

SCIENCE NEWS®

A Science Service Publication
Vol. 109/January 10, 1976/No. 2
Incorporating Science News Letter

OF THE WEEK

Charm shows through	20
Ethiopian fossils	20
Superfluid pulsar	21
Breeder reactor	21
1975 comet record	22
Antisickling agent	22
Detecting diabetes	23
Metric bill signed	23
Antarctic ailment	23

RESEARCH NOTES

Behavior	24
Earth Sciences	25
Physical Sciences	25

ARTICLES

Young star outbursts	27
Coelacanth cult	28

DEPARTMENTS

Books	18
Letters	19

COVER: Coelacanths have given more to zoology than just their share of information on the evolution of land animals. These living prehistoric fish have engendered a cult, complete with poems, an opera, a protective society, die-hard explorers—and interesting research. The passion for coelacanths in the scientific world has not escaped notice by the Comoro Islanders. This postage stamp was issued in 1954, after specimen number two was hooked near one island of the emerald archipelago. See p. 28. (Photo: California Academy of Sciences)

Publisher	E. G. Sherburne Jr.
Editor	Kendrick Frazier
Senior Editor and Physical Sciences	Dietrick E. Thomsen
Senior Editor and Behavioral Sciences	Robert J. Trotter
Biomedical Sciences	Joan Arehart-Treichel
Biology/Chemistry	Janet L. Hopson
Science and Society	John H. Douglas
Space Sciences	Jonathan Eberhart
Contributing Editor/ Mathematics	Lynn Arthur Steen
Copy Editor	Michelle Galler Riegel
Art Director	Dale Appelman
Assistant to the Editor	Susan Strasburger
Books	Margit Friedrich
Advertising	Scherago Associates, Inc. 11 W. 42nd St. New York, N.Y. 10036 Fred W. Dieffenbach Sales Director

Copyright © 1976 by Science Service, Inc., 1719 N St., N.W., Washington, D.C. 20036. Republication of any portion of SCIENCE NEWS is strictly 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.

JANUARY 10, 1976

LETTERS

The Geller/Sarfatti controversy

When quantum-expert Jack Sarfatti pronounced Uri Geller's paranormal abilities "beyond the doubt of any reasonable man . . .," he stepped on the toes of quite a number of "unreasonable" people who thought Geller was a fraud *then*. Now, about a year later, in a lofty emotional quantum leap, he finds Geller no longer "of any serious interest to scientists . . ." (Letters, SN: 12/6/75, p. 355). Gee, those people's toes still hurt!

May I recommend Jack Sarfatti show his sincerity by refraining for a couple of years from statements, at least in public, in fields in which he has not yet become entirely steady?

His newly acquired expertise in stage magic, I'm sure, can be harmlessly applied in the privacy of his home, among friends, after dinner.

*Joachim Stolzenegger
Mill Valley, Calif.*

Reversing atherosclerosis

The report on cholestyramine (SN: 11/29/75, p. 340) ascribes to Rifkind the statement "this was the first evidence from primates that we could reverse atherosclerosis. . . . Now we are getting more evidence that we can do it not only with diet, but with a drug."

This apparently overlooks the work of Armstrong, Warner and Connor (CIRCULATION RESEARCH 27:59-67, July 1970, "Regression of Coronary Atherosclerosis in Rhesus Monkeys"), who reported their results two years prior to the cited experience of Wissler and his group. The finding that cholestyramine accelerates the regression of atherosclerosis is certainly an important one, and the clinical studies should provide an important corroboration of the working hypothesis of the Longevity Foundation of America, whose programs have apparently already accomplished these ends in humans ("Live Longer Now," Grosset & Dunlap, 1974, pp. xiv-xvi).

*F.R. Chamberlain
Manrise Corporation
La Canada, Calif.*

SI matters

The article "What's the latest in the SI scene? Peta, exa, gray, and becquerel" (SN: 12/6/75, p. 363) brought to my attention the

problems associated with giving new names (prefixes) to exponents of 10. One has to memorize or consult a table of prefixes in order to use them, and as ever larger or smaller numbers are used, more prefixes must be invented. Since prefixes must often be converted to exponents of 10 in order to perform computations, this conversion can be a source of error.

A simpler system would use one symbol meaning "10 to the plus" (p), and another symbol meaning "10 to the minus" (n). For example, the total amount of energy currently delivered to consumers in the United States each day would be written 1 p17 J (1×10^{17} J). Similarly, the size of a red blood cell is about 7 n6 m (7×10^{-6} m) in diameter.

*Steven W. Siegan
Detroit, Mich.*

In your editorial comments on some of the new SI units which are (shall we say) less than utopian in effect, I am surprised that you have not mentioned the change in the name of the micron.

Now, when you see the word "micrometer," you have to stop and think: Is it MICROMETER (a unit of length), or is it MICROMETER (a measuring instrument)? Or, worse yet, is the word pronounced the same in both meanings, by analogy with kilometer?

*Herbert L. Gross
South Orange, N.J.*

A big difference

Lynn Arthur Steen's article, "Computer Chess . . ." (SN: 11/29/75, p. 345) was extremely interesting and well done, but I suppose it's the teacher in me that demands that I comment on one minor point: If 10^{80} years is "only slightly less time" than 10^{90} years, a one-year subscription to SCIENCE NEWS (\$10) costs only slightly less than the U.S. defense budget (around \$100,000,000,000). One is only 10^{10} times the other!

*Karl F. Kuhn
Associate Professor of Physics
Eastern Kentucky University
Richmond, Ky.*

Titles for research grants

Both Karl T. Pflock and Philip C. Keller in replying to the interesting "Off the Beat" article "Grant Titles from History," (SN: 10/25/75, p. 266) which was a delightful spoof, missed an obvious and important point.

The scientist needs to learn to write good titles to his project proposals. A good title informs and cannot have fun made of it.

*P.M. deLaubenfels
Corvallis, Ore.*

SCIENCE SERVICE

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.