SITAR Summer-school at CUAS

Climate-friendly practices in the construction industry

Target group:
Civil Engineering Students (3rd year)
Master & PhD students
Post-doctoral researchers
Professionals

Maximum number of participants:
50 (first-come, first-served)

Language: English

Format: In person

Cost: TBD -100 euros (+Scholarships)

Date and Time:
3 days
July 2026

Place: CUAS; Villach campus and laboratories

Get an impression: Villach campus and laboratories
FuCoSo – Future Concrete Solutions
Villach - the lively town on the River Drau

The Summer School on Climate-friendly practices in the construction industry is a unique program designed for university students and industry professionals who are eager to shape the future of sustainable construction. This intensive three-day experience combines expert-led lectures, hands-on laboratory training, and real-world case studies from leading companies and institutions. Participants will explore cutting-edge topics such as low-carbon cement alternatives, ultra-high-performance concrete, sustainable structural design, and advanced materials for repair and retrofitting. Hosted in collaboration with academic and industrial partners, and with a special focus on innovative eco-efficient structural solutions, this summer school offers a powerful platform to deepen your expertise, expand your network, and contribute to the ecological transition in civil engineering.

*ECTS (with workshop project delivery) and Certification to participants

Schedule

Times	Day 1 – 8th July 2026	Day 2 - 9th July 2026	Day 3 - 10th July 2026
8:45-9:00	Welcome (N. Randl & A. Georgiou, CUAS)		
9:00-10:30	K. Bergmeister (BERGMEISTER S.R.L.): *Ecofriendly, low-emission and recyclable structural solutions*	G. Somma, E. Runcio (University of Udine): *Sustainable concrete: strength and durability for different solutions*	A. Georgiou (CUAS): *Pre-selection design charts for sustainable structures*
10:30-10:45		Coffee break	
10:45-12:15	N. Randl (CUAS): *Sustainable repair of concrete slabs with Ultra High Performance Concrete Overlays*	C. Stotter, L. Lechner (Alpacem GmbH): *Sustainable cement production*	T. Meszöly (CUAS): *Experimental demonstration of sustainable design of beams + New Austrian Guideline on UHPC: Materials, Construction, Structural Design*
12:15-13:30		Lunch Break	
13:30-15:00	A. Basso (Antonio Basso S.p.A.): *Sustainable development of pre-cast concrete elements*	X. Shen (CUAS): *Development of low carbon emission Ultra High Performance Concrete*	*Workshop – Case Study: Ecofriendly Design (In groups under the supervision of the consortium)*
15:00-15:15		Coffee break	
15:15-16:45	S. Pliger (ISB Institut Südtiroler Baustofftechnologie KGmbH): *Sustainable recycling concrete – Examination of recycled aggregates and concrete characteristics*	L. Azdejkovic (CUAS): *Sustainable retrofit with textile reinforced concrete and short fibres*	*Workshop – Case Study: Ecofriendly Design Presentation of results from participants*
16:45-18:00	**LABORATORY: Practical Training on destructive and non-destructive testing for sustainability (CUAS+ISB)**	**LABORATORY: Application of TRM and experiments (CUAS: L. Azdejkovic and D. Gergov)**	**LABORATORY: Ultra High Performance Concrete - Mix, casting and experiments (CUAS: X. Shen, T. Meszöly)**

Organizers

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