

# PERSONALS

1906

*Harry H. Canterbury* died of a heart attack on February 23 in Paradise, California. Before his retirement in 1954, Harry was in business for himself in Whittier as a consulting engineer. Before that, he had worked as a mechanical engineer for the Lorraine Corporation in Los Angeles.

1918

*Robert C. Sticht* visited Caltech last month, on the first leg of an eight-month journey around the world. It's a trip the Stichts actually started in 1939 from their home in Australia. That time they got as far as the United States when war broke out; this time they're going all the way. Bob works as a chemical engineer for Commonwealth Fertilizer and Chemicals, Inc., in Victoria, Australia.

1925

*Paul E. Noll* has been made assistant to the vice-president in charge of sales of the Columbia-Geneva Division of the United States Steel Corporation in San Francisco. He has been director of research and development at the Consoli-

dated Western Steel Division in Los Angeles since 1935.

1926

*Burt Beverly, Jr.*, chief geologist and assistant manager of operations of the American-Arabian Oil Company in Saudi Arabia, is currently in the United States, attending a session on business management at the University of Pittsburgh.

*Arthur B. Allyn* has been elected a vice-president of the Pacific Northwest Pipeline Corporation in Houston, Texas. Since February, 1955, he has been project engineer for Fish Northwest Constructors, Inc., the company which has been engineering and constructing Pacific Northwest's 1,487-mile pipeline to transport natural gas from New Mexico to the Canadian border.

Art was formerly assistant general manager of the Honolulu Gas Company, Ltd. and Pacific Refiners, Ltd., in the Hawaiian Islands, before he moved back to the mainland to join Pacific Northwest. His two sons are now in the Service.

1933

*George H. Anderson*, PhD, died on Feb-

ruary 23 of a heart attack while on a business trip to New York. He was assistant to the president and industrial consultant for the Dallas, Texas, Power and Light Company, George was formerly associate professor of mining geology at the University of California in Los Angeles. He leaves his wife, two sons and a married daughter.

*Louis A. Pipes*, PhD '36, professor of engineering at UCLA, presented a paper at the winter general meeting of the American Institute of Electrical Engineers in New York City in January. Louis has been a full professor at UCLA since July, 1951, when he was moved up from associate professor. Before going to UCLA, he worked in research at the Hughes Aircraft Company and at the University of Wisconsin.

1934

*Charles V. Newton*, president of the Caltech Alumni Association, is still living in Pasadena but now works in Monrovia as plant manager of the Carlson-Sullivan Division of the H. K. Porter Company, Inc., manufacturer of steel tapes.

*Ray W. Haskins* has moved from Larkspur, California, to San Rafael, where, he writes, "we live on top of a hill overlooking San Francisco Bay. I'm a consulting engineer doing business under the name of 'New Products Research' and I specialize in doing market research jobs for manufacturers having a new technical product to market in the industrial field." The Haskins' have two small sons, Greg and Gary.

1935

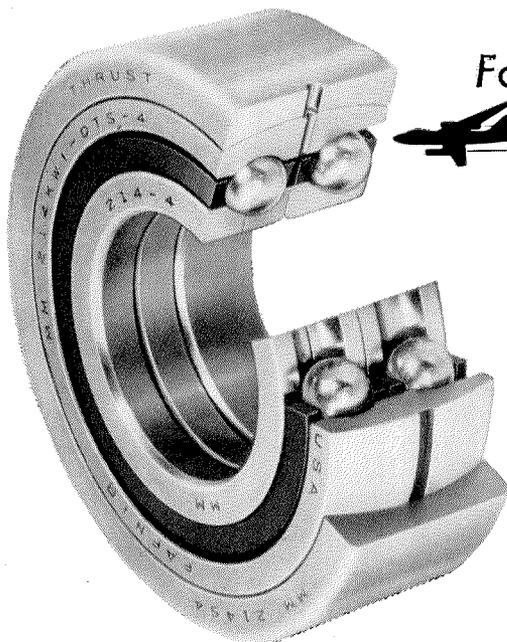
*Colonel Howard M. McCoy*, MS, recently retired from the U. S. Air Force, is now with the Ramo-Wooldridge Corporation in Los Angeles, working in the computer systems division. A recipient of the Bronze Star and the Legion of Merit, Col. McCoy was Air Force representative to the Research and Development Board and director of the Physical Security Equipment Agency.

1937

*John L. Sullwold*, for the past five years, has been working in sales engineering for the Carrier Corporation in Los Angeles on centrifugal and axial flow air and gas compressors. He has three daughters, 16, 15 and 6 years old.

*Robert C. Jones* of Berkeley has just celebrated his tenth year with the Shell Development Company's Emeryville Research Center, where he is now a research advisor in the fuels and engine lubricants department.

*Claude B. Nolte*, vice-president of the Barton Instrument Corporation, was put in charge of manufacturing for the company



For Jet Engines . . .

a masterpiece  
of  
engineering

Fafnir builds super-precision ball bearings with tolerances held to millionths of an inch and finishes to microinches. These bearings support jet engine rotors where they withstand high loads and speeds while compensating for distortion and maintaining shaft rigidity under blast furnace conditions.

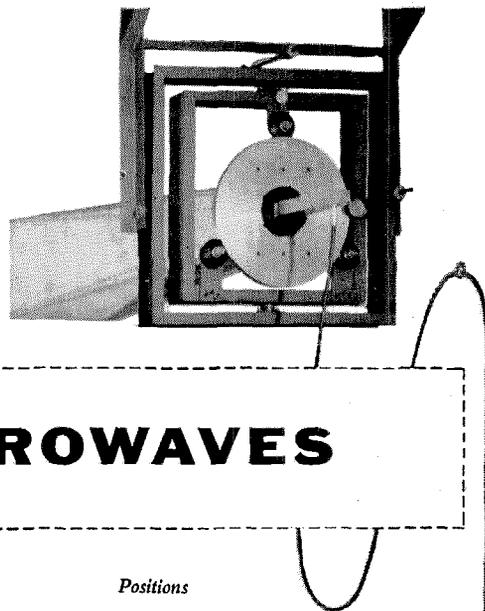
The self-aligning jet engine ball bearing illustrated involves a radial and a thrust bearing assembled in one-piece self-aligning outer ring. All parts must fit together with extreme precision. Higher mathematics, metallurgy, mechanical and aeronautical engineering are required to design and construct such a bearing. The Fafnir Bearing Company, New Britain, Connecticut.

AIRCRAFT CONTROL BEARING CATALOG . . . available for university libraries. This catalog contains complete dimensional and load rating tables, scale drawings and a special engineering section featuring technical data.

**FAFNIR**  
BALL BEARINGS

MOST COMPLETE  LINE IN AMERICA

Your  
future  
in

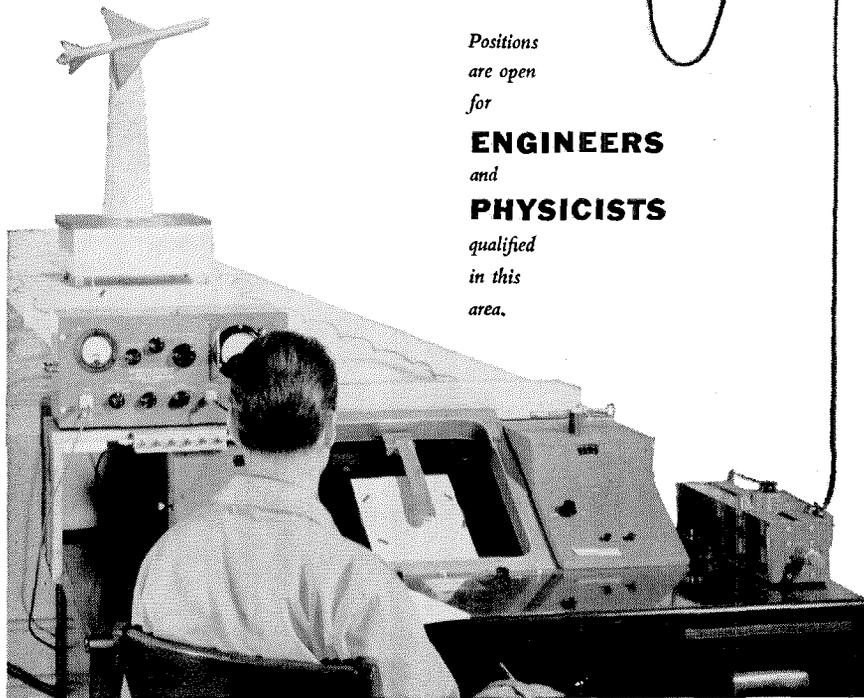


## MICROWAVES

Positions  
are open  
for

**ENGINEERS**  
and  
**PHYSICISTS**

qualified  
in this  
area.



**The Microwave Laboratory** at Hughes conducts fundamental research and long-range development in the field of microwave components and techniques. The antenna program is concerned with research on linear and two-dimensional arrays of slot radiators; transmission and radiation of surface-guided waves; very high resolution radar antennas; and the development and engineering of airborne communication, navigation and fire control antennas.

**Instrumentation** is developed for new measuring equipment to meet needs of the program. This has included development of automatic impedance and antenna pattern recorders, microwave power supplies stabilized in amplitude and frequency, microwave circuitry, and microwave applications of ferrite devices.

*Scientific  
Staff Relations*

### HUGHES

RESEARCH  
AND DEVELOPMENT  
LABORATORIES

Culver City, Los Angeles County  
California

## Personals . . . CONTINUED

last year. In 1955, also, he was president of the Los Angeles Section of the Instrument Society of America. Claude was married to Martha Mills in Pasadena in 1953 and they have four children, two boys and two girls.

*Irving L. Ashkenas*, MS '38, MS '39, is now associated with Control Specialists, Inc., an Inglewood firm specializing in automatic control systems and components. He was recently elected vice-president of the three-year old firm.

1938

*Frank B. Jewett, Jr.* is now vice-president and a member of the board of directors of the Vitro Corporation of America. Before this, Frank spent eight years with General Mills, Inc., in Minneapolis—the last three as managing director of engineering research and development—before joining Vitro in New York. His home is in New Canaan, Conn.

*Howard Seifert*, PhD., of the Ramo-Wooldridge Corporation, has been reappointed to the subcommittee on rocket engines of the National Advisory Committee for Aeronautics.

*Edmond F. Shanahan*, who practices patent and trademark law, has opened new offices in the Beverly Hilton Hotel in Beverly Hills, in addition to his office in the Statler Center in downtown Los Angeles.

1940

*Leo Davis*, MS '42, recently joined the Hughes Aircraft Company in Culver City as a member of the technical staff of the electron tube laboratory. Leo formerly worked for the Aerojet-General Corporation.

1941

*John R. White*, MS '42, has been district manager for Fenwal, Inc., in Los Angeles since July, 1955. Jack was formerly a designer with the Rand Corporation. He has a nine-month-old son, Jonathan.

1942

*John H. Rubel* has been with Hughes Aircraft for 9½ years and is now director of the fire control systems laboratories. He is also doing a little teaching at UCLA. The Rubels are living in Brentwood. They have two sons, 11½ and 3½, and expect another addition to the family shortly.

*George F. Meyer* is now general superintendent of the Warner and Swazey Company in Cleveland, Ohio. In his position George is responsible for the operations of the manufacturing, tools and maintenance divisions at the Cleveland plant. He has been with the company since 1947.

*Charles W. Pearson* writes that "I moved back to Pasadena two years ago with my

ENGINEERING AND SCIENCE

wife, Virginia; son, John; and two daughters, Laura and Hazel." Charles is a sales engineer with the Cannon Electric Company in Los Angeles.

*John W. Miles*, MS '43, PhD '44, professor of engineering at UCLA, writes that he is a consultant for Ramo-Wooldridge also, and that his current hobby is riding a surfboard at Malibu Beach. He has three daughters—Patricia Marie, 6; Diana Catherine, 2½; and Ann Leslie, born on February 23.

*Carter Hunt*, who was assistant supervisor of Hiram Walker & Sons in San Francisco, is now at the Peoria, Ill., plant.

1943

*John Harrison Laws*, MS, is now operating department manager at the Shell Chemical Corporation in Houston. John has been working for Shell since 1952, and recently returned from an overseas assignment.

*Robert M. Sherwin*, MS '50, ChE '52, has been named plant engineer of the Tacoma plant of the Hooker Electrochemical Company. Bob's been with the company in Tacoma since 1951. He and his wife have two children.

*Ralph M. Willits* reports that he will have been with General Petroleum for 10 years next October. He's a job engineer at the Torrance refinery in Los Angeles right now, but spent seven months last year in charge of new construction work at the Ferndale, Washington, refinery. He's married and has two daughters—Kathleen, 6 and Kristeen, 3.

*David M. Mason*, MS '47, PhD '49, who was formerly a research engineer at JPL, is now head of the division of chemical engineering at Stanford University as well as associate professor of chemical engineering. He was married in September, 1953.

*Charles P. Strickland* has been a sales engineer with the York Corporation's Los Angeles branch since 1947. He was recently honored for the third time by the company for outstanding sales engineering achievement. *The Stricklands*, and their daughter, Anita, live in Alhambra.

*John W. Otvos*, PhD, who recently celebrated his 10th year with the Shell Development Company, has now been made assistant head of the chemical physics department at the company's research center

in Emeryville. John was formerly assistant head of the spectroscopic department.

*Robert M. Sherwin*, MS '50, ChE '52, has been made assistant plant engineer of Hooker Electro-chemical at Tacoma, Washington.

1944

*Victor Bravo-Ahuja*, MS, president of the Monterrey Technological Institute in Mexico, writes that he has been with Monterrey Tec ever since leaving the U. S. He "first began working with the Institute as an assistant professor, then became a full professor in 1945. In 1946 I was named dean of the school of engineering and afterwards, in 1948, general secretary of the Institute. My appointment as president was made effective in May, 1951."

*H. Brian Proctor*, who is in business for himself as a jobber and manufacturer of furniture frames in Los Angeles, writes that his big news is an addition to the family—twins, Stuart and Suzanne, born last July.

1945

*K. Martin Stevenson* is working on the technical staff of the Hughes Aircraft Company in Culver City. He was formerly with the Magnavox Company.

*John L. Stern* has his own business now handling real estate, subdivisions, real estate brokerage, and general and life insurance, in Los Angeles. He writes that with his wife and two children, Debbie, 5, and Johnnie, 3, he visited Europe in 1953.

*Donal B. Duncan*, PhD '51, has been appointed assistant chief of the guidance section of Autonetics, a division of North American Aviation, Inc., in Los Angeles. This is his sixth year with the company.

*Duane T. McRuer*, MS '48, was recently elected board chairman of a rapidly growing three-year old firm, Control Specialists, Inc. Located in Inglewood, the firm specializes in automatic control systems and components.

1946

*David C. Lincoln*, MS '47, is department head of control equipment engineering at Sperry Gyroscope Company. In this position, Dave is responsible for the organization and administration of groups with technical capability in the fields required for drone and missile engineering. He's been with Sperry since 1949.

1947

*George Allen Austin* died of cancer on January 4 at Claremont. A veteran of the U. S. Army Air Corps, George had been assistant professor of psychology at Claremont Graduate School for the past two years. Previously, he was a lecturer and research associate at Harvard University.

*Ernest I. Pritchard*, MS, who has been chief of the data analysis department of Caltech's Cooperative Wind Tunnel for the

A.W. FABER-CASTELL 9000 8B HB  
 A.W. FABER-CASTELL 9600 PATENT PENDING TEL-A-GRADE  
 A.W. FABER-CASTELL LOCKTITE 9400 2H

# 3 BIG STEPS



## to success as an ENGINEER

1. **AMBITION**—it is assumed you have this in abundance or you wouldn't be where you are.
2. **GOOD SCHOOL**—you are fortunate studying in a fine school with engineering instructors of national renown.
3. **THE A.W. FABER-CASTELL HABIT**—shared by successful engineers the world over. It only costs a few pennies more to use CASTELL, world's finest pencil, in 20 superb degrees, 8B to 10H. Choose from either imported #9000 wood-encased, Locktite Refill Holder with or without new Tel-A-Grade degree Indicator, and imported 9030 drawing Leads.

*If you hope to be a master in your profession, use CASTELL, drawing pencil of the masters. If your College store is out of CASTELL, write to us.*

IMPORTED A.W. FABER-CASTELL 9030  
 IMPORTED A.W. FABER-CASTELL 9030

# A.W. FABER-CASTELL

PENCIL CO., INC. NEWARK 3, N. J.

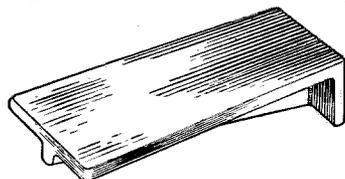
# WHY CERTAIN DESIGNS SUCCEED

*an idea to help  
you advance faster*

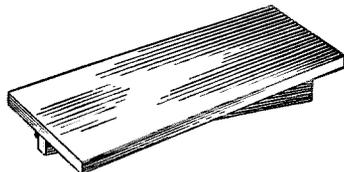
**SUCCESSFUL** designers state that costs are the most important factor in the success of any product development today. Manufacturers recognize this and, as a result, seek out the engineers who are cost minded.

Industry's stress on lower costs comes from the increasing competition for buyers. Rising costs of materials and labor must be offset by good designs to keep selling prices down to realize a profit from sales.

Ingenious use of materials is the best way you can eliminate needless expense in manufacture. By using steel as the basic material and welding for fabrication, you have a decided advantage in saving money for a manufacturing company . . . and getting your designs accepted.



Cast Construction — Costs \$28.13



Welded Steel Construction — Costs \$6.49

Results from using welded steel instead of gray iron are shown in the above design comparison of a typical bracket used on modern machinery. The cast bracket costs \$28.13. The welded steel bracket costs \$6.49, weighs 65% less, yet is stronger and more rigid than the cast design.

Similar savings are possible in many types of mechanical parts. Therefore, it will pay you to know how to utilize steel. Why not write us for latest design bulletins.

## THE LINCOLN ELECTRIC COMPANY

Cleveland 17, Ohio

*The World's Largest Manufacturer of  
Arc Welding Equipment*

## Personals . . . CONTINUED

past two and a half years, was married last April to Marilyn Mangum.

### 1948

*Justin Bloom* works as a staff administrator in the experimental physics division of the University of California Radiation Laboratory in Livermore. Justin; his wife, Robbie; and their adopted daughter, Claire, make their home in Livermore. Justin is also president of the Radiation Lab Recreation Association.

*John P. Davis*, MS, who was formerly with the Hawaiian Broadcasting System, is now a member of the guided missiles division of Hughes Aircraft in Culver City.

### 1949

*Clement J. Savant, Jr.*, MS '50, PhD '53, professor of electrical engineering at USC, notifies us that he has a new home in Brentwood.

*Burton B. Rutkin*, MS '50, is traveling in Europe for several months.

*William I. Rumer*, MS '50, has been appointed head of the analysis and requirements group in the weapons control systems laboratories test equipment section of Hughes Aircraft. Bill has two children, a girl, Kim, 16 months, and a boy, Andy, 3 months old.

### 1951

*Harry T. Brackett*, MS, was killed when his test plane crashed in the Mojave Desert near Los Angeles on February 1. He was an experimental test pilot for the Chance Vought Aircraft Company in Houston, Texas. Harry leaves his parents in Sapulpa, Oklahoma, and his wife in Arlington, Virginia.

*William A. Kelley, Jr.*, who has been with the U. S. Army for the past two years, is now in the sales technical service department of the Monsanto Chemical Company's Plastics Division in Springfield, Massachusetts.

*Clarence R. Gates*, PhD, was appointed a section chief in guidance analysis at JPL in February. He's been with JPL since March 1951, and succeeds *Robert J. Parks*, '44, who is now staff engineer and directs a small staff group which will handle special systems problems. Bob starts his new job this month after a two months leave of absence in Europe.

*Edwin E. Pyatt* writes that he (1) finished his MS in sanitary engineering at Berkeley in January, 1953; (2) went on active duty with the U. S. Air Force until June, 1955 — his primary duty as commanding officer of a medical squadron at Casablanca, French Morocco, but traveling all over Europe and North Africa on official business as well; (3) from July, 1955, to date, working as a sanitary engineer for Pomeroy and Associates in Pasadena.

### 1952

*Robert C. Perpall* writes that "my wife, Doris, and I are living in Pasadena. She is working in the mechanical engineering department at Caltech, and I am on leave of absence from my job at the AiResearch Manufacturing Company while attending Caltech for the fifth year (i.e.—working for my MS in mechanical engineering).

*Tucker Carrington*, PhD, who has been with the Interior Ballistic Laboratory at Aberdeen Proving Ground in Maryland, was awarded a post doctoral research associateship last month for advanced study at the National Bureau of Standards in Washington, D.C.

*George W. Mayle*, MS, is an applications specialist in the business systems department of the Magnavox Research Laboratory in West Los Angeles.

### 1953

*Luther W. Eggman*, PhD, is now head of research work at the Industrial Nuclear Corporation in Columbus, Ohio. He's just finished an appointment at Caltech as a research fellow, working with James Bonner, professor of biology, on the biochemistry of water secretion.

### 1954

*Pehr H. Schalin*, MS, writes from Linköping, Sweden, that "after leaving Pasadena on June 25, 1955, we (myself, my wife, and two children, 2½ and 5½) crossed the continent by car, visiting an extremely interesting array of colorful spots—Grand Canyon, Bryce and Zion National Parks, Yellowstone, Niagara, etc. From there the family went on by ship to Oslo and I traveled by plane to Helsinki. In August we all met here in Linköping. My job at the Saab Aircraft Company is new, as head of the new guided missiles group. Sure could use a JPL here now.

"On the whole, I have to admit we have found more crazy things in this country now than we found when entering the U.S.! For example, this winter, which is colder than for many hundreds of years."

### 1955

*Lt. Frank C. Michel* writes from Marana Air Base in Tucson that he "will spend a year training to be an Air Force pilot (courtesy of CIT's AFROTC), then complete two years of active military duty."

*Van I. Walkley* is now on active duty in the Air Force. He is stationed at McChord Air Force Base in Tacoma, Washington, where he is a 2nd Lt. in the Engineering Section of the 325th Installations Squadron.

*Chalon L. Carnahan*, who is doing research with the Berkeley Radiation Laboratories, now has a second daughter, Lucia.