

# science news

June 27, 1970 **25c**  
Vol. 97, No. 26, pp. 607-638

Radar meteorology  
Hydrogen as a metal  
The stars in July  
Semiannual index

**pulsar crusts and quakes**



Wisps in the Crab nebula became active at the time the nebula's pulsar experienced a sudden increase in pulsation rate. The coincidence led to one of several theoretical attempts to explain pulsar speed-ups. See p. 626. (Photo: Lick Observatory)

A Science Service Publication  
Vol. 97/June 27, 1970/No. 26  
Incorporating Science News Letter

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

Editor: Warren Kornberg

Managing Editor: Carl Behrens

### DEPARTMENTS

**Aerospace:** Everly Driscoll

**Behavioral Sciences:** James Moriarty

**Chemistry and Engineering:** Edward Gross

**Earth Sciences:** Kendrick Frazier

**Environmental Sciences:** Richard H. Gilluly

**Life Sciences:** Barbara J. Culliton

**Physics and Astronomy:**  
Dietrick E. Thomsen

**Copy Editors:** Nadine Clement  
Faye Marley

**Production:** Robert Trotter

**Production Assistant:** Maureen Gearty

**Books:** Margit Friedrich

**Editorial Assistant:** Esther Gilgoff

**Advertising:** Scherago Associates, Inc.

**Circulation:** Marcia Nelson

- 611 Virus in human cancer
- 612 Ph.D.'s in high school
- 613 Oceans and peace  
Diminishing DDT
- 614 Water supplies at fault  
Agreement on patents
- 615 Return of Soyuz  
Science Newsbriefs: CERN accelerator; AMA; Hospital construction;  
Fermi award; Lead tax
- 608 **Earth Sciences:** Stratospheric humidity; Rotation of Sardinia; Tornado  
study; Mexican Gulf probe; Earth tides and geysers
- 617 **Physical Sciences:** Hydrogen cyanide in space; Quark hunt; Corona  
emissions; Los Alamos beam; Pigeonite in Vesta; Unsuccessful meson  
search
- 618 **Life Sciences:** Enzyme function; Antibiotics in feeds; Quality grains;  
Cancer test
- 619 **Medical Sciences:** Leukemia treatment; Promethium-powered pace-  
maker; Combination drug for burns; Oral bacteria; Antihistamines for  
hangovers
- 620 **Environmental Sciences:** Symbiosis and protein; Prohibited pesticides;  
Russian pollution control; Fish with the bends; Wasps versus weevils

### FROM ABROAD

- 630 **Letter from Ottawa:** Reviewing drug laws

### IN SCIENCE FIELDS

- 621 **Meteorology:** Understanding atmospheric turbulence
- 623 **Engineering:** Search for metallic hydrogen
- 626 **Astrophysics:** Changes in pulsar rates
- 629 **Astronomy:** Venus and Jupiter shine

- 
- 616 Films of the Week

- 610 Letters to the Editor

- 616 Books of the Week

- 628 New Products

### SCIENCE SERVICE

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

**Board of Trustees**—Nominated by the American Association for the Advancement 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**, Cambridge, 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 Profession: **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; **Ludwell Denny**, Monterey, Calif.; **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.