

Area Map - Event Location (ILEK)





S-Bahn Station, "Universität"



Demonstrator-Highrise, D1244



Institute for Lightweight Structures and Conceptual Design Pfaffenwaldring 14, 70569 Stuttgart, Germany



CRC 1244 SYMPOSIUM - ADAPTIVE SKINS AND STRUCTURES

25.11.2024 14:00 - 20:30

Opening (ILEK)

14:00 Arrival

14:30 - **CRC 1244 Presentation** 15:00 Prof. Oliver Sawodny

Prof. Lucio Blandini

15:15 Visit of D1244

16:45 Coffee Break (ILEK)

Opening Keynotes (ILEK)

17:30 James Carpenter

18:00 Gustav Düsing

18:30 Discussion

19:00 Get Together (ILEK)

26.11.2024 09:30 - 18:00

09:30 Registration (ILEK)

STRUCTUREs

09:50	Adaptive Structures	Prof. Manfred Bischoff		
09.50	Adaptive Structures	FIOI. Mailifed discitori		
10:10	Design Synthesis of High- performance Structure- actuator Systems	Dr. Gennaro Senatore Dr. Arka Reksowardojo		
10:30	Computational Design and Analysis Methods for Adaptive Structures	Mathias Maierhofer and Lisa-Marie Krauß		
10:50	Integrated Fluidic Actuators	Markus Nitzlader and Matthias Bosch		
11:10	The Adaptive Ribbed Slab S1244	Dr. Gennaro Senatore Prof. Matthias Kreimeyer		
Invited Speaker				
11:30	Recent Developments in the Design of Long Span Bridges for Railway Crossing	Prof. Fabio Casciati University of Pavia		
12:00	Lunch (ILEK)			

SPACEs and SKINs

13:00	Adaptive Architecture	Prof. Mona Mahall Bauhaus University, Weimar Prof. Martin Ostermann
13:20	HydroSKIN: Facade-integrated Rainwater Harvesting and Evaporative Cooling	Dr. Walter Haase and Dr. Christina Eisenbarth
13:40	InterSPACE: Transboundaries in Architecture	Hisham El-Hitami
13:55	KineticSKIN: Dual-Wing Facade for Solar Harnessing and User Controlled Daylighting	JunProf. Maria Matheou and Moon Young Jeong
14:15	CoolSKIN: Development of a Novel Facade-Integrated	Dr. Micha Schäfer

Invited Speakers

14:30	Challenges and Solutions for	Prof. Ulrich Knaack
	Facades of the Future	Dr. Alessandra Navarro
		Prof. Michael Kraus
		(TU Delft, TU Darmstadt)

15:00 Coffee Break (ILEK)

CONTROL + OPERATION

Invited Speaker			
15:30	Optimal Control of Concrete Hardening Process with Reduced Order Models	Prof. Thomas Meurer, KIT	
16:00	Control of Adaptive Structures	Dr. Spasena Dakova	
16:15	Fault Diagnosis of Adaptive Structures	Jonas Stiefelmaier	
16:30	Visual Monitoring and Analysis of Adaptive Structures (and Skins)	Michael Becher	
16:45	ThermoSPACE: Design and Control of a Carbon-neutral Heat Storage System	Anja Rentz and Dr.Marc Linder	
17:00	Control of Adaptive Facades	Melanie Gschweng	
17:15	Lifecycle Engineering of Adaptive Skins and Structures	David Borschewski	

Closing Keynote

17:30 Prof. Werner Sobek







Solar Cooling System