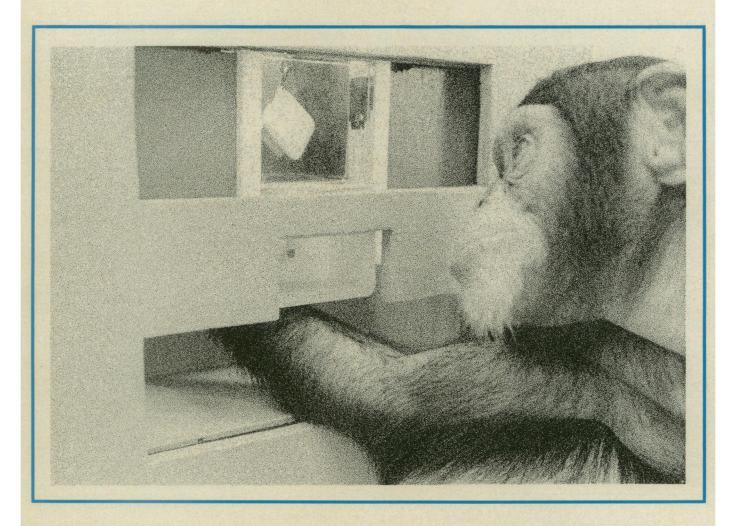
May 6, 1972 vol. 101, no. 19, 289-304



Fiftieth Anniversary 1922-1972

Apollo 16 orbital data
Tenth planet hypothesized
Reorganization of NRC
Combating immune rejection



Learning how to compare sight and touch

science news®

Fiftieth Anniversary 1922-1972

A Science Service Publication Vol. 101/May 6, 1972/No. 19 Incorporating Science News Letter

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

Editor: Kendrick Frazier

DEPARTMENTS

Aerospace: Everly Driscoll

Behavioral Sciences: Robert J. Trotter

Earth Sciences: Louise A. 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 Manager: Lawrence L. Cope

Copyright © 1972 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. \$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. Include 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 Canadian Patent Offices.

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

ADVERTISING STAFF Director: EARL J. SCHERAGO

Advertising Sales Manager: RICHARD L. CHARLES

Sales Director: FRED W. DIEFFENBACH

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. Burklund, 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 III. 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

292 Apollo 16: Now for the orbi

293 Doubt about Sadeh's gravity waves A possible planet beyond Pluto

294 NAS: Reorganization, rethinking

Toward selective immunosuppression AMA asks halt on embryo implants

296 APA reformists elect a moderate Congress, NSF and science education

297 Physical Sciences: Solar neutrinos still mysterious; Nuclei with holes in the middle; Dual structure in lithium 6; Polarization of the Crab nebula X-ray source; An X-ray nova

298 Biological Sciences: Repair of DNA in irradiated tumor cells; Light and the repair of DNA; When viruses fight over a cell; Antibodies and cancer viruses; How mice resist leukemia virus; Viruses that erode cell membranes

IN SCIENCE FIELDS

299 Psychology: Learning how to compare the senses

300 Astronomy: The future is with vidicon tubes

302 Physiology: Growth problems and the hypothalamus

290 Letters to the Editor Films of the Week

303 Books of the Week



Apes at the Yerkes Regional Primate Center have successfully been taught to compare inputs from the senses of sight and touch. Study of this capability in cross-modal integration allows insights into learning mechanisms and may have implications for reading disabilities in humans. See p. 299. (Photo: Yerkes)

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: Bowen C. Dees, The Franklin Institute; Athelstan Spilhaus, Woodrow Wilson International Center for Scholars. Nominated by the NATIONAL ACADEMY OF SCIENCES: Gerald F. Tape, Associated Universities; Allen V. Astin, National Bureau of Standards; Frederick Seitz, Rockefeller University. Nominated by the NATIONAL RESEARCH COUNCIL: Gerald Holton, Harvard University; Jacob Rabinow, National Bureau of Standards; Glenn T. Seaborg (President), University of California at Berkeley, Nominated by the JOURNALISTIC PROFESSION: Norman Cousins, "World"; Julius Duscha, Washington Journalism Center; O. W. Riegel (Secretary), Washington and Lee University. Nominated by the 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; Staff: Youth Division: Max C. McLean; Things of Science: Ruby Yoshioka.