



# Musharraf Zaman

## RESEARCH INTERESTS

Geomechanics, geotechnical engineering, pavement materials and systems including asphalt materials.

## BIOGRAPHY

Dr. Musharraf Zaman joined the University of Oklahoma Civil Engineering in 1982, after completing his Ph.D. from the University of Arizona. He was promoted to full professor in 1993, and was named the Aaron Alexander Professor in 2003. He has been serving as the associate dean for research and graduate programs, OU College of Engineering since July 2005. Also, he is a professor of Petroleum and Geological Engineering. He is a prolific teacher and a highly accomplished researcher. During his tenure at OU, he has received a number prestigious national-level teaching awards from the American Society of Engineering Education. He also received the lifelong title of David Ross Boyd Professorship, the highest teaching award given by the University of Oklahoma. During his tenure at OU, he has received over \$14M in external funding from various state and federal agencies and industry. He has published over 200 archival papers. Several of his papers have won prestigious awards from national level societies and organizations.

## AWARDS, HONORS AND PROFESSIONAL ACTIVITIES

David Ross Boyd Professor, 2003-present.  
Agilent Technologies Award for Excellence in Laboratory Instruction, ASEE, 2000.  
ASEE Midwest Section Teaching Excellence Award, 1998.  
Kerr McGee Presidential Professor, 1997-2001.  
Citation of Meritorious Achievement by International Biographical Center, Cambridge, England, 1996.  
Who's Who in the World, 1995, 1996.  
Who's Who in South and Southwest, 1995.  
C.S. Desai Biennial Prize, Indian Geotechnical Society, 1994, for the best paper published in Indian Geotechnical Journal during 1991-1992.  
IACMAG Award for significant contribution in Constitutive Laws and Application, 1994.  
Who's Who in Science and Engineering, 1993, 1996, 1997.  
OU Regents' Award for Superior Research and Creative Activity, 1992.  
OU Regents' Award for Superior Teaching, 1990.  
CoE Distinguished Lectureship Award, 1988-1993.  
Young Faculty Development Award, OU College of Engineering, 1984, 1985.  
Annual Dissertation Award, Univ. of Arizona College of Eng., 1983.

## Education

PhD, Civil Engineering  
University of Arizona, Tucson,  
1982  
MS, Civil Engineering  
Carleton University, 1979  
BS, Civil Engineering  
Bangladesh Engineering  
University, Dhaka, 1975

## Experience

Associate Dean for Research and  
Graduate Program, OU College  
of Engineering (since July  
2005)  
David Ross Boyd Professor/  
Aaron Alexander Professor of  
Civil Engineering, University of  
Oklahoma  
Professor of Petroleum and  
Geological Engineering, Univ.  
of Oklahoma  
Liaison  
Oklahoma Transportation Center  
Summer Faculty Research  
Participant  
Argonne National Laboratory

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## SELECTED PROJECTS

- ODOT and FHWA, "Field Performance Monitoring and Modeling of Instrumented Pavements on I-25 in McLain County," \$280K, Oct. 2006 - Sept. 2011 (PI; Co-PI: Dr. Muraleetharan).
- OCAST, "Wireless Sensor Packaging for Monitoring of Highway Bridges," \$300K, Sept. 2007-Aug. 2010 (Co-PI; PI; Dr. Pei).
- OkTC, "WMA Pavements in Oklahoma: Moisture Damage and Performance Issues," \$398K, Mar. 2010 - Feb. 2012 (PI).
- OkTC, "ODOT Guidelines for Geosynthetic Reinforcement in Aggregate Base Roadways in Oklahoma," \$200K, Sept. 2009 - Aug. 2011 (Co-PI; PI: Dr. Hatami).
- OkTC, "Enhancing Facilities for Asphalt Research: Sharing to Gain," \$333K, Jan. - Dec. 2011 (PI).

## SELECTED PUBLICATIONS

- Zaman, M. and Solanki, P. (2010). "Laboratory Performance Evaluation of Subgrade Soils Stabilized with Sulfate Bearing Cementitious Additives," *ASTM J. of Testing and Evaluation*, Vol. 38, No. 1, pp. 1-12.
- Zaman, M.; Solanki, P.; Ebrahimi, A. and White, L.W. (2010). "Neural Network Modeling of Resilient Modulus Using Routine Subgrade Soil Properties," *Int. J. of Geomechanics*, Vol. 10, No. 1.
- Zaman, M.; Khoury, N. and Solanki, P. (2009). "Finite Element Modeling of Cementitiously Stabilized Unnotched Beams Using a Smeared Fracture Approach," *International J. of Geomech., ASCE*, 9(1), pp. 34-42.
- Zaman, M.; Solanki, P.; Muraleetharan, K. and Timm, D. (2009). "Evaluation of Resilient Moduli of Pavement Layers at an Instrumented Section on I-35 in Oklahoma," *International J. Road Materials and Pavement Design*, 10 (special issue), pp. 167-188.
- Zaman, M.; Commuri, S. and Gonzalez, J.N. (2008). "A Neural Network-Based Compaction Analyzer for Density Measurement During the Construction of an Asphalt Pavement," *International Journal of Pavement Engineering*, 9(3), pp. 177-188.
- Zaman, M. and Khoury, N.N. (2007). "Environmental Effects on Durability of Aggregates Stabilized with Cementitious Materials," *ASCE Journal of Materials in Civil Engineering*, 19(1), pp. 1-8.