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## RBP-1: Shamsheer Prakash

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Missouri University of Science and Technology, [prakash@mst.edu](mailto:prakash@mst.edu)

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**Shamsheer Prakash**  
**RBP-1**

**Shamsheer Prakash, PhD, PE, Dist. M ASCE**

Professor Emeritus  
Department of Civil Engineering  
Missouri University of Science and Technology  
Rolla, MO 65409-0030  
[Prakash@mst.edu](mailto:Prakash@mst.edu)  
<http://7icchge.mst.edu>, [www.yoga10.org](http://www.yoga10.org)

**EDUCATION:**

- Ph.D. University of Illinois, Urbana, IL 1962
- M.S. University of Illinois, Urbana, IL, 1961
- P.G. Dip, IIT, 1959
- B.E. Civil Engineering, University of Roorkee, 1954

**PROFESSIONAL HISTORY:**

- Sept. 1, 2000 to present – Professor Emeritus, Missouri University of Science and Technology
- Sept. 1980-Sept. 2000 – Professor of Civil Engineering, Missouri University of Science and Technology

**REGISTRATION:**

- Professional Engineer, State of Missouri
- Chartered Engineer (C. Engr.), United Kingdom and India

**RESEARCH INTERESTS:**

- Non-linear solutions in geotechnical earthquake engineering; predictions and performance in geotechnical engineering.

**SPECIAL RECOGNITION AND HONORS:**

- Bharat Jyoti Award, IIFS, January 2013
- Distinguished Member, American Society of Civil Engineers (ASCE), October 2011
- Distinguished Alumnus, Indian Institute of Technology, Roorkee, December 2008
- Honorary Fellow of the Indian Geotechnical Society, December 2006
- Honorary Fellow of the Indian Society of Earthquake Technology, December 2002

**Shamsher Prakash**  
**RBP-1 – cont.**

- Distinguished Alumnus, Civil Eng. Dept., University of Illinois (UIUC), April 2004
- Doctor, Honoris Causa, Technical Univ. of Civil Engr., Bucharest, Romania, April 2003
- Life Member, American Society of Civil Engineers (ASCE)
- Invited officer of International Conf. on Soil Mech. and Found. Eng. of the International Society of Soil Mechanics and Foundation Engineering beginning 1973 as:
  - (a) Panelist on Deep Foundations, 16<sup>th</sup> ICSMGE, Osaka, September 2005
  - (b) Chairman, Session on Liquefaction 13th Int'l. Conf., New Delhi, Jan 1994
  - (c) Co-General Reporter, "Pile Foundations", 12th Int'l. Conf., Rio, Brazil, 1989
  - (d) Disc. Leader Ses. 7B, 11th Int'l. Conf. on SM&FE, San Francisco, 1985
  - (e) Panel Reporter, 10th Int'l Conf. on SM&FE, Stockholm, 1981
  - (f) Co-reporter Soil Dynamics, 9th Int'l Conf. on SM&FE, Tokyo, 1977
  - (g) Chairman – Spec. Sess. on Soil Dynamics - 8th Int'l. Conf., Moscow, 1973

**OTHER:**

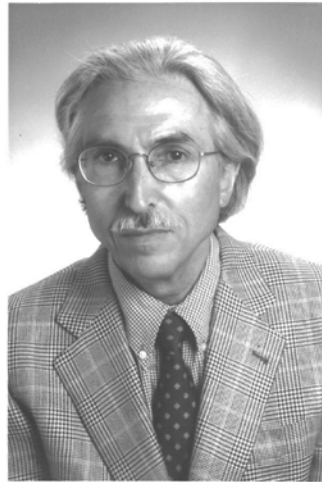
- President, Shamsher Prakash Foundation (awards three annual “Shamsher Prakash Awards,” one for Excellence in Research, the second for Practice of Geotechnical Engineering, and the third for Excellence in Teaching and other awards for design/engineering, established and supports a primary school in India and contributes significant support to an Indian girls’ school, and promotes peace)
- Author of six geotechnical engineering/soil dynamics books and two books on yoga and pranayam, as well as numerous professional papers
- Chaired five International Conferences on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and six International Conferences on Case Histories in Geotechnical Engineering



**Nancy Peck Young**  
**RBP-2**

Nancy Peck Young was born in Chicago during the time Ralph B. Peck was working as Karl Terzaghi's "main man" on the Chicago Subway. She grew up in Champaign-Urbana, where her dad taught soil mechanics and foundation engineering at the University of Illinois. Decades later she and her husband Allen spent several years taking RBP to his various conferences and speaking engagements throughout the world. They felt privileged to go to many fascinating places and meet even more fascinating people on these adventures.

In between Nancy earned a BS in Geology from the University of Arizona in Tucson; worked for the Arizona Bureau of Mines in Tucson; for Wolf Petroleum in Denver; and for Kerr-McGee Exploration in Albuquerque. She and Allen raised one son who is a world class executive chef now working on Maui. Intertwined with the geology was a growing love of art and in 1981 Nancy turned full time to her studio where she has been a professional artist for over thirty years. In 2006-2007 she had the extreme pleasure of working with her dad as co-editor of *Ralph B. Peck: Educator and Engineer – The Essence of the Man*.

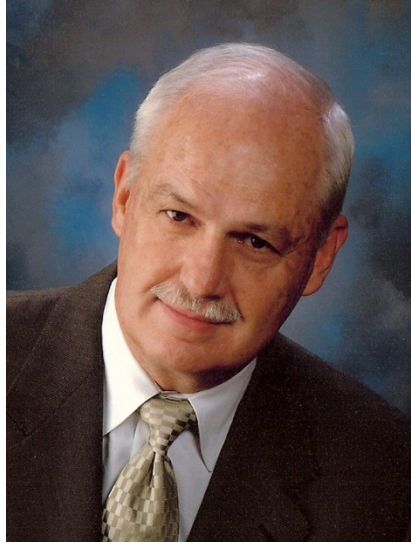


**Gholamreza Mesri**  
**RBP-3**

Gholamreza Mesri, a world authority on the behavior of soils and a leader in the study of the compressibility and consolidation of soils, is the Ralph B. Peck Professor Civil Engineering at the University of Illinois at Urbana-Champaign. Together with Karl Terzaghi and Ralph B. Peck, he co-authored the Third Edition of *Soil Mechanics in Engineering Practice*.

Professor Mesri has served as consultant to government and private organizations in relation to construction projects in North and South America, Europe, Africa, Asia, and Australia, including airports, offshore facilities, tunnels, hydroelectric developments, building foundations, and landslides. He is a member of the International Commission on Restoration of Metropolitan Cathedral of Mexico City, a member of the International Commission on Swelling Rocks, ISSMGE Technical Committee on Soft Soils Foundation Engineering, and a founding member of the International Committee on Coastal Geotechnical Engineering.

Professor Mesri is a member of the American Society of Civil Engineers, the Canadian Geotechnical Society, and International Society of Soil Mechanics and Foundation Engineering. Among his honors Mesri includes the 1988 and 2004 Norman Medal and 1992 Thomas A. Middlebrook Award, of the American Society of Civil Engineers.



**Edward J Cording**  
**RBP-5**

Edward Cording is Professor Emeritus of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign where he taught and conducted research in geotechnical engineering, focusing on rock engineering, soil-structure interaction and underground construction. He returns to the campus to participate in teaching a graduate level case studies course in tunneling.

In 1964-1965, during his graduate studies in Civil Engineering at University of Illinois, he served as a mining engineer at the Nevada Test site where he developed rock bolt support system and monitored rock displacements and ground behavior during the excavation of two large 120-ft diameter caverns in weak tuff subject to fracturing and stress slabbing.

In the 1970's, he directed University field research for the first subway tunnels and stations constructed on the Washington D.C. Metro, monitoring the stability of 80-ft –wide station caverns in rock and the ground deformations and loads on braced excavations and shield tunnels in soil.

His research has included field investigations and analyses of ground behavior and stability of rock tunnels and caverns, ranging from deep tunnels subject to slabbing and squeezing to shallow subway station caverns in jointed schistose rock. A major research effort on tunnels and excavations in soil has included field measurements and laboratory and numerical studies linking construction with ground movements and their effects on building distortion and damage. Criteria were developed that are used world-wide for evaluating the effect of excavation and tunneling on building damage.

Over the past 40 years he has served as a geotechnical consultant on slope, foundation, excavation, and underground projects including transit projects in Washington DC, New York City, Philadelphia, Boston, Atlanta, Seattle, Portland, Toronto, San Francisco, San Jose, Los Angeles, San Juan, P.R, and Taiwan. From 1991 to 1997 he had a presidential appointment to the U.S. Nuclear Waste Technical Review Board reviewing DOE's site investigations for the Yucca Mountain high level underground nuclear waste facility. Recent New York City projects include planning and design for the East Side Access project to Grand Central Station, the Trans Hudson Express project to Penn Station, and the 2<sup>nd</sup> Avenue subway, He consulted to New York MTACC during construction of the No 7 Line Extension on the west side of Manhattan.

**Edward J. Cording**  
**RBP-5 - cont.**

Current consulting assignments on pressurized face shield tunneling projects include the design-build effort for the 57.5-ft-diameter Alaskan Way Viaduct replacement tunnel, planning for DCWater's Blue Plains and Anacostia River tunnels, and monitoring and ground control during tunneling beneath structures on the Toronto-York Spadina Subway Extension. He is a member of the Tunnel Advisory Panel for the Los Angeles Metro, for planning and design of light and heavy rail subways.

He was elected a member of the National Academy of Engineering in 1989. He gave the ASCE Metropolitan Section William B. Parsons lecture in 2005 on large rock caverns in New York City, and the 2013 Casagrande Lecture on ground control in shield tunneling. Among his awards are the ASCE Martin S. Kapp Award, the 2003 Moles Non-member Award, the 2007 Geo Institute Harry Schnabel, Jr. Award for Career Excellence in Earth Retaining Structures, the 2012 Outstanding Educator Award of the Underground Construction Association of SME, and the 2013 Beaver's Engineering Award for Outstanding Achievement in Heavy Engineering Construction.



**Elmo DiBiagio**  
**RBP-6**

Elmo DiBiagio is currently a Technical Adviser (Retired), Division for Instrumentation and Performance Monitoring, Norwegian Geotechnical Institute (NGI) in Oslo, Norway.

He has 50 years experience with design of instruments and monitoring programs for a large variety of projects including foundations, excavations, tunnels, dams, offshore structures and bridges. The experience includes evaluation and specification of project goals, selection of measurement concepts, preparation of specifications, design of instruments, and implementation of monitoring programs as well as data acquisition, data processing, and reporting. He has published 70 papers most of which deal with geotechnical and structural instrumentation and research. He has lectured on these subjects in 23 countries.





**J. David Rogers**  
**RBP-7**

Dr. J. David Rogers directs MS&T's Virtual Geotechnical Database Laboratory and serves as the Associate Director of MS&T's Natural Hazards Mitigation Institute. Prior to entering academia full-time he owned geotechnical, forensic engineering, and construction management firms in the San Francisco and Los Angeles metro areas (1984-2001). He has served as principal investigator of numerous post-disaster assessments of structural failures, earthquakes, hurricanes, landslides, floods, volcanic eruptions, tsunamis, as well as dam and levee failures.

Dr. Rogers holds degrees from the California State Polytechnic University (B.S., Geology 1976) and the University of California, Berkeley (MS, Civil Engineering, 1979; Ph.D. Geological and Geotechnical Engineering, 1982). A former naval intelligence officer (1984-2002), he taught at the U.S. Naval Postgraduate School, Monterey (1991-94), before joining the faculty at U.C. Berkeley (1994-2001), where he had a joint appointment in civil and environmental engineering and landscape architecture and environmental planning (GIS Laboratory). He accepted the Hasselmann Chair in Geological Engineering in July 2001. A retired Commander in the Naval Reserve, he has lectured at all three service academies (West Point, Annapolis, and the Air Force Academy), the Naval Postgraduate School, Naval War College, and the National War College.

His research interests center on innovation and problem solving, interdisciplinary systems engineering concepts, and failure analyses. He has also developed automated artificial intelligence techniques for interpretation of remotely sensed data, combining processing of digital terrain elevation data, SAR, LiDAR, INSAR, DEM files, and multispectral & infrared imagery. This work has been funded by the National Science Foundation, U.S. Geological Survey, the National Earthquake Hazard Reduction Program, National Geospatial Intelligence Agency (NGA), Defense Intelligence Agency (DIA), Defense Advanced Research Projects Agency (DARPA), and the Federal Highway Administration (FHWA).

Rogers' current research focuses on the development of Resilient and Sustainable Infrastructure Networks (*RESIN*), a five-year project sponsored by NSF. In 2011 he was named to the National Academies Panel that has been charged with examining "Levees and the National Flood Insurance Program: Improving policies and practices," being funded by FEMA.

He teaches courses in field geology, advanced engineering geology & geotechnics, geotechnical construction practice, the senior design course, and engineered problem solving. His influence is probably more felt off-campus because of the courses he has developed for MS&T's online masters program and a cooperative master's program developed for the Army Corps of Engineers, which include courses in evolution of flood control engineering, geotechnical construction practice, military geology, and problem solving, which are broadcast world-wide. He is a registered civil engineer, engineering geologist, and hydrogeologist in California. Rogers' teaching and research are profiled on his website at [www.mst.edu/~rogersda](http://www.mst.edu/~rogersda)