

Personals

1920

VIRGIL BEST died in July at the age of 71, following a short illness. He was owner of the Best Machine Works in Pasadena and a retired science teacher. Best taught in Pasadena for 31 years, first at Lincoln and then at Garfield high schools, where he was head of the science department when he retired in 1953. He is survived by his wife, Marie, a son and daughter, and five grandchildren.

1926

C. Y. HSIAO works for the Chinese Government Mission in Washington, D.C., and lives with his family in Silver Spring, Md. He reports that of the four students from China who graduated in 1926, two, Y. H. HUANG and H. Y. CHANG, are "lost in the China mainland," and the third, J. C. HUANG, is a chemist in Formosa.

SEERLEY G. KNUPP writes that he has been practicing law in Whittier, Calif., since 1936. At the time of the reunion he was fishing in Baja California.

JOSEPH MATSON JR. is project coordinator for the B. P. Bishop Estate in Honolulu. He sends word that MIKE BRUNNER, '25, was in Hawaii for a month last spring.

AL SCHUELER writes that he is due to retire from his job as consulting engineer with the Westinghouse Electric Corp. in Beaver, Pa., early in 1967.

1927

GEORGE E. MOORE is professor of physics at the State University of New York at Binghamton this fall. He retired in August after 39 years with the Bell Telephone Laboratories in Murray Hill, N.Y. During his years with Bell he did research in electron tubes and oxide cathodes and, since 1950, specialized in chemical physics research. Moore and his wife have three children and two grandchildren.

1932

JAMES BRADBURN has been named division vice president and general manager of electronic data processing for the Radio Corporation of America in New York City. He is now responsible for the over-all direction of RCA's computer activities.

1935

DICKSON M. SHEPPARD has completed his assignment as director of the Good-year Technical Center in Colmar-Berg, Luxembourg, and has returned to Akron, Ohio, to await reassignment.

1936

PAUL S. JONES died in July in Pasadena. He had been a civil engineer with the California Division of Highways for the past 18 years. He is survived by his wife, three daughters, and a son.

JOHN L. WEBB, PhD '40, died last July, apparently of a heart attack, while driving to his mountain cabin at Idyllwild, Calif. Webb was chairman of the department of pharmacology in the USC School of Medicine. He had been on the faculty since 1940 and was widely known for his research in bioelectrical phenomena in relation to heart function. He was also an authority on experimental uses of drugs to block actions of enzymes in the heart. He is survived by his wife, Julia.

MICHAEL M. McMAHON has just completed 30 years with Pacific Lighting Service and Supply Company in Los Angeles, where he is manager of supply analysis. He and his wife live in Pasadena.

BRUCE L. HICKS, PhD '39, is research professor at the Coordinated Science Laboratory of the University of Illinois.

GLENN R. CARLEY is a group leader with the North Atlantic Treaty Organization at the Saclant ASW Research Centre in La Spezia, Italy.

CURTIS G. CORTELYOU is with the Mobil Oil Corporation in New York as worldwide coordinator of their air and water conservation program. The Cortelyous have four children and four grandchildren.

RICHARD W. DODSON is chairman of the department of chemistry of Brookhaven National Laboratory on Long Island, N.Y.

MINOR L. FAHRMANN, MS '37, has been with the Standard Oil Company of California since he left Caltech in 1937. He is currently chief engineer in charge of engineering, maintenance, and construction for the company's eastern subsidiary, Chevron, and lives in Westfield, N.J., with his wife and four children.

HENRY J. GOODWIN, MS '37, is a civil engineer and building contractor in Palos Verdes, Calif.

RAY A. JENSEN, MS '37, has been with Hughes Aircraft for 26 years. He and his wife have two sons; one is a freshman at Caltech.

ROBERT D. KENT has been with the engineering department of Texaco in Houston, Texas, for the past six years. He and

his wife have five children, ranging in age from 4 to 12.

HISAYUKI KURIHARA, MS '37, '38 is assistant cost and operations manager for Esso Standard Sekiyo Kabushiki Kaisha in Tokyo. His son is attending MIT, and his daughter is in a university in Tokyo.

VERNE L. PEUGH is retired, but for one quarter each year teaches a graduate class at Stanford University on "heavy construction estimates." He is also writing a textbook on the subject.

APOLLO O. SMITH, MS '37, '38, recently received his 25-year pin from the Douglas Aircraft Company. He and his wife have a married daughter and two children at home in San Marino, Calif.

TYLER F. THOMPSON, professor of philosophy of religion, is in his 15th year at Garrett Theological Seminary in Evanston, Ill. He and his wife have five children: the oldest, married; the youngest, a sixth grader.

KARL UNHOLTZ, MS '39, is vice president of Unholtz-Dickie Corporation in Hamden, Conn. His only daughter graduated recently from Lake Erie College in Painesville, Ohio.

KENICHI WATANABE, PhD '40, is professor of physics and astronomy at the University of Hawaii in Honolulu.

1937

LAWRENCE T. FLEMING, research engineer at the Bell & Howell Research Center in Pasadena, has been named a fellow of the Acoustical Society of America and was cited for his contributions to the art of vibration measurement and design of accelerometers. He has been engaged in research involving physical measurements since the center was established in 1960.

1939

STEPHEN C. CLARK is an operations research analyst in the division of operations analysis in the U.S. Office of Education in Washington, D.C. He was formerly with the IBM Systems Research and Development Center at the Irvine campus of the University of California. Clark, whose wife, Anne, died in 1962, has a daughter attending the University of California at Riverside and two younger daughters living with his mother in St. Helena, Calif.

1940

FRED BRUNNER, MS '41, is manager of engineering in the Frankfurt, Germany, office of the Ralph M. Parsons Company. The Brunners have two sons in college in

Personals . . . continued

New York and a third son who graduated last June.

1941

ROBERT L. NOLAND has been elected executive vice president of AMETEK, Inc., in New York. He will direct and coordinate the company's manufacturing operations. Noland was previously executive vice president and vice chairman of the board of Haveg Industries, Inc.

1943

LEON KATZ, PhD, head of the physics department and director of the Linear Electron Accelerator Laboratory at the University of Saskatchewan in Saskatoon, Canada, is one of the nine university representatives appointed to the newly established Science Council of Canada. He has been with the university since 1946 and is well known for his part in establishing the laboratory—Canada's first. In 1957 he was Canada's only invited guest at the All Union Conference of the Academy of Sciences in the USSR.

1944

PAUL H. WINTER writes from Honolulu that his family and friends sailed their yacht, "Eolo," in June, on a 14-day passage from Long Beach to Hawaii, where they plan to stay and work for at least a year.

A. J. A. MORGAN, MS '47, PhD '51, professor of engineering at UCLA, was awarded a Fulbright travel grant to spend a sabbatical year, 1966-67, as visiting professor at the Royal Institute of Technology in Stockholm.

1945

WILLIAM H. EBERHARDT, PhD, professor of chemistry at the Georgia Institute of Technology in Atlanta, recently received an award from the Society of Sigma Xi for a research paper.

RAYMOND F. BERBOWER, assistant chief harbor engineer of the Port of Long Beach, Calif., recently received the C. A. Hogentogler Award of the American Society for Testing and Materials for his work on a paper on soils for engineering purposes. He has been with the engineering division of the port since 1946.

1946

JOHN EATON FLEMING is assistant professor of management at UCLA, where his eldest son is enrolled as a freshman. For the past two years Fleming has been on the faculty of California State College at Los Angeles. He and his wife and their five children live in San Marino.

HAROLD L. SARMENTO has been appointed supervisor of the Los Angeles division of Owens-Corning Fiberglas Corporation's commercial and contracting department. He was formerly sales branch manager for the company in Pittsburgh.

JOSEPH O. WEISENBERG, MS, AE '47, is assistant professor in the bureau of business management at the University of Illinois. He retired last year as a commander in the U.S. Navy, after 24 years of service.

ALI B. CAMEL, MS, has been appointed director of the research and engineering support division of the Institute for Defense Analyses in Arlington, Va., a non-profit research organization sponsored by 12 of the leading universities of the nation. Before his appointment, Camel held the Walter P. Murphy Distinguished Professorship at Northwestern University.

1947

FLOYD K. BECKER, MS, has been promoted to head of the expository development department in the customer telephone systems laboratory at Bell Telephone Laboratories in Holmdel, N.J. He has been with the Bell system since 1947, most recently serving as supervisor in the data communications development laboratory.

DAVID L. DOUGLAS, PhD '51, has been appointed vice president—research of Gould-National Batteries, Inc., in Minneapolis, Minn. He will continue as director of the research and development laboratory and will have further responsibilities for corporate technical planning.

JACK A. GIBBS, MS, retired this year after 28 years in the U.S. Air Force. He was brigadier general in command of the Sixth Air Force Reserve Region at the time of his retirement. Prior to that assignment he was deputy director of operational requirements at USAF headquarters in Washington. Gibbs received the Legion of Merit, one of the nation's highest peacetime decorations, while a member of the 1007th Air Intelligence Support Group on an earlier assignment in Washington.

COLONEL PAUL G. ATKINSON JR., MS, is the new commander of the Aerospace Research Laboratories at Wright-Patterson AFB in Dayton, Ohio, where basic research in the physical and engineering sciences is conducted. Atkinson has served more than 15 years in propulsion research and development and is a member of the propulsion and energetics panel of the NATO aerospace research and development advisory group. In his 23 years of military service, he has been decorated with two of the nation's highest

awards: the Distinguished Service Cross and the Legion of Merit.

JOE ROSENER JR. writes that he and his wife, Judy, plan to attend the Second Inter-American Partners of the Alliance Conference in Rio de Janeiro, Brazil, this fall. As chairman of the California Partners of the Alliance Committee (a non-government offshoot of the Alliance for Progress) Joe has already made trips to several Mexican states. The most recent was a 3,500 mile trip with his family by camper to Puerto Vallarta. He reports that he can well understand why few people *drive* to Puerto Vallarta. Joe ran into JIM THORP, '48, in Santa Fe, New Mexico, where Jim manages The Bishop's Lodge.

CHARLES B. SHAW JR. writes that he and Luchia Evelyn Powers were married in June in Las Vegas. Shaw is senior technical specialist in physical sciences at the autometrics division of North American Aviation in Anaheim, Calif.

A. H. J. MUELLER, MS '49, has been appointed assistant manager of the Tucson division of Hughes Aircraft. He has been with Hughes since September 1951, and prior to this appointment he was assistant program manager for operations of the Phoenix missile system, aeronautical systems division.

1948

THORNTON A. WILSON, MS, vice president—operations and planning of the Boeing Company, Seattle, has been elected a member of the company's board of directors. He was at one time manager of the Minuteman ICBM program for Boeing.

BYRON L. YOUTZ, professor of physics and executive assistant to the president of Reed College in Portland, conducted two seminars in Japan in August, arranged by the Japanese Science Education Society. The week-long courses were attended by science teachers, college professors, and officials of the ministry of education. Youtz has also taught in special institutes in Rhodesia and Chile.

1949

DAVID BARON writes that he has recently been appointed public service director in charge of the public works department of Westminster, Calif. Baron had been serving as assistant city engineer since 1965, and before that time was assistant county surveyor in Bakersfield. He and his wife have three sons and a daughter.

1950

CAPTAIN JOHN T. SHEPHERD, USN, is now assistant chief of staff for operations for the U.S. Naval Forces in Vietnam. From there he will go to Yokosuka, Japan,

to assume command of the Navy general stores ship, the USS Pollux.

WILSON BRADLEY JR., president of the electronics division of Becton, Dickinson & Co., Rutherford, N.J., and of its subsidiary, Endeveco Corp. of Pasadena, has been named a director and a corporate vice president of the parent company.

1951

GRAYDON D. BELL, MS, PhD '57, has been promoted to professor of physics at Harvey Mudd College in Claremont.

BRUCE B. HEDRICK is serving as vice president of the Hugh Carter Engineering Corporation of Long Beach, a firm which has recently been incorporated and expanded.

1952

MICHAEL J. CALLAGHAN has accepted an assignment in the manufacturing technological department of the Shell Oil Company's head office in New York. He has been a research engineer at the company's Emeryville, Calif., research center since 1964.

1953

BERT E. BROWN, MS, has been promoted to associate professor of physics at the University of Puget Sound in Tacoma, Washington, where he has been a member of the faculty since 1960. He received his PhD from Oregon State University in Corvallis in 1963, for work on theoretical calculations of atomic structures.

1954

EDWARD J. GAUSS sends news of a recent achievement . . . a blue ribbon for the largest cabbage at the Alaska State Fair. The prize included \$1 for each of its 25 pounds. When not growing cabbages Ed heads the University of Alaska Computer Center.

1955

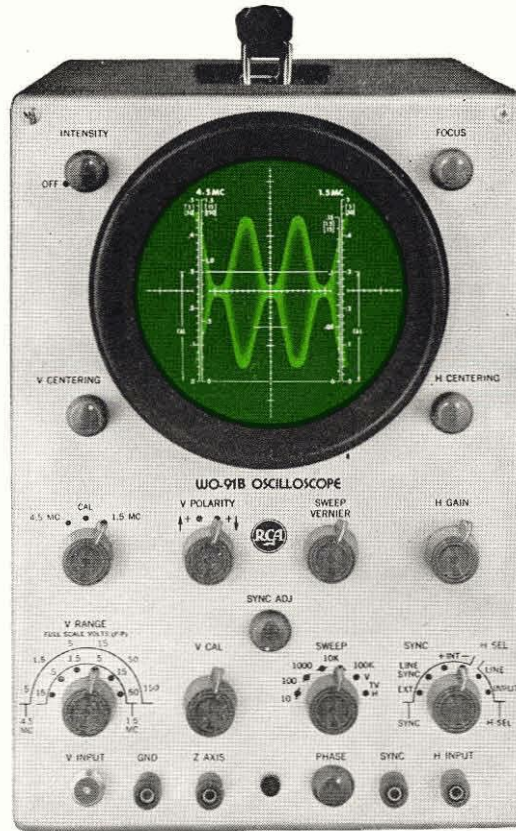
WILLIAM G. SLY, PhD, has been promoted to professor of chemistry at Harvey Mudd College in Claremont.

1956

JOHN C. CARNEY, MS '57, is working as startup engineer for the Bechtel Corporation, with headquarters in San Francisco. He has recently returned from "the wilds of Colorado" on a new plant assignment for the company.

JAMES T. BRADBURY III, MS, has been named general manager of the Holland, Mich., facility of the Holland-Suco Color Company, a subsidiary of Chemetron Corporation. Bradbury, who has been with the organization since 1952, lives in Holland with his wife and three children.

October 1966



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universities, and it is desirable
for every college and
university to get a
little better. But it is
equally important that there
be a few institutions
of really superb quality. We must, for
the sake of the future
generations, have a few outstanding
leaders, a few institutions
that are blazing the trails
of the future.

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Personals . . . continued

DON J. HARNEY, MS, AE '57, has been appointed sales manager of CAL-POWER Corporation in El Segundo, California. He and his wife live in Garden Grove with their two children.

1957

J. HOWARD MARSHALL, PhD '65, one of the founders of the Analog Technology Corporation of Pasadena, is presently chairman of the board and vice president for projects. Analog, founded in May 1965, is involved mainly in the design and fabrication of scientific space instruments.

HARRY M. ROPER JR., MS, a major in the U.S. Army, is serving in Vietnam as commanding officer of the 48th Assault Helicopter Company. He graduated from the Armed Forces Staff College in Norfolk, Va., last January.

1958

NATHANIEL GROSSMAN has a new position as assistant professor of mathematics at UCLA. He was formerly with the Institute for Advanced Study at Princeton.

ABRAHAM ZUKERMAN, MS, PhD '62, has been promoted by the Aerospace Corporation in San Bernardino to staff engineer in the advanced concepts group of the weapon systems division. Before joining Aerospace in 1965, Zukerman was a director at Aerojet General Corporation and had earlier taught engineering mathematics at Caltech. He lives in Claremont with his wife, Rita, and their two children.

1959

JOHN D. STACK is assistant professor of physics at the University of Illinois. He received his PhD in 1965 from the University of California at Berkeley and was acting assistant professor there until this past summer.

JOHN WALDEN, MS, received his PhD in chemical engineering from the Polytechnic Institute of Brooklyn in June.

1960

PETER D. NOERDLINGER, PhD, has joined the department of physics and astronomy at the University of Iowa in Iowa City as associate professor. He was formerly assistant professor of physics at the University of Chicago.

W. CARL GOTTSCHALL JR. is assistant professor of chemistry at the University of Denver this fall. For the past two years he has been engaged in postdoctoral study at the Argonne National Laboratory near Chicago, where he was working on radiation chemistry of solutions.

JAMES L. FARMER received his PhD in biology from Brown University in Providence, R.I., in June.

1961

DOUGLAS K. STEWART, MD, and his wife will be living in Bogota, Colombia, for the next two years, where he will be working with the public health service as a staff physician to the Peace Corps Volunteers. When he returns, Stewart plans to begin a residency in internal medicine in Seattle.

1962

STOTTLER STARR, MS, has recently been appointed project associate of the Ohio University Center for Economic Opportunity located in Athens, Ohio. He will be responsible for planning and executing seminars and institutes to assist business leaders in taking a more active part in the war on poverty. Starr received his MBA from Harvard in June.

CARL W. HAMILTON is studying at the Alfred P. Sloan School of Management at MIT on a national defense fellowship, which supports his doctoral work in mathematical economics and operations research.

1963

DAVID STOUTEMYER is an instructor in the engineering department of the University of Hawaii this fall. He has been a stress analyst at the United Shoe Machinery Corporation in Beverly, Mass., since receiving his MS at MIT in 1965.

ALFRED C. PINCHAK, PhD, started for Alaska this past summer with two Caltech friends, HARRY TOWNES, MS '60, and WILL HARRISON. They reported from Whitehorse, Yukon, that they intended to make the ascent of Mt. McKinley. Pinchak has been on a short assignment for Ohio State University at the Aerospace Research Laboratories in Dayton, Ohio, following his tour of duty with the U.S. Air Force.

HENRY D. I. ABARBANEL received his PhD in physics from Princeton in May.

1964

CHARLES K. GRIMES, PhD, a major in the U.S. Air Force, is back flying again—overseas—after four years at the Air Force Institute of Technology in Ohio as a professor of aeronautics.

USHA SHAH, MS, is now the wife of SURYANARAYANA VARNASI, MS '61. They live in Seattle.

HAROLD T. THOMAS received an MA degree in chemistry at Wesleyan University in Middletown, Conn., in June.

WILLIAM R. RICKS, first lieutenant in the U.S. Air Force and an F-105 Thunderchief pilot, is on duty with U.S. combat air forces in Southeast Asia.

ALUMNI ASSOCIATION CALIFORNIA INSTITUTE OF TECHNOLOGY

Pasadena, California

BALANCE SHEET

June 30, 1966

ASSETS		
Cash in Bank		\$ 4,322.48
Investments:		
Share in C.I.T. Consolidated Portfolio	\$106,215.00	
Deposits in Savings Accounts	17,023.01	123,238.01
Investment Income Receivable		5,927.36
Postage Deposit		235.10
Furniture and Fixtures, at nominal value		1.00
<u>Total Assets</u>		<u>\$133,723.95</u>
LIABILITIES, RESERVES AND SURPLUS		
Accounts Payable		\$ 4,923.35
Deferred Income:		
Membership Dues for 1966-67 paid in advance	\$ 11,495.10	
Investment Income for 1966-67 from C.I.T.		
Consolidated Portfolio (earned during 1965-66)	5,709.36	17,204.46
Life Membership Reserve		69,100.00
Reserve for Directory:		
Balance, July 1, 1965	\$ 5,044.14	
1965-66 Appropriation	2,500.00	
1965-66 Directory Expense	(7,005.54)	538.60
Surplus:		
Balance, July 1, 1965	\$ 41,211.00	
Share of Gain on Disposal of Investments of C.I.T. Consolidated Portfolio for 1965-66	2,768.82	
Excess of Expenses over Income for 1965-66	(2,022.28)	41,957.54
<u>Total Liabilities, Reserves and Surplus</u>		<u>\$133,723.95</u>

STATEMENT OF INCOME AND EXPENSES

For the Year Ended June 30, 1966

INCOME		
Dues of Annual Members		\$ 20,843.75
Investment Income:		
Share from C.I.T. Consolidated Portfolio	\$ 5,300.06	
Interest on Deposits in Savings Accounts	1,204.87	6,504.93
Annual Seminar		6,000.05
Program and Social Functions		2,099.80
<u>Total Income</u>		<u>\$ 35,448.53</u>
EXPENSES		
Subscriptions to Engineering and Science Magazine:		
Annual Members	\$ 14,579.25	
Life Members	3,304.00	\$ 17,883.25
Annual Seminar		5,830.64
Administration (Directors' Expenses, Postage, Supplies, etc.)		3,328.50
Directory Appropriation		2,500.00
Program and Social Functions		2,498.02
Fund Solicitation		2,457.37
Membership Committee		1,568.18
ASCIT Assistance		1,404.85
<u>Total Expenses</u>		<u>\$ 37,470.81</u>
<u>Excess of Expenses over Income</u>		<u>\$ 2,022.28</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, 1966, 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, 1966, 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

September 27, 1966