CISEM 2020

Conference on Transportation Systems Engineering and Management

December 29 - 30, 2020







College of Engineering Trivandrum







E. R. Lincolston

Organised by KSCSTE - NATPAC & CET

INTRODUCTION

Growing urbanisation, rising vehicle ownership, globalisation of economies and shortage of resources have posed major challenges to the transportation sector. Mobility, accessibility and safety continue to be the daunting challenges to transportation professionals world over. In this context, cutting edge research that could provide sustainable solutions to transportation related problems is the need of the hour.

Conference on Transportation Systems Engineering and Management (CTSEM) aims to bring together researchers, scientists, engineers, research scholars and postgraduate students in different areas of Transportation Engineering and Management.

The objectives of CTSEM are to provide an opportunity for the students, research scholars and transportation professionals to present their work and network with the peers; learn about advancements and applications in their fields; minimise the duplication of research efforts and arrive at future directions for research.

CONFERENCE TOPICS

CTSEM 2020 invites papers on the following broad themes of Transportation Systems Engineering and Management.

- A. Transportation Planning
- B. Traffic Engineering
- C. Pavement Technology

The conference topics include, but are not restricted to:

- i. Highway Design, Construction and Maintenance
- ii. Pavement Materials and Characterization
- iii. Pavement Evaluation and Management
- iv. Urban and Regional Transportation Planning
- v. Traffic Engineering and Management
- vi. Traffic Safety
- vii. Non-Motorised Transportation
- viii. Innovative Trends in Transportation
- ix. ITS and its Applications
- x. Electric Vehicles in Transportation Systems
- xi. Travel Behaviour Modelling
- xii. Freight Transport and Logistics
- xiii. Transport Economics and Policies
- xiv. Sustainable Transportation
- xv. Smart Cities
- xvi. Inland Waterways & Coastal Shipping



Conference on Transportation Systems Engineering and Management

Organised by KSCSTE - NATPAC & CET

CALL FOR PAPERS

Papers are invited on the topics outlined and others falling within the scope of the event. Extended abstracts of 1000 - 1200 words shall be submitted by e-mail to ctsem2020@gmail.com. The abstract should clearly state the purpose, methodology, results and conclusions of the work. Final acceptance of the paper will be based on the expert review. Papers shall be presented in the event. The language of the Conference is English.

Considering the COVID-19 pandemic, the 7th edition of CTSEM will be conducted online during December 29 – 30, 2020.

Best paper award will be given in each of the themes.

IMPORTANT DATES

Submission of Extended Abstract : November 30, 2020

Notification of Acceptance : December 14, 2020

Last Date for Registration : December 21, 2020

REGISTRATION FEE

Delegates from Industry : INR 3500/- (USD 80*)

Delegates from Research Organisations & : INR 1800/- (USD 35*)

Academic Institutions

Students & Research Scholars : INR 600/- (USD 15*)

The Registration Fee is inclusive of applicable taxes.

SPONSORSHIP

CTSEM will provide great opportunity for interaction among industries, consultants, government agencies, educational institutions, academicians, professionals and decision makers. Industries and organisations are invited to be part of the event.

Sponsorships are invited in Indian currency or equivalent foreign currency as given below:

Gold Sponsor : INR 50,000/Silver Sponsor : INR 25,000/Bronze Sponsor : INR 10,000/-

^{*}Foreign Delegates



MODE OF PAYMENT

The registration fee / sponsorship amount shall be paid through online transfer to the account, details of which are given below:

Account Name : DIRECTOR, KSCSTE-NATPAC

Account Number : 57009289104

Name of Bank : State Bank of India

L The same

Branch : LIC Junction, Pattom, Thiruvananthapuram

IFSC : SBIN0070212

CORRESPONDENCE ADDRESS

ORGANISING SECRETARY, CTSEM 2020

KSCSTE - NATPAC

K. KARUNAKARAN TRANSPARK

AKKULAM, THURUVIKKAL (P.O)

THIRUVANANTHAPURAM

PINCODE: 695 011

KERALA, INDIA

E-mail: ctsem2020@gmail.com

Web: www.natpac.kerala.gov.in/index.php/ctsem2020

Phone: + 91 471 - 2779260, + 91 94471 56794







KEYNOTE SPEAKERS



Dr. A. Veeraragavan
Professor
IIT Madras



L LLb-144

Dr. K. V. Krishna Rao Professor IIT Bombay



Dr. Moses Santhakumar Professor NIT Tiruchirappalli



Dr. M. Parida Professor IIT Roorkee



Dr. Neeraj Buch Professor MSU, Michigan



Dr. P. K. Sikdar President ICT Pvt. Ltd.



Dr. Rajib B. Mallick Professor WPI, Massachusetts



Dr. Ram Pendyala Professor ASU, Arizona



Dr. R. Jayakrishnan Professor UCI, California



Dr. Satish Chandra
Director
CSIR-CRRI, New Delhi



Dr. Shashi Nambisan Professor UNLV, Nevada



Dr. Srinivas S. Pulgurtha Professor UNC Charlotte





ORGANISING COMMITTEE

PATRONS

Dr. Samson Mathew, Director, KSCSTE - NATPAC

Dr. Jiji C. V., Principal, CET

CHAIRPERSON

Dr. Mini Soman, Professor and Head, Department of Civil Engineering, CET

ORGANISING SECRETARIES

- 1. Dr. Anil R., Associate Professor, CET
- 2. Dr. Leema Peter, Professor, CET
- 3. Shri. Shaheem S., Principal Scientist, KSCSTE-NATPAC
- 4. Shri. V. S. Sanjay Kumar, Senior Scientist, KSCSTE-NATPAC

ADVISORY COMMITTEE

- 1. Dr. A. U. Ravi Shankar, Professor, NITK, Surathkal
- 2. Dr. B. P. Chandrasekhar, Professor (Retd.), NIT Warangal
- 3. Dr. C. S. R. K. Prasad, Professor, NIT Warangal
- 4. Dr. G. J. Joshi, Professor, SVNIT Surat
- 5. Dr. H. S. Jagadeesh, Professor, BMS College of Engineering, Bangalore
- 6. Dr. I. K. Pateriya, Director, NRIDA
- 7. Dr. K. Gunasekaran, Professor, Anna University, Chennai
- 8. Dr. K. P. Sudheer, Executive Vice President, KSCSTE
- 9. Dr. K. S. Reddy, Professor, IIT Kharagpur
- 10. Dr. Kuncheria P. Isaac, Founder Vice Chancellor, APJ AKTU
- 11. Dr. K. V. Jayakumar, Professor, NIT Warangal
- 12. Dr. M. V. L. R. Anjaneyulu, Professor, NIT Calicut
- 13. Dr. P. K. Sarkar, Professor (Retd.), SPA, New Delhi
- 14. Dr. Partha Chakraborty, Professor, IIT Kanpur
- 15. Dr. Tom V. Mathew, Professor, IIT Palakkad

TECHNICAL COMMITTEE

1. Dr. Akhilesh Kumar Maurya, Professor, IIT Guwahati

L. S. Lieuwalder

- 2. Dr. Animesh Das, Professor, IIT Kanpur
- 3. Dr. Anjaneyappa, Associate Professor, RVCE, Bangalore
- 4. Dr. Ashalatha R., Professor, CET
- 5. Dr. Ashish Verma, Associate Professor, IISc Bangalore
- 6. Dr. Bino I. Koshy, Professor (Retd.), RIT Kottayam
- 7. Dr. B. K. Bhavathrathan, Assistant Professor, IIT Palakkad
- 8. Dr. Harikrishna M., Assistant Professor, NIT Calicut
- 9. Dr. J. Murali Krishnan, Professor, IIT Madras
- 10. Dr. K. Krishnamurthy, Professor, NIT Calicut
- 11. Dr. K. Ramachandra Rao, Professor, IIT Delhi
- 12. Dr. M. Satyakumar, Professor (Retd.), CET
- 13. Dr. Nisha Radhakrishnan, Associate Professor, NIT Tiruchirappalli
- 14. Dr. Preethi P., Associate Professor, CET
- 15. Smt. Salini P. N., Scientist, KSCSTE-NATPAC
- 16. Dr. Shriniwas S. Arkatkar, Associate Professor, SVNIT
- 17. Dr. S. Shankar, Assistant Professor, NIT Warangal
- 18. Dr. Sunitha V., Assistant Professor, NIT Tiruchirappalli
- 19. Dr. Suresha S. N., Associate Professor, NITK Surathkal
- 20. Dr. S. Velmurugan, Chief Scientist, CSIR-CRRI, New Delhi
- 21. Dr. Venkaiah Chowdary, Associate Professor, NIT Warangal
- 22. Shri. Wilson K. C., Scientist, KSCSTE-NATPAC





KSCSTE-NATPAC



National Transportation Planning and Research Centre (NATPAC), an institution under Kerala State Council for Science, Technology and Environment (KSCSTE), is a premier R & D institution in the country which works on multi-modal system of transportation. The headquarters of the Centre is at Thiruvananthapuram.

Since its inception in 1976, the Centre has been offering solutions to the Government and handles research and consultancy projects as per the Country/State's requirements in the arena of Highway Engineering, Traffic & Transportation Planning, Road Safety, Transport Economics & Management, Techno-Economic Feasibility, Public Transportation, Socio-Economic Impact Analysis, Transport Energy & Pollution, Water Transportation, Innovative Transport Systems, etc.

KSCSTE-NATPAC has a staff strength of over 100 professionals working in different fields of Civil Engineering. The Scientific staff of the Centre are well experienced with multi-disciplinary background in the fields of Traffic Engineering, Transport Planning, Traffic Safety, Highway and Geotechnical Engineering, Hydraulics Engineering, GIS & Remote Sensing, Transport Economics, Computer Applications and Transport Management. KSCSTE-NATPAC has association with various national and international agencies for carrying out specialised technical projects and has MoUs with reputed institutions in the Country.

COLLEGE OF ENGINEERING TRIVANDRUM (CET)



College of Engineering Trivandrum (CET) was established in 1939 as the first Engineering College in the then Travancore State as a constituent college of Travancore University. Ever since its inception, the College has maintained its eminence as a leading Engineering College in India.

The Department of Civil Engineering was established along with the inception of College of Engineering Trivandrum. Presently, the Department offers undergraduate programme in Civil Engineering leading to the B.Tech degree and six postgraduate programmes, leading to the M.Tech degree of APJ Abdul Kalam Technological University. The Department also offers doctoral programmes under QIP/NDF.

Transportation Research Centre was setup by the Government of Kerala in Transportation Engineering Division, Department of Civil Engineering, College of Engineering Trivandrum with the intention of contributing its academic and research output to offer 'better roads for the public of Kerala'. It aspires at joining hands with the practicing engineers for planning, designing, and building better roads and managing it efficiently throughout the service life.