HANDS ON LC3 PRODUCTION

October 6-11, 2024

The Latin American Technology Resource Center (TRC LATAM) is launching the second "Hands on" seminar on clay calcination, which will take place from October 5-12, 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

Date	Activity	Details	
October 6 th (Sunday)	Arrival of participants	Accommodation at Santa Clara city	
	18:00: Welcome cocktail	In Santa Clara	
October 7 th (Monday)	8:30: Registration for the seminar	Transport available to UCLV	
	9:00: Introduction of the course		
	9:15: Clays and survey of clay deposits	How to find suitable clays?	
	10:15: Thermal activation of clays	Clay calcination and reactivity	
	11:15: coffee break		
	11:30: Hydration of cements containing calcined clay & limestone	Up-to-date findings. Real case studies	
	12:30: Organization of the lab work for the course	Workgroups of 3-4 people to be organized	
	13:30: lunch at UCLV		
October 8 th	8:00: departure to a clay site	Remedios	
(Tuesday)	8:15: safety instructions	How to use the safety gear	
	9:30-12:30: collecting real	Each workgroup will collect	
	samples at clay deposit	samples	

	13:00: Lunch at Remedios historic center		
	14:00: depart to UCLV		
	15:00-17:00 Experimental	Characterization of collected	
	work at lab	samples	
October 9 th	9:00: The manufacture of LC3	Formulation, grinding,	
(Wednesday)	cement	properties	
	10:00: Applications of LC3	Concrete and mortar	
	11:00: coffee break		
	11:15: Durability of LC3	Chlorides, carbonation,	
	concrete	service life	
	12:15: Impacts of LC3	LCA analyses. Online tool for	
	production	LC3	
	13:15: lunch at UCLV		
	14:00-16:00 Experimental	Cement characterization	
	work at lab		
October 10 th	8:00: departure to LC3 plant		
(Thursday)	UCLV		
	8:15: safety instructions	How to use the safety gear	
	9:00-12:00: industrial trial	Calcination and grinding trial	
	12:00-13:30 Presentation of	Sponsoring companies are	
	service providers	invited to present their	
	Calcination	products	
	technologies		
	Admixtures for calcined		
	clay applications		
	 Real projects in 		
	operation		
	13:30: lunch at UCLV		
	15:00: Departure to Cayo Santa Maria		
October 11 th	9:00-10:00 Lecture Durability of LC3 concrete exposed under		
(Friday)	natural conditions		
	10:00-12:30: Visit to exposure	Site 1: directly on the shore	
	site Punta Matamoros and	Site 2: 500 m from seashore	
	sede		
	13:00 Lunch		
	15:00-17:00 Presentation of	10 minutes PPT per	
	reports each team	workgroup	
October 12th	Return		
(Saturday)			

Economic information

Registration fees				
Seminar LC3 delegates	\$US 600			
Seminar LC3 PhD students	\$US 400			
Accommodation package				
(i) Santa Clara and cayo Santa María (Oct. 5-12)	\$US			