette or open-reel format, are accurate, largely unedited recordings of the sessions as they took place.

Ideal for the teacher (advanced high school or college) who is looking for an educational aid to help spark discussion in the classroom or seminar, the scientist who wishes he had "been there," and the layman interested in finding out at first hand what is currently being discussed in the world of science, these recordings cover a wide range of scientific and science-related topics. These include: HUNGER, FOOD, AND MALNUTRITION; THE DESIGN AND NATURE OF CITIES; FAMILY AND POPULATION PROBLEMS; HEALTH, DISEASE, AND BEHAVIOR; SOCIAL AND POLITICAL INTERACTION; ETHICS, MORALS, PHILOSOPHY, AND HISTORY; LIFE AND THE LIVING EARTH; AFFAIRS OF TECHNOLOGY, ECONOMICS, AND BUSINESS; LEARNING, EDUCATION, AND COMMUNICATIONS; and INTERACTION WITH THE ARTS.

Addressing themselves to these topics are hundreds of authorities in various fields, including science, technology, medicine, education, philosophy, and the arts. JEAN MAYER, MARGARET MEAD, HARRY F. and MARGARET K. HARLOW, JOHN H. KNOWLES, BARRY COMMONER, ISAAC ASIMOV, SALVADOR E. LURIA, PHILIP MORRISON, SEN. EDMUND S. MUSKIE, and VLADIMIR USSACHEVSKY are just a few of the speakers participating in the recorded sessions.

For further information concerning the AAAS Audiotape Program, including a copy of the complete Audiotape catalogue, please fill in and mail the order blank to the address printed thereon. All information and catalogues are available free of charge.

City	State	Zip code	
Street			
Name			
PLEASE PRINT:			

Please send me, free of charge or obligation, a copy of the latest catalogue and information concerning the AAAS Audiotape Program.

CLIP AND MAIL TO:

AAAS AUDIOTAPE PROGRAM
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
1515 MASSACHUSETTS AVENUE, N.W.
WASHINGTON, D.C. 20005

science news®

OF THE WEEK

61

63



The forces deep in the earth's mantle responsible for the sea-floor spreading at the surface are still poorly understood. Some, or perhaps all, of the four mechanisms pictured here may be at work moving the earth's crustal plates. See page 74. (Drawing: Robert Trotter from L. Lliboutry)

A Science Service Publication Vol. 98/July 25, 1970/Nos. 3 & 4 Incorporating Science News Letter

Watson Davis, 1896-1967 Publisher: E. G. Sherburne Jr.

Editor: Warren Kornberg

Managing Editor: Carl Behrens

DEPARTMENTS

Aerospace: Everly Driscoll

Behavioral Sciences: James Moriarty

Earth Sciences: Kendrick Frazier

Environmental Sciences: Richard H. Gilluly

Life Sciences: Barbara J. Culliton

Physics and Astronomy: Dietrick E. Thomsen

Copy Editor: Nadine Clement
Production: Robert Trotter

Production Assistant: Maureen Gearty

Books: Margit Friedrich

Editorial Assistant: Esther Gilgoff

Advertising: Scherago Associates, Inc.

Circulation: Marcia Nelson

53 Search for space options

54 Reversing the genetic current

55 Unraveling the Laetrile tale

56 The incidence of syphilis

57 National science policy debate
58 Canada's deuterium shortage

58 Canada's deuterium shortage A chlorophyll for marine algae

59 Silver cord for NOAA

Assessing the nation's knowledge Leaning on auto emissions

Heyerdahl makes it A study of SST effects

62 Newsbriefs: Drug control shift; NSF budget; City air study

Life Sciences: Verdict on aspirin; Drug interaction; Helping Parkinson's victims; Fetal cystine; Sex reversal in fish

Aerospace: Space robots; NASA phase-out; Programming for Concorde; Space-health techniques; Earth resources satellites

65 Chemistry: Laser advances; New rocket propellant; Blood for fuel cell; Efficient desalination; Clean smelting; Quality crystals

Physical Sciences: Thermomagnetic force; L meson confirmed; Laser communications; Point positrons; American Tokamak

67 Earth Sciences: Explosions and earthquakes; Plate tectonics; Atmospheric oxygen; Earthquakes and the ionosphere; Snowfall increases

68 Behavioral Sciences: Defining black power; Drug usage; Communal living; Population and laws; Verbal reinforcement

69 Environmental Sciences: Pesticide effects; Alcoholic rats; Pollution detection; Detergents and eutrophication; PCB poisons

70 Medical Sciences: Thyroid tests; Tomographic scanner; Stroke treatments; Monitoring the blood stream; Thyroid scanning; Isotope with potential

FROM ABROAD

86 Letter from The Hague: Promoting the green revolution

IN SCIENCE FIELDS

73 Astronomy: V 74 Geophysics: N 77 Aerospace: T 80 Ecology: T	Lead-free gas Venus approaches Jupiter Movements in the mantle The effects of gravity The snowbank ecosystem Learning to treat trauma
--	---

52 Letters to the Editor

84 Films of the Week

Books of the Week

85 New Products

SCIENCE SERVICE

Institution for the Popularization of Science founded 1921; a non-profit corporation

Board of Trustees—Nominated by the American Association for the Advancement of Science: Athelstan F. Spilhaus, West Palm Beach, Fla.; Wallace R. Brode (Treasurer), American Chemical Society, Washington, D. C.; Bowen C. Dees, Franklin Institute, Philadelphia, Pa. Nominated by the National Academy of Sciences: Henry Allen Moe, The Clark Foundation; Harlow Shapley, Cambridge, Mass.; Allen V. Astin, Bethesda, Md. Nominated by the National Research Council: Glenn T. Seaborg (President), U.S. Atomic Energy Commission; Leonard Carmichael, National Geographic Society. Nominated by the Journalistic Profession: O. W. Riegel (Secretary), Washington and Lee University; Gordon B. Fister, Call-Chronical Newspapers. Nominated by the Edward W. Scripps Trust; John Troan, Pittsburgh Press; Ludwell Denny, Monterey, Calif.; Edward W. Scripps II (Vice President), Edward W. Scripps Trust

Director: E. G. Sherburne Jr.; Assistant Director: Dorothy Schriver; Staff, Youth Division, Howard Weisbrod; Things of Science, Ruby Yoshioka.