



DFG Research Training Group 2250

Mineral-Bonded Composites for Enhanced Structural Impact Safety

# Impact Finale: Resilience Revealed

## Scientific Symposium

26 – 27 May 2026

Dresden, Germany



## Tuesday, 26 May 2026

Beyer Building, TU Dresden

[George-Bähr-Straße 1, 01069 Dresden](#)

Time	Event	
12:30 – 13:00	Registration and Welcome Reception <i>With light refreshments</i>	
13:00 – 13:30	<b>Impact Opening</b> <i>Opening With Impact</i> <i>Unveiling of the Demonstrator</i>	Viktor Mechtcherine Spokesperson of the RTG 2250 Angela Rösen-Wolff Vice-Rector for Research, TU Dresden Birgit Beckmann Dean of the Faculty of Civil Engineering, TU Dresden Holger Eggemann German Research Foundation (DFG)
13:45	<b>Group Photo (Auditorium Area)</b>	

Transfer to the Fritz-Foerster Building

[Mommsenstraße 6, 01069 Dresden](#)

14:00 – 14:40	<b>Research Training Group 2250: A Success Story</b>  Milestones and Horizons Human Impact: The Alumni Map	Viktor Mechtcherine Cesare Signorini Iurie Curoşu Michael Kaliske Anna Pandolfi Lena Leicht
14:40 – 14:55	<b>From RTG 2250 to EXC CARE</b> The New Cluster of Excellence Leverages the Legacy of Collaborative Projects	Viktor Mechtcherine

15:00 – 17:30	<b>Scientific Session I: Material Design towards a Sustainable Future</b>	
15:00 – 15:15	Opening Talk and Moderation	Edeltraud Günther Christina Scheffler
15:15 – 15:45	Keynote Lecture	Ravi Ranade
15:45 – 16:15	Beyond Strength: Integrating Sustainability Metrics Into ML-Optimized Composite Design for Protection	Isabela de Paula Salgado Cesare Signorini
16:15 – 16:30	<b>Coffee &amp; Tea Break</b>	
16:30 – 16:45	<i>Sustainability and Resilience in Engineering (SURE):</i> Introduction to the United Nations University (UNU) Hub – Rio de Janeiro, Brazil	Flávio de Andrade Silva Edeltraud Günther Sonja Hahn-Tomer Isabela de Paula Salgado
16:45 – 17:15	Performance-Driven Circularity: Do Recycled PP Fibers Match Virgin Standards in Sustainable Mineral-Bonded Composites?	Waseem Ashraf Julia Hübner
17:15 – 17:45	Tailored Fiber and Matrix Design for Micro-crack Bridging in Mineral-Bonded Cementitious Composites	Ameer H. Ahmed Julia Hübner
19:00 –	<b>Blueprints Networking Event and Dinner</b>	

# Wednesday, 27 May 2026

Fritz-Foerster Building, TU Dresden

*Mommsenstraße 6, 01069 Dresden*

Time	Event	
8:30 – 10:15	<b>Scientific Session II: Advanced Materials Characterization, Smart Materials and Measurement Techniques</b>	
8:30 – 8:45	Opening Talk and Moderation	Hans-Gerd Maas
8:45 – 9:15	Robust Testing Methods for Scale-Linking Characterization of Materials in Dynamic Regimes	Iurie Curoşu
9:15 – 9:45	Sensing Impact Stresses with Smart Textiles and Optical Techniques	Hung Le Xuan Cesare Signorini
9:45 – 10:15	Energy Dissipation Evaluation Through Optical Fragment Tracking: From Materials to Structures	Milad Davoudkhani Nicholas Unger
10:15 – 10:45	<b>Coffee &amp; Tea Break</b>	
10:45 – 12:30	<b>Scientific Session III: Advanced Approaches for Simulation</b>	
10:45 – 11:00	Opening Talk and Moderation	Michael Kaliske Stefan Löhnert
11:00 – 11:30	Keynote Lecture	Anna Pandolfi
11:30 – 11:55	Simulation of Fiber-Reinforced Concrete Considering the Micro-Mechanical Behavior of the Fiber-Concrete Interface	Paula Poriete
11:55 – 12:20	From Meso-structure to Structural Simulations: A Homogenization and Surrogate Modeling Framework	Abhinav A. Khedkar
12:20 – 12:45	Advances in Numerical Simulation of Failure in Concrete Structures	Andres O. Navarro
12:45 – 13:30	<b>Light Lunch</b>	
13:30 – 16:30	<b>Scientific Session IV: Protective Overlays and Advanced Application Technologies</b>	
13:30 – 13:45	Opening Talk and Moderation	Birgit Beckmann Steffen Marx
13:45 – 14:15	Design Strategies for RC Construction Under Extreme Dynamic Loads: Lessons Learnt from RILEM TC 288-IEC	Marco Di Prisco
14:15 – 14:45	From Lab to Landmark: Scaling Material Innovation for Multi-Purpose Impact Retrofits	Lena Leicht Cesare Signorini
14:45 – 15:15	Deflect, Resist, Recover: Hybrid Mineral-Bonded Overlays for Blast-Resilient Structures	Franz Bracklow Petr Máca
15:15 – 15:30	<b>Coffee &amp; Tea Break</b>	
15:30 – 16:00	3D Textile Structures for Structural Protection Against Highly-Localized Impact	Juan Ortega Nicholas Unger
16:00 – 16:30	Robotic Shotcrete of Low-Carbon Fiber-Reinforced Composites with Complex Rheology: Challenges and Successful Cases	Chentaoya Hu Ghazaleh Taheri
16:30 – 17:00	<b>Symposium Closure and Farewell</b>	