

"Everybody Wins," by Gordon Cain



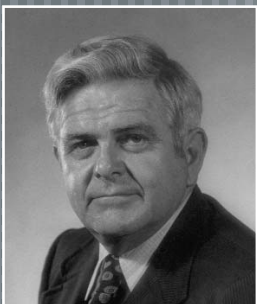
INDUSTRIAL EXECUTIVES

The chemical engineering discipline has produced many noteworthy contributors to the modern world. This extends to the world of business.

In this issue of *CEP*, AIChE's Centennial Celebration Committee presents a selection of corporate executives with backgrounds in chemical engineering.



W. Kenneth Davis



Ed Ekholm



Aaron Fischer



Joseph J. Jacobs

THEODORE A. BURTIS*

Chemical engineering degree, Carnegie Mellon Univ., 1943. CEO and President, Sun Oil (now Sunoco). Led Sun Oil's petroleum redirection, including first exploration into China, 1982. AIChE President, 1967.

GORDON ARBUTHNOT CAIN*

(1912–2002) BS in chemical engineering, Louisiana State Univ., 1933. Established Vista Chemical, Sterling Group and three biotech companies. Pioneered employee ownership and involvement in strategic directions. Author of "Everybody Wins: A Life in Free Enterprise" (Chemical Heritage Press).

VINCENT A. CALARCO

Born 1943. BS in chemical engineering, Polytechnic Institute of Brooklyn, 1970. CEO, Crompton & Knowles; President, Uniroyal. Recipient of Palladium Medal. Specialty chemicals expertise.

WORLEY H. CLARK

Born 1933. BS in industrial engineering, North Carolina State Univ. Board Chairman, Millennium; CEO, Nalco. Honored by Outstanding Directors Exchange (OCX) for courageous contributions.

LODWRICK M. COOK

Born 1928. Degree in mathematics, Louisiana State Univ., 1950. Chairman and CEO, ARCO. Developed Alaska oil reserves and pipeline; pioneer in developing cleaner-burning gasoline.

PAUL COOK

Born 1924. Chemical engineering degree, MIT. Founder, Raychem, Diva Systems and SRI International. CEO, Sarnoff Board. Established SRI Radiation Engineering Laboratory.

W. KENNETH DAVIS*

(1918–2005) BS (1940) and MS (1942) in chemical engineering, MIT. Head of U. S. Atomic Energy Commission under Dwight Eisenhower; VP, Bechtel Nuclear; Deputy Secretary of Energy under Ronald Reagan; President of Atomic Industrial Forum. AIChE President, 1981.

ED L. EKHOLM

(1925–2006) BS in chemical engineering, Georgia Institute of Technology, 1946. Founder, Pace Co.; Engineering founder and director, Bechtel's Venezuelan Oil Program; plant experience with Fisher Tropsch, working with butyl rubber, ethylene. AIChE Director (1970–1972); recipient of AIChE Founders Award, 1990.

AARON FISCHER*

(1906–1994) BS in chemical engineering, Washington Univ., St. Louis, 1928. Co-founder, Sigma-Aldrich. Expertise in inks, dyes, adhesives developed during the Great Depression.

ARNOLD J. FRANKEL*

(1921–1998) Chemical engineering degree, City College of the City Univ. of New York, 1942. Co-founder and former Chairman, Aceto Corp.



CRAWFORD H. GREENEWALT*

(1902–1993) SB degree, MIT, 1922. CEO, DuPont; established pre-eminent position in polymers and move to new materials; headed Hanford nuclear program. One of the leaders on the Manhattan Project. “The Wizard of Wilmington” (*Time* magazine story, Apr. 16, 1951).

ANDREW GROVE

Born 1936. BS in chemical engineering, City College of the City Univ. of New York, 1960; PhD, Berkeley, 1963. CEO and Chairman, Intel; moved company from memory chip development to current business.

ROBERT C. GUNNESS*

(1911–2004) SM (1934) and ScD (1936) degrees in chemical engineering, MIT. President, Standard Oil (Indiana); Chemical and petroleum process developments.

JOHN C. HAAS

Born 1918. MS in chemical engineering, MIT, 1942. CEO, Rohm & Haas. AIChE and Chemical Heritage Foundation advocate.

JOHN R. HALL

Born 1932. Chemical engineering degree, Vanderbilt Univ., 1955. CEO, Ashland; restructured and built up company. Played a key role in establishing international petrochemical conferences.

JOSEPH J. JACOBS*

(1916–2004) Chemical engineering BS, MS, PhD (1932), Polytechnic Institute of Brooklyn. Organizational visionary and founder of Jacobs Engineering. Hoover Medal recipient, 1983.

WILLIAM H. JOYCE

Born 1936. BS in chemical engineering, Penn State Univ. CEO, Nalco, Hercules and Union Carbide. Recipient of National Medal of Technology and Plastics Academy’s Industry Achievement Awards.

RAPHAEL KATZEN

Born 1915. BChE, MChE, DChE degrees, Polytechnic Institute of Brooklyn. Founder, Raphael Katzen Associates, a company with innovative renewable resource focus. Recipient of AIChE’s Founders Award, 2001.

PAUL OREFFICE

Born Venice, Italy, 1927. BS in chemical engineering, Purdue Univ., 1949. CEO and President, Dow Chemical Co.; led global enterprise and moves into new businesses, e.g., pharmaceuticals. Author and subject of the book, “Only in America: From Immigrant to CEO” (Stroud & Hall).

LEE RAYMOND

Born 1938. BS in chemical engineering, Univ. of Wisconsin, Madison, 1960; PhD, Univ. of Minnesota, 1963. CEO and President, Exxon; led major corporate makeover during decades of supply/demand upheavals.

KENNETH J. RICHARDS

Born 1938. BS in chemical engineering, Univ. of Utah, 1956. President, Kerr-McGee. Contributions to developing advanced copper smelting technology.

C. J. “PETE” SILAS

Born 1932. Chemical engineering degree, Georgia Institute of Technology. President, Phillips Petroleum. Multi-structure field development of unique Ekofisk concrete gravity-base structure tank.

HAROLD A. SORGENTI

Born 1934. BS in chemical engineering, City College of the City Univ. of New York, 1956; MS, Ohio State Univ., 1959. CEO, ARCO Chemical. Co-inventor of dominating polypropylene oxidation process.

JOHN E. SWEARINGEN*

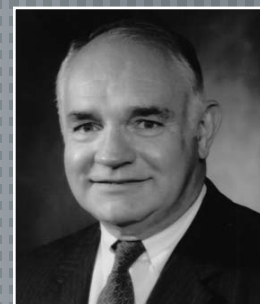
1918–2007. BS (1938) and MSc (1939) in chemical engineering, Univ. of South Carolina. CEO, Standard Oil (Indiana); led major streamlining of operations and business units. Member of AIChE for 68 years.

JOHN F. WELCH

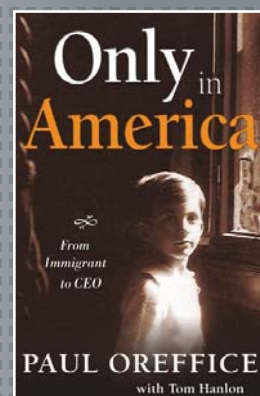
Born 1935. BS in chemical engineering, Univ. of Massachusetts, Amherst, 1957; MS and PhD in chemical engineering, Univ. of Illinois, Urbana-Champaign, 1960. Chairman and CEO, General Electric; presided over GE’s increase in size and scope.



Andrew Grove



John Hall



“Only in America,” by Paul Oreffice



Hal Sorgenti



Jack Welch

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Visit www.aiche.org/100

*Indicates Foundation Age recognitions (i.e., engineers who had attained the equivalent of AIChE Senior Member status during or prior to World War II).

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