

THE SUMMER AT CALTECH

W. B. Munro

WILLIAM B. MUNRO, trustee of the Institute, and professor emeritus of history and government, died at his home in Pasadena on September 3. He was 82 years old.

One of the early organizers of the Institute, Dr. Munro was a nationally-known authority on history and government. He was the author of 26 books used in colleges here and abroad.

Born in Almonte, Ontario, Canada, he got his BA, MA, and LLB degrees at Queen's University in Kingston, Ontario, then went on to take MA and PhD degrees at Harvard. For three years he taught history and political



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science at Williams College in Williamstown, Massachusetts, then joined the faculty at Harvard, where he remained for 24 years.

He was Jonathan Trumbull Professor of history and government at Harvard, and chairman of the department of history, government and economics, when he came to spend a sabbatical year in Pasadena in 1925 and, at the invitation of R. A. Millikan, agreed to divide his time between Harvard and Caltech.

In 1927 he became a member of the Institute's Executive Council, and in 1929 came to devote his full time to Caltech. In addition to teaching, he made plans, let contracts, and supervised construction of most of the buildings on campus. He became a member of the Institute Board of Trustees in 1945, and served as treasurer of the Institute from 1945 to 1954.

Besides serving as a director of a number of business organizations, Dr. Munro was a trustee of Scripps College, Claremont College, the Huntington Library and the Huntington Memorial Hospital.

Ruth Tolman

MRS. RUTH TOLMAN, psychologist and widow of Dr. Richard Tolman, died at her home in Pasadena on September 18. She was 64 years old.

Mrs. Tolman and her late husband were extremely active in the development of the Institute, which Dr. Tolman joined in 1921 as professor of physical chemistry and mathematical physics. He served as dean of the graduate school from 1934 to 1946. After his death in 1948 Mrs. Tolman established the Richard Chace Tolman Fellowship in theoretical physics in his honor.

Mrs. Tolman was a director of the American Psychological Association and served on its committee on professional and scientific ethics. She had been president of the Western Psychological Association, and was a director of the American Board of Examiners in Professional Psychology. She was also on the staff of the

Mental Hygiene Clinic of the Veterans Administration, and was their consultant on training staff psychologists.

She served on a number of California State committees, including the Governor's Advisory Committee on Mental Health. During the war she served with the Office of Price Administration, the Office of War Administration, and the Office of Strategic Services.

New Director

FRANK PRESS, professor of geophysics, is the new director of Caltech's Seismological Laboratory, succeeding Beno Gutenberg, who retired this summer (p. 23). Dr. Press, who is 32, has been a member of the laboratory staff since 1955. He was formerly associate professor of geophysics and a member of the research staff of the Lamont Geological Observatory at Columbia University.

Faculty Changes

NEW MEMBERS of the Institute's staff of instruction and research for 1957-58 include:

Fred C. Anson, instructor in chemistry, who received his BS here in 1954 and his PhD from Harvard this June.

Halton C. Arp, staff member of the Mount Wilson and Palomar Observatories, from Indiana University, where he has been a research associate in astronomy since 1955. He received his BA from Harvard in 1949 and his PhD from Caltech in 1953.

George M. Brown, senior research fellow in chemistry, on leave from the University of Maryland, where he is associate professor. Dr. Brown, who is at Caltech on a National Science Foundation Fellowship, received his BA and MS degrees at Emory University in Georgia and his PhD at Princeton in 1949.

James C. Findley, instructor in history, is at Caltech on a part-time basis while working for his PhD at Claremont Graduate School. He received his BA and MA from Occidental College and has been a member of the faculty at Fullerton Junior College for the past two years.

Ludwig E. Fraenkel, visiting assistant professor of aeronautics, from Imperial College in London, England, where he has been a lecturer in aeronautics since 1953.

Joel Franklin, associate professor of applied mathematics, from the ElectroData Corporation, where he was senior mathematician.

Milton Gordon, associate director of the Management Development Center of the Industrial Relations Section, from Marquette University in Milwaukee, Wisconsin, where he has been associate director of The Management Center for the past four years.

Brian F. Gray, A. A. Noyes research fellow in chemistry, from Manchester University in England, where he received his BSc in 1954, his MSc in 1956, and his PhD in 1957.



Ruth Tolman

Fred Hoyle, visiting professor of astronomy for one full term each year on a five-year appointment, from St. John's College and Cambridge University in England, where he is a lecturer in mathematics.

Eugene Jansen, research associate in biology, from the Albany, California, branch of the Agricultural Research Service of the U.S. Department of Agriculture, where he is head of the fruit processing section.

Leland H. Jenks, visiting professor of history, from Wellesley College, where he has been a member of the faculty for 27 years.

Edward L. King, senior research fellow in chemistry, on leave of absence from the University of Wisconsin, where he is associate professor. Here on a Guggenheim Fellowship, Dr. King is a graduate of the University of California, where he received his PhD in 1945.

Dennis V. Long, instructor in civil engineering, received his BS in 1949 and his MS in 1955 from Caltech, and is working for his PhD here.

Major Francis R. MacKenzie, assistant professor of air science, from Rhein Main, Germany, where he has served as control officer with the Military Air Transport Service since 1954.

Jon Mathews, instructor in physics, who received his PhD here this June.

Walter E. Meyerhoff, senior research fellow in physics, from Stanford University where he is associate pro-

fessor. Dr. Meyerhoff received his PhD at the University of Pennsylvania in 1946.

E. Mollo-Christensen, senior research fellow in aeronautics, from MIT, where he is assistant professor of aeronautical engineering. Dr. Mollo-Christensen received his MS in 1949 and his ScD in 1954 from MIT. A native of Norway, he was senior scientific officer of the Norwegian Defense Research Establishment at the University of Oslo for two years.

John H. Richards, assistant professor of chemistry, from Harvard, where he was an instructor in chemistry. Dr. Richards received his BA in 1951 and his PhD in 1955, from the University of California. He received his MA from Oxford in 1953, when he was a Rhodes Scholar there.

Robert L. Sinsheimer, professor of biology, from Iowa State College, where he has been a member of the faculty since 1949. Dr. Sinsheimer was graduated in 1941 from MIT, where he served as a staff member of the radiation laboratory from 1942 to 1946 and received his PhD in 1948.

Dwight M. Smith, instructor of chemistry, from Pennsylvania State University, where he received his PhD in June.

John Todd, professor of mathematics, from ten years with the National Bureau of Standards in Washington, D.C. Professor Todd received his BS from Queen's University in Ireland in 1931. His wife, *Olga Taussky Todd*, is also at Caltech, as a research associate. She is known as one of the world's leading women mathematicians.

C. H. E. Warren, senior research fellow in aeronautics, from England, where he is senior member of the scientific staff of the Royal Air Force Establishment. He received his BA in 1940 and his MA in 1944 from Trinity College in Cambridge.

Charles P. Wells, research associate in mathematics, from Michigan State University where he has been professor of mathematics since 1938.

The following promotions have been made in the Caltech faculty for 1957-58.

TO PROFESSOR:

Norman R. Davidson—Chemistry

Robert V. Langmuir—Electrical Engineering

Frank E. Marble—Jet Propulsion and Mechanical Engineering

Stanford S. Penner—Jet Propulsion

J. Harold Wayland—Applied Mechanics

Charles H. Wilts—Electrical Engineering

TO ASSOCIATE PROFESSOR:

Alfred C. Ingersoll—Civil Engineering

Theodore Wu—Applied Mechanics

Caleb W. McCormick, Jr.—Civil Engineering

TO SENIOR RESEARCH FELLOWS:

Saul Kaplun—Aeronautics

George T. Skinner—Aeronautics

S. R. Valluri—Aeronautics

William Willmarth—Aeronautics

Justine Garvey—Chemistry

TO ASSISTANT PROFESSOR:

Calvin H. Wilcox—Mathematics

ON LEAVE OF ABSENCE:

Gunnar Bergman, assistant professor of chemistry and mechanical engineering, for a year of study at the Max Planck Institute in Stuttgart, Germany, and the University of Innsbruck, Austria, on a Guggenheim Fellowship.

Leverett Davis, Jr., Professor of theoretical physics, to conduct research on the origin of cosmic rays and magnetic fields in astronomy at the Max Planck Institute for Physics in Göttingen, Germany, on a National Science Foundation Fellowship and a Fulbright travel grant.

Renato Dulbecco, professor of biology, to study the problems of RNA chemistry and structural function at the Molteno Institute and the Cavendish Laboratory at Cambridge University in England.

Ray Owen, professor of biology, for one year as a research participant in the biological division of the Oak Ridge National Laboratory.

Ernest H. Swift, professor of analytical chemistry, to study freshman college courses in general chemistry at other institutions, on a Guggenheim Foundation grant.

Alvin V. Tollestrup, assistant professor of physics, to Geneva, Switzerland, for one year, where he will be working with the European Council for Nuclear Research, on a National Science Foundation Fellowship.

Cornelis A. G. Wiersma, professor of biology, to the University of Cambridge in England, for one year, as visiting professor of zoology, on a Guggenheim Fellowship.

H. Dan Piper, associate professor of English, to Burlington, Vermont, to complete a biographical study of F. Scott Fitzgerald, on a Guggenheim Fellowship.

DEPARTURES:

Peter Kyropoulos, associate professor of mechanical engineering, left this summer to assume a new post as executive in charge of technical development of General Motors Styling in Detroit, Michigan. After receiving his BS from the University of Göttingen, Germany, in 1936, Dr. Kyropoulos came to Caltech, where he got his MS in 1938 and PhD in 1948. He has been on the Caltech faculty since 1943.

Richard S. Schweet, senior research fellow in biology, to the City of Hope Medical Center in Duarte, California, where he will be chief of the section of cardiac chemistry.

John L. Stewart, associate professor of electrical engineering, to the University of Southern California where he is an associate professor.