

ALUMNI NEWS

Annual Meeting

A RECORD NUMBER of 373 alumni met at the Elks Club in Pasadena for the Annual Banquet and Meeting on June 8. President DuBridge reported to alumni on developments at the Institute during the past year—and announced that for the second consecutive year the Alumni Association would make a gift of \$15,000 to the Institute in support of an Alumni Scholarship Endowment Fund. The gift adds to a fund whose income will be used to provide four-year tuition scholarships for worthy undergraduates.

Speaker of the evening was Robert L. Minckler, president of General Petroleum Corporation and Caltech trustee, who talked on "Progress in Management."

C. Vernon Newton '34 took over as president of the Alumni Association. New vice-president is William F. Nash, Jr. '38. Donald Clark '29 and George B. Holmes '38 remain as secretary and treasurer.

Newly-elected members of the Alumni Board of Directors for two-year terms are Robert H. Bungay '30, Richard H. Jahns '35, Willis R. Donahue '34, and Richard W. Stenzel '21.

Reunion classes this year included 1915, 1920, 1925, 1930, 1935, 1940, 1945 and 1950.

The class of 1920 celebrated its 35th anniversary at the Alumni Banquet, with a turnout of 11 members—nearly a third of the class. Those present gave the following rundown on what they are doing today, 35 years after leaving Tech:

<i>James R. Black</i>	General Traffic Manager, Pacific Telephone Co., Los Angeles
<i>Virgil H. Best</i>	Machine design and construction, self-employed
<i>R. H. Duguid</i>	Retired after 34 years with the Pacific Electric Railway
<i>E. Victor Hounsell</i>	Staff Engineer—Pacific Telephone Company, Los Angeles
<i>Theron C. Hounsell</i>	Electrical Engineering Associate, Dept. Water & Power, L.A.
<i>Harvey W. House</i>	Laboratory Director—Nat'l. Clay Pipe Mfrs. Assoc., Los Angeles
<i>Mark A. Sawyer</i>	Protection Engineer, Pacific Telephone Company, Los Angeles
<i>R. Carson Smith</i>	Realtor, Santa Ana, California
<i>George O. Suman, Jr.</i>	General Superintendent, Tidewater & Assoc. Oil Co., Ventura
<i>Ernest H. Swift</i>	Professor of Analytical Chemistry, Caltech

George K. Whitworth Deputy City Attorney, Dept. of Water and Power, Los Angeles

Robert Knapp Professor of Hydraulic Engineering, Caltech.

National Academy

THREE CALTECH ALUMNI were elected to the National Academy of Sciences this spring, bringing alumni membership in the organization to 24. The new members: Paul H. Emmett, PhD '25, John R. Pierce, BS '33, MS '34, PhD '36, and Saul Winstein, PhD '38.

Paul Emmett, who has been a Senior Fellow at the Mellon Institute since 1944, was graduated from Oregon State College in 1922 and received his PhD at Caltech in 1925. After a year as instructor in chemistry at Oregon State College, he spent 11 years as a chemist at the Fixed Nitrogen Laboratory of the U.S. Department of Agriculture. From 1937 to 1944 he was Professor of Chemical Engineering at Johns Hopkins University.

His researches in physical chemistry related to catalysis and surface chemistry have gained wide recognition for Dr. Emmett, and his studies of low-temperature (physical) absorption supplied the missing piece of "key" information needed by catalytic chemists for some 20 years—a method of determination of surface areas. This discovery led to the now famous Brunauer-Emmett-Teller (BET) method.

John R. Pierce joined the Bell Telephone Laboratories as a member of their technical staff immediately after receiving his PhD in electrical engineering in 1936, and he is now Director of Electronics Research at the Labs. In 1942 he received the Eta Kappa Nu Award for being the most outstanding young electrical engineer of the year, and he also received the Morris Leibmann Memorial Prize of the Institute of Radio Engineers.

Dr. Pierce's research has been in the field of electron dynamics and in the interaction of time varying fields with electron beams. He is probably most widely known for his development of the traveling wave tube idea into a useful device, which has led to some of the most significant new developments that have occurred in microwave electron tubes since the end of World War II.

Saul Winstein was born in Montreal and came to the United States at the age of 10. He was graduated from UCLA in 1934 with highest honors, and received his PhD from Caltech in 1938. He has been a member of the UCLA chemistry department since 1942, his special field being studies of rearrangements of molecules.

During the war he was director of research on a gov-

aeronautics
 astronomy
 biology
 business
 chemistry
 electronics
 engineering
 geology
 management
 mathematics
 mechanics
 metallurgy
 meteorology
 mineralogy
 nucleonics
 petroleum
 physics
 plastics
 statistics

metallurgy

Smithells, C. J., METALS REFERENCE BOOK (2 vols.) (Interscience, \$25)

All technical books are available at

VROMAN'S

Technical Book Division

695 E. Colorado St., Pasadena

SY. 3-1171

RY. 1-6669

Industrial Discount
 Inquiries Welcomed

Write for
 Free Catalog

Oil Properties Consultants, Inc.

Complete Petroleum and Production
 Engineering Service

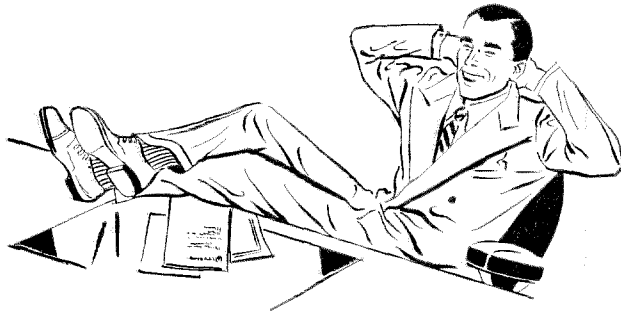
Subsurface Geology • Micropaleontology
 Reservoir Mechanics
 Secondary Recovery and Evaluation
 Registered Engineers

Petroleum Engineering Associates, Inc.

Complete Laboratory Service

Core-Analysis • PVT • Fractional Analysis
 Florent H. Bailly, '27 René Engel, Ph.D. '33
 709-711 South Fair Oaks Avenue SYcamore 3-1156
 Pasadena 2, California RYan 1-8141

SIT BACK AND RELAX



Let Calmec Manufacturing Company
 Worry About
 Your Metal Parts and Products

We have the most modern facilities and most complete plant to give you the maximum of service, whether it is a small part, a large part, or a product from your ideas to the shipped article direct to your customers, under your name, from our plant.

CALMEC MANUFACTURING CO.

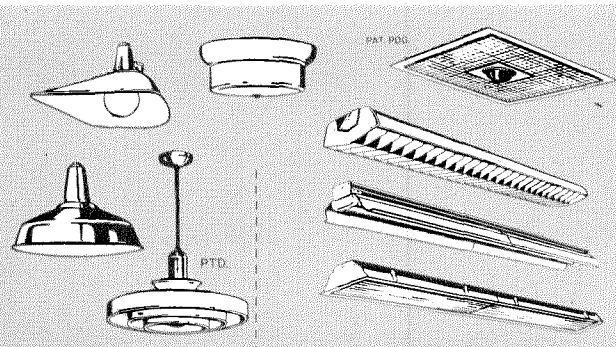
Robert A. McIntyre, M.S. '38 Kimball 6204
 5825 District Blvd. Los Angeles 22, Calif.

ALUMNI NEWS . . . CONTINUED

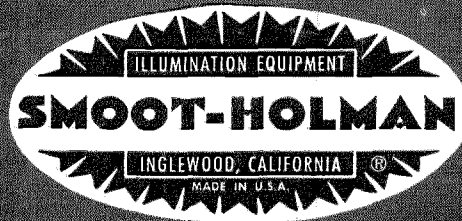
ernment contract investigating treatment of malaria. In 1948 he won the American Chemical Society's \$1000 award in Pure Chemistry. During the past year he has been serving as Faculty Research Lecturer at UCLA, the highest faculty honor on that campus.

Caltech alumni previously elected to the National Academy of Sciences, aside from those on the Caltech staff, include: Robert B. Brode, PhD '24, Sterling B. Hendricks, PhD '26, Edwin M. McMillan, MS '29, Joseph E. Mayer, '32, Wolfgang K. H. Panofsky, PhD '42, Kenneth S. Pitzer, '35, William B. Shockley, '32, E. Bright Wilson Jr., PhD '33, and William G. Young, PhD '29.

Other alumni elected to membership in the Academy, and now on the staff of the Institute, total 12. They are: Carl D. Anderson, BS '27, PhD '24, Richard M. Badger, BS '21, PhD '24, Hugo V. Benihoff, PhD '35, James F. Bonner, PhD '34, J. W. M. DuMond, BS '16, PhD '29, Charles Lauritsen, PhD '29, Linus Pauling, PhD '25, H. P. Robertson, PhD '25, Oliver R. Wulf, PhD '26, Don M. Yost, PhD '26; and from Mt. Wilson and Palomar Observatories, Horace W. Babcock, BS '34, and Ira S. Bowen, PhD '26.



LOOK TO...



FOR QUALITY LIGHTING

sales offices
 in most
 principal cities
 SAN FRANCISCO
 branch office
 and warehouse

SMOOT-HOLMAN COMPANY
 P. O. BOX 398 • DEPT. C • INGLEWOOD, CALIF.

Please send me complete
 lighting literature for:

COMMERCIAL INDUSTRIAL
 SCHOOL OR INSTITUTIONAL FLOOD

NAME _____
 ADDRESS _____
 CITY _____ ZONE _____ STATE _____