

Technologies for Low Carbon and Lean Construction (TLC2) Week Update

Indian Institute of Technology (IIT) Madras has established a Center of Excellence titled TLC2. As part of the TLC2 Center's activities, the TLC2 Week was organized from January 30 to February 3, 2023 at IIT Madras. The TLC2 Week witnessed the enthusiastic participation of more than 400 participants from industry, academia, Government, and the student community. The event aimed to disseminate the recent findings and identify the new challenges in the areas of TLC2 through collaborations with relevant national and international stakeholders working on the areas mentioned above. The week-long program had the following events:

Day 1 - Workshop on Corrosion and its control in concrete structures (C3S)

The C3S Workshop provided insights to engineers on how to design for durability or service life and combat steel corrosion in concrete structures with a blend of theoretical and practical aspects including case studies. The speakers were a mix of eminent researchers from leading universities across the globe and experts from leading industries.

Day 2 - Young Researchers Symposium (YRS) on TLC2

The Young Researchers' Symposium (YRS) on TLC2, co-sponsored by RILEM, was a premium forum for promoting and supporting young researchers. After rigorous scrutiny, 10 Young researchers, mainly senior Ph.D. scholars in their advanced stages of research, were invited to present their work on areas related to TLC2. Prof. Surendra P. Shah delivered the virtual presentation inspiring the audience on how to be a successful researcher.

Day 3 and 4 - TLC2 workshop

Recognizing the need to enhance the 'circular economy and sustainability' of the concrete construction industry worldwide and joining the global effort, the 2 day TLC2 Workshop co-sponsored by RILEM was organized focusing on thematic sessions in the areas of (1) Advanced Construction Materials, (2) Sustainability and carbon footprint, (3) Recycling and processing of waste for concrete, (4) Construction automation, (5) Construction policies. The workshop was inaugurated by Prof Kamakoti V., Director, IITM, who briefly shared on the research initiatives under the Institute of Eminence (IoE) scheme and the recently announced Centers of Excellence from these initiatives. The workshop had an overwhelming participation of more than 250 participants from 40+ industries (private and public), 20+ IITs/NITs and other CFTIs, Government organizations, and the student community.

TLC2 workshop enjoyed strong support of 25+ industries; both nationally and internationally.

Day 5 - Scheme for Promotion of Academic and Research Collaboration (SPARC) workshop on durability and sustainability of concrete structures (morning session) and workshop on Textile Reinforced Concrete (TRC) (afternoon session)

SPARC aims to improve the research ecosystem of India's higher educational institutions by facilitating academic and research collaborations between Indian institutions and the best institutions in the world from 28 selected nations to solve problems or national and international relevance. The half-day SPARC workshop presented the major insights gained from the research projects under the program.

The growing adoption of TRC technologies for suitable applications by the construction sector in India is a testimony to this material's multi-faceted advantages. TRC is a strain-hardening cementitious material with non-corrosive reinforcement, like glass and carbon. The TRC workshop provided insights to the large community of users, designers, researchers, and consumers on the structural behavior, fabrication techniques, characterization and properties, and design and analysis of TRC. Results from major ongoing projects at IIT Madras and other institutions were also presented.





RILEM UPDATE

The International Union of Laboratories and Experts in Construction Materials, Systems and Structures

2022 MAAS Outstanding Papers

Again this year, ten papers have been selected by *Materials and Structures* (MAAS) Board of Editors and recognised as “outstanding papers”. Congratulations to all authors! You can find the full list and download your free copy here bit.ly/3WCBXHP!



2022 RILEM Medallists

It is with great honour that RILEM announces the 2023 medallists! Please join us to congratulate:

- Prof. Gaurav Sant, University of California, USA: Robert L’Hermitte medallist, bit.ly/3H5CXQb
- Prof. Guoqing Geng, National University of Singapore: Gustavo Colonnetti medallist, bit.ly/3ISE0V4
- Dr. Franco Zunino, ETH Zürich, Switzerland: Gustavo Colonnetti medallist, bit.ly/3ISE0V4.



Congratulations to all the applicants. It has been a tough decision for the jury this year!

Interview with Prof. Karen Scrivener

You can read here bit.ly/3IUqccq the interview with Prof. Karen Scrivener, Professor at the Construction Materials Laboratory of EPFL, Lausanne, Switzerland, and Chair of the Educational Activities Committee of RILEM since 2019. This interview is to discuss the successful EAC webinar series ROC&TOK, launched by the end of 2020.



New Papers in RILEM Technical Letters

Have you checked the latest volume of *RILEM Technical Letters*, the Open Access journal of RILEM? Amongst others, you will find a very interesting overview of the potential of alkali-activated systems technology, and the investigation of the quantitative description of the slags surface area’s effect into the slag chemistry on the reaction kinetics of alkali-activated materials! All available here: <https://letters.rilem.net>.

