



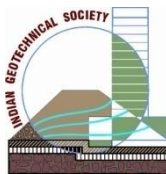
International Conference on

Geotechniques for Infrastructure Projects

27th & 28th February 2017, Thiruvananthapuram, India



Organized by
Indian Geotechnical Society –
Thiruvananthapuram Chapter



In Association with
Department of Civil
Engineering, LBS Institute of
Technology for Women



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TEQIP



Welcome to Thiruvananthapuram, India

Thiruvananthapuram, formerly known as **Trivandrum**, is the capital and the largest city of the Indian state of Kerala. It is located on the west coast of India near the extreme south of the mainland. Referred to by Mahatma Gandhi as the "evergreen city of India", it is classified as a Tier-II city by the Government of India. The city is home to central and state government offices and organizations. Apart from being the political nerve centre of Kerala, it is an academic hub and is home to several educational institutions including the University of Kerala and the Trivandrum medical college and to many Science and Technology institutions.

Thiruvananthapuram was a trading post for spices, sandalwood and ivory. The city was ruled by the Ays and was captured by the rulers of Venad in tenth century A.D. In 729, Marthanda Varma founded the princely state of Thiruvithamkoor and made Thiruvananthapuram the capital in

1745. It remained as a princely state ruled by Travancore under the loose governance of the British before joining the Indian Union in 1948. Thiruvananthapuram contributes nearly 80% of the state's software exports and is a major IT hub. It was ranked as the best city in Kerala to live in a 2012 survey by *Times of India*. The city was also ranked as the best city in India for Housing and Transport by a survey conducted by *India Today*.

Thiruvananthapuram is a popular destination for tourists. Kovalam is a popular beach town located 16 kilometres from the city. The Padmanabhaswamy Temple circled by the East Fort is amongst the richest temples in India. Other places of interest include Sanghumukham Beach, Napier museum and Zoo, Agasthyarkoodam peak, Neyyar Wildlife Sanctuary and Neyyar Dam, Kuthira Malika palace, Pommudi, Poovar, Varkala Cliffs and Edava lake.

Thiruvananthapuram is well connected to the rest of the country. There are five railway stations in the city namely, the Thiruvananthapuram central, Thiruvananthapuram Pettah, Kochuveli, Veli and Nemom. The Thiruvananthapuram International Airport has direct connectivity to the Middle East, Malaysia, Singapore, Maldives and Sri Lanka. The airport is qualified for all-weather and night operations. The airport is 3.7 kilometers from the central business district.

Indian Geotechnical Society

The Indian National Society of Soil Mechanics and Foundation Engineering was established in the year 1948, soon after the second International Conference on Soil Mechanics and Foundation Engineering held at Rotterdam. The Society was affiliated to the International Society in the same year and since then it has strived to fulfil and promote the objectives of the International Society. In December 1970, the name “Indian Geotechnical Society” was adopted. In January 1994 it hosted 13th International Conference on Soil Mechanics and Foundation Engineering (ICSMGE).

The **Indian Geotechnical Society** (IGS) aims at promoting co-operation amongst engineers and scientists for the advancement and dissemination of knowledge in the fields of Soil Mechanics, Foundation Engineering, Soil Dynamics, Engineering Geology, Rock Mechanics, Snow and Ice Mechanics and allied fields and their practical applications. It provides a common forum for academicians, research workers, designers, construction engineers, equipment manufacturers and others interested in geotechnical activity. The Thiruvananthapuram Chapter was inaugurated in the year 2015 and is one among the youngest chapters of Indian Geotechnical Society.

About the Conference

The International Conference on *Geotechniques for Infrastructure Projects* is the first International Conference organized by Indian Geotechnical Society – Thiruvananthapuram Chapter in association with the Civil Engineering Department of LBS Institute of Technology for Women. The conference is being held with the financial help from TEQIP Project Phase-II.

The aim of the conference is to provide a platform for Academicians, Research scholars, Practicing Engineers and Students, working in the area of Geotechnical Engineering to interact and share their experience and knowledge. This conference provides an opportunity for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find partners for future collaboration. There will be exhibition stalls where Industries can display their products like Equipments, Geosynthetics etc. and construction companies can display details of their projects.

Theme

Geotechnical applications in infrastructure development projects

Sub-Themes

- Pavement design
- Deep foundation
- Subsoil investigation techniques
- Ground improvement
- Geosynthetics
- Environmental Geotechniques
- Soil structure interaction
- Earth retaining structures
- Research methodology in geotechnical engineering
- Physical and numerical modelling
- Geotechniques for unsaturated soils
- Geotechniques for lowlands
- Reinforced soil structures
- Soil dynamics and machine foundations
- Liquefaction
- Foundation engineering
- Design of foundation in urban areas

Venue

Mascot Hotel, Thiruvananthapuram is a heritage business hotel, owned by Kerala Tourism Development Corporation. It was originally built to house the officers of the Royal British Army during the World War-1. Today it offers travellers the perfect blend of heritage, luxury and business at the heart of Thiruvananthapuram city. Wonderfully furnished rooms, elegantly designed surroundings and a quite environment in a sprawling landscape amidst the city make it a favourable retreat for travellers.



Official Language

The official language of the conference will be English

Important dates

Submission of full paper:	20th January 2017
Acceptance of full paper:	31st January 2017
Submission of Camera Ready paper	10th February 2017
Registration	27th February 2017

The paper must be uploaded through the website of the conference www.gip2017.co.in

Registration Fees

Students and Research Scholars	INR 1000
Academicians and Engineers	INR 2500
IGS Members	INR 1500
IGS Student Members	INR 500

Keynote Lectures

Dr. Dennes. T. Bergado



Professor D.T. Bergado worked at Asian Institute of Technology (AIT), Bangkok, Thailand for more than 30 years and successfully graduated 17 Doctoral and 160 Masters Graduates in the field of Ground Improvement and Geosynthetics. He established the Asian Center for Soil Improvement and Geosynthetics (ACSIG) and credited with 34 Research Projects worth more than 3M USD as well as published 2 Books, 7 Chapters in Books, 148 Journal Articles, 300 Conference Papers with 2329 SCOPUS Science Citations and H-Index of 27 as of 2015. He also Organized and Edited 24 Conference Proceedings and delivered 73 Invited/Keynote Lectures worldwide. He initiated the field of Soil Improvement and Geosynthetics at AIT and pioneered the successful utilization of the Prefabricated Vertical Drain (PVD) leading to its application at the Suvarnabhumi Airport, Ring Roads, Expressways and Motorways in Bangkok. Prof. Bergado also founded the International Geosynthetics Society (IGS) – Thailand Chapter.

Dr. Jie Han



Professor Jie Han graduated in Geotechnical Engineering with a BS degree from Tongji University in 1986. He obtained his MS and Ph.D. in Civil Engineering from the Georgia Institute of Technology in 1995 and 1997, respectively. From 1997 to 2001 he worked for Tensar International, Inc., specialising in design and technology development of geosynthetics for civil engineering applications. In 2001 he joined Widener University as an assistant professor, where he conducted research on geosynthetics for walls and embankments. He became an associate professor in 2004 and a full professor in 2010 at the University of Kansas, where he conducted extensive research on geosynthetics for roads, walls, and embankments. Prof. Han received the IGS award in 2014.

Dr. Chungsik Yoo



Dr. Chungsik Yoo is a Professor of Civil and Environmental Engineering at Sungkyunkwan University in Korea. He obtained his Ph.D. in Civil Engineering from the Pennsylvania State University in 1993. He worked as a Geotechnical Engineer at Mueser Rutledge Consulting Engineers in USA and subsequently became a faculty member at Sungkyunkwan University in 1994. Prof. Yoo is a recipient of 2010 IGS Award from the International Geosynthetic Society (IGS) and has co-authored over 250 technical papers in geotechnical engineering based on laboratory testing, numerical modeling, and field testing. He is currently Vice-President of International Geosynthetics Society, President of Korean Geosynthetics Society, and Vice-President of Korean Tunnelling Association. He is serving as an Editorial Board Member for a number of international journals, such as Geotextiles and Geomembranes, Geosynthetics International, and Computers and Geotechnics.

Dr. Panich Voottipruex



Dr. Panich Voottipruex did his Doctor of Engineering from AIT Bangkok in the year 2000. He acquired Post graduate Degree in the year 1990. Currently he is working as Associate Professor in the Department of Teacher Training in Civil Engineering, King Monkut's University of Technology, North Bangkok. He is a well known Academician and Researcher in the field of Soil Engineering. He has several publications in International Journals / Conferences.

Dr. M. R. Madhav



Prof. M.R.Madhav, Visiting Professor, IIT, & Professor Emeritus, J.N.T.U, Hyderabad, Resource Person, RGUKT, and Advisor/Consultant to several organizations, is well known internationally as Researcher, Teacher and Consultant and has contributed significantly to the Practice of Geotechnical Engineering. He is recipient of the Keucklemann, the Prof. Mehra Research, Pundit Jawaharlal Nehru Birth Centenary Research Awards, and the Doctor of Science of the Indian Institute of Science, Distinction in Engineering Technology from the Central Board of Irrigation and Power, the Bharat Ratna M Visweswaraya Award, the Gopal Ranjan Research Award of IIT, Roorkee, IGS – M S Jain award, Vishwakarma Award for Academic Excellence from Construction Industry Development Council, Dinesh Mohan Award from Ind. Geotech. Society, IGS-AIMIL Award for Innovation in Instrumentation Award, Distinguished Alumnus Award of Indian Institute of Science Award, etc.

Dr. Sivakumar Babu



Dr.Sivakumar Babu obtained his PhD from Indian Institute of Science, Bangalore, India,1991 after completing ME in Soil Mechanics and Foundation Engineering, from Anna University, Madras in 1987.He is presently working as Professor at Indian Institute of Science, Bangalore .His research activities are in the field of Risk and reliability applications in Geotechnical engineering ,Geosynthetics and reinforced soil structures ,Environmental Geotechnology, Fibers in geotechnical engineering, Earthquake Geotechnical engineering and Geotechnics for disaster mitigation.

Dr. R. Shivashankar



Dr.R.Shivashankar has done D.Eng. from AIT Bangkok Thailand), 1991 after completing M.Tech from IIT Madras), 1980.He has 21 years of teaching experience at NITK, Surathkal as Professor in the Department of Civil Engineering. He has also served NITK ably in several administrative positions as HOD of Civil Engineering Department ,Chairman of Centre for Continuing Education , First ever Dean of R&D , HOD of Department of Training and Placement , As former Dean (R&D) was responsible for signing/ initiating several MOUs with many Indian and foreign Universities, research organizations and companies.His significant projects are dynamic soil structure interaction effects in multistoreyed structures on homogenous soil and geosynthetic reinforced soil funded by BRNS, DAE and mechanically stabilized earth using poor quality backfills on soft Bangkok clay at AIT Bangkok, Thailand in the period of 1987-1992.

Dr.K.Balan



Dr. Balan K. received his Ph.D from IIT Delhi in 1996, Post Graduation in Geotechnical Engineering from Kerala University in 1985 after graduating in Civil Engineering from Kerala University in 1982. He has experience in teaching graduate and under graduate students at CET, Trivandrum, Kerala (India) and during that period he has also worked as a Geotechnical Consultant.Dr. Balan, K. has specialized in sub soil investigation and design and execution of foundations and soil improvement methods. Designed and executed many projects using geotextiles with natural fibres. Currently he is Dean & PG Professor, Department of Civil Engineering, RIET,Trivandrum

Dr. Chandrakaran



Dr. Chandrakaran received his M.Tech and Ph.D from IISc Bangalore. He is presently working as Professor n Civil Engineering at National Institute of Technology Calicut, Kerala. His research interests include Ground improvement, Soil Behaviour, Environmental Geotechniques, Machine Foundations etc. He has several publications in International Journals / Conferences. He is also a consultant to several Government organisations like PWD, CPWD, KSEB etc. He has guided several masters and PhD theses.

Dr. Jimmy Thomas



Dr. Jimmy Thomas graduated in civil engineering from the University of Calicut in 1986. He obtained M.Tech in geotechnical engineering from University of Kerala in 1988 and Ph.D in geotechnical engineering from IIT Kanpur in 1997. From 1997 to 2009, he worked for companies like Netlon India, Gaware-Wall Ropes Ltd. and Techfab India Industries Ltd. focusing on the applications of Geosynthetics. Since 2009, he is working as a freelance Geotechnical Consultant and is also presently a Professor in the Department of Civil Engineering, Albertian Institute of Science andTechnology, Kerala.

Mr. Ravikiran Vaidya



Mr. Ravikiran Vaidya, Principal Engineer of Geo Dynamics, did his Masters in Structural Engineering from M S University, Baroda. He was instrumental in popularizing the concept of Non Destructive Testing of Pile Foundations in India. He has created a Deep Foundation Testing Industry in the country and popularized the concepts like High Strain, Low Strain testing, CAPWAP etc. He is a national executive committee member of IGS and DFI and is a member of BIS and IRC committees. He has executed testing projects for all sectors like Railways, Power, Metro rails, Marine, Real Estate etc. and worked extensively in South East Asia, Gulf, Middle east and Africa. He has published several technical papers in the subject. He has delivered expert lectures in several Academic Institutions and Industry.

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