

GIVEN:

For every action
there is an equal
and opposite
reaction.

THEREFORE:

We never forget,
so you should
always
remember!!!

**CALTECH
ALUMNI
FUND**

Personals

1932

C. J. BREITWIESER, MS, is executive vice president and general manager of the Cubic Corp. (which he founded) in San Diego. In addition to serving on the boards of directors of the GeoAstro Corp., the Dominion Dev. Corp., and the Montana Vista Corp., he has been taking an increasingly active part in community affairs and is a member of the San Diego mayor's committee on municipal finance.

1939

STEVEN E. BELSLEY, MS '40, has been appointed chief of the biotechnology division of NASA's Ames Research Center at Moffett Field, Mountain View, California. Formerly assistant chief of the division, Belsley has been at Ames since 1942.

1941

HUGH BRADNER, PhD, writes that he is now professor of aerospace and mechanical engineering science, and research physicist in the Institute of Geophysics and Planetary Physics at the University of California at San Diego. "About the only phase of all the above I'm an expert on," he says, "is the location of U. Cal, San Diego. It is in La Jolla." His geophysics activities include putting seismometers on the ocean bottom, and in that connection he has made several trips to Pasadena to "seek wisdom from Frank Press, Francis Lehner, Wayne Miller, and other kind people at the CIT seismological laboratory."

WALLACE D. HAYES, AE '43, PhD '47, professor of aerospace engineering at Princeton University, has received the American Institute of Aeronautics and Astronautics' fourth annual research award for his leading role in the development of supersonic and hypersonic flow theory. His basic research led to efficient aerodynamics shapes proposed for supersonic aircraft. The award is given annually by the Douglas Aircraft Company.

1942

JOHN H. RUBEL, vice president and director of technical planning of Litton Industries, Inc., in Beverly Hills, has been named a member of the National Council of the National Planning Association. A former assistant secretary of defense, research and engineering with the U.S. Government, he was awarded the Meritorious Civilian Service Award in 1961 and the Distinguished Civilian Service Medal in 1963.

1947

ROBERT K. BREECE, MS '48, died in Sacramento on January 18. He was assistant engineer of design with the Califor-

nia State Division of Highways. He is survived by his wife, two children, Janice and Gary, and his parents, Mr. and Mrs. G. E. Breece of Medford, Oregon.

TING-YI LI, PhD '50, will join the faculty of the department of aeronautical and astronautical engineering at Ohio State University in Columbus this month. He has been professor of aerospace engineering at the University of Cincinnati, and before joining that faculty taught for six years at the Rensselaer Polytechnic Institute in Troy, New York. He is the author of some 35 technical papers in the field of aerospace engineering and is currently consultant to the RAND Corporation.

1949

JOHN HEATH JR. returned to the Los Angeles area last month from San Francisco to be Pacific regional manager of The American Appraisal Company. His fourth child, Mary Ann, was born in September. She is sister to Sean, 13, Kathy, 8, and David, 4.

1950

JOHN REEDS, MS '53, is newly appointed supervisor of applied research for the Mincom division of the Minnesota Mining and Manufacturing Company in Camarillo, California, and is building a new home in Thousand Oaks. He was, for 11 years, chief production engineer of Beckman Instruments.

1961

DOUGLAS SHAKEL, visiting the Caltech campus over the Christmas holidays, supplied the following news briefs about his contemporaries: THOMAS K. BJORKLUND, BS '60, was married last September and is now a geologist for the California Oil Company in Denver. MARTY KAPLAN, BS '60, is in San Francisco, married, and has two children. WENDELL W. MENDELL, BS '63, is at NASA's Manned Spacecraft Center in Houston, Texas. VINCENT HASCALL JR., BS '62, is doing research for the Rockefeller Institute in New York and recently spent some months in the back country of Colombia searching for rare orchids. JOHN L. LONG, BS '61, is a First Lieutenant in the U.S. Air Force in San Antonio, Texas, and has a year-old daughter.

1964

GEORGE E. RADKE was recently commissioned a 2nd Lieutenant in the U.S. Air Force and is being assigned to an Air Force systems command unit at Kirtland AFB, New Mexico. His unit supports the AFSC mission of research, development, and testing of Air Force planes and missiles systems.