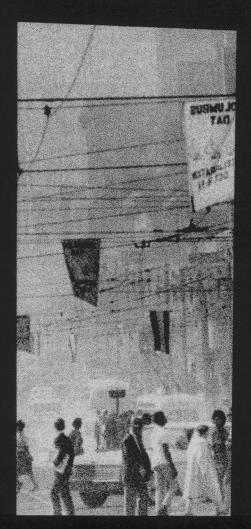
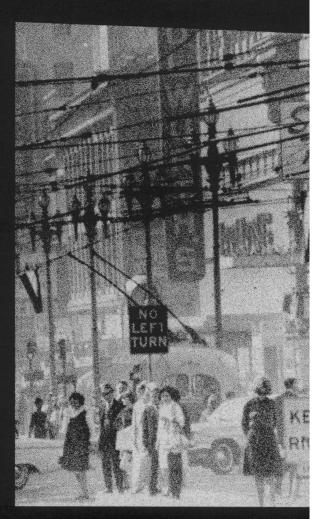
May 20, 1972 vol. 101, no. 21, 321-336

Fiftieth Anniversary 1922-1972

Pinpointing chemicals of memory Examining the pipeline decision Wraps off laser-fusion research







Urban transportation: Groundwork for change

## science news

Fiftieth Anniversary 1922-1972

A Science Service Publication Vol. 101/May 20, 1972/No. 21 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 Arehart-Treichel

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

325	The environment: A week of decisions—
	Pipeline approved, ecologists object
	Emissions extension refused, automakers object

327 Psychologists draft ethical guidelines

328 Unsuspected progress in laser fusion Moon meteorite, Descartes soil, Shuttle vote

329 Physical Sciences: Measuring atmospheric hydroxyl; Dyes for lasers; High-pressure CO<sub>2</sub> lasers

Space Sciences: Go-ahead on space telescope; U.S. and soviet space scientists meet; Effects of zero gravity on convection

330 Environment: Biodegradable PCB's; Agricultural dust levels; Gross

Natural Sciences: Cold water and thirst; Thermal pollution and trout migration; Homing in on pigeon homing

331 Behavioral Sciences: Stress and testosterone; Alpha waves are boring; A heroin-maintenance experiment

**Medical Sciences:** MIF and transplant rejection; An anti-pregnancy antibody; Smoking, platelets and thrombosis

## IN SCIENCE FIELDS

332 Transportation: Changing attitudes toward urban mass transit

334 Endocrinology: Learning and memory chemicals

322 Books of the Week

324 Letters to the Editor



The groundwork is being laid for fundamental changes in the urban transportation systems in the United States. The most recent signs of change are a new National Academy of Engineering report and an attempt by Administration officials to divert highway money to mass transit. See p. 332. (Photos: DOT/Design: E. Cherry Doyle)

## 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"; Juliu 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.