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Program Coordinators: Soil Dynamics Course

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Name: Ahmed Elgamal
Employer: Department of Structural Engineering
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Title: Professor



Ahmed Elgamal Chaired the Department of Structural Engineering from 2003 to 2007. In 1984, he received his Ph.D. from Princeton University. He joined UCSD in 1997 as Professor after a post-doctoral appointment at the California Institute of Technology (1985-86), and faculty positions at Rensselaer Polytechnic Institute (1986-96) and Columbia University (1996-97). He served (2006-2007) as Principal Investigator of the Network for Earthquake Engineering IT project (<http://it.nees.org>) and as a Thrust Area Leader (2001-2007) of the Pacific Earthquake Engineering Research (PEER <http://peer.berkeley.edu/>) Center. His areas of research interest include large-scale soil-structure experimental and computational simulation of liquefaction and related mitigation approaches, Information Technology (IT) applications in Civil Engineering research and education, and interpretation of recorded seismic response through system-identification and data mining procedures. Incorporation of IT into structural engineering is currently among his main research areas, with emphasis on Health Monitoring of Structures and Earthquake Engineering. Internet applications include sensor networks for monitoring the civil infrastructure, with real-time condition assessment and decision-making algorithms (<http://healthmonitoring.ucsd.edu>). Integration of research and education with live web-accessible experiments is a main interest (<http://webshaker.ucsd.edu>). He is author and co-author of over 200 Technical Publications.



Dr. Shamsheer Prakash

Professor Emeritus

Missouri University of Science and Technology

Dr. Prakash is a nationally and internationally recognized geotechnical engineer with outstanding record of teaching, research and professional services. His professional career which started at Roorkee in India continued to grow in the United States when he went there in 1978. He initiated research on (1) displacement based design of rigid walls under seismic loading and liquefaction of sands with fines at Roorkee (1962-1978). All along, he has vigorously worked for the development of geotechnical engineering and soil dynamics since the beginning of his academic career. He chaired five international conferences in geotechnical earthquake engineering and soil dynamics and another five on case histories in geotechnical engineering.

He is member of more than ten professional societies and fellow of (i) American Society of Civil Engineers, (ii) Institution of Civil Engineers, London, and he has been admitted Honorary Fellow of Indian Society of Earthquake Technology and Indian Geotechnical Society for his contribution in Soil Dynamics. His technical committee participation includes, soil dynamics committee of ASCE, ASTM D-18, ACI-351, TC-4 on soil dynamics.

He has co-authored (1) Soil Dynamics (2) Machine Foundation (3) Pile Foundations and (4) Fundamentals of Soil Mechanics and about 300 papers in professional journals and conferences: <http://campus.umn.edu/geotech/people/faculty/prakash.html> He is President of Shamsheer Prakash Foundation who have two annual “Shamsheer Prakash Awards,” one for Excellence in Research and the other for Practice of Geotechnical Engineering. Dr. Prakash contributed to this aspect of life by providing a dynamic leadership as a ‘Yoga Teacher’ and authored two books on Yoga and Pranayam: <http://www.yoga10.org/>

In recognition his academic and professional achievements, the Technical University of Civil Engineering, Bucharest Romania, conferred the degree of ‘Doctor, Honoris Causa to Dr. Prakash in 2003, and University of Illinois (UIUC), have recognized him as Distinguished Alumni of Civil Engineering in 2004.