

27th January 2025

3rd Young Researchers' Symposium (YRS) & Award

28th January 2025

One day workshop on TLC2

The TLC2 Workshop is an annual event aimed at disseminating the recent findings and identifying the new challenges in the areas of TLC2 through collaborations with renowned national and international experts



Tentative list of Speakers



Dr. O. Burkan Isgor
Oregon State University,
USA



Dr. Antonia Pacios
Technical University
of Madrid, Spain



Dr. A. John Babafemi
Stellenbosch University,
South Africa



Dr. K. Siva Teja Chopperla
IIT Gandhinagar,
India



Dr. Hemanta Doloi
University of Melbourne,
Australia



Dr. R. K. M. Bharadwaj
University of Sharjah, UAE



Dr. Makarand Hastak
Purdue University, USA



Mr. Srinivasan T
Larsen & Toubro, India



Dr. Aritra Pal
IIT Madras, India



Dr. Anil Sawhney
Royal Institution of Chartered
Surveyors (RICS), USA



**IIT Madras Research Park,
Chennai, India**

Early bird registration for TLC2 workshop 2025 is open now: <https://code.iitm.ac.in/code-programs/TLC2-2025/>

Category	Young Researchers' Symposium (YRS) Monday, January 27, 2025	One day workshop on TLC2 Tuesday, January 28, 2025
Industry - Practicing engineers	Rs. 2000	Rs. 4000
Academia - Faculty members, Scientists, Part-time Research Scholars	Rs. 1000	Rs. 2000
Academia - Students, Full-time Research Scholars	Rs. 1000	Rs. 1000

28th January 2025 One day workshop on TLC2

08:00-09:00AM	Registration
09:00-09:20AM	Inaugural session: Welcome address by Prof. Manu Santhanam Chief Guest: Prof. Benny Raphael, IIT Madras
09:20-09:30AM	<i>Discussion Leader (Prof. Ravindra Gettu)</i>
09:30-10:00AM	Dr. O. Burkan Isgor <i>Challenges related to reinforcement corrosion in low-clinker systems</i>
10:00-10:30AM	Dr. Antonia Pacios <i>Transforming Waste into Wealth: CO₂ Sequestration through Mineralization of Slag and Other Byproducts</i>
10:30-11:00AM	Tea/coffee Break
11:00-11:30AM	Dr. Adewumi John Babafemi <i>FRC & 3D Printed Concrete</i>
11:30-12:00AM	Dr. K Siva Teja Chopperla <i>Assessing Alternative SCMs for Use in Concrete</i>
12:00-01:00PM	Lunch Break
01:00-01:10PM	<i>Discussion Leader (Prof. Koshy Varghese)</i>
01:10-01:40PM	Dr. Hemanta Doloi <i>Making Affordable Housing Sustainable: The Importance of Blending with Local Cultures and Practices</i>
01:40-02:10PM	Dr. R. K. Mantha Bharadwaj <i>Impact of Automation and Information Technology on Sustainability</i>
02:10-02:40PM	Dr. Makarand Hastak Topic of Presentation: TBD
02:40-03:10PM	Mr. Srinivasan T <i>Implementing Sustainability through Contract Specifications</i>
03:10-03:40PM	Tea/Coffee Break
03:40-04:00PM	<i>Talk by YRS winner</i>
04:00-04:30PM	Dr. Aritra Pal <i>Time Overruns and Unsustainable Projects: The Importance of Quick and Reliable Project Progress Monitoring</i>
04:30-05:00PM	Dr. Anil Sawhney <i>Whole life carbon assessment standard: decarbonizing the built environment</i>
	Closure



3rd Young Researchers' Symposium & Award

on

Technologies for Low-Carbon & Lean Construction



27th January 2025 (Monday) | 9 am to 5 pm IST | @ Research Park, IIT Madras

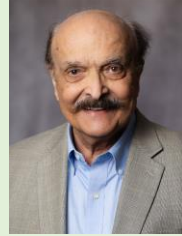
About the symposium

Young Researchers' Symposium (YRS) is an international forum for senior PhD students and recent doctoral graduates to showcase their cutting-edge research outcomes in the areas of Technologies for Low-Carbon and Lean Construction (TLC2).

The previous symposium featured participants from top universities, including:

- Politecnico di Milano, Italy
- University of Toronto, Canada
- Ghent University, Belgium
- University of Leeds, UK
- Monash University, Malaysia
- Thapar Institute of Engineering & Technology, India
- The University of Sheffield, England
- University of Capetown, South Africa
- Oregon State University, USA
- UPC Barcelona, Spain
- IIT Madras, Hyderabad & Palakkad, India
- Anna University, India

Prestigious Prof. Surendra P. Shah Award is given to the best speaker of YRS



PROF. SURENDRA P. SHAH

Presidential Distinguished Professor, Center for Advanced Construction Materials, University of Texas at Arlington, USA
Distinguished Professor, IIT Madras

Themes (but not restricted to...)

- *Supplementary/alternative cementitious materials*
- *Identification, processing, and valorization of waste for use in concrete construction*
- *Service life and life cycle assessment, sustainability and carbon footprint of construction industry*
- *An Integrated Test-Bed for large-scale processes and visualization*
- *Organizational and policy research for large-scale and accelerated construction technology*
- *Implementing lean techniques in construction projects*

YRS finalists 2023



YRS finalists 2024



What you need to do ?

Send a 200 words abstract and a 5-minute video on your PhD thesis by 15th December 2024

Travel grant of upto EUR 2000 (two thousands) could be available to selected speakers travelling from outside India



tlc2.iitm.ac.in/tlc2-events/yrs-2025/

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09:00 – 09:10 AM	Welcome Address by Prof. Ravindra Gettu	
09:10 – 09:30 AM	Development of cementitious materials with improved sustainability and high temperature performance	Vikash Kumar Singh IIT Gandhinagar, India
09:30 – 09:50 AM	Utilization of Demolished Concrete Waste For Roller Compacted Concrete Pavement(RCCP) Applications	W. R. A. Nalaka Jayantha University of Moratuwa, Sri Lanka
09:50 – 10:10 AM	The Influence of Safety Leadership on Safety Performance through Safety Climate in the Construction Industry	S. Senthamizh Sankar SRM Institute of Science and Technology, India
10:10 – 10:30 AM	Development of carbon sequestering earth-based 3D printable “cementless” material for construction under different environmental exposures	Pitabash Sahoo Indian Institute of Science Bengaluru, India
10:30 – 10:50 AM	Investigation on the Behavior of Rubberized Mortar and Concrete under Cyclic Loading	Ma Cho Zin Win Yangon Technological University, Myanmar
11:00 – 11:30 AM	Tea/coffee Break	
11:30 – 11:50 AM	Reusable Fire-Resistant RC Column Rehabilitation Scheme with Fibre Reinforced Polymer Composites	Mohamed Elshorbagi Western Sydney University, Australia
11:50 – 12:10 PM	Understanding Salt Weathering in Combined Substrate-Mortar Masonry Systems	Anupama V A IIT Madras, India
12:10 – 12:30 PM	Print Technique and Material Modification In 3D Printing of Concrete	Avinaya Tripathi Arizona State University, USA
12:30 – 12:50 PM	Development of eco-friendly and cost-effective foam concrete using high-volume supplementary cementitious materials: Analysis of microstructural, mechanical, and durability properties	Arvind Vishavkarma IIT Kanpur, India
12:50 – 02:00 PM	Lunch Break	
02:00 – 02:20 PM	Studies on Enhancement of Stability, Rheology and Mechanical Performance of 3D Printable Foam Concrete	Uday Boddepalli IIT Guwahati, India
02:20 – 02:40 PM	Development of Calcium Sulfoaluminate-Belite Cement using Alternative Raw Materials	Bipina Thaivalappil IIT Madras, India
02:40 – 03:00 PM	A PFEM numerical framework for the simulation of 3D printing with advanced cementitious materials	Giacomo Rizzieri Politecnico di Milano, Italy
03:00 – 03:30 PM	Tea/Coffee Break	
03:30 – 05:00 PM	Poster Presentations by Young Researchers	
05:00 – 05:30 PM	About RILEM by Dr. Surender Singh, RYC Chair	
05:30 – 05:45 PM	Dedication of the Award Talk by Prof. Surendra P. Shah (Online)	
05:45 – 06:00 PM	Announcement of the Prof. Surendra P Shah Awardee & Best Poster Awardee for 2024 Closure	