

The Summer at Caltech

Caltech Lecture Series

Caltech's Friday Evening Demonstration Lectures become the Caltech Lecture Series this year. The talks will be given on Monday evenings in the new 1200-seat Beckman Auditorium. Opening the series on October 12 is Professor Earnest Watson, former dean of the Caltech faculty and professor emeritus of physics, who originated the Demonstration Lectures in the early 1920's. Dean Watson will give his "Liquid Air" demonstration, which has probably been the most popular of all the Institute's public lectures.

The Friday Evening Demonstration Lectures, which grew out of Caltech's freshman and sophomore physics courses, were originally given at the request of local high school teachers who wanted to keep up to date on new developments in the field. To give a broader picture of the research at Caltech, biologists, geologists, engineers, chemists, and others were gradually added to the series.

Anniversary

Caltech's Industrial Relations Center celebrated its 25th anniversary on September 17 with a conference in Beckman Auditorium, followed by a dinner at the Biltmore Hotel in Los Angeles.

President L. A. DuBridge gave the welcoming address at the conference and the principal speakers were Dr. Simon Ramo, board vice chairman of Thompson Ramo Wooldridge, Inc., president of the Bunker-Ramo Corporation, and a Caltech trustee; Dr. Mason W. Gross, president of Rutgers University; and J. W. Hull, vice president-operations, Pacific Telephone and Telegraph Company.

At the dinner meeting, the work of the Center was reviewed by Howard G. Vesper, president of the

Standard Oil Company of California, Western Operations, Inc., and a graduate of Caltech (1922); Ernest J. Loebbecke, chairman of the board and chief executive officer of the Title Insurance and Trust Company; James F. Davenport, executive vice president of the Southern California Edison Company; and Philip S. Fogg, chairman of the board of Consolidated Electrodynamics Corporation, and vice chairman of the board of the Bell and Howell Company. Speaker of the evening was Lawrence A. Appley, president of the American Management Association.

Trustees and Associates

Simon Ramo, vice chairman of the board of directors of Thompson Ramo Wooldridge, and research associate in electrical engineering at Caltech, has been elected to the Institute's Board of Trustees. Dr. Ramo, who received his PhD from Caltech in 1936, is the third alumnus to become a Caltech trustee.

Samuel F. Bowlby, vice president-production of the Shell Oil Company in Los Angeles, succeeds Simon Ramo as president of the California Institute Associates. Added to the Associates' board of directors: J. Stanley Johnson, Caltech '33, MS '34, vice president of the A.S.D. Corporation in Altadena; John R. McMillan, '31, president of the Reserve Oil and Gas Company in Los Angeles; Ruben F. Mettler, '44, MS '47, PhD '49, president of the Space Technology Laboratories in Redondo Beach; Roy L. Ash, president of Litton Industries, Inc., in Beverly Hills; William H. Burgess, president of the Electronic Specialty Company in Los Angeles; and John C. Cosgrove, of Marsh and McLennan, Inc., in Los Angeles.

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Leonard S. Lyon

Leonard S. Lyon, a trustee of the California Institute of Technology since 1950, died of pneumonia on August 13. He was 68. Senior member of the legal firm of Lyon and Lyon in Los Angeles, he specialized in patent and antitrust cases. Mr. Lyon served as president of the California Institute Research Foundation, a member of the Caltech Associates, a director of the Stanford Research Institute, and an active contributor to the Caltech Development Fund.

Frederick Hanley Seares

Frederick Hanley Seares, former assistant director of the Mount Wilson Observatory, died in Honolulu on July 20 at the age of 91.

From 1909 to 1925, Dr. Seares was superintendent of the computing division and editor of publications of the Mount Wilson Observatory. In 1925 he became assistant director and retired in 1940 to become research associate. His most important astronomical work dealt with the precise measurement of the brightness and colors of the stars, and of their distribution in the galaxy. He also contributed to the investigation of the orbits of comets and the measurement of the sun's magnetic field.

Honors and Awards

President L. A. DuBridge is the 1964 nominee for "Eminent Membership" in Eta Kappa Nu, the national electrical engineering honor society. The award is made annually to an outstanding American who has made a significant contribution to electrical engineering.

William H. Pickering, director of Caltech's Jet Propulsion Laboratory, was elected president of the International Astronautical Federation at its 15th annual congress in Warsaw, Poland, last month. The election was by acclamation.

Alfred Stern, professor of philosophy and languages at Caltech, has been elected president of the American Philosophical Association, Pacific Division, for 1964-65.

Changes In Administrative Staff

HORACE W. BABCOCK is now director of the Mount Wilson and Palomar Observatories. A 1934 graduate of Caltech, he has been a member of the Observa-

tory staff since 1946, and was named associate director in 1963.

IRA C. BECHTOLD has been appointed patent officer of the Institute and executive secretary of its affiliate, the California Institute Research Foundation. A 1930 graduate of Caltech, Mr. Bechtold has been a private consultant for plant location, raw materials evaluation, and process selection, since 1952.

WARREN G. EMERY is now director of physical education and athletics. He came to Caltech as a coach in 1955 and became assistant director in 1963.

JAMES N. EWART is now secretary of the Board of Trustees. He has been at Caltech since 1946, when he came to set up a personnel department, and has served as director of personnel since then.

MAJOR GENERAL ALVIN R. LUEDECKE, USAF (RET.) has been appointed deputy director of the Jet Propulsion Laboratory. He was formerly general manager of the Atomic Energy Commission.

RICHARD MULLIGAN is director of personnel at Caltech after a year as assistant. He came from the University of California at San Diego, where he served as assistant personnel director.

JOHN B. WELDON has been appointed Registrar at Caltech. He was formerly administrative dean for student personnel at Pasadena City College.

Faculty Changes 1964-1965

PROMOTIONS

To Professor:

CLARENCE R. ALLEN — *Geology and Geophysics*
DONALD E. COLES — *Aeronautics*
HAROLD LURIE — *Engineering Science*
J. BEVERLEY OKE — *Astronomy*
C. J. PINGS — *Chemical Engineering*
MAARTEN SCHMIDT — *Astronomy*

To Associate Professor:

DON L. ANDERSON — *Geophysics*
PAUL J. BLATZ — *Materials Science*
DAVID BRAVERMAN — *Electrical Engineering*
SUNNEY I. CHAN — *Chemical Physics*
EVERETT C. DADE — *Mathematics*
STEVEN C. FRAUTSCHII — *Physics*
FLOYD B. HUMPHREY — *Electrical Engineering*
STEWART W. SMITH — *Geophysics*
HUGH F. TAYLOR — *Geology*

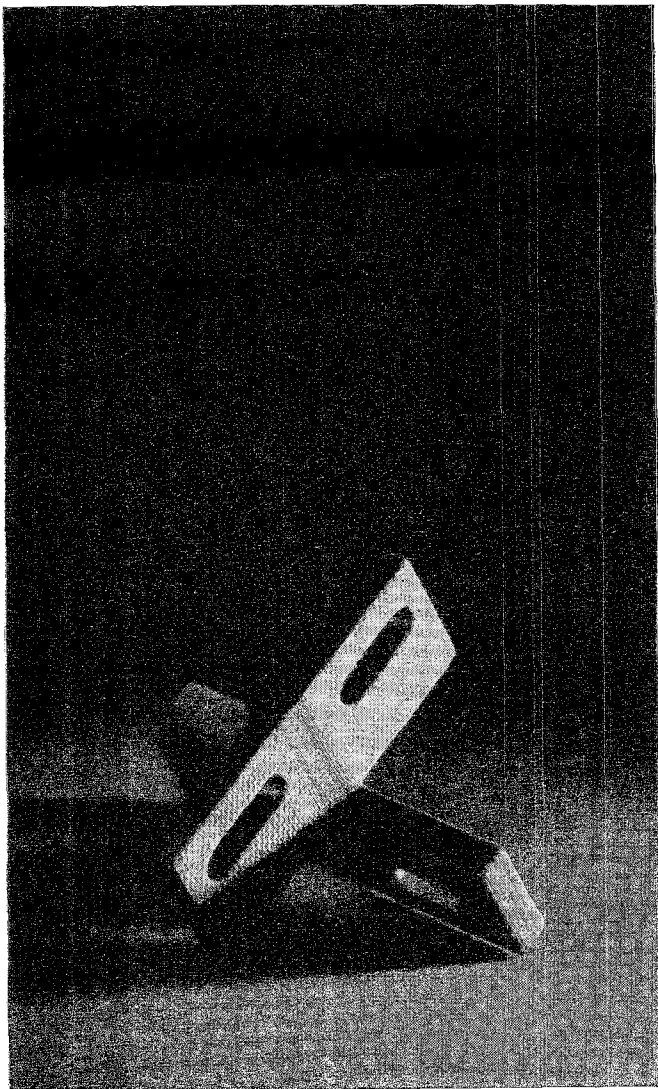
To Senior Research Fellow:

ARI BEN-MENACHEM — *Geophysics*
EGBERT KANKELEIT — *Physics*

To Assistant Professor:

A. L. GRAM — *Environmental Health Engineering*
ROBERT L. KOVACH — *Planetary Science*

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NEW FACULTY MEMBERS

- BORIS AUKSMANN**, assistant professor of engineering design, who received his PhD from Caltech in June.
- GILES COKELET**, assistant professor of chemical engineering, from MIT, where he was assistant professor of chemical engineering. He received his BS in 1957 and his MS in 1958 from Caltech.
- GEORGE R. GAVALAS**, assistant professor of chemical engineering, from the University of Minnesota, where he received his PhD this year.
- WILFRED IWAN**, assistant professor of applied mechanics, from the U.S. Air Force Academy in Colorado Springs, where he was associate professor of mechanics. He received his BS in 1957, his MS in 1958, and his PhD in 1961 from Caltech.
- DANIEL J. KEVLES**, assistant professor of history, from Princeton University, where he received his PhD in 1964.
- PHILIP G. SAFFMAN**, professor of fluid mechanics, from King's College, London University, where he was a reader in applied mechanics.
- MIKLOS SAJBEN**, assistant professor of aeronautics, who received his ScD in magnetohydrodynamics at MIT in June.
- THAYER SCUDDER**, assistant professor of anthropology, from Harvard University, where he was a research fellow.
- ELI STERNBERG**, professor of applied mechanics, from Brown University, where he was professor of mechanics.
- FELIX STRUMWASSER**, associate professor of biology, from the Walter Reed Army Institute of Research in Washington, D.C., where he was research associate in the department of neurophysiology and in the Washington School of Psychiatry.
- AMNON YARIV**, associate professor of electrical engineering, from the Watkins-Johnson Company in Palo Alto, where he was head of optical systems.
- HAROLD ZIRIN**, professor of astrophysics, from the High Altitude Observatory at the University of Colorado, where he was research associate. He also served as associate professor of astronomy at the University.
- GEORGE ZWEIG**, assistant professor of theoretical physics, from a year at the theoretical division of CERN in Switzerland. He received his PhD from Caltech in 1963.

RESIGNATIONS

- EGON T. DEGENS**, assistant professor of geology, to the Woods Hole Oceanographic Institution in Massachusetts.
- OLIN J. EGGEN**, professor of astronomy and staff member of the Mount Wilson and Palomar Observatories, to the Royal Greenwich Observatory in Sussex, England.
- ARTHUR ERDELYI**, professor of mathematics, to the University of Edinburgh, where he will head the department of mathematics.
- GEORGE B. LANGDON**, assistant professor of history, to Vassar College.
- PAUL A. LONGWELL**, associate professor of chemical engineering, to the Von Karman Center at Aerojet-General Corporation in Azusa, where he is a member of the corporate staff.
- RUDOLPH L. MÖSSBAUER**, Nobel Laureate and professor of physics, to the Institute of Technology in Munich, where he holds a chair in experimental physics.
- CUSHING STROUT**, professor of history, to Cornell University.