



2025 DuRe-Transp Workshop

on

Durable and Resilient Concrete:

Novel Mineral additives and Fibers, Rheology Modifiers, Strength and Durability Enhancers, and Thermal Stabilizers

Program

Monday, July 28

7:30 – 8:15	Registration & Breakfast
8:15 – 8:30	Welcome and Opening Remarks

Module 1: Strength and Durability Enhancers

8:30 – 09:00	Strength and Modulus Graphitic Enhancers for Concrete, <i>by M. Konsta-Gdoutos</i>
09:00 – 09:30	Use of Nanomaterials to Enhance HPC and UHPC, <i>by K. Khayat</i>
09:30 – 10:00	Effect of biomass on the mechanical properties of concrete, <i>by F. Acosta and M. Konsta-Gdoutos</i>
10:00 – 10:30	Coffee Break and Poster Session
10:30 – 11:00	Fiber-Reinforced Concrete for Construction and Rehabilitation, <i>by K. Khayat and F. Acosta</i>

Module 2: Rheology Modifiers

11:00 – 11:30	Effect of novel chemical admixtures on the fresh properties of 3D printed cementitious mortars, <i>by J. Olek/P. Zavattieri/J. Youngblood</i>
11:30 – 12:00	Novel rheology modifiers for enhancing workability and buildability of cementitious mixtures, <i>by P. Danoglidis</i>
12:00 – 13:30	Lunch and Poster Session

Module 3: Blended Cements and Mineral Additives

13:30 – 14:00	Optimizing blended cement systems for long-term performance, <i>by J. Weiss</i>
14:00 – 14:30	Integration of novel meta-grains and meta-phases to control strength and ductility in concrete, <i>by P. Zavattieri</i>
14:30 – 15:00	Enhancing Concrete's Resistance to ASR by Integrating Metakaolin-Carbon Nanotube Blends, <i>by P. Danoglidis</i>
15:00 – 17:00	Live Demonstrations and Seminars: - Adaptive Rheology and Electrical Properties (Hybrid Rheometer) 3D Imaging and Reconstruction of Cementitious Composites (NanoCT)
18:00	Dinner

Tuesday, July 29

Seminars on Thermo-Responsive Nanoengineered Concrete

8:00 – 8:30	Breakfast
8:30 – 10:00	Seminar: Thermo-responsive nanoengineered concrete <i>by M. Konsta-Gdoutos and P. Danoglidis</i>
9:30 – 10:30	Seminar: Nanomaterials in Concrete, <i>by K. Sobolev</i>
10:30 – 10:45 am	Coffee Break
10:45 – 12:30 pm	Live Demonstrations: Characterization of Nanomaterials Dispersions: UV-vis, DLS, FTIR, Raman and Contact Angle Meter