



# HANDS ON SEMINAR

The Latin American Technology Resource Center (TRC LATAM) is launching the second “Hands on” seminar on clay calcination, which will take place from October 6-12, 2024 in Santa Clara, Cuba. The seminar will include:



- Lectures with latest updates on issues related to clay survey, calcination and grinding, cement production, and durability of LC3 concrete.
- Lab activities on clay and LC3 cement characterization.
- Field work at a clay deposit, including sample collection and processing.
- Participation on a real clay calcination trial at the LC3 Pilot Plant UCLV.
- Visit to the natural exposure site at cayo Santa Maria.

## PROGRAM Y TERMINAR

Date	Activity	Details
October 6th (Sunday)	Arrival of participants 18:00: Welcome cocktail	Accommodation at Santa Clara city In Santa Clara
October 7th (Monday)	8:30: Registration for the seminar 9:00: Introduction of the course 9:15: Clays and survey of clay deposits 10:15: Thermal activation of clays 11:15: Coffee break 11:30: Hydration of cements containing calcined clay & limestone 12:30: Organization of the lab work for the course 13:30: Lunch at UCLV	Transport available to UCLV  How to find suitable clays? Clay calcination and reactivity  Up-to-date findings. Real case studies  Workgroups of 3-4 people to be organized
October 8th (Tuesday)	8:00: Departure to a clay site 8:15: Safety instructions 9:30-12:30: Collecting real samples at clay deposit 13:00: Lunch at Remedios historic center 14:00: Depart to UCLV 15:00-17:00 Experimental work at lab	Remedios How to use the safety gear Each workgroup will collect samples    Characterization of collected samples
October 9th (Wednesday)	9:00: The manufacture of LC3 cement 10:00: Applications of LC3 11:00: Coffee break 11:15: Durability of LC3 concrete 12:15: Impacts of LC3 production 13:15: Lunch at UCLV 14:00-16:00: Experimental work at lab	Formulation, grinding, properties Concrete and mortar  Chlorides, carbonation, service life LCA analyses. Online tool for LC3  Cement characterization
October 10th (Thursday)	8:00: Departure to LC3 plant UCLV 8:15: Safety instructions 9:00-12:00: Industrial trial 12:00-13:30: Presentation of service providers • Calcination technologies • Admixtures for calcined clay applications • Real projects in operation 13:30: lunch at UCLV 15:00: Departure to Cayo Santa Maria	How to use the safety gear Calcination and grinding trial Sponsoring companies are invited to present their products
October 11th (Friday)	9:00-10:00 Lecture Durability of LC3 concrete exposed under natural conditions 10:00-12:30: Visit to exposure site Punta Matamoros and sede 13:00 Lunch 15:00-17:00 Presentation of reports each team	Site 1: directly on the shore Site 2: 500 m from seashore  10 minutes PPT per workgroup
October 12th (Saturday)	Return	