

Personals

1915

Charles H. Wilcox, retired staff engineer of the Southern California Gas Company in Los Angeles, died of heart failure on September 8. Charles was a member of the Lafayette Escadrille and had won several Croix de Guerres with palms and stars. In 1915-16 he served as vice president of the Caltech Alumni Association. He leaves his wife and sister.

1921

George N. Hawley, vice president of the Southern California Edison Company in Los Angeles, died on September 8 of a heart attack. George had been with the Edison Company since 1928, when he joined the firm as an industrial heating specialist. He was made vice president in 1952.

1930

Robert I. Stirton, PhD '34, formerly manager of the product development department of the Oronite Chemical Company in San Francisco, is now general manager of the company's new commercial development department.

1938

Elburt F. Osborn, PhD, dean of the College of Mineral Industries at Pennsylvania State University in University Park, Pa., is now a fellow of the American Ceramic Society.

Robert Barry, president of Barry and Company, consulting management engineers, in Los Angeles, is also keeping busy this year as a member of the Sales Executives Club, Oneonta Club, National Association of Accountants and the Jonathan Club, besides serving as president of the South Pasadena Community Chest.

Charles F. Robinson, MS, PhD '49, has been appointed associate director of research at the Consolidated Electro-dynamics Corporation in Pasadena. He has been with CEC since 1947, and was formerly chief research physicist.

1941

William B. Hebenstreit is now program director for communication satellites in the Systems Engineering Division of Space Technology Laboratories, Inc., in Los Angeles.

Col. Carl W. Carlmark, MS, has retired from the U.S. Air Force and is now at the Hawaiian Preparatory Academy in Kamuela, Hawaii.

John R. White, MS '42, is manager of the new monitor and control division of Fenwal, Inc., in Ashland, Mass. He was previously manager of airborne systems sales for the company, which manufactures fire detectors, electronic systems and temperature controls.

Robert E. Rundle, PhD, professor of chemistry at Iowa State College and senior chemist in the Ames Laboratory of the Atomic Energy Commission, has won the 1959 Iowa Medal of the American Chemical Society's Iowa Section. The medal is awarded to an Iowa chemist or chemical engineer annually for meritorious achievement in teaching, research or industry.

1942

E. W. Van Ness has been elected a vice president of the Ralph M. Parsons Company in Los Angeles. He is manager of the construction company's petrol-
continued on page 50

people

who design airplanes, build
bridges, solve equations,
run factories, teach physics,
and do all sorts of clever
things
read

books

from

VROMAN'S
695 EAST COLORADO BOULEVARD, PASADENA
SY 3-1171 MU 1-6669

New Kind of Missile with HIGGINS INK

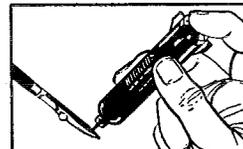
... carry it with you wherever you go!



Good news for draftsmen! New HIGGINS AMERICAN INDIA INK Cartridge always feeds the right amount of ink into pens and drawing instruments. No mess, no waste!

Compact, rigid, plastic cartridge fits easily in pocket, purse or drafting sets.

Stands on table, shelf, desk — won't roll off inclined drafting boards! Most convenient way to fill pens — and so economical!



FILLS PENS FASTER, EASILY, NEATLY!

Ask your art or drafting supply dealer for this new item.

HIGGINS INK CO., INC.
Brooklyn 15, New York
The basic art medium since 1880



eum and chemical engineering division.

Capt. Sheldon W. Brown, AE (U.S.N., Ret.) has been appointed as a consultant on the general planning staff of the All American Engineering Company in Wilmington, Delaware. Before his retirement from the Navy, he was Force Material Officer, Naval Air Force, Atlantic Fleet.

1943

Hewson Lawrence, MS, is now director of division customer relations at the Aerojet-General Corporation of Azusa. He has been with the company since 1946.

1944

Harrison W. Sigworth, research engineer at the California Research Corporation, is now at the Stanford Graduate School of Business on a Sloan Fellowship from the Standard Oil Company of California. Harrison was secretary-treasurer of the San Francisco Chapter of the Caltech Alumni Association in 1954, vice president in 1955, and president in 1956. The Sigworths have four children —

three boys, 13, 10 and 8, and a girl 2½.

Paul H. Winter, structural engineer with Neptune & Thomas and Associates in Pasadena, has now been made vice president of the firm. Paul, who has headed the structural engineering department for the past three years, was formerly director of the Afghan Institute of Technology, and advisor on school building projects as a member of the United Nations Technical Assistance Mission to Afghanistan. He is currently lecturing in the School of Engineering at USC, and spending all his spare time with his family aboard their 30-foot auxiliary sloop, *The Intrepid*.

1945

Albert R. Hibbs, PhD '55, is acting chief of the Jet Propulsion Laboratory's new Space Science Division, which has been formed to devise, plan, develop, operate and analyze experiments for the NASA-JPL space exploration program.

1946

William N. Lipscomb, Jr., PhD, formerly chief of the division of physical

chemistry at the University of Minnesota, is now professor of chemistry at Harvard University.

John E. Richter has been named housing specialist in the Los Angeles office of the Portland Cement Association. He's been with the company since 1956. The Richters, who live in La Canada, have three children.

Morris Lebovits, MS, is section chief of aerodynamics at the Solar Aircraft Company in San Diego. He was formerly chief of aerodynamics at Radioplane, a division of the Northrop Corporation.

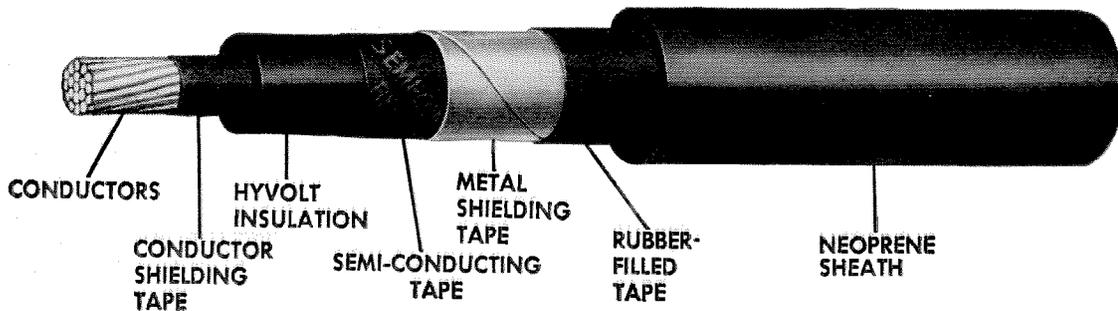
1947

Adrian Pauw, MS, PhD '52, writes that "I left the Rice Institute at Houston, Texas, in 1953, and have been with the University of Missouri in Columbia since then as professor of civil engineering. We now have four children — three boys and a girl, Janet, who is 3. We spent last summer in Austin, Texas, where I was visiting professor at the University of Texas."

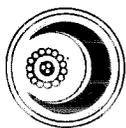
Manfred Eimer, MS '48, PhD '53, is continued on page 52

CRESCENT

HYVOLT SHIELDED POWER CABLE



FOR MORE AMPERES PER DOLLAR OF INSTALLED COST
 CRESCENT HYVOLT insulation is made from butyl rubber which is inherently resistant to ozone, heat, moisture and aging with excellent electrical characteristics. For 5000 Volt or higher service, HYVOLT cables are provided with shielding to protect them from surface burning, corona, and lightning surges.



CRESCENT INSULATED WIRE & CABLE CO.
 TRENTON, N. J.





Space Technology Laboratories' new corporate symbol represents a bright history in a stimulating age.

STL has provided the over-all systems engineering and technical direction for the Air Force Ballistic Missile Program since it was assigned the highest national priority in 1954.

In addition to its major management functions, STL also conducts advanced space probe experiments for the Air Force at the direction of such agencies as NASA and ARPA.

To those scientists and engineers with capabilities in propulsion, electronics, thermodynamics, aerodynamics, structures, astrophysics, computer technology, and other related fields and disciplines, STL now offers unique professional opportunities. Inquiries regarding staff positions are invited.

**a new symbol
for a new era
of technology**



**Space Technology
Laboratories, Inc.**

P.O. Box 95004
Los Angeles 45, California

Personals . . . continued

now section chief of the Research Analysis Section of JPL's new Space Science Division. He has been with JPL since 1953 and also serves on the NASA Committee for Missile and Space Craft Aerodynamics.

1948

Max Garber, formerly manager of Consolidated Electroynamics Corporation's Eastern Regional Office in Philadelphia, has now been appointed director of a new division in Rochester, N.Y.

Howard B. Lewis, Jr., BS '48 ME, BS '51 EE, is now chief engineer of the transducer division of the Consolidated Electroynamics Corporation in Pasadena. He has been with the company since 1952.

1949

Col. John A. Dodge, MS, has now joined Dr. Herbert J. York, director of Defense Research and Engineering in the Office of the Secretary of Defense. He has headed the Re-entry Vehicle Development program for the Ballistic Missile Division since September, 1955, and has been directly concerned with the Air Force-Lockheed X-17 project.

John Hann is now test project engineer on the DC-8 project at Douglas Aircraft's Long Beach plant.

R. L. Walquist is now manager of the communications and tracking department of the Telecommunications Laboratory of Space Technology Laboratories, Inc., in Los Angeles. He has been with STL since 1955. The Walquists and their son live in Rolling Hills.

1950

Allan Beek has been appointed senior project engineer in the Lockheed Electronics and Avionics Division. He was formerly with the Alwac Division of Electronics and the Electrodata division of the Burroughs Corporation.

1951

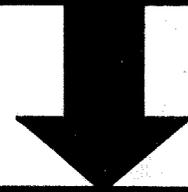
Thomas W. Layton is now associate manager of the inertial guidance department in the electromechanical laboratory at Space Technology Laboratories in Los Angeles. He has been with the company since 1955.

Bruce B. Hedrick has been senior sales engineer and manager of special equipment sales for Dynapak/Convair Pomona since January. The Hedricks have two girls, 7 and 5, and a boy, 1½.

1952

Henry Richter, Jr., PhD '56, heads the Space Instruments Section of the new Space Science Division at JPL. He has been with the Lab since 1955.

continued on page 54



UNEQUALLED OPPORTUNITIES AT ENDEVCO CORPORATION

Endevco is the leading manufacturer in the nation of vibration and shock measuring systems. These are precision proprietary products, we have no government development contracts. As a rapidly growing business, we need more help at all levels—from supervisory personnel to trainees.

As electronic firms go, we are small (under 200 employees) but our people find this an advantage. It gives everyone a chance to do the kind of work he likes best with plenty of freedom and an excellent opportunity for advancement. Benefits include profit-sharing, insurance, regular salary reviews and many others. All positions permanent, citizenship not required.

Application Engineers to develop customer applications. Knowledge of transducers desirable. BS, ME, EE or Physics Degree required.

Product Development Engineers to design and analyze products in the electro-mechanical instrument and electronic fields. Men needed at Senior and Junior levels.

Mechanical Standards Engineer to establish new product test procedures, mechanical standards and design of test fixtures. Desire BS, ME with vibration test experience.

Quality Control Supervisor to supervise inspection, instrument calibration and electronic test department. Administrative experience in quality control desired.

Design Draftsmen to design tooling and fixtures. 5 years experience.

Send for free booklet: "This is Endevco"

Interviews arranged at your convenience and in complete confidence. Apply Personnel Department 9 to 5. MUrray 1-5231, Extension 100.

ENDEVCO CORPORATION
161 EAST CALIFORNIA BOULEVARD
PASADENA

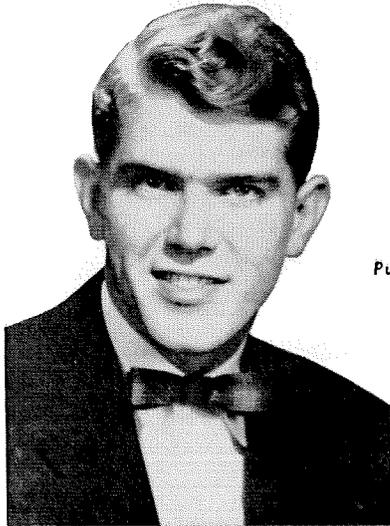
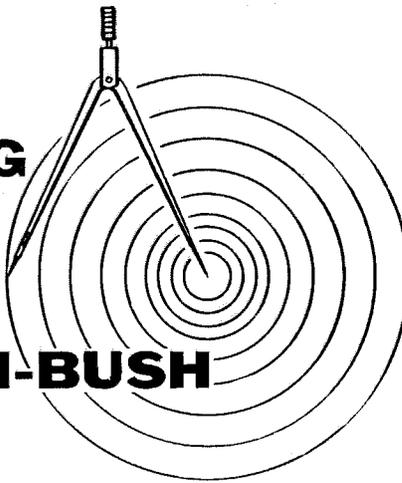
dynamic instrumentation



SALES ENGINEERING UNLIMITED

at

DUNHAM-BUSH



DEANE KEUCH
Purdue University '53

DEANE KEUCH, one of 136 Dunham-Bush sales engineers, knows the advantages of being associated with a dynamic young company with extensive product lines.

Following his engineering studies at Purdue, Deane joined Dunham-Bush as a trainee and soon became an application engineer. After a relatively short time he was assigned his own territory, working out of the Cleveland area sales office.

In calling on consulting engineers, architects, plant engineers, wholesalers, contractors and building owners, Deane (like all Dunham-Bush sales engineers) finds it reassuring to be backed by his area office and the facilities of Dunham-Bush laboratories.

Equally reassuring is the availability of complete lines. The range of Dunham-Bush refrigeration products runs from compressors to complete systems; the range of air conditioning products extends from motel room conditioners to a hospital's entire air conditioning plant. The heating line is equally complete: from a radiator valve to zone heating control for an entire apartment housing project. The Dunham-Bush product family even includes specialized heat transfer products applicable to missile use.

If you'd like to know more about the company that offers "Sales Engineering Unlimited", send for a copy of "This is Dunham-Bush".



AIR CONDITIONING, REFRIGERATION,
HEATING PRODUCTS AND ACCESSORIES

Dunham-Bush, Inc.

WEST HARTFORD 10, • CONNECTICUT, • U. S. A.

SALES OFFICES LOCATED IN PRINCIPAL CITIES

Personals . . . continued

1953

John S. Winslow, MS '59, is now a research engineer in the solid state division of Electro-Optical Systems, Inc., in Pasadena. He had been working with the Consolidated Electrodynamics Corporation.

J. Morgan Ogilvie, formerly Chicago sales service representative in the Du Pont Company's petroleum chemicals division, is now sales promotion coordinator in the division's Eastern Region. He has been with the company since 1955.

1955

Donald B. Roberts writes that he "just started in the first year class of Harvard Medical School. After graduating from CIT in June, 1955, I spent two years in the Air Force at McClellan AFB in Sacramento, one year in physics at MIT graduate school, and 15 months working at MIT's Lincoln Laboratory and the MITRE Corporation, where I was doing logical design of digital computers for processing of radar data."

1956

Ralph O. Kehle, MS '57, writes that he is now "instructor of mathematics in the Natural Science Division, General College, University of Minnesota, in Minneapolis . . . and also registered as a graduate student in the department of geology where I shall complete my PhD studies.

"Until September 16 I was employed by the University of Michigan as a research associate in the department of geology. For six months I worked under the direction of Dr. James H. Zumberge on the IGY-sponsored Shelf Ice Deformation Project. We compiled and analyzed data collected during the 1957-58 and 1958-59 antarctic field seasons."

1957

James E. Conel, MS, is at Caltech, working for his PhD in geophysics on a Pan American Petroleum Foundation fellowship.

Gerd A. Tuchen, MS, engineer with the Bell Telephone Laboratories, received his MS from New York University in June, after completing a two-year program of advanced study at the new NYU-Bell Laboratories graduate center in Murray Hill, N.J.

1959

Nelson Byrne is studying for his PhD in physics at Stanford on a National Science Foundation grant.

Robert J. Kwik, MS, is in his first year of study at the Princeton Theological Seminary. He is married and has one son.

Engineering and Science