



Workshop on Limestone Calcined Clay Cements (LC³)

Monday, September 4, 2017 | ICSR Auditorium | IIT Madras, Chennai, India

www.rilem2017conference.org

ABOUT THE WORKSHOP

LC³ is a new type of cement, which is obtained by blending limestone and calcined clay along with Portland cement in suitable proportion. The major advantage of LC³ is that it can reduce CO₂ emissions by up to 30%. The raw materials, namely limestone and clay (with 50 – 60% kaolinite content) are available in abundant quantities. Also, the existing cement plants can easily be modified to manufacture LC³ cements. This workshop includes lectures on the production, microstructure, strength, durability, and the environmental and economic aspects of LC³ cements and concretes.

SPEAKERS

- Fernando Martirena (UCLV, Cuba)
- François Avet (EPFL, Switzerland)
- Karen Scrivener (EPFL, Switzerland)
- Manu Santhanam (IIT Madras, India)
- Ravindra Gettu (IIT Madras, India)
- Shashank Bishnoi (IIT Delhi, India)
- Soumen Maity (TARA, New Delhi, India)

TOPICS

- Overview of calcined clays for concrete
- Selection of suitable clays for LC³
- Issues in calcination and production
- Strength and durability of concrete with LC³
- Life cycle analysis of cement and concrete with LC³
- Economics of LC³ production
- Concrete products with LC³
- Challenges and the way forward

REGISTRATION FEE

- Delegates of ICACMS 2017 (www.rilem2017conference.org) can attend the workshop for FREE; But, prior registration is needed. On-Spot intimations will not be entertained.
- For others, a fee of INR 2,000 + 15% Service tax is applicable.

CONTACT INFORMATION

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PARTNERS IN THE LC³ PROJECT

- Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland (Coordinator)
- CIDEM, University of Las Villas, Cuba
- Indian Institute of Technology Delhi, India
- Indian Institute of Technology Madras, India
- Indian Institute of Technology Bombay, India
- Technology and Action for Rural Advancement (TARA), New Delhi, India

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and Cooperation SDC**

Limestone
Calcined
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Cement





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PROGRAMME SCHEDULE

10:30 am to 11:00 am	Tea/Registration for LC3 workshops	
11:00 am - 11:45 am	Introduction and context	Karen Scrivener EPFL, Switzerland
11:45 am - 12:15 pm	Selection of suitable clays and reactivity	Francois Avet EPFL, Switzerland
12:15 pm - 1:00 pm	The Indian experience in the development of Limestone Calcined Clay Cement	Shashank Bishnoi IIT Delhi, India
1:00 pm – 1:45 pm	Lunch Break	
1:45 pm - 2:45 pm	Strength and durability of concrete with LC ³	Manu Santhanam IIT Madras, India and Fernando Martirena UCLV, Cuba
2:45 pm - 3:30 pm	Applications and Economics of LC ³ Products	Soumen Maity TARA, New Delhi, India
3:30 pm – 3:45 pm	Tea/Coffee Break	
3:45 pm – 4:30 pm	Life cycle assessment	Ravindra Gettu IIT Madras, India
4:30 pm - 5:00 pm	Cuban experience	Fernando Martirena UCLV, Cuba
5:00 pm – 5:15 pm	Introduction to Havana conference	Aurelie Favier EPFL, Switzerland
5:15 pm - 5:30 pm	Challenges and the way forward	Karen Scrivener EPFL, Switzerland
5:30 – 6:00 PM	Wrap up / Discussions / Questions	