

ASCE STANDARD

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Seismic Analysis of Safety-Related Nuclear Structures

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DEDICATION



John D. Stevenson, Ph.D., P.E.
May 23, 1933–October 30, 2014

ASCE 4-16 is dedicated to Dr. John D. Stevenson: a leader in the nuclear energy industry for more than four decades, with seminal contributions in civil, structural, and mechanical engineering.

John Stevenson graduated with a bachelor of science degree from Virginia Military Institute (VMI) in 1954. After two years of service in the U.S. Army Corps of Engineers and six years of service on the faculty of VMI, he completed a master of science degree at Case Institute of Technology in 1962. Two years of research on nuclear weapons effects at the IIT Research Institute in Chicago followed, after which he began doctoral studies at Case Western University. He completed his Ph.D. at Case Western in 1968.

Between 1968 and 1981, John held senior positions with Westinghouse Electric Company, Case Western Reserve University, McKee and Company, and Woodward Clyde Consultants. In 1981, he founded Stevenson and Associates, a consulting engineering firm, which grew rapidly and had offices in Cleveland, Ohio; Boston, Massachusetts; Pilsen, Czech Republic; St. Petersburg, Russia; and Bucharest, Romania. He also served as a consulting engineer to the U.S. Nuclear Regulatory Commission, the Defense Nuclear Facility Safety Board, and the International Atomic Energy Agency.

John received many awards over his career, including the American Society of Civil Engineers (ASCE) Mosieff Award in 1971, the Civil Engineer of the Year in 1991 given by the Cleveland Section of the ASCE, the ASCE Stephen Bechtel Award in 1995, and the American Society of Mechanical Engineers (ASME) Bernard Langer Award in 1997.

A hallmark of John's career in the nuclear industry, which spanned more than 40 years, is his many important contributions to codes and standards for safety-related nuclear structures published by the American Concrete Institute, American Institute of Steel Construction, American Nuclear Society, American Society of Civil Engineers, and American Society of Mechanical Engineers: a broad spectrum of important contributions that collectively are likely unmatched in the nuclear industry in the United States.

John was an active member of the ASCE Committee on Dynamic Analysis of Nuclear Structures. He brought much to the committee, including a deep understanding of mechanical components and systems and ASME codes and standards. Frequently, he was the lone advocate for mechanical engineering systems in a roomful of civil and structural engineers. His efforts to extend ASCE Standards 4 and 43 to address mechanical components and systems greatly expanded the utility of these standards, which will be forever appreciated.

Through this dedication, the members of the ASCE 4 task committee acknowledge John's seminal contributions to the seismic engineering of safety-related nuclear structures. His absence from committee deliberations and vigorous discussions is, and will be, sadly missed.

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