PERSONALS

1921

Wynne B. Mullin retired from the Firestone Tire & Rubber Company this month after 30 years of service. When he first started with the company in 1927, he was construction engineer for their West African plantation in Liberia. For the past 15 years, he's been in charge of Firestone's purchasing and real estate department in Los Angeles. Wynne writes that he and his wife, Charl, expect to divide their time between their summer cottage on Shuswap Lake in British Columbia, Canada-and their home in La Habra Heights, California. He also plans to do some consulting work for Firestone and some real estate development for himself. Wynne's daughter. Alvse, is married and lives in Washington, D.C.

1927

Arthur D. Warner, PhD, is now western representative of the Weapons Systems Evaluation Group, an operations research group serving the Assistant Secretary of Defense and the Joint Chiefs of Staff. The technical staff of WSEG is provided by the Institute of Defense Analyses, which is sponsored by Caltech, MIT, Stanford, Case Institute of Technology, and Tulane University. Art's job is to report the results of research and development programs. He writes that about one-third of the Defense Department research and development program is in the West, mostly in California.

1928

Richard D. Westphal writes that he's a sales engineer with the General Electric Company in Los Angeles, specializing in industrial applications of X-ray. The Westphals have three daughters—Alice and Virginia, who are now married, and Jean, a senior at San Marino High School.

Tomizo Suzuki writes from Tokyo, Japan, that he's been a special consultant and civil engineer for the Japan Construction Field Office of the Armed Forces Far East since January, 1954. Before that, he was a technical advisor in the technical information office of the Okinawa Engineer District, on Okinawa. Tomizo writes that, although salaries are only a fraction of



those in the United States and taxes and living expenses are very high, the Japanese are living a relatively easier life than they did some years ago.

"Japan may be a very hard country for foreigners to understand," writes Tomizo, "because, although she may he classed as a highly industrialized nation, many things seem to be contradictory because the new exists apparently in harmony with the old, side by side. Thus we see many girls who are dressed elegantly like the Parisians or New Yorkers — but most of them may live in Japanese-style homes and eat Japanese meals three times a day--and who continue to observe age-old Japanese customs. After all, it may be safe for us to say that 'Japan is still in the state of making' in the world of uncertainties."

The Suzukis have three children—two attending universities in Tokyo, and the other still in grade school.

1929

Clyde E. Shields is now in Massena, New York, working on the St. Lawrence River Power Project, with Uhl, Hall and Rich, Engineers, Power Authority for the State of New York.

Thomas Clements, MS, PhD '32, chairman of the geology department at the University of Southern California, and a curator of the Los Angeles County Museum, recently completed a 10,000-mile jeep trip through remote sections of Mexico. For five months he and his wife searched for jade mines which have eluded explorers for centuries. Although they didn't discover the actual mines, Tom and his wife brought back samples of highquality jade found in the Taxco region which lead them to believe that mines exist nearby. The trip was financed by the museum and the university.

1930

Capt. Deane E. Carberry, MS '31, writes from the Naval Station at Great Lakes, Illinois, that, although he's only been there a little over two years, he's had such titles as District Civil Engineer. District Public Works Officer, and Officer in Charge of Construction—all in the Ninth Naval District of the U.S. Navy. Deane has also built his own home in Lake Bluff and now has two teenagers in his family helping to keep him busy.

R. Stanley Lord writes that, as District Engineer of the Water Résources Division of the U.S. Geological Survey, he's responsible for all surface water branch activities in California and supervises 90 employees located in three major offices— San Francisco, Sacramento, and Los Angeles. Stan has been with the water re-

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MARS outstanding design SERIES



3 stages to space

The designs that will make news tomorrow are still in the "bright idea" stage today—or perhaps projects under development like this three-stage, two-man space ship. Drawn by Fred L. Wolff for Martin Caidin's "Worlds in Space," the rocket craft would start out as shown in the reverse drawing at left, shed its propulsion boosters in two stages as fuel is exhausted, and end up as the trim plane-like ship at right. Ship is planned to orbit a hundred miles above earth, return safely after one to two days.

No one knows what ideas will flower into reality. But it will be important in the future, as it is now, to use the best of tools when pencil and paper translate a dream into a project. And then, as now, there will be no finer tool than Mars—sketch to working drawing.

Mars has long been the standard of professionals. To the famous line of Mars-Technico push-button holders and leads, Mars-Lumograph pencils, and Tradition-Aquarell painting pencils, have recently been added these new products: the Mars Pocket-Technico for field use; the efficient Mars lead sharpener and "Draftsman's" Pencil Sharpener with the adjustable point-length feature; and — last but not least — the Mars-Lumochrom, the new colored drafting pencil which offers revolutionary drafting advantages. The fact that it blueprints perfectly is just one of its many important features.

> The 2886 Mars-Lumograph drawing pencil, 19 degrees, EXEXB ta 9H. The 1001 Mars-Technico push-button lead holder. 1904 Mars-Lumograph imported leads, 18 degrees, EXB to 9H. Mars-Lumochrom colored drafting pencil, 24 colors.



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Personals . . . CONTINUED

sources division since he graduated from Caltech. The Lords have two sons: Myron, a first-year medical student at the University of Pennsylvania's Medical School: and Roy, who is a senior at Castlemont High School in Oakland.

1932

James C. Mouzon, PhD, is now professor of electrical engineering at the University of Michigan, and also a research physicist at the Engineering Research Institute in Ann Arbor. He had been working, since 1934, for the Johns Hopkins University Operations Research.

1935

Cdr. Jack W. Schwartz, MS '36, has been public works officer of the Naval Station at Key West, Florida, since September, 1954. "I was married in November, 1954." Jack writes, "and now I have a 15-year-old daughter and a son, Jack Jr., who is 1." Jack has been with the Navy Civil Engineer Corps since 1940, and has been on continuous active duty.

Kenneth Pitzer, dean of the college of chemistry at the University of California at Berkeley, is on the board of trustees at the new Harvey Mudd College in Claremont, California. The school is a member of the Associated Colleges at Claremont, and will open next September with its first class of 60 engineering students.

1936

Lt. Cdr. David M. Whipp, assistant chief of the geophysics division of the Coast and Geodetic Survey in Washington, D.C., writes that the division is deeply involved in preparations for the International Geophysical Year, and the celebration of the 150th birthday of the USGS. Dave's oldest daughter, Patricia Louise, is now at the University of Maryland, taking a mathematics major with the hope of someday becoming a college professor. His youngest daughter is in grade school in Washington.

Hugh F. Colvin, president of Consolidated Electrodynamics Corporation in Pasadena, has been elected to membership in the Young Presidents' Organization, a national group of outstanding young executives. He was one of eight men from southern California elected to the group. To be eligible, an executive must have become president of his company before reaching his 40th birthday, and—among other requirements—the minimum gross sales of his firm must exceed \$1,000,000 annually.

1940

Robert O. Cox is still president of the Lauderdale Marina, Inc. in Florida. (Since he's the major stockholder, he can't be

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Personals . . . CONTINUED

fired, he writes.) Bob's studying college catalogues for two boys who are entering next year. "I note in the paper," he says, "that there is finally a Caltech student near here (in Hillsboro Mile). All South Florida engineers seem to be Civils—but Yankee engineering organizations have also been flocking here to obtain such benefits as sunshine, taxes, operating costs, etc. so the picture is changing rapidly. There's a vanguard of 25,000 students arriving here in Fort Lauderdale for Easter — which makes Balboa look like a tea party."

1941

Cdr. Eugene A. Lakos is now assistant publics works officer at the New York Naval Shipyard in Brooklyn. He was married on March 3 to Marcille Harris, a clinical psychologist.

1942

Murray L. Lesser is now staff advisor to the manager of IBM's San Jose research laboratory.

Alan E. Bell, MD, an ophthalmologist, writes that he has lived in Pensacola for the past eight years—since his graduation in 1945 from the Johns Hopkins School of Medicine and a tour of naval duty in Key West. The Bells have four children— Laurie, Sandra, Eddy and Peter.

1943

Melvin L. Merritt, PhD '50, manager of the weapons effects department of the Sandia Corporation in Albuquerque, New Mexico, has been named scientific advisor to the supervisor of Operation Plumbbob at the Nevada Test Site. The operation involves a series of low-yield nuclear tests, which will get under way in the late spring.

1944

Richard E. Kuhns, civil engineer for the County of Los Angeles, was recently appointed regional county engineer for the Antelope Valley Region. He lives in Lancaster.

1946

Webster C. Roberts, MS, is now director of research for the Harris-Seybold Company, a printing equipment firm in Cleveland, Ohio. He will direct further expansion of the company's research activities, which include a chemistry and physics laboratory, a printing process laboratory.

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This Pope-built motorized grinder wheelhead, equipped with its original Fafnir Super-Precision Ball Bearings, has totaled over 14 billion revolutions, operates at 72,000 rpm. Used for grinding the races of extra-precision ball bearings, this wheelhead is still in production-line service.

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space (including a new instrument bearing division) totals more than 1,250,000 square feet.

Backed by the extensive production and research facilities and an experimental machine shop. Webster was formerly with the Clevite Corporation's research center in Cleveland.

1948

David S. Stoller, MS, is now with the computer systems division of the Ramo Wooldridge Corporation in Los Angeles. He was formerly a research engineer at the Rand Corporation.

1949

James C. Martin is a senior highway engineer in charge of the freeway design group in the Los Angeles office of the California Division of Highways.

Frank H. Beardsley has been appointed staff engineer for the automatic controls division of the Clary Corporation in San Gabriel. He was formerly chief engineer at the Summers Gyroscope Company in Santa Monica.

1950

Richard D. DeLauer, PhD '53, has just been appointed an assistant group leader in the N division of the University of California's Los Alamos Scientific Lahoratory. The N division is concerned with research and development of nuclear rocket propulsion. Dick is married and has one son.

J. K. Poindexter writes that he moved to Hawaii last month to work as service engineer for Lockheed Aircraft Service, which has recently extended its operation to Honolulu. "It is with some regret," Jack writes, "that my wife, Beverly, and son, Kim-who is 1½-and I must leave a recently completed house in Upland. But we're looking forward to a perhaps even more exciting architectural adventure in the Islands."

1951

John F. Kinkel is now associate technical director of North American Instruments, Inc. (a division of Morris-Thermador) in Altadena, California. He writes that he's got two sons—John William, 5, and Paul Franklin, 2.

Erdem L. Ergin, MS, PhD '54, and his wife, (the former Leita Harmon, who managed Caltech's Athenaeum until September, 1954), have returned to the United States from Istanbul. Erdem is an engineer in the data and control system department of Beckman Instruments, Inc. in Fullerton, California. They are living in Corona Del Mar.

1955

John L. Honsaker writes that he "returned last September to the United States after a very pleasant year of study in Gottingen, Germany, under a Fulbright Scholarship. My wife, Leni, whom I met in Gottingen, came with me. We were

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Personals . . . CONTINUED

married in July, and this is her first experience in this country. In October I was called to active duty in the Air Force (from Caltech ROTC) and started as a second lieutenant at the Air Force Base in Albuquerque, New Mexico. Last month my assignment was changed to Los Alamos, where I am now working in the physics division of the Los Alamos Scientific Laboratory. Although I'm still technically an Air Force officer, my duties are essentially those of a civilian physicist.

"I expect to work here for somewhat over two years while I am in the Air Force. After hours I'm working for an MS on a program sponsored by the University of New Mexico. Later, I may be back at Tech to try for a PhD."

Cinna Lomnitz, PhD, reports that he returned to Santiago, Chile, 9 months ago, and is back on the job of strain meter installations for the Caltech-IGY program. He's considering a job in the future at the University of Chile, in charge of geophysical research. Cinna adds that there is a definite need for graduate and postdoctorate geologists and geophysicists to do research work of their own choice during the International Geophysical Year. Anyone who is interested might contact him.

1956

Antonio Kontaratos, MS, writes from Athens, Greece, that he's working in the maintenance department of the Public Power Corporation, stationed at the Aliven Steam-Electric Generation Plant. "Aliven is a 100,000 KVA station consisting of two AEG turboalternators of 50,000 kva each. The maximum capacity of this generating plant is 80,000 kw," says Tony, "and actually, the power capacity of the whole is 200,000 kw."

He writes that he receives what is considered a very good salary-\$200. This won't last though, because, by about May, Tony will be in the Army for at least two years as a second lieutenant. He hopes to come back to the States after that to get an MS and PhD. In the meantime. he's working on his thesis for a PhD from the Technical University of Athens.

John F. Lovering, PhD, writes from Australia: "Kerry and I returned here in October, 1955, and came to Canberra. where I took up a research fellowship in the department of geophysics of the Australian National University. Kerry has returned to her previous position of petrologist in the geological lab of the Bureau of Mineral Resources (Australia's answer to the U.S. Geological Survey).

"Canberra is a curious city which grew out of the bush some 200 miles south of Sydney to become Australia's capital city when nobody could agree which of the then existing major cities should be made the capital after the states federated in 1901. Scenically it is very attractive but things to do are very limited because of the small population (30,000) and the physical isolation. It is a far cry from Los Angeles or even Pasadena-but at least there is no smog, good skiing to be had close by, and where else could one see an occasional kangaroo hop down the main street?

"We both went to Melbourne for the Olympic Games and I have just returned from a trip to New Zealand, where I attended a conference of the Australian and New Zealand Association for the Advancement of Science. Thanks to the orogenic and climatological settings of this fascinating country, I was able to satisfy two long felt wants---to see a glacier and to climb an active volcano."



ENGINEERING AND SCIENCE