



RILEM SYMPOSIUM

ALKALI-ACTIVATED CONCRETE

FROM MATERIALS BEHAVIOR TO STRUCTURAL DESIGN

DATE: MAY 13, 2025

PLACE: TU DELFT, THE NETHERLANDS



**ANNOUNCEMENT**







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As the construction industry increasingly seeks sustainable alternatives, alkali-activated concrete (AAC), including geopolymer concrete, is emerging as a promising solution to traditional cement-based concrete. Offering significant environmental benefits, such as reduced carbon emissions and improved durability (e.g., chemical and high-temperature resistance), AAC holds great potential. However, it also poses certain challenges, particularly regarding the variability and quality of raw materials, uncertainties related to long-term material and structural behavior, and the lack of standardization and design codes.

In response to these evolving needs, we are pleased to announce a one-day symposium titled “Alkali-Activated Concrete: From Materials Behavior to Structural Design.” This event, held under the auspices of the RILEM Technical Committee 294-MPA (Mechanical Properties of Alkali-Activated Materials), will take place on May 13, 2025, at TU Delft, Netherlands. The symposium will bring together leading experts, researchers, policymakers, asset owners, and practitioners from around the globe to explore AAC’s potential in advancing greener construction solutions.

### Objectives of the Symposium

This symposium aims to:

- \* Showcase the latest findings from RILEM Technical Committee 294-MPA.
- \* Examine challenges in precursor materials, AAC material behavior, and structural design.
- \* Discuss the state of standardization and certification for AAC applications.
- \* Explore AAC’s role in driving the green concrete transition.

### Program Highlights

Participants can look forward to a day packed with insightful lectures and discussions covering foundational research, practical applications, and policy perspectives on AAC. Topics will range from alternative precursors to certification standards and real-world implementation of AAC. Highlights of the program include:

- \* **Keynotes on Global Practices:** Experts will share insights into AAC applications across different regions, including China and Australia, highlighting both achievements and ongoing challenges.
- \* **Focus on Standardization and Certification:** Sessions will address the current state and future directions for AAC certification, quality control, and compliance with existing standards.
- \* **Insights from Policymakers:** A unique perspective on AAC/Geopolymer Concrete from a policymaker’s viewpoint will be provided, emphasizing support and challenges in the green transition.
- \* **Panel Discussion:** An engaging panel will discuss the future path forward for AAC and geopolymer concrete, including perspectives within the triple-helix model of innovation, involving academia, industry, and government.

### Additional Information

This symposium is part of a broader, one-week PhD training course on alkali-activated materials. Detailed information about the full training course is available on the RILEM website.

### Join Us

This is an exciting opportunity to engage with leading-edge developments in alkali-activated concrete. Join us as we explore the transformative potential of AAC in advancing the future of sustainable construction.

<https://www.tudelft.nl/citg/events-me>