



2023 Lifetime Achievement Award Recipient

Devendra Narain Singh (Indian Institute of Technology Bombay, India)
“For his monumental contributions to the sciences of environmental geotechnology which have led to a better understanding of offshore gas hydrates, multi-phase geomaterials, and sustainable development”

Dr. D. N. Singh was born in 1965 at Shahjahanpur, UP, India. He has been a faculty member of Civil Engineering at the Indian Institute of Technology Bombay since 1994. Before joining IIT Bombay, he served Central Road Research Institute, New Delhi, and Indian Institute of Technology Kharagpur for short durations. His early education was completed at Lucknow, UP, India. He obtained his bachelor's, master's and Doctoral degrees from IIT Kanpur in 1986, 1989 and 1993, respectively.

His teaching and research & developmental activities are in quite diversified areas of geotechnical engineering (viz., environmental geotechnology, mechanics of unsaturated soils, soil characterization based on thermal and electrical properties, contaminant transport in porous media, mineralogical characterization, utilization and recycling of industrial waste, geotechnical centrifuge modeling, CCUS & CCU, etc.). He has published 359 technical articles, of which 269 are in refereed journals. He has supervised 42 Doctoral (and 5 ongoing) dissertations and 35 Masters theses. He has successfully filed 37 patents, out of which 30 (including 1 US) patents have been granted. He has also successfully filed 4 Copyright applications.

Apart from teaching and research, Dr. Singh has been very actively associated with some of the most prestigious business houses as an in-house instructor and retainer consultant. He has taken up sponsored projects from Bhabha Atomic Research Centre (BARC), the Indian Council of Agricultural Research (ICAR), the Department of Science and Technology (DST-TIFAC), All India Council of Technical Education (AICTE), and the Atomic Energy Regulatory Board (AERB). With financial aid from these and several other organizations, he has established a state-of-the-art Environmental Geotechnology Laboratory in the department.

Dr. Singh founded *Environmental Geotechnics*, ICE Publishing, London, UK, and has been its Editor-in-chief. He has been an *Editorial Board Member* of several journals of repute. He is the recipient of *Young teachers' award* instituted by the AICTE, New Delhi and JUNIOR/SENIOR Paper Award from the International Association for Computer Methods and Advances in Geomechanics (IACMAG) for the year 2005. He was Chairman, 12th IACMAG, GOA, India, 1-6 October 2008.

He is the recipient of (i) Outstanding Contributions Medal, 2022, IACMAG,

for individuals who have made outstanding and seminal research contributions in geomechanics for a longer time, which have been adopted for basic research and practical applications, (ii) Richard Feynman Prize 2014, for the best paper published by the ICE journal, (iii) John R. Booker Excellence Award-2011, which is given by the IACMAG for the *advancement of research, education and practice of Environmental Geotechnology and development of novel techniques to simulate contaminant transport in geomaterials, under laboratory and in-situ conditions*, (iv) Excellent Contributions Award 2008, IACMAG, to individuals who have a record of significant contributions in research, academic activities, and professional service in different regions of the globe, (v) Canadian Geotechnical Journal Fredlund Award 2019, for the paper with the highest number of citations among all those published by the journal in previous five years and (vi) 2003 SP Research Award, SP Foundation, Rolla, MO,

USA, for his contributions in Environmental Geotechnology and Mechanics of Unsaturated soils.

Dr. Singh has authored the following books:

1. Environmental Geotechnology: Meeting Challenges Through NEEDS-BASED Instrumentation
2. Cricket Pitches: The Science Behind the Art of Pitch-Making-”An Integrated Pitch Management (I.P.M) Approach”
3. Fly Ash Zeolites: Innovations, Applications, and Directions

Dr. Singh is Fellow of:

1. Indian National Academy of Engineering, New Delhi
2. American Society of Civil Engineers (ASCE) and
3. Institution of Civil Engineers (ICE), London, UK