



BULLETIN - II

COMMEMORATING
THE 60TH YEAR DIAMOND JUBILEE

OF

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI

&

THE 10TH YEAR OF

Indian Geotechnical Society Trichy Chapter

In Association with,

International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

Presents

International Symposium on
Geotechnical Aspects of Heritage Structures

ISGHS 2024 (14-16 Feb 2024)



THEMES OF SYMPOSIUM

❖ Geological and geotechnical challenges in historical sites

The geological and geotechnical characteristics of different historical sites, including underground and rock-cut sites, in India and overseas will be the main focus.

❖ Diagnostics of distress

A significant difficulty is determining the type and severity of distress in historic buildings without sacrificing their historic significance. Although non-destructive testing techniques (such as GPR, Tomography, MASW, etc.) are typically used, intrusive tests are occasionally performed as part of diagnostic investigations. The most recent innovations and cutting-edge practice will be discussed during the conference.

❖ Heritage geotechnics

Under this theme, several types of foundations will be identified, along with the materials utilized and any related issues.

❖ Geohazards and heritage

Geohazards including earthquakes, cloudbursts, and slope collapses have lately destroyed a number of historic structures, making their preservation extremely difficult. One of the main issues of this conference will be risk assessment, tactics, and preventative actions against such natural disasters.

❖ Geotechnical Safety assessment

This theme will cover the identification of failure processes in foundations, retaining structures, and underground structures as well as innovative approaches for deterministic and probabilistic safety evaluation.

❖ Numerical modelling strategies

Within this theme, recent developments in numerical modeling of the substructure, foundation soil, and soil-structure interaction will be discussed as they relate to safety assessments of historical sites and structures.

❖ Geotechnical interventions towards rehabilitation

Under this theme, recent cutting-edge rehabilitation methods will be explored, together with their design principles, to solve geotechnical distress in old foundations, earth-retaining structures, or underground structures.

❖ Case studies on Historical sites

The symposium will serve as a forum for the discussion of key case studies that are very instructional either because of the difficult geotechnical distresses they experienced or because of the innovative solutions created or implemented to secure the safety and preservation of the historical sites.

❖ Geotechnical Investigation, monitoring and performance assessment

This theme will cover the geotechnical-based investigations for effective monitoring of heritage structures and the development of warning systems

❖ Soil structure interaction aspects of heritage structures

Under this theme, the state-of-the-art technology and methods for the investigation of soil-structure interaction and mitigation measures for controlling these effects on heritage structures will be considered.

❖ Other topics related to Heritage Structures

Any contributions related to the heritage structures will be considered under this theme.

OFFICIAL LANGUAGE:

The official language of the Symposium is English. Papers shall be written and presented in English.

VENUE:

National Institute of Technology, Tiruchirappalli – 620015.

National Institute of Technology Tiruchirappalli is a centrally funded technical institute. One of the largest academic campuses in India, the campus has an area of 800 acres, Located in Tiruchirappalli, which is located at the center of the Tamil Nadu, rich in artifacts, sculptures, Temples, monuments, etc., all around it. Therefore it is a virtuous place to study the geotechnical aspects of heritage structures

[Tiruchirappalli is a well-connected city with the rest of the world by a road, rail and air transport.](#)

[Nearest Railway Station: Tiruchirappalli Railway Station \(22 kms from the event location\)](#)

[Nearest Air Port: Tiruchirappalli International Airport \(15 kms from the event location\)](#)

Keynote Speakers



Prof. (Dr.) T G Sitharam,
Chairman,

All India Council for Technical Education (AICTE), New Delhi.

Topic: Foundation Alternatives for Ram Janmabhoomi Sri Ram Lalla Temple at Ayodhya, UP



Dr. Alessandro Flora

Professor,

University of Naples Federico II, Italy.

Topic: Geotechnics and Heritage



Dr. Giulia M.B. Viggiani

Professor of Infrastructure Geotechnics,
Department of Engineering,
Cambridge University, England

Topic: Urban Tunnelling: the Challenges of
Creating Underground Space in Historical Cities



Prof. Efrain Ovando Shelley,

Professor Investigator,
National Autonomous University of
Mexico, Mexico.

Topic: Geotechnical Considerations for the
Preservation of Monuments in Mexico City



Dr. Arun Menon,

Professor,

Indian Institute of Technology Madras,
Chennai.

Topic: Structural Impact Assessment of
Infrastructure Redevelopment Projects
on Historical Monuments and Precincts



Dr. Pierre Smars

Assistant Professor

National Yunlin University of Science
and Technology, Taiwan.

Topic: Some Technical and Cultural
Observations about Compatibility and
Heritage



Prof. Guido Gottardi

Professor,

University of Bologna, Italy

Topic: Investigation and Preservation of
Historic Tower Foundations



Prof. Yoshinori Iwasaki,

Special Adviser

Geo Research Institute, Osaka, Japan.

Topic: The Authenticity of Soils and
Foundations of Cultural Heritage



Ar. J. Ramanan,

Consulting Architect,
Trichy.

Topic: A Template for Conservation of
Heritage Towns. A case study of
Srirangam



Er. S. Rajendran,

Consultant, Cost Effective
Construction Civil Engineer.

Topic: Relevance of Traditional
Construction Technology in the
Modern Context

REGISTRATION FEE:

Indian Delegates	Offline	Online
IGS Member	2000 INR	750 INR
Non-IGS Members	2500 INR	750 INR
Students from India	1000 INR	750 INR
Senior citizens	1000 INR	750 INR
International Delegates		
IGS/ISSMGE members	75 USD	50 USD
Students	50 USD	50 USD
Other International Delegates	85 USD	50 USD

Bulk Registration

- Registration fee for Group of 5 Students **Rs. 4,000/-**
- Registration fee for Group of 10 Students **Rs. 7,500/-**

HERITAGE TOUR

On February 16, 2024, third day of the symposium, a guided heritage tour will be organized for the participants to explore the UNESCO World Heritage sites. The tour specifics will be regularly updated on the conference website.

The heritage tour is available for an additional fee and is not inclusive of the registration cost. Participants interested in joining the tour can request participation through the provided registration link.

REGISTRATION LINK: <https://forms.gle/aXRnrgkSoBBaUbyP9>



Scan For Registration

ACCOUNT DETAILS:

Name: IGS TRICHY CHAPTER

Ac. No.: 33463659916

IFSC: SBIN0001617

Branch: NIT Trichy

Swift Code for processing transactions for international delegates : SBININBB190

IMPORTANT DATES:

Last date of Registration for accepted papers - 31st January 2024

Last date of Registration for other delegates - 10th February 2024

ORGANIZERS

Indian Geotechnical Society Trichy Chapter

In 1948, the Indian Geotechnical Society (IGS) was founded, with its headquarters in Delhi. The society is affiliated to the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). It has more than 40 chapters spread around the nation. One of these chapters is the IGS Trichy Chapter. In order to contribute to the achievement of excellence in geotechnical engineering for the benefit of society, the IGS Trichy Chapter was founded in 2014 and is committed to advancing knowledge and creating opportunities for the sharing of information by academicians and practitioners in a broad range of geotechnical disciplines. Regular technical meetings, workshops, conferences, seminars, and site visits will help the IGS Trichy Chapter achieve its goal of educating practicing engineers and students about the relevance and value of geotechnical engineering.

ISSMGE (TC301)

Technical Committee on the Preservation of Historic sites of the International society of Soil Mechanics and Geotechnical Engineering, ISSMGE, is a form, which shares and provide information related to the preservation of historic sites and monuments. Its aim is to promote and establish the culture conservation in terms of geotechnical aspects and it highlight the role of geotechnical engineers to understand and resolve the problems.

NIT, Trichy

The National Institute of Technology, Trichy (NIT-T), formerly known as Regional Engineering College, is located in the center of Tamil Nadu on the banks of the Cauvery River. It was founded in 1964 as a joint venture between the governments of India and Tamil Nadu with the aim of meeting the nation's demand for technical manpower. With the agreement of the UGC/AICTE and the Government of India, this institution received Deemed University Status in 2003 and changed its name to National Institute of Technology as a result of its extensive experience. The university provides Undergraduate Courses in eleven areas and Postgraduate Courses in 31 disciplines of Science, Engineering, and Technology and M.S. (by Research) and Ph.D. in all departments. The institute has about 6000 students enrolled, and more than 250 faculty members NIT-T is now at eight place in the NIRF ranking of engineering institutes and is ranked first among the 31 NITs in India.

ORGANIZING COMMITTEE

Chairman:

Prof. K. Muthukkumaran, NIT Trichy

Organizing Secretary:

Dr. V. Senthilkumar, NIT Puducherry

Dr. Jitesh T. Chavda, S.V. NIT Surat

Joint-Organizing Secretary:

Dr. P. V. Premalatha, M.I.E.T Engineering College, Trichy

Dr. T. Ashok Kumar, NIT Puducherry

Mr. T. Jegadeesh Kumar, Joint-Secretary – IGS Trichy Chapter

Orgnaizing Committee Members:

Dr. G. Venkatesan, Anna University BIT Campus, Trichy

Dr. S. Senthamil Kumar, Periyar Maniammai University, Thanjavur

Dr. Deendayal Rathod, NIT Trichy

Dr. A. R. Prakash, Managing Partner, Kesee Associates, Salem

Ms. P. Devahi, TN-PCB, Trichy

SPONSORSHIP OPPORTUNITIES:

Sponsorship Category	Amount (INR)	Privilege
Gold	1,00,000/-	4 Conference delegates, 1 Exhibition stall 2m x 2m (Space, Furniture, Electricity), 1 Banners in key areas, 5 minutes corporate presentation, one printed brochure supplied by sponsor in the conference bag.
Silver	50,000/-	3 Conference delegates, 1 Banners in key area, one printed brochure supplied by sponsor in the conference bag
Bronze	25,000/-	2 Conference delegates, one printed brochure supplied by sponsor in the conference bag.
Well wisher	10,000/-	1 Conference delegate.