

# INSTITUTE OF INFRASTRUCTURE, TECHNOLOGY, RESEARCH AND MANAGEMENT

## INVITED TALK (2016 – 17)

**Speaker:** Dr. G.V. RAO

**Title:** Earth - Our Heritage, Geo-environmental Engineering Applications of Geosynthetics

**Date:** 17/04/17

### Abstract

Dr. G.V.Rao has established himself as a renowned academician, researcher, consultant, practitioners and leader in the field of geotechnical and transportation engineering. He has a distinguished career of over three decades at the Indian Institute of Technology, Delhi, during which he served as Head, Civil Engineering Department and Dean (Student Affairs). He guided 24 Ph.D.s and over 100 M.Tech. Theses, while authoring over 200 research papers, many of which have won awards for Best Theses and Best Papers internationally. He set up the Geosynthetic Engineering Laboratory for quality testing and standardization, from scratch, the first and only one of its kind in the country. In 2006, he was the only Indian to feature in the ‘**142 names Geo**’ a world-wide compilation by the International Fabrics Association (IFAI) of people who influence and continue to influence the geosynthetics arena.

His invaluable contributions have been recognized with over 25 prestigious awards, including the CBIP Jawaharlal Nehru Birth Centenary Award for outstanding contribution to Water Resources (1994), International Geosynthetic Society – Leadership and Recognition Award (2008) to name a few. Dr. Rao authored over 10 reference books, several standard text books and manuals and state- of-the art volumes for the IRC and CPCB. He is an Honorary Fellow of the Indian Geotechnical Society, Fellow of the Indian National Academy of Engineering and the Institution Engineers (India). He also served the Indian Geotechnical Society for over 5 years as its Honorary Secretary and Editor of the India Geotechnical Journal. Dr. Rao has lectured widely all around the country as well as in other countries including Bangladesh, Germany, Japan, Korea, Kuwait, Nepal, Malaysia, Singapore, Sri Lanka, U.K. and U.S.A.

During his visit to IITRAM, Dr. G.V. Rao presented expert lectures on the following two aspects:

- Lecture 1: Earth - Our Heritage
- Lecture 2: Geo-environmental Engineering Applications of Geosynthetics

First lecture on ‘Earth - Our Heritage’ emphasised the need of the use the advances in construction technology to preserve the ecological balance of the planet earth and serve the mankind. Lecture illustrated the historical development of various construction methods and in particular use of variety of reinforcement with soils. In the second lecture on ‘Geo-environmental Engineering Applications of Geosynthetics’, the focus was on the role geosynthetic in the construction of the stable ash-dykes and preventing the pollution of ground.

Further, Dr. Rao Interacted with the Civil Engineering faculty. During his interactions, he shared his views on academic curriculum, teaching approaches, and opportunities of collaborative research and consultancy.