An E&AS Who’s Who: Recipients of the Caltech Distinguished Alumni Award

We realized a while back that nowhere has the Engineering and Applied Science Division collected and published the names of all of its Distinguished Alumni. The Distinguished Alumni Award is the highest honor the Institute bestows upon an alumnus/a. It is in recognition of extraordinary achievement in business, community, and professional life, and may be acknowledging a particular achievement of noteworthy value, a series of such achievements, or a career of noteworthy accomplishment.

The award was initiated as part of Caltech’s 75th Anniversary celebration in 1966. Nominations are made by a joint faculty-alumni committee and confirmed by the Board of Trustees; the awards are presented at a ceremony during Caltech’s annual Alumni Seminar Day.

So, here they are. We salute each and every one. Their contributions reflect well on Caltech and the Division, and they deserve wide recognition among their fellow alumni and the larger community. Kudos!

A note on the listing: The E&AS recipients are listed alphabetically by decade of first Caltech degree. The year in parentheses just after the name is the year the Distinguished Alumni Award was received. The title below the name reflects the position the person held at the time the award was given. (d) indicates the person has passed away.

1920s

James Boyd (d) (1966)
President, Cooper Range Company
BS 1927 Ec

Richard G. Folsom (d) (1966)
President, Rensselaer Polytechnic Institute
BS 1928 ME, MS 1929 ME, PhD 1932 ME

W. Morton Jacobs (1971)
President and Executive Officer, Southern California Gas Company
BS 1928 ME

Mark Serrurier (d) (1981)
Retired. Worked on the design of the 200 inch telescope at Mt. Palomar; assisted with continuing development and modernization of the “Moviola” used for film editing, received an “Oscar” for this work.
BS 1926 CE

1930s

Horace Babcock (1994)
Director Emeritus, Observatories of the Carnegie Institute of Washington
BS 1934 CE

Francis H. Clauser (1966)
Academic Vice Chancellor, University of California, Santa Cruz
BS 1934 Ph, MS 1935 ME, PhD 1937 Ae

Trenton R. Dames (d) (1993)
Co-founder, Dames and Moore
BS 1933 CE, MS 1934 CE

Frank W. Davis (1968)
President, Fort Worth Division, General Dynamics Corporation
BS 1936 ME

Louis G. Dunn (d) (1974)
Retired
BS 1936 Ae, MS 1937 ME, MS 1938 Ae, PhD 1940 Ae

Warren E. Fenzi (1977)
President, Phelps Dodge Corporation
BS 1937 CE

Arthur T. Ippen (d) (1970)
Ford Professor of Engineering, Massachusetts Institute of Technology
MS 1935 CE, PhD 1936 CE

John G. McLean (d) (1970)
President, Continental Oil Company
BS 1938 APh

John R. McMillan (d) (1980)
Chairman of the Board, Reserve Oil and Gas Company, Los Angeles, California
BS 1931 ME

William W. Moore (1993)
Co-founder, Dames and Moore
BS 1933 CE, MS 1934 CE

Walter H. Munk (1966)
Associate Director, Institute of Geophysics and Planetary Physics, University of California, San Deigo
BS 1939 APh, MS 1940 Ge

Bernard M. Oliver (d) (1972)
Vice President, Hewlett-Packard
MS 1936 EE, PhD 1940 EE

John R. Pierce (1966)
Executive Director, Research Communications Sciences Division, Bell Telephone Laboratories
BS 1933 EE, MS 1934 EE, PhD 1936 EE

Louis T. Rader (1966)
Vice President, General Manager, Information Systems Division, General Electric Company
MS 1935 EE, PhD 1938 EE

L. James Rainwater (d) (1976)
Professor of Physics, Columbia University
BS 1939 APh

L. Eugene Root (d) (1966)
President, Lockheed Missiles and Space Company
MS 1933 ME, MS 1934 Ae

William R. Sears (1988)
Professor, Aerospace and Mechanical Engineering, University of Arizona
PhD 1938 Ae
Hsue-Shen Tsien (1979)
Chairman, Institute of Mechanics, National Academy of Science, Beijing, China
PhD 1939 Ae

Victor V. Veysey (1976)
Assistant Secretary for Civil Works, U.S. Department of the Army
BS 1936 CE

1940s
Mihran S. Agbabian (2000)
Fred Champion Professor Emeritus of Civil Engineering, University of Southern California
MS 1948 CE

William F. Ballhaus (1978)
President, Beckman Instruments, Inc.
PhD 1947 Ae

Arthur E. Bryson, Jr. (1991)
Pigott Professor of Engineering, Department of Aeronautics and Astronautics, Stanford University
MS 1949 Ae, PhD 1951 Ae

William J. Carroll (1996)
Vice Chairman, Board of Directors, Montgomery Watson, Consulting Engineers, Inc., Pasadena, CA
BS 1948 CE, MS 1949 CE

Joseph V. Charyk (1966)
President, Communications Satellite Corporation
MS 1943 Ae, PhD 1946 Ae

Earnest H. Clark, Jr. (1981)
President/Chief Executive Officer, Baker Oil Tools, Inc., Baker International Corporation
BS 1946 ME, MS 1947 ME

Julian D. Cole (d) (1971)
Professor and Chairman, Department of Mechanics, University of California, Los Angeles
MS 1946 Ae, Eng 1946 Ae, PhD 1949 Ae

Satish Dhawan (1969)
Director, Indian Institute of Science
Eng 1949 Ae, PhD 1951 Ae

Yuan-Cheng B. Fung (1994)
Professor of Bioengineering and Applied Mechanics, Emeritus, University of California, San Diego
PhD 1948 Ae

Thomas Hudspeth (1993)
Chief Scientist, Space and Communications Group, Hughes Aircraft Company
BS 1941 EE

Hassan M. Ismail (d) (1972)
President, Cairo University
PhD 1941 CE

Chia-Chiao Lin (1992)
Institute Professor, Emeritus, Massachusetts Institute of Technology
PhD 1944 Ae

Paul B. MacCready, Jr. (1978)
President, AeroVironment, Inc.
MS 1948 Ph, PhD 1952 Ae

Richard H. MacNeal (1998)
Chairman and Chief Executive Officer, The MacNeal-Schwendler Corporation
MS 1947 EE, PhD 1949 EE

Benoit B. Mandelbrot (1988)
IBM Fellow, T. J. Watson Research Center, Abraham Robinson Professor of Mathematical Sciences, Yale University
MS 1948 Ae, Eng 1949 Ae

Duane T. McRuer (1983)
President and Technical Director, Systems Technology, Inc., Hawthorne, California
BS 1945 ME, MS 1948 ME

Ruben F. Mettler (1966)
President, TRW, Inc.
BS 1944 EE, MS 1947 EE, PhD 1949 EE

John W. Miles (1997)
Professor of Applied Mechanics and Geophysics, University of California, San Diego
BS 1942 Eng, MS 1943 Ae, MS 1943 EE, AeE 1944 Ae, PhD 1944 Ae

Robert L. Noland (1989)
President and CEO, Ketema, Inc., Odenton, MD
BS 1941 ME

Stanley C. Pace (1987)
Chairman and Chief Executive Officer, General Dynamics Corporation
MS 1949 Ae

Robert J. Parks (1992)
Deputy Director, Retired, Jet Propulsion Laboratory
BS 1944 EE

Allen E. Puckett (1970)
Executive Vice President and Assistant General Manager
Hughes Aircraft Company
PhD 1949 Ae

Eberhardt Rechtin (1984)
President, Aerospace Corporation
BS 1946 EE, PhD 1950 EE

Harold A. Rosen (1976)
Vice President for Engineering, Space and Communications Group, Hughes Aircraft Company
MS 1948 EE, PhD 1951 EE

Glenn A. Schurman (1994)
Corporate Vice President of Oil Field Development and Production Operations, Chevron Corporation
MS 1946 ME

Vernon L. Smith (1996)
Regents’ Professor of Economics, Department of Economics, University of Arizona
BS 1949 EE

Douglas C. Strain (1986)
Vice Chairman, Board of Directors, Electro Scientific Industries
BS 1948 EE
Kiyo Tomiyasu (2002)  
Consulting Engineer, Lockheed Martin Corporation  
BS 1940 EE

Max L. Williams, Jr. (1995)  
Dean, Emeritus, School of Engineering, University of Pittsburgh  
MS 1947 Ae, Eng 1948 Ae, PhD 1950 Ae

Thornton A. Wilson (d) (1968)  
Executive Vice President, Boeing Company  
MS 1948 Ae

Abe M. Zarem (1969)  
Retired, Electro-Optical Systems  
MS 1940 EE, PhD 1944 EE

1950s

Moshe Arens (1980)  
President, Cybernetics, Inc.  
Savyon, Israel  
MS 1953 ME

Frank Borman (1966)  
Colonel, United States Air Force  
MS 1957 Ae

Richard D. DeLauer (d) (1985)  
President, Orion Group Ltd.  
Eng 1950 Ae, PhD 1953 Ae

James E. Hall (2001)  
President, Chaparral Cars Incorporated  
MS 1957 ME

Steingrimur Hermannsson (1986)  
Prime Minister, Iceland  
MS 1952 EE

Anthony J. Iorillo (1990)  
President, Space and Communications Group, Hughes Aircraft Company  
BS 1959 ME, MS 1960 Ae

Jack L. Kerrebrock (1997)  
Richard Cockburn Maclaurin Professor of Aeronautics and Astronautics, Massachusetts Institute of Technology  
PhD 1956 ME

Max V. Mathews (1989)  
Professor of Music (Research), Stanford University  
BS 1950 EE, BS 1950 ME

H. Edwin Reinecke (1969)  
Lieutenant Governor, California  
BS 1950 ME

George E. Solomon (1983)  
Vice President and General Manager, Electronics and Defense, TRW, Inc.  
MS 1950 Ae, PhD 1953 Ae

Alvin W. Trivelpiece (1987)  
Director of Office of Energy Research, U.S. Department of Energy  
MS 1955 EE, PhD 1958 EE

Donald L. Turcotte (1999)  
Professor of Geological Sciences, Cornell University  
BS 1954 ME, PhD 1958 Ae

1960s

Robert W. Bower (2001)  
Professor, University of California, Davis  
MS 1963 EE, PhD 1973 APH

Chairman of the Board, New Focus, Inc., Santa Clara, CA  
MS 1965 EE, PhD 1969 Eng

Robert W. Conn (1998)  
Dean, School of Engineering and Walter J. Zable Professor of Engineering, University of California, San Diego  
MS 1965 ME, PhD 1968 ES

James J. Duderstadt (1989)  
President, University of Michigan  
MS 1965 ES, PhD 1968 ES

Philip Mwangi Githinji (1993)  
Vice Chancellor, Kenyatta University  
MS 1961 ME, Eng 1963 ME

Robert Merton (1999)  
John and Natty McArthur University Professor  
Graduate School of Business Administration, Harvard University  
MS 1967 AMA

Roddam Narasimha (1986)  
Director, National Aeronautical Laboratory, Indian Institute of Science  
PhD 1961 Ae

Navin C. Nigam (1991)  
Director (President), India Institute of Technology, Delhi  
PhD 1967 CE

Ozires Silva (1992)  
Minister of Infrastructure, Brazil  
MS 1966 Ae

President and CEO, Trimble Navigation  
BS 1963 Eng, MS 1964 EE

1970s

Yoshiaki D. Hagiwara (2000)  
Assistant to General Manager, Sony Corporation, Atsugi Technology Center  
BS 1971 Eng, MS 1972 EE, PhD 1975 EE

Henry C. Yuen (1999)  
Chief Executive Officer  
Gemstar Development Corporation  
PhD 1973 AMa

1980s

Arati Prabhakar (1995)  
Director, U.S. National Institute of Standards and Technology  
MS 1980 EE, PhD 1985 APH

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