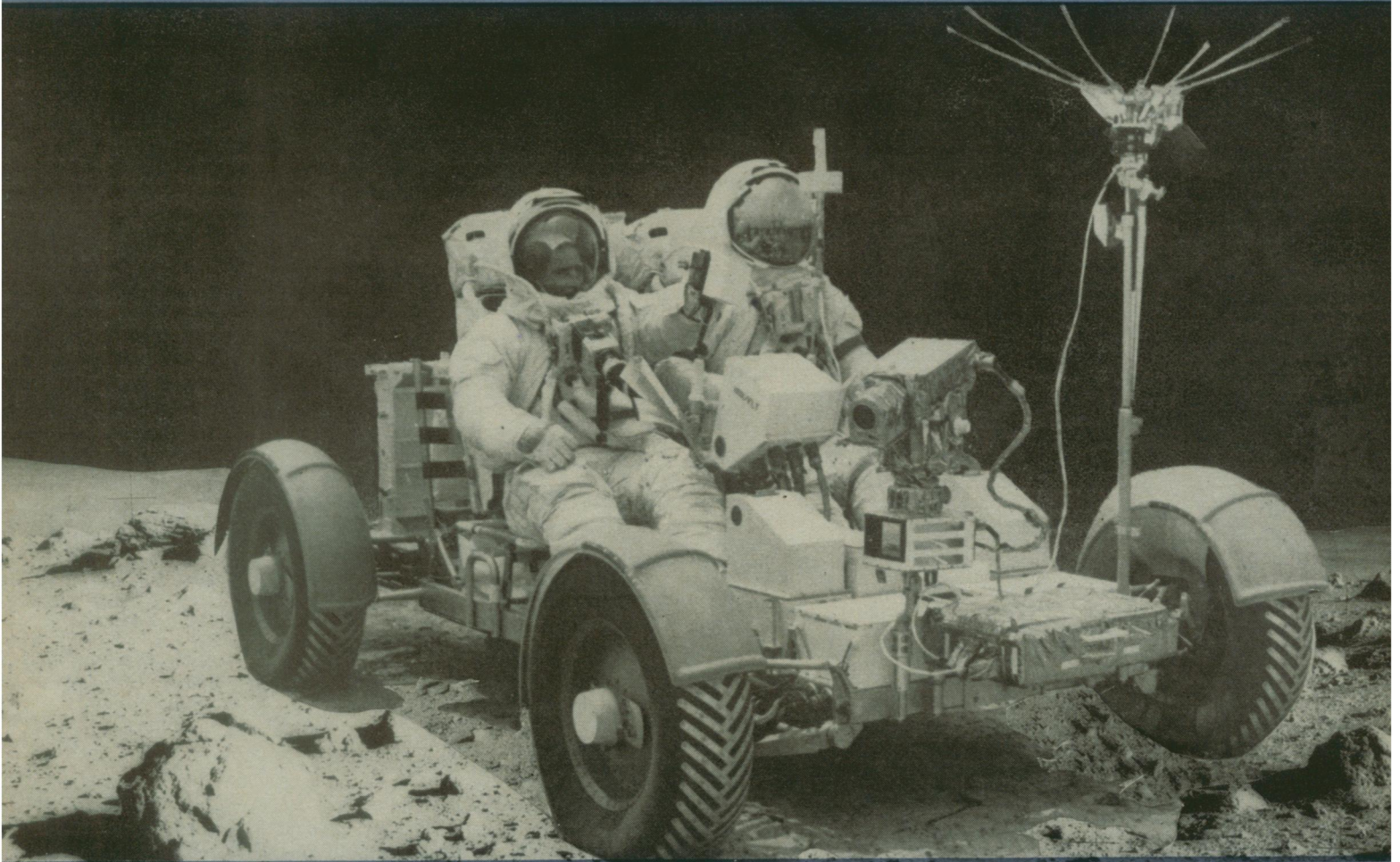


science news

June 12, 1971
vol. 99, no. 24, pp. 393-408

How grasshoppers use 2,4-D



The astronauts get a moon rover

A Science Service Publication
Vol. 99/June 12, 1971/No. 24
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. Giluly

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

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).

OF THE WEEK

- 397 Choosing the last moon-landing sites
- 398 Hominid evolution in Africa
- 399 Deep-sea drilling: Results of 17
Deep-sea drilling: Future plans
Soyuz II joins Salyut
- 400 Assessing acupuncture
- 401 Breeder reactors meet the public
- 394 **Environment:** Death and carbon monoxide; Primitive artifacts better
designed; Underground gypsum scrubbers; Monopoly and the energy
crisis
- 402 **Earth Sciences:** The mid-Atlantic's fracture zones; Fluctuations in
the earth's rotation; Origin of Pacific Islands; Mystery of the Mediter-
ranean's formation; Bringing down a tree dwelling dinosaur
- 403 **Aerospace:** Manmade moon rumble postponed; Magma in the moon;
Uncertainty about moon gas; Earth's bow wave brushes the moon

IN SCIENCE FIELDS

- 404 **Aerospace:** Moon buggy for Apollo 15
- 406 **Environment:** Insect conversion of 2,4-D

-
- 396 Letters to the Editor
 - 407 Books of the Week
Films of the Week
-



During next month's Apollo 15 mission, the
astronauts will introduce use of a sophisticated
new moon rover. The vehicle should enable
the men to explore up to 28 square miles of
the lunar surface near Hadley Rille and the
Apennine Mountains. See p. 404. (Composite
from NASA photos)

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: **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**, Cam-
bridge, 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 Pro-
fession: **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; **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.