



UNIVERSITÀ
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Dipartimento di
Ingegneria Civile,
Edile-Architettura
e Ambientale

DIPARTIMENTO
DI ECCELLENZA
— MUR —
2023-2027

Ph.D.ICEAA

**Ph.D. Program in Civil, Building Construction and
Environmental Engineering**

Chair: Prof. Federico De Matteis

Tues, May 20, 2025

3:00 pm (GMT+2)

Online seminar:

<https://tinyurl.com/526ac8rp>

**Writing a textbook, and
Geotechnical Performance-Based
Design**

Prof. Steven L. Kramer

University of Washington, Seattle, US

Prof. Kramer will give a brief and informal description of the process of writing both the first and second editions of Geotechnical Earthquake Engineering, and of the impact it has had on him and his career. He will then present a more technical seminar on performance-based design in geotechnical engineering – what it is, how it developed, what its benefits are, how it can be implemented in practice, and how it can be advanced in the future. The more technical presentation should be of interest to both geotechnical and structural engineering students interested in earthquake engineering.



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About the Speaker



Dr. Steven L. Kramer is Professor Emeritus of Civil and Environmental Engineering at the University of Washington. He received his BS, M.Eng., and Ph.D. from U.C. Berkeley. Kramer joined the geotechnical group in the Department of Civil Engineering in 1984. His primary research interests included soil liquefaction, site response analysis, seismic slope stability, and hazard analysis. He has conducted research work in the area of performance-based earthquake engineering, specifically the integration of probabilistic response analysis with probabilistic seismic hazard analyses, and remains active in soil liquefaction research. Kramer has served as a consultant to private firms and government agencies on projects including high-rise structures, bridges, dams, seawalls, levees, underground structures, offshore structures/facilities, and nuclear facilities in the United States and abroad. He holds numerous honors and awards, including being elected into the National Academy of Engineering and being named a Distinguished Member of ASCE and an Honorary Member of the IAEE.