



RILEM EAC PhD Course Report

Title: Online Workshop on Recent Advances in the Science and Technology of Concrete

Dates: 2nd May 2020

Venue: Online: Zoom and YouTube

1) Brief outline of course topic (photos from course can be included, if available)

Recent research results from a range of aspects covering new cements, use of waste and alternative binders, durability of concrete and service life assessment, fibre reinforced concrete and 3D printing were covered by the investigators who were invited to speak.



Online Workshop on "Recent Advances in Science and Technology of Concrete"

Note that this was not branded as a RILEM PhD course

2) Who were the teachers-affiliations?

IIT Madras, U. Miami, Georgia Tech

3) How many students attended (participants) —status (PhD, MSc, industry, etc.) Affiliations?

About 75 on Zoom and about 500-600 at any time on YT

4) Number of Registered and unregistered students.

About 9,600 registered, mainly from India and 31 other countries

5) Brief review of course scope, course content and lecture schedule.

The programme was the following:

09:30-10:00: Ravindra Gettu, *IITM & RILEM*: About RILEM and Introduction to the Workshop

10:00-10:30: Prannoy Suraneni, *U. Miami, USA*: Rapid screening tests for SCMs

10:30-11:00: Yuvaraj Dhandapani, *IITM*: Influence of SCMs on Hydration

11:00-11:30: Piyush Chaunsali, *IITM*: Value Addition to Concrete with Waste and Residues

11:30-12:00: Break

12:00-12:30: Prasanth Alapati, *Georgia Tech, USA*: Durability of Concrete with Alternative Cementitious Materials

12:30-13:00: Radhakrishna G. Pillai, *IITM*: Chloride Threshold and Its Implications on Service Life

13:00-13:30: Ravindra Gettu, *IITM*: Testing of Fibre Reinforced Concrete for Structural Design

13:30-14:00: Manu Santhanam, *IITM*: 3D Printing with Concrete

Each lecture was for 20 minutes with 10 minutes for responding to online questions

6) Financial support received.

Registration fee of INR 250 was collected from Zoom participants

7) Scientific (beyond EAC) Sponsorship.

Indian Concrete Institute

8) Were Course Evaluations submitted by participants?

No formal evaluation was done.

The YT live session had, after one day, 7,822 views, 419 likes and 2 dislikes

9) Evaluation of Learning Outcomes (Grading, etc) ECTS points, if applicable.

None

10) Is it planned to continue the course in future (i.e. as a course series at regular intervals)?

No. However, it is proposed to continue the ROC&TOK series – RILEM Online Conferences and Transfer of Technology through EAC and TAC

11) How was RILEM presented to participants?

20-minute presentation was made in the beginning by the RILEM President

Name: Ravindra Gettu and Radhakrishna G Pillai

Date: 3rd May 2020