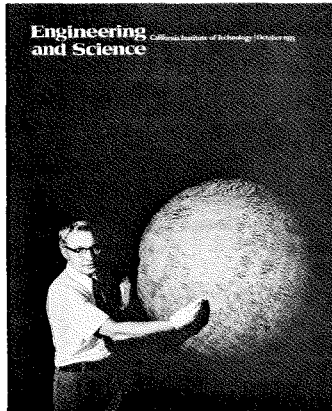


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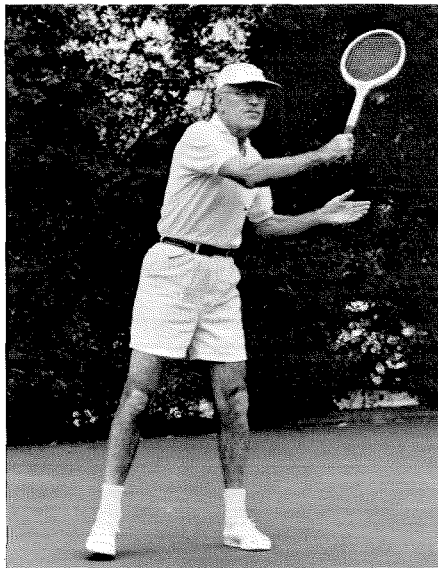
New Worlds

On the cover—JPL's latest answer to the problem of how to mount and display prize photographs. "Martian Map Makers" (page 8) tells how, under the direction of project scientist Elmer Christensen, some of the more than 7,000 Mariner 9 pictures of Mars are being used to produce scientifically accurate and esthetically exciting global maps of our neighboring planet.

Old Times

One feature of the annual faculty dinner on May 10 was Ernest Swift's nostalgic reminiscences of his early days at Caltech—before, in fact, it *was* Caltech. "The End of the Olden Days" (page 10) is adapted from that talk.

When Swift came to Throop College of Technology in 1919, he was a graduate student and teaching fellow in chemistry; by 1920 he had been promoted to instructor; and the promotions continued until, in 1967, he became professor of analytical chemistry, emeritus. In the interim he performed a multitude of services for the Institute, including being division chairman for five



years. Former President Lee DuBridge once described him as "a distinguished and effective teacher, who has maintained a continuous pace in effective research. And he has been an outstanding campus citizen. He inherited from Dr. Noyes a devotion to the ideals on which Caltech was founded, and he has pursued these ideals with vigor, devotion, and enthusiasm for over 40 years."

It has been 52 years now—and he's still at it.

Looking Ahead

William H. Pickering, director of Caltech's Jet Propulsion Laboratory, professor of electrical engineering, and Caltech alumnus (BS '32, MS '33, PhD '36), can speak with some authority on today's and tomorrow's technological demands upon men. On June 5 he spoke on this subject at the annual installation and awards banquet of the San Gabriel Valley section of the Institute of Electronic and Electrical Engineers. "Technology in the Waning Century" (page 15) is adapted from that talk.

Peripatetic Professor

Harrison Brown has been a member of the Caltech faculty since 1951, first as professor of geochemistry; then, after 1967, as professor of science and government as well. Since 1962 he has been foreign secretary of the National Academy of Sciences. Appropriately, he describes his current interests as problems in science and public policy, population, and the environment. "Chinese Junket" (page 28) reports some of his pertinent observations from his recent trip to China.

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PICTURE CREDITS: 5, 8, 9, 22—JPL/Cover, all others—Floyd Clark.

Published seven times each year, in October, November-December, January, February, March-April, May, and June, at the California Institute of Technology, 1201 East California Boulevard, Pasadena, California 91109. Annual subscription \$4.50 domestic, \$5.50 foreign, single copies 65 cents. Second class postage paid at Pasadena, California, under the Act of August 24, 1912. All rights reserved. Reproduction of material contained herein forbidden without authorization.
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