



UNIVERSITY OF CALIFORNIA, BERKELEY

Civil and Environmental Engineering
Academy of Distinguished Alumni

Induction and Banquet for Inaugural Class
University Club, Memorial Stadium
November 8, 2012

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Franklin J. Agardy, Ph.D., P.E.

Mihran S. Agbabian, Ph.D., N.A.E.

Rudolph Bonaparte, Ph.D., P.E., N.A.E.

David A. Friedman, BSCE, P.E., S.E.

Paul H. Gilbert, MSCE, N.A.E., P.E.

Richard E. Goodman, Ph.D., N.A.E.

David I. Jenkins, Ph.D., N.A.E.

Adib K. Kanafani, Ph.D., N.A.E.

Richard W. Karn, BSCE, P.E.

Michael C. Kavanaugh, Ph.D., P.E., N.A.E.

James H. Kleinfelder, MSCE, P.E.

Richard G. Luthy, Ph.D., P.E., N.A.E.

James K. Mitchell, Sc.D., P.E., N.A.E., N.A.S.

Carl L. Monismith, MSCE, P.E., N.A.E.

Karl S. Pister, Ph.D., N.A.E.

Leslie E. Robertson, BSCE, P.E., S.E., N.A.E.

Awtar Singh, Ph.D., P.E., G.E.

Robert L. Taylor, Ph.D., N.A.E.

R. Rhodes Trussell, Ph.D., P.E., N.A.E.

James D.A. van Hoften, Ph.D.

Robert P. Wadell, MSCE, P.E.

Robert L. Wiegel, MSME, N.A.E.

Edward L. Wilson, D. Eng., N.A.E.

Loring A. Wyllie, Jr., MSCE, P.E., S.E., N.A.E.

Peter I. Yanev, MSCE

Victor A. Zayas, Ph.D., P.E.

University of California, Berkeley

Robert J. Birgeneau, Chancellor

College of Engineering

S. Shankar Sastry, Dean

Department of Civil and Environmental Engineering (CEE)

Samer M. Madanat, Department Chair

Nicholas Sitar, Chair,

CEE Academy of Distinguished Alumni Charter Committee

Lisa Alvarez-Cohen, Past Department Chair and Vice Chair,

CEE Academy of Distinguished Alumni Charter Committee

CEE Advisory Council

David A. Friedman, Chair

Rudolph Bonaparte, Past Chair

PROGRAM

- 5:00-6:00 PM RECEPTION – UNIVERSITY CLUB, 8TH Level
- 5:30 PM *SAMER M. MADANAT, Xenel Professor of Engineering and Chair, Department of Civil and Environmental Engineering*
- 5:35 PM *ROBERT J. BIRGENEAU, Chancellor University of California, Berkeley*
- 5:45 PM *DAVID A. FRIEDMAN, Senior Principal & Chair Forell/Elsesser Engineers, Inc.*
- 6:00 PM TRANSITION TO FIELD CLUB, Plaza Level
- 6:15 PM DINNER
- 6:15-6:30 PM *PERFORMANCE BY THE GOLDEN OVERTONES*
- 7:00 PM DESSERT
- 7:00-7:10 PM OVERVIEW OF THE ACADEMY OF DISTINGUISHED ALUMNI AND RECOGNITION/ACKNOWLEDGEMENTS OF SPONSORS
- NICHOLAS SITAR, Edward G. Cahill and John R. Cahill Professor, Department of Civil and Environmental Engineering*
- 7:10-7:25 PM BRIEF HISTORY OF CEE
- KARL S. PISTER, Dean Emeritus, College of Engineering, U.C. Berkeley; Chancellor Emeritus, U.C. Santa Cruz*

7:25-7:30 PM INTRODUCTION TO THE CEREMONY

SAMER M. MADANAT, Xenel Professor of Engineering and Chair, Department of Civil and Environmental Engineering

7:30-8:20 PM INDUCTION CEREMONY AND PRESENTATION OF CERTIFICATES

Reader: *LISA ALVAREZ-COHEN, Fred and Claire Sauer Professor, Department of Civil and Environmental Engineering*

Presenter: *SAMER M. MADANAT, Xenel Professor of Engineering and Chair, Department of Civil and Environmental Engineering*

8:20-8:30 PM CONCLUSION AND ADJOURNMENT

LISA ALVAREZ-COHEN, Fred and Claire Sauer Professor, Department of Civil and Environmental Engineering

RUDOLPH BONAPARTE, Chair, President and CEO, Geosyntec Consultants, Inc.

UNIVERSITY OF CALIFORNIA, BERKELEY

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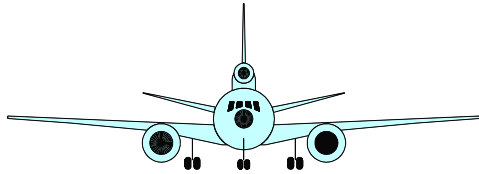
David Friedman & Paulette Meyer
Mrs. Phyllis Friedman

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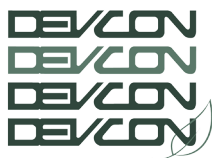
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2012
INAUGURAL CLASS

Civil and Environmental Engineering
Academy of Distinguished Alumni

Franklin J. Agardy

Ph.D., Civil (Sanitary) Engineering (1962)
M.S., Civil (Sanitary) Engineering (1958)



For leadership in teaching, research, and practice related to environmental engineering, water quality, drinking water protection, hazardous and industrial waste management, and environmental forensics, and for authorship of several books on these topics; and, for service to the Department of Civil and Environmental Engineering as a founding member of the CEE Advisory Council.

Mihran S. Agbabian

Ph.D., Civil (Structural) Engineering (1951)



For leadership in the development and application of advanced methods of applied mechanics to structural design, including the response of structures to blast and shock, and reduction of the seismic vulnerability of existing structures; and, for contributions to higher education through his efforts to establish the American University of Armenia and then affiliate it with the University of California System.

Rudolph Bonaparte

Ph.D., Civil (Geotechnical) Engineering (1981)

M.S., Civil (Geotechnical) Engineering (1978)



For leadership in the practice and business of geotechnical and geoenvironmental engineering and hazardous and low-level radioactive waste management; and, for contributions to the Department of Civil and Environmental Engineering as a founding member and former Chair of the CEE Advisory Council, and for his efforts as a member of the Council to establish the Civil and Environmental Engineering Student Leadership Endowment and the Student Leadership Certificate Program.

David A. Friedman

B.S., Civil Engineering (1975)

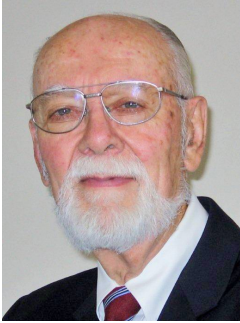


For leadership in the practice and business of structural and earthquake engineering design, with a special focus on designated historical structures; for service to the Berkeley campus through his leadership on the structural elements of the seismic safety retrofit of Memorial Stadium; and, for contributions to the Department of Civil and Environmental Engineering as a founding member and current Chair of the CEE Advisory Council and for establishing with his family the CEE Faculty Chair in Earthquake Engineering Excellence.

Paul H. Gilbert

M.S., Civil (Structural) Engineering (1960)

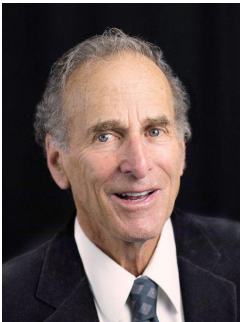
B.S., Civil Engineering (1959)



For leadership in the practice and business of civil engineering design and construction management applied to the execution of major complex projects; and, for contributions to the Department of Civil and Environmental Engineering as a founding member of the CEE Advisory Council, and to the University of California System as a member of the Project Management Oversight Panel for the U.C. President's Council overseeing the Lawrence Berkeley, Livermore, and Los Alamos National Laboratory contracts.

Richard E. Goodman

Ph.D., Mining (Geological) Engineering (1964)



For leadership through teaching and research in engineering geology and rock mechanics, and for contributions to higher education through authorship of five fundamental and advanced texts; and, for more than 40 years of dedicated service in teaching and research to the Department of Civil and Environmental Engineering, including as Chair of the Division of Geotechnical Engineering and as Chair of the Faculty of the College of Engineering.

David I. Jenkins

Honorary Member



For leadership in improving water quality worldwide through applied research on biological wastewater treatment processes, and water and wastewater chemistry and microbiology; and, for contributions to the Department of Civil and Environmental Engineering through more than 40 years of dedicated service as a teacher and researcher, including as Chair of the Division of Environmental Engineering, Vice Chair of the Department, and Director of the Environmental Engineering and Health Sciences Research Laboratory.

Adib K. Kanafani

Ph.D., Civil (Transportation) Engineering (1969)

M.S., Civil (Transportation) Engineering (1967)



For leadership in national and international air transportation planning and systems, the development of U.S. research on air transportation, and the education of transportation professionals now working around the globe; and, for contributions to the Department of Civil and Environmental Engineering through nearly 40 years of dedicated teaching, research, and service, including as Department Chair and Director of the Institute for Transportation Studies.

Richard W. Karn

B.S., Civil Engineering (1950)



For leadership in the practice and business of civil engineering applied to the design of transportation systems, water and wastewater management systems, and flood control systems throughout central and northern California; for service to the American Society of Civil Engineers, including as National President; and for contributions to the Department of Civil and Environmental Engineering as a long-time supporter of the Department.

Michael C. Kavanaugh

Ph.D., Civil (Sanitary) Engineering (1974)

M.S., Chemical Engineering (1964)



For leadership in research and practice in the field of environmental engineering, particularly as it relates to water quality and the remediation of contaminated groundwater and soils, in promoting academic-industry collaboration, and in long-time service to the National Research Council; and, for contributions to the Department of Civil and Environmental Engineering as a founding member and former Vice Chair of the CEE Advisory Council, and as a long-time supporter of the Department.

James H. Kleinfelder

M.S., Civil (Geotechnical) Engineering (1962)

B.S., Civil Engineering (1956)



For leadership in the practice and business of geotechnical engineering; for service as National President to both the American Society of Foundation Engineers and the Hazardous Waste Action Coalition; and, for long-time contributions to the Department of Civil and Environmental Engineering, including the establishment of the James H. Kleinfelder Fellowship in Geotechnical Engineering.

Richard G. Luthy

Ph.D., Civil (Environmental) Engineering (1976)

M.S., Civil (Environmental) Engineering (1974)

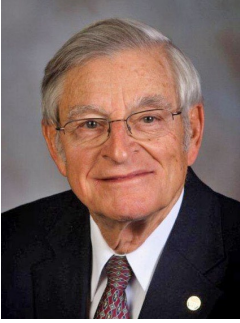
B.S., Chemical Engineering (1967)



For leadership in teaching and research related to the treatment of industrial wastewaters, contaminated sediments, and contaminated groundwater; for being a long-time champion of university research collaboration, particularly between Stanford and Berkeley CEE faculty; and, for contributions to the Department of Civil and Environmental Engineering through service on the CEE Advisory Council.

James K. Mitchell

Honorary Member

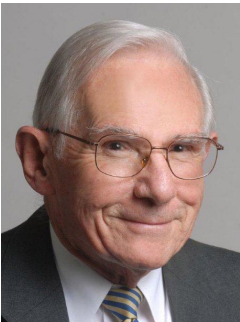


For leadership in research, teaching, and practice related to the engineering properties of soils, ground improvement, geotechnical engineering, earthquake hazard mitigation, and environmental geotechnics; for leadership in, and contributions to, engineering education; and, for contributions to the Department of Civil and Environmental Engineering through more than 35 years of dedicated service as member of the faculty, including as Department Chair, and Chair of the Division of Geotechnical Engineering.

Carl L. Monismith

M.S., Civil (Transportation) Engineering (1954)

B.S., Civil Engineering (1950)



For leadership in research, teaching, and practice related to asphalt pavement technologies that have led directly to improved methods of pavement design and rehabilitation; and, for contributions over nearly 50 years as a dedicated member of the faculty of the Department of Civil and Environmental Engineering, including as Department Chair, Chair of the Division of Transportation Engineering, and Director of the Pavement Research Group of the Institute of Transportation Studies.

Karl S. Pister

M.S., Civil (Structural) Engineering (1948)

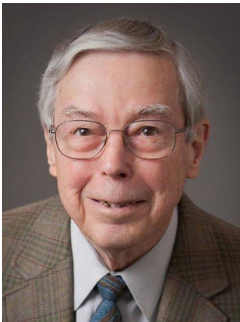
B.S., Civil Engineering (1945)



For leadership in the application of advanced engineering mechanics principles to understand the behavior of structural materials; and, for leadership in, and contributions to, engineering education; and, for 60 years of contributions to the Department of Civil and Environmental Engineering, the College of Engineering, the Berkeley campus, and the University of California System, including as Chair of the Division of Structural Engineering and Structural Mechanics, Dean of the College of Engineering, and Chancellor of U.C. Santa Cruz.

Leslie E. Robertson

B.S., Civil Engineering (1952)



For leadership in the groundbreaking design of tall buildings and development and application of wind-engineering principles to tall-building design for assurance of safety and serviceability; for his support of many humanitarian and philanthropic causes; and for contributions to the Department of Civil and Environmental Engineering through his long-time support and sponsorship of a student scholarship.

Awtar Singh

Ph.D., Civil (Geotechnical) Engineering (1966)



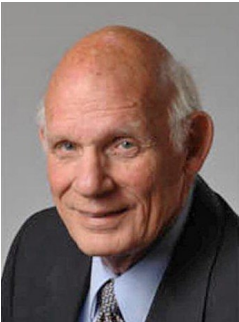
For leadership in the practice and business of geotechnical engineering, particularly as applied to the investigation, stabilization, and repair of landslides and earthwork construction defects; for his service in a range of philanthropic activities; and, for his contributions to the Department of Civil and Environmental Engineering through sponsorship of the Awtar and Teji Singh Fellowship Endowment.

Robert L. Taylor

Ph.D., Civil (Structural) Engineering (1963)

M.S., Civil (Structural) Engineering (1958)

B.S., Civil Engineering (1957)



For leadership in research, development, and application of the finite element method of analysis in structural mechanics and related areas; for leadership in education through authorship of several reference books and the development of finite element software now used around the world; and, for contributions to the Department of Civil and Environmental Engineering through more than 40 years of dedicated teaching, research, and service.

R. Rhodes Trussell

Ph.D., Civil (Sanitary) Engineering (1972)
M.S., Civil (Sanitary) Engineering (1967)
B.S., Civil Engineering (1966)



For leadership in research, practice, and business in the fields of water quality and water reuse, and particularly in the area of reactor theory as applied to water disinfection and related water treatment technologies; and, for contributions to the Department of Civil and Environmental Engineering through service on the CEE Advisory Council and as a long-time supporter of the Department.

James D. A. van Hoften

B.S., Civil Engineering (1966)



For leadership in the direction and management of major airport design and construction projects around the globe; for service to the U.S. space exploration program as a NASA Space Shuttle Astronaut; and, for contributions to Department of Civil and Environmental Engineering as a founding member of the CEE Advisory Council, to the College of Engineering as a member of the Boards of the Engineering Alumni Society and the Berkeley Engineering Foundation, and to the Berkeley campus as a member of the Board of Trustees of the U.C. Berkeley Foundation.

Robert P. Wadell

M.S., Civil (Transportation) Engineering (1968)

B.S., Civil Engineering (1967)



For leadership in the practice and business of airport master planning, environmental analysis, design, and construction management in the U.S. and internationally; and, for contributions to the Department of Civil and Environmental Engineering through service on the CEE Advisory Council, including as current Vice Chair, and the establishment of the Robert P. Wadell P.E., F. ASCE, Endowed Scholarship Fund for undergraduate students in the Department.

Robert L. Wiegel

M.S. Mechanical Engineering (1949)

B.S. Mechanical Engineering (1943)



For leadership in pioneering the application of the scientific principles and empirical findings of oceanography to the solution of civil engineering problems in the ocean, including coastal engineering, coastal wave characteristics, beach processes, and wave forces on offshore pipelines and platforms; and, for contributions to the Department of Civil and Environmental Engineering and the College of Engineering through more than 50 years of dedicated service in teaching and research positions, including as Professor, Assistant Dean, and Acting Dean.

Edward L. Wilson

D. Eng., Civil (Structural) Engineering (1963)
M.S., Civil (Structural) Engineering (1959)
B.S., Civil Engineering (1955)



For leadership in the development of structural analysis computer programs now used by engineers in the United States and around the world; and, for contributions to the Department of Civil and Environmental Engineering through more than 25 years of teaching, research, and dedicated service, including as Professor, Chair of the Division of Structural Engineering and Structural Mechanics, Vice Chair of the Department, and Chair of the Seismic Review Committee for the Berkeley campus.

Loring A. Wyllie

M.S., Civil (Structural) Engineering (1962)
B.S., Civil Engineering (1960)



For leadership in structural earthquake engineering through development of structural design requirements that incorporate lessons learned from the performance of structures in previous earthquakes; for leadership in developing and maintaining seismic building code requirements for concrete structures; and, for contributions to the Department of Civil and Environmental Engineering, as a long-time supporter, and to the Berkeley campus through the design of seismic retrofits for several campus buildings, most notably University Hall.

Peter I. Yanev

B.S., Civil Engineering (1968)



For leadership in the practice and business of earthquake, structural, and risk engineering and in international earthquake risk reduction, education, and awareness programs; and for his contributions to the Department of Civil and Environmental Engineering as a founding member of the CEE Advisory Council and as a long-time supporter of the Department.

Victor A Zayas

Ph.D., Civil (Structural) Engineering (1980)



For leadership in structural earthquake engineering innovation, through development of the Friction Pendulum Seismic Isolation system, and the Triple Pendulum Bearing system to improve the seismic performance of buildings and other structures; and, for contributions to the Department of Civil and Environmental Engineering through long-time support for, and participation in, collaborative research with Department faculty to improve seismic resilient construction of buildings.

