UNIVERSITY OF AMSTERDAM

RESEARCH PRIORITY AREA SUSTAINABLE CHEMISTRY

Advanced sustainable materials for construction in tomorrow's world

Dr. David Behar, Technion, Israel

*Tuesday, 18 June 2019, 11am, room D**1**.110*

The lecture will present the motivation to research and develop new sustainable materials for the construction field, from buildings to bridges and more. Novel physical phenomena like magnetorheology and bimetal thermostatics bring fresh and interesting challenges for further research and applications. The field of construction plastics is being characterized with immense research efforts to replace petroleum-based materials by novel bio-based polymers, bio-degradable plastics and bio-based complex materials. Finally, I will show that recent developments give an optimistic perspective for the future.

David Behar is an artist and researcher. He holds a BSc in Chemistry from the Hebrew University of Jerusalem, MSc in Materials Chemistry from the Weizmann Institute for Research, BFA in Fine Arts - Sculpture, from Gloucester University, and a PhD in Architecture, from the Technion Institute of Technology. Behar currently heads the Mundi_Lab at the Technion Faculty of Architecture and Town Planning. His art work navigates on the borderline between sculpture and architecture, while using diverse expressive languages: drawing to video, performance to responsive environments and installation. His research deals with dilemmas of the Israel public space and novel materials for the design fields. David teaches materials applications for Industrial Design and Architecture.



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