

A Science Service Publication
Vol. 100/Aug. 14, 1971/No. 7
Incorporating Science News Letter

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

Managing Editor: Kendrick Frazier

DEPARTMENTS

Aerospace: Everly Driscoll

Behavioral Sciences: Robert J. Trotter

Earth Sciences: Louise Purrett

Environmental Sciences: Richard H. Gilluly

Medical Sciences: Joan Lynn Arehart

Physical Sciences: Dietrick E. Thomsen

Copy Editor: Nadine Clement

Production: E. Cherry Doyle

Production Assistant: Esther Gilgoff

Books: Margit Friedrich

Advertising: Scherago Associates, Inc.

Circulation: Gustave T. Wescott

OF THE WEEK

- 105 Scientific evaluation of Apollo 15 begins
- 106 How a hormone is released
- 107 A neighborhood battles the automobile
Basic problems of immunity
- 108 Earthquakes and the Chandler wobble
Strengthened water pollution bill
- 110 **Physical Sciences:** Ganymede's properties; Sagittarius and silicon monoxide; High-frequency gravity waves; Ultrasonic vibrations in metal; Electrons escaping from plasmas
- 111 **Environment:** The red tide toxin; Biodegradable DDT; Paying R&D costs; Agricultural pollution

IN SCIENCE FIELDS

- 112 **Biology:** The role of trace elements
- 114 **Sociology:** Making the population behave

-
- 102 Books of the Week
 - 104 Letters to the Editor
 - 109 Films of the Week

Copyright © 1971 by Science Service, Inc.,
1719 N Street, N.W., Washington, D.C. 20036.
Republication of any portion of SCIENCE NEWS
is strictly prohibited.

SUBSCRIPTION DEPARTMENT
231 WEST CENTER STREET
MARION, OHIO 43302

Subscription rate: 1 yr., \$7.50; 2 yrs., \$13.50;
3 yrs., \$19.50. Special trial offer: 39 weeks,
\$3.97. Single copy, 25 cents. \$1.00 per year for
foreign postage. Change of address: Four to
six weeks' notice is required. Please state
exactly how magazine is to be addressed. In-
clude zip codes.

Printed in U.S.A. Second class postage paid at
Washington, D.C. Established as Science News
Letter ® in mimeograph form March 13, 1922.
Title registered as trademark U.S. and Cana-
dian Patent Offices. Indexed in last Science
News of June and December, in Reader's Guide
to Periodical Literature, Abridged Guide and
the Engineering Index. Member of Audit Bu-
reau of Circulation. UNSOLICITED MANU-
SCRIPTS will not be returned unless accom-
panied by a stamped, self-addressed envelope.

Published every Saturday by SCIENCE SER-
VICE, Inc., 1719 N St., N.W., Washington, D.C.
20036. North 7-2255. Cable Address: SCIEN-
SERV.

ADVERTISING STAFF

Director: EARL J. SCHERAGO

Advertising Sales Manager:

RICHARD L. CHARLES

Production Manager:

BONNIE F. SEMEL

Address all advertising to Scherago Associates,
11 W. 42nd St., New York, N.Y. 10036.

Sales: New York, N.Y. 10036: Herbert L. Burk-
lund, 11 W. 42 St. (212-PE-6-1858); Scotch
Plains, N.J. 07076: C. Richard Callis, 12 Unami
Lane (201-889-4873); Medfield, Mass. 02052:
Richard M. Ezequelle, 4 Rolling Lane (617-444-
1439); Chicago, Ill. 60611: John P. Cahill, Room
2107, 919 N. Michigan Ave. (312-DE-7-4973);
Beverly Hills, Calif. 90211: Winn Nance, 111 N.
La Cienega Blvd. (213-657-2772).



Trace elements can no longer be pigeonholed
as good guys or bad guys. Even some of the
classic toxic elements are being found to be
dietary essentials. See page 112. (Photo: Texas
A&M University)

SCIENCE SERVICE

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

Board of Trustees—Nominated by the American Association for the Advance-
ment of Science: **Wallace R. Brode** (Treasurer), American Chemical Society,
Washington, D.C.; **Bowen C. Dees**, The Franklin Institute, Philadelphia, Pa.;
Athelstan Spilhaus, Woodrow Wilson International Center for Scholars, Wash-
ington, D.C. Nominated by the National Academy of Sciences: **Gerald F. Tape**,
Associated Universities, Washington, D.C.; **Allen V. Astin**, National Bureau of
Standards, Washington, D.C.; **Frederick Seitz**, Rockefeller University, New York,
N.Y. Nominated by the National Research Council: **Leonard Carmichael**, Na-
tional Geographic Society, Washington, D.C.; **Jacob Rabinow**, Control Data Corp.,
Rockville, Md.; **Glenn T. Seaborg** (President), U.S. Atomic Energy Commission,
Washington, D.C. Nominated by the Journalistic Profession: **Gordon B. Fister**,
Call-Chronicle Newspapers, Allentown, Pa.; **Julius Duscha**, Washington Jour-
nalism Center, Washington, D.C.; **O. W. Riegel** (Secretary), Washington and
Lee University, Lexington, Va. Nominated by the E. W. Scripps Trust: **Milton
Harris**, Washington, D.C.; **Edward W. Scripps II** (Vice President and Chairman
of the Executive Committee), Edward W. Scripps Trust, New York, N.Y.; **John
Troan**, Pittsburgh Press, Pittsburgh, Pa.

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