

Personals

1922

LINNE C. LARSON has retired as executive officer of the Los Angeles Regional Water Pollution Control Board, State of California, after 15 years of service. He and his wife, Ruth, live in Glendale, and plan to do some traveling.

CLYDE R. KEITH has resigned after four and a half years as assistant director of audiovisuals for the Presbyterian Board of National Missions. This is Keith's second retirement. In 1961 he left the Bell System after 38 years with Bell Telephone Laboratories and Western Electric. He plans to do consulting work in sound recording, particularly for Recording for the Blind in New York City.

1924

MAURICE B. ROSS retired last spring after nearly 40 years of service with the San Diego city schools. During that period he served at various times as teacher, research assistant, secretary of the board of education, and, for the past 21 years, as principal of the Sherman Elementary School.

1927

THOMAS S. SOUTHWICK, MS '29, is in Bangkok working with the Meteorological Department of Thailand for the United Nations - World Meteorological Organization, according to news from CHAROEN CHAROEN-RAJAPARK '47 (see Personals under 1947).

1928

FRANCIS NOEL and his wife have been traveling in Europe since May, visiting England, France, Germany, Switzerland, Austria, Czechoslovakia, Denmark, Sweden, Norway, and Holland. They expect to tour the Mediterranean before winter, and possibly to be in Australasia for Christmas.

CARL F. RENZ, MS, has moved to San Marcos, Calif., after retiring in April from The Ohio River Division Laboratories in Cincinnati, where he was a structural engineer.

1929

CHARLES A. BOSSERMAN is working on the 707 design project for the Boeing Company in Renton, Washington. Active in political, interracial, and anti-poverty work, he is also consultant for the Central Area Business Enterprises (CABE) of Seattle, an organization which helps provide jobs for residents of the city.

1931

ABRAHAM J. GRAFMAN has returned

to Los Angeles after nine years in Israel as technical advisor with the engineering department of the Israeli Air Force. On the homecoming trip Grafman and his wife visited Iran, India, Nepal, Thailand, and Japan. Their two sons, who married Israeli girls, remained in the Middle East.

1936

CURTIS G. CORTELYOU has recently moved to New York City to become air and water conservation coordinator for the Socony Mobil Oil Company, Inc. He has been with Mobil since 1938, most recently as general manager of operations at the Torrance refinery.

1939

CHARLES H. TOWNES, PhD, provost and professor of physics at MIT and co-winner of the 1964 Nobel Prize for physics, has been named to the board of trustees of The Rand Corporation. KENNETH S. PITZER, '35, president of Rice University, is also a member of the Rand board.

HERMAN S. ENGLANDER is a project scientist at the Naval Electronics Lab in San Diego, a job he describes as "teaching-factotum." He reports he has a daughter in high school and a married son.

1940

DOUGLAS B. NICKERSON has opened an office in Pasadena as a consultant and product designer in cryogenics and fluid flow. He was formerly at the Von Karman Center of Aerojet General Corp. in Azusa.

DONALD E. LOEFFLER, technologist at the Martinez refinery of the Shell Oil Company, writes that 1965 is the "Year of the Boy Scout" for him. With a daughter in junior Girl Scouts, and two sons in Scouting, he joined them as Scoutmaster.

LLOYD T. GOODMANSON, MS '41, is a project engineer with the Boeing Company in Seattle. His son, Mike, is a junior at Caltech, and his daughter is a sophomore at Central Washington State College in Ellensburg.

HENRY G. HOHWIESNER, JR., writes from Salem, Oregon, that his daughter is a freshman at Scripps College in Claremont, and his son will graduate from the Air Force Academy in June 1966.

DUMONT S. STAATZ, MD., FACS., is a practicing orthopaedic surgeon in Tacoma, Washington, and has five children, ages 21, 20, 18, 15, and 13.

KEITH E. ANDERSON, consultant in engineering and geology in Boise, Idaho,

recently returned from a 30-day assignment in Turkey, accompanied by his wife. On the return trip the Andersons visited their son Elliott in France, where he was spending his college junior year. The Anderson children at home are Stuart, 17, Paula, 12, and Holly, 8.

WILLIAM W. STONE, JR., MS '41, Colonel in the U.S. Army, is the commanding officer at Dugway Proving Ground in Utah.

JACK TIELROOY is a consulting chemical engineer with an office in Fullerton, Calif., although he says it is more often "aboard American Airlines or KLM." The Tielrooys celebrated their 25th anniversary this year. They have a married daughter, a one-year-old granddaughter, and three sons still in school.

DONALD H. KUPFER is associate professor of structural geology at Louisiana State University in Baton Rouge. He and his wife have a 12-year-old daughter and a 10-year-old son.

LUDWIG IVAN EPSTEIN is back in graduate school, working on his PhD degree at Ohio State University in Columbus. He recently taught at Marietta College in Ohio, and before that time at the Lowell Technological Institute in Massachusetts.

WILLIAM R. CLEVELAND, JR., MS '42, has completed his 19th year of teaching geology at the College of Sequoias in Visalia, Calif. His son graduated from Sequoias in June.

JULES F. MAYER, MS '41, is superintendent of the chemical division of the Standard Oil Company's Richmond, Calif., refinery. His oldest son is 21, and "the others range down to nine years for a total of four." On a recent trip to the Mother Lode country he visited H. JACK WHITE '40, in Placerville.

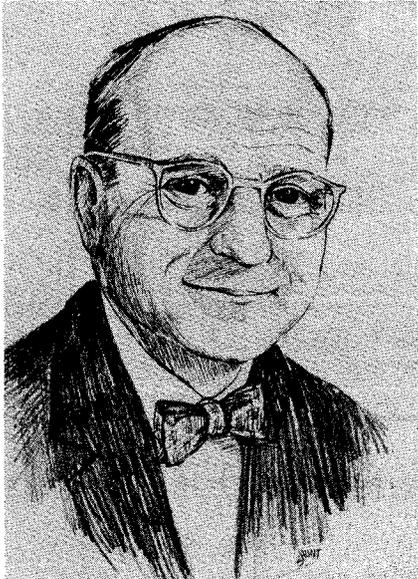
WILLIAM R. V. MARRIOTT, MS '42, Colonel in the U.S. Air Force, is Commander of the hospital at Hamilton Air Force Base in California. He was assigned there in April after 14 months in Saigon, where he managed the Air Force medical activities in Viet Nam, Thailand, Laos, and Cambodia. He succeeded in getting medical facilities out of tents and into fixed structures at six bases and he reorganized the medical staffing, supply, and administrative procedures of facilities in Viet Nam and in Thailand.

1941

ELDRED W. HOUGH, MS, PhD '43, is now assistant dean of the School of Tech-

announcing the

Donald S. Clark Alumni Award



Donald S. Clark has now been associated with Caltech for 40 years; as a student, a professor, a distinguished researcher, and a tireless member of the Alumni Association.

The *Donald S. Clark Alumni Award* will honor Don for a lifetime devoted to Caltech and its alumni.

The award will be given to undergraduates in their junior year in recognition of demonstrated leadership potential and superior academic performance without regard to other financial aid.

Alumni have set a goal for 1965-66 of \$25,000, income from which will provide the award beginning next year. All gifts will be credited through the current Alumni Fund.

Make checks payable to California Institute of Technology.

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nology of Southern Illinois University, in Carbondale. He was formerly head of the department of petroleum engineering at Mississippi State University.

JOSEPH W. LEWIS, JR., was recently elected president of the Board of Education of the San Marino, Calif. Unified School District. LEROY SANDERS, JR., '44, was elected vice president.

1942

JOHN K. DIXON is in Cleveland Clinic Hospital in Cleveland, Ohio, recovering from a kidney transplant operation. He is in continuing need of replacement blood, and friends wishing to help can contact their local Red Cross Blood Bank for donor information.

1944

THOMAS W. NORSWORTHY, president of Norsworthy-Mercer, Inc., advertising agency in Dallas, was crusade chairman of the 1965 American Cancer Society drive in Dallas county.

1945

DUDLEY B. SMITH has joined the international licensing department of the Celanese Corporation of America in New York City, after 10 years with Cluett, Peabody & Company, and Clupak, Inc. The Dudleys have four children.

HUGH S. WEST, director of training and research for the sales operation of Connecticut Life Insurance Company in Hartford, confided to his Caltech class secretary that "the last 20 years must have worn on me more like 40. My wife, on appearance at court recently for nonregistration of her car, was asked by the judge whether she was my daughter."

1947

JOHN L. MASON, MS '48, PhD '50, announces the birth of John Edward, his fourth child, third son, on July 13.

ELLIS H. BEYMER has been named manager of the Raytheon Company's Oxnard, Calif., facility, operated by the firm's missile systems division. In his 14 years with Raytheon, Beymer has been assistant manager of the NATO Hawk Support organization, manager of the flight test facility at the White Sands Missile Range, and missile system section head of the Oxnard laboratory. From 1962-64 he was an industry member of the U.S. team of national experts on NATO air defense in Paris.

CHAROEN CHAROEN-RAJAPARK, MS '48, writes from Bangkok that he has been appointed deputy director-general for technical services of the meteorological department of Thailand. He and his wife,

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Somsri, have three sons, 12, 4½ and 3½ years old.

ROBERT B. DAY, MS, PhD '51, died August 15 in a mountain climbing accident in southern Colorado. A physicist with the Los Alamos Scientific Laboratory, Day and three fellow climbers were descending 14,000-foot South Maroon Peak, when apparently one slipped and all were pulled by the safety rope down a boulder-strewn snow field for nearly 1,000 feet. One of the men survived to summon rescuers. Day leaves his wife, Jean, and five children: Deborah, 16; Margaret, 14; Robert, 10; Stephen, 9; and Charles, 7. His associates have established a memorial fund for his children's education.

1948

ALLEN T. PUDEK, MS '49, vice president of research and development of the Hughes Electronics Company of Los Angeles, recently presented a paper to the Society of Motion Picture and Television Engineers on an illuminator system, designated XTL (Xenon Twin Light), which he developed. The new system supplies up to 25 percent more usable light than equivalent wattage systems for projection of 35mm and 70mm motion pictures.

PATRICK N. GLOVER has been transferred by the Shell Oil Company to the exploration economics department in New York City, after eight years in Denver. The Glovers live in Westport, Conn., with their three sons: John, 15; Michael, 14; and David, 7.

KEITH W. HENDERSON has joined the Stanford Linear Accelerator Center as an electronics engineer, and lives with his wife, Verneice, in Mountain View.

1949

JESSE C. DENTON, MS, is chairman of the mechanical engineering department of Southern Methodist University in Dallas. He also is principal investigator for the NASA multi-disciplinary institutional grant for \$200,000.

1950

WILLIAM B. HIGGINS, Lieut. Col. in the U.S. Marine Corps, writes that he has been selected for "bird colonel" and is now at El Toro Marine Corps Base in Santa Ana, Calif. Higgins just returned from South Vietnam where he was executive officer of an aircraft attack group operating in support of Marine forces.

1952

WILLIAM W. IRWIN, secretary-treasurer of Induflux, Inc., and of Irwin Laboratories, Inc., both of Los Angeles, recently was elected to a top post in Toastmasters

International. He will serve as administrative lieutenant governor for Founder's District of the international organization.

1955

THOMAS W. NOONAN, PhD '61, professor of astronomy at the University of North Carolina at Chapel Hill, has been selected by the National Science Foundation to write a textbook on relativity from the research of his faculty advisor at Caltech, H. P. Robertson, professor of mathematical physics, who was killed in an automobile accident in 1961. The book, requested by the Air Force, will be a memorial to Robertson. Noonan, the last student to earn a PhD under Dr. Robertson, will use papers and notes from a course taught by his professor.

1956

DONALD J. SELDEEN is supervisor of the wedding rings division of J. R. Wood & Sons, Inc. He and his wife, Darlene Jacqueline, live in Corona, N.Y.

1958

HALLAN C. NOLTIMIER is senior demonstrator in physics at the University of Newcastle in England, where he recently received his PhD. He and his wife have a two-year-old son and are expecting a second child this month. Mrs. Noltmier received her MBBS last year and is now a registered Doctor of Medicine.

GORDON DAVID LANGE received his PhD in biophysics from the Rockefeller Institute in New York in June and will be a research associate there for the 1965-66 academic year. He and his wife, (Nadine Goodstein, PCC '57, honorary member of Dabney House '58), have two sons: three-year-old Douglas, and Ronald, born April 7.

1960

MARTIN A. KAPLAN, class secretary, helped plan the June 9th reunion in Los Angeles, and urged all class members who couldn't attend to let him know what they were doing. Here are some replies:

DONALD W. ANDERSON plans to teach at MIT this year. After receiving his PhD at the University of California in Berkeley in 1964, he was at Oxford, England, on a National Science Foundation aerospace fellowship, and at Harvard, doing research and study.

L. CAMERON MOSHER plans to be in Europe this year continuing work on his PhD, which he began at the University of Wisconsin in Madison. He plans to "compare my work in the Triassic of the Great Basin with the type sections of the Triassic system in Europe." Mosher is married and has a 1½-year-old daughter.

DOUGLAS R. McLANE is with the Dole

Company in Honolulu, having completed his master's program in industrial management at MIT in June. He and his wife, the former Cecelia Palmer, have a 10-month-old son, Sean Robert.

GORDON D. LONG writes that he has been with Tektronix, Inc., in Beaverton, Oregon, since 1960 and has designed everything from sampling scopes to spectrum analyzers.

ROBERT G. CHAMBERLAIN, MS '61, is a research engineer at Caltech's JPL in the systems analysis section. He married Elene Roen, "a girl I met at the ASCIT dance class." The Chamberlains have sons 3½ and 2½ years old, and a daughter 7 months.

NORMAN E. MACLEAN, JR., MS '61, is working at TRW Systems in Redondo Beach, Calif.

KEITH A. TAYLOR, MS '61, is at Tektronix, Inc. in Oregon, designing fast vertical amplifiers. He writes, "The 50mc-547, in case anybody is familiar with it, is my fault." Taylor keeps busy skiing, backpacking in the Cascades, keeping a sports car running, photographing, beer drinking and "enriching Merrill Lynch." He hears that BOB LUSHENE '61, is doing graduate work in psychometrics at the University of North Carolina in Durham, and LEE RENGER, MS '61, has been tracking missiles in Eniwetok for two years, but returned to the U.S. in August.

WILLIAM B. ARVESON, who was acting assistant professor in mathematics at UCLA this past year, is now at Harvard on a Benjamin Pierce Instructorship in Mathematics. Bill is married and has a year-old son. He was with the U.S. Naval Ordnance Testing Station in Pasadena before getting his MA and PhD degrees at UCLA (1961-64).

RONALD G. LAWLER is assistant professor of chemistry at Brown University in Providence, Rhode Island. After receiving his PhD from the University of California at Berkeley, he did two years of postdoctoral work in electron spin resonance at Columbia University in New York. The Lawlers have a 2½-year-old daughter, Jennifer.

FLETCHER I. GROSS is assistant professor of mathematics at the University of Alberta in Edmonton, Alberta, Canada.

1961

WILLIAM L. DOWD was killed on June 13 by severe blows on the head, attacked by a burglar he discovered ransacking his apartment in San Diego. He was working on his PhD at the University of California at San Diego, and was on a fellowship at the Scripps Institute of Oceanography. "He was one of the most brilliant in his field," according to Harmon Craig, as-

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sociate professor of geochemistry at the school.

BENT HULD, graduate student in physics working on his PhD at Harvard, was seriously injured in an atomic laboratory explosion in Cambridge, Mass., on July 5. He was recently released from the hospital and is now back on campus.

ELI I. CHERNOW is now associated with the Los Angeles law firm of Tuttle & Taylor, after a year at Harvard as a Frederick Sheldon Traveling Fellow

JOEL A. MICHAEL has been awarded a research fellowship by the Carnegie Corporation of New York. The grant provides for a year at the National Physical Laboratory, Teddington, England, where he will investigate the brain processes involved in vision. Since leaving Caltech, Michael has received an MS from McGill University, Montreal, Canada, and a PhD from MIT.

1962

MARC L. RENARD, AE, is in Delft, Holland, with the European Space Technology Centre of the European Space Research Organization. He reports other Caltech alumni on the staff are: JEAN A. VANDENKERCKHOVE, MS, '54; JEAN B. LAGARDE, MS '60; and RENE C. COLLETTE '63.

1963

JAMES E. McCOY writes that he is working as a physicist and also on optics at the National Space Center in Houston, and is attending Rice University on a fellowship. McCoy and his wife have a 2½-year-old daughter and are expecting a second child this fall.

1964

CHARLES F. LEONARD is studying medicine at the College of Physicians and Surgeons of Columbia University, and reports that last year he directed the school's first-year class show — a satire on the college in which 60 students participated. He is writing a book for the Denny George School in New York City — "The Applications of Land Value Taxation."

DAVID L. COLTON has begun his studies for a PhD at the University of Edinburgh. He will be working under Professor A. Erdélyi, former professor of mathematics at Caltech.

1965

RONALD REMMEL received a research assistantship at Princeton during the summer, and began work on his PhD in physics at Princeton this fall.

ALUMNI ASSOCIATION CALIFORNIA INSTITUTE OF TECHNOLOGY

Pasadena, California

BALANCE SHEET

June 30, 1965

ASSETS			
Cash in Bank			\$ 2,952.50
Investments:			
Share in C.I.T. Consolidated Portfolio	\$101,146.18		
Deposits in Savings Accounts	20,929.79	122,075.97	
Investment Income Receivable		5,506.41	
Postage Deposit, etc.		383.68	
Furniture and Fixtures, at nominal value		1.00	
<u>Total Assets</u>			<u>\$130,919.56</u>
LIABILITIES, RESERVES AND SURPLUS			
Accounts Payable			\$ 1,339.11
Deferred Income:			
Membership Dues for 1965-66 paid in advance	\$ 11,225.25		
Investment Income for 1965-66 from C.I.T.			
Consolidated Portfolio (earned during 1964-65)	5,300.06	16,525.31	
Life Membership Reserve		66,800.00	
Reserve for Directory:			
Balance, July 1, 1964	\$ 2,677.39		
1964-65 Appropriation	2,500.00	\$ 5,177.39	
1964-65 Directory Expense		133.25	5,044.14
Surplus:			
Balance, July 1, 1964	\$ 33,896.68		
Share of Profit on Disposal of Investments of C.I.T. Consolidated Portfolio for 1964-65	7,104.89		
Excess of Income over Expenses for 1964-65	209.43	41,211.00	
<u>Total Liabilities, Reserves and Surplus</u>			<u>\$130,919.56</u>

STATEMENT OF INCOME AND EXPENSES

For the Year Ended June 30, 1965

INCOME			
Dues of Annual Members			\$ 18,822.50
Investment Income:			
Share from C.I.T. Consolidated Portfolio	\$ 4,752.76		
Interest on Deposits in Savings Accounts	1,090.96	5,843.72	
Annual Seminar		5,461.45	
Program and Social Functions		3,286.95	
Miscellaneous		35.00	
<u>Total Income</u>			<u>\$ 33,449.62</u>
EXPENSES			
Subscriptions to Engineering & Science Magazine:			
Annual Members	\$ 13,170.50		
Life Members	3,188.50	\$ 16,359.00	
Annual Seminar		4,895.26	
Program and Social Functions		3,667.74	
Directory Appropriation		2,500.00	
Administration (Directors' Expenses, Postage, Supplies, etc.)		2,294.05	
Fund Solicitation		1,655.91	
Membership Committee		1,068.23	
ASCIT Assistance		800.00	
<u>Total Expenses</u>			<u>\$ 33,240.19</u>
<u>Excess of Income over Expenses</u>			<u>\$ 209.43</u>

AUDITOR'S REPORT

Board of Directors, Alumni Association, California Institute of Technology
Pasadena, California

I have examined the Balance Sheet of the Alumni Association, California Institute of Technology, as of June 30, 1965, and the related Statement of Income and Expenses for the year then ended. My examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as I considered necessary in the circumstances.

In my opinion, the accompanying Balance Sheet and Statement of Income and Expenses present fairly the financial position of the Alumni Association, California Institute of Technology, at June 30, 1965, and the results of its operations for the year then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

CALVIN A. AMES, Certified Public Accountant
1602 West Thelborn St., West Covina, California

September 28, 1965