Developing circular construction materials

Summer School, TU Eindhoven, August 14-15, 2025

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General information

- Date: 14-15 August 2025
- Title: Developing circular construction materials
- Location: Eindhoven University of Technology (TU/e)
- Language: English
- Participation fee: no fee
- Certificate of Participation

Registration:

- Open: 10-06-2025
- Close: 30-06-2025

Projects involved:

- BLADES2BUILD
- CIRCULess

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Information about program

- This two-day Summer School offers an intensive program for young researchers interested in advancing knowledge and practical skills in the circular use of building materials.
- The program combines expert lectures, hands-on lab sessions, and critical discussions around recycling techniques, material testing, and design for circularity in the built environment.
- Participants will explore innovative approaches to C&D waste and industrial waste recycling (concrete recycling, carbonation methods, steel slags) with exposure to real projects

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Program of Summer School. Day 0

Time and day	Activity	Content	Building, room
Aug 13 16:00 – 17:30	Early registration Neworking	Registration and introduction of the participants / Networking	Vertigo, 7.08

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Program of Summer School. Day 1

Day 1 (Aug 14)

Time	Activity	Content	Building, room
9:00 -11:20	Kick-off lectures	Introduction to Circular Building Materials summer school Lectures of keynote speakers Presentations of project case studies: BLADES2BUILD, CIRCULess	Vertigo, 7.08
11:20 -11:40	Coffe break		
11:40 - 13:00	Presentations of the participants	Presentations of the participants (template of presentation slide or poster will be sent)	Vertigo, 7.08
12:00 - 13:00		Lunch break	
13:00 - 16:00	Workshops (in small groups 5-6 persons)	TA. Mechanical recycling of wind turbine blade waste and application in cement-based materials B. Characterisation of wind turbine blade waste and application in polymer-based composites C. In-situ treatment of recycled concrete fines in the carbonation chamber D. Smart crushing of construction and demolition waste. XRD analysis results of crushed and sieved concrete waste	BPS lab CBM lab
16:00 - 17:00	Group discussion	Group reflection. Interpreting lab results in the context of real applications	Vertigo, 7.08

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Program of Summer School. Day 2

Day 2 (Aug 15)

Time	Activity	Content	Room
9:00 – 12:00	Workshops (in small groups 5-6 persons)	TA. Mechanical recycling of wind turbine blade waste and application in cement-based materials B. Characterisation of wind turbine blade waste and application in polymer-based composites C. In-situ treatment of recycled concrete fines in the carbonation chamber D. Smart crushing of construction and demolition waste. XRD analysis results of crushed and sieved concrete waste	BPS lab CBM lab
12:00 -13:00		Lunch break	
13:00 – 16:00	Workshop	Working in small groups on presentation of circular approach in research	Vertigo, 7.08
16:00 – 17:00	Group discussion	Presenting approaches to applying circular thinking in participants' research	Vertigo, 7.08

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