A Science Service Publication-Vol. 108/December 6, 1975/No. 23 Incorporating Science News Letter

^-	THE	14/5	
() -	IHE	W	- F K

OI IIIE WEEK	
Genetic sex determinant	356
Infrared witnesses astral cycles	356
Antarctic mishaps	357
Planet info exchange	358
Space briefs: Biosat, Soyuz	358
Daddario to head AAAS	358
Soviet Academy shuffle	358

RESEARCH NOTES

Environment	359
Science and Society	359
Biomedicine	360
Behavior	360

ARTICLES

361 Israel digs its past

DEPARTMENTS

Books	354
Letters	355
Off the Beat: New SI units	363

COVER: The caves of Qumran are where an ancient Jewish sect hid copies of the Scripture and other documents, now known as the Dead Sea Scrolls. Archaeology in Israel, such as the delicate work required here, has illuminated many previously obscure portions of the history of the Palestine area—the crossroads of the ancient world, along which passed conquering armies and innumerable caravans. See p. 361. (Photo: John H. Douglas)

F. G. Sherburne Jr. **Publisher** Kendrick Frazier **Editor**

Senior Editor and

Physical Sciences Dietrick E. Thomsen Senior Editor and

Robert J. Trotter **Behavioral Sciences** Biomedical Sciences Joan Arehart-Treichel **Biology/Chemistry** Janet L. Hopson John H. Douglas Science and Society **Space Sciences** Jonathan Eberhart

Contributing Editor/ Lynn Arthur Steen **Mathematics** Copy Editor Michelle Galler Riegel Dale Appleman **Art Director** Assistant to the Editor Susan Strasburger

Margit Friedrich **Books Advertising**

Scherago Associates, Inc. 11 W. 42nd St. New York, N.Y. 10036 Fred W. Dieffenbach Sales Director

Copyright © 1975 by Science Service, Inc., 1719 N St., N.W., Washington, D.C. 20036. Republication of any portion of SCIENCE NEWS is prohibited.

Editorial and Business Offices 1719 N Street, N.W. Washington, D.C. 20036

Subscription Department 231 West Center Street Marion, Ohio 43302

Subscription rate: 1 yr., \$10; 2 yrs., \$18; 3 yrs., \$25. (Add \$2 a year for Canada and Mexico, \$3 for all other countries.) Change of address: Four to six weeks' notice is required. Please state exactly how magazine is to be addressed. Include zip code.

Printed in U.S.A. Second class postage paid at Washington, D.C. Title registered as trademark U.S. and Canadian Patent Offices.

Published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington, D.C. 20036. (202-785-2255). Cable SCIENSERV. Telex 64227.

Retraction on Geller

On the basis of further experience in the art of conjuring I wish to publicly retract my endorsement of Uri Geller's psychoenergetic authenticity ("Geller performs for physicists," Off the Beat, SN: 7/20/74, p. 46). In particular, I retract my statement in SCIENCE NEWS: "My personal professional judgment as a Ph.D. physicist is that Geller demonstrated genuine psychoenergetic ability at Birkbeck, which is beyond the doubt of any reasonable man .

I have witnessed The Amazing Randi fracture metal and move the hands of a watch in a way that is indistinguishable from my observation of Geller's "psychokinetic" demonstrations. Also, I am advised of Randi's demonstration of causing bursts in a Geiger counter and of deflecting a compass needle as reported in a letter from Kings College, University of London (July 11, 1975) signed by Maurice Wilkins, F.R.S., and four other faculty associated with the Department of Biophysics. I am aware of the positive metal fracture tests of Geller reported by Wilber Franklin of Kent State, but I cannot evaluate them because I am ignorant of the art and science of metal fracture. I am also aware of positive reports of psychokinetic effects, not associated with Geller, reported by Dr. Ed May of San Francisco City College. Dr. May's research seems promising. Dr. Ronald Hawke of Lawrence Livermore Laboratory reports that Geller seems to be able to erase magnetic tapes psychokinetically. I cannot evaluate Hawke's report.

I do know that Geller's report of the Birkbeck tests in his book My Story is distorted to Geller's advantage. I do not think that Geller can be of any serious interest to scientists who are currently investigating paraphysical phenomena.

My own position is that the ambiguity in the interpretation of quantum mechanics leaves ample room for the possibility of psychokinetic and telepathic effects. I have personally experienced unusual "psychic" effects, but not under controlled and reproducible conditions.

Jack Sarfatti Director Physics/Consciousness Research Group Suite 14, 273 Green St. San Francisco, Calif. 94133

Decline in competence

Your reports about declining knowledge of everyday science and health in our increasingly complex and incompetent society are really depressing. My own experience with many students in the past decade tells me that they do not challenge their mental abilities for solving nontrivial math and science problems. They take only those subjects in their study which require reading and writing with trivial math and science. Students spend more time in processing information rather than developing the operational character of their minds by trying harder math problems. The use of computational devices at early stages in the education process is contributing to the inability of balancing checkbooks without a calculator. It is frustrating to find a high school graduate working in a grocery store who cannot add correctly a list of prices on grocery items when IBM registers break down.

M. A. Iiaz Associate Head Physics Department Virginia Polytechnic Institute and State University Blacksburg, Va.

Re: the Incompetent Society (SN: 11/8/75, p. 294), I believe the principal cause for decline in College Entrance Examination Board scores is television, particularly the commercial variety. No longer even a mixed blessing, TV may represent a national disaster.

Sandy Power Santa Barbara, Calif.

Drug review feedback

The Domestic Council Drug Review Task Force is to be commended for recognizing the relative individual and social innocuousness of cannabis (SN: 10/25/75, p. 263); it is unfortunate that there is no mention of the most abused drug, which destroys more individuals and poses the greatest threat to society of them all-alcohol.

Nick Cramer N. Hollywood, Calif.

Conference sponsors

In our articles on the Crop Productivity Conference held near Harbor Springs, Mich. (SN: 11/1/75, p. 279 and p. 281), we failed to mention that this was a special invitational meeting sponsored by the Charles F. Kettering Foundation and the Michigan State University Agricultural Experiment Station, with additional funds from the National Science Foundation.—Ed.

Address communications to Editor, Science News, 1719 N Street, N.W. Washington, D.C. 20036

SCIENCE SERVICE

Institution for the Popularization of Science founded 1921; a nonprofit corporation

Institution for the Popularization of Science founded 1921; a nonprofit corporation

Board of Trustees—Nominated by the AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE: Deborah P. Wolfe, Queens College of City University of New York; Bowen C. Dees, The Franklin Institute; Athelstan Spilhaus, National Oceanic and Atmospheric Administration. Nominated by the NATIONAL ACADEMY OF SCIENCES: Gerald F. Tape, Associated Universities; Allen V. Astin, Bethesda, Md.; Glenn T. Seaborg (President), University of California, Berkeley. Nominated by the NATIONAL RESEARCH COUNCIL: Gerald Holton, Harvard University; Joseph W. Berg Jr., National Research Council; Aaron Rosenthal, National Academy of Sciences. Nominated by the JOURNALISTIC PROFESSION: Edward Bliss Jr., American University; Julius Duscha, Washington Journalism Center; O. W. Riegel (Secretary), Washington and Lee University. Nominated by E. W. Scripps Trust: Milton Harris (Treasurer), Washington, D.C.; Edward W. Scripps II (Vice President and Chairman of the Executive Committee), Edward W. Scripps Trust; John Troan, Pittsburgh Press.

Director: E. G. Sherburne Jr.; Assistant Director: Dorothy Schriver; Business Manager: Donald R. Harless; Things of Science: Ruby Yoshioka.

Science News. STOR

355 **DECEMBER 6, 1975**