Annual Meeting

A RECORD NUMBER of 378 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. '36, Donald Clark '29 and George B. Holmes '38 remain as secretary and treasurer.


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:

- James R. Black: General Traffic Manager, Pacific Telephone Co., Los Angeles
- Virgil H. Best: Machine design and construction, self-employed
- R. H. Duguid: Retired after 34 years with the Pacific Electric Railway
- E. Victor Hounsell: Staff Engineer—Pacific Telephone Company, Los Angeles
- Harvey W. House: Laboratory Director—Nat'l. Clay Pipe M'rs, Assoc., Los Angeles
- Mark A. Sawyer: Protection Engineer, Pacific Telephone Company, Los Angeles
- R. Carson Smith: Realtor, Santa Ana, California
- George O. Suman, Jr.: General Superintendent, Tidewater & Assoc., Oil Co., Ventura
- Ernest H. Swift: 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-
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