

PowerSkin Conference

January 19th, 2017

Program										
ICM	Environment Session Chairman Prof. Dipl.-Ing. Thomas Auer Saal 2			Facade Design Session Chairman Prof. Dr.-Ing. Ulrich Knaack Saal 5			Facade Engineering Session Chairman Prof. Dr.-Ing. Jens Schneider Saal 3			
	time	topic	speaker	company/university	topic	speaker	company/university	topic	speaker	company/university
	09:00 - 09:15				Welcome	Prof. Dipl.-Ing. Thomas Auer, Prof. Dr.-Ing. Ulrich Knaack, Prof. Dr.-Ing. Jens Schneider	TU Munich, TU Delft, TU Darmstadt			
09:15 - 10:00				Key Note	Prof. Achim Menges	University of Stuttgart				
10:00 - 10:30	Coffee Break									
10:30 - 10:50	Designing facades for carbon neutral buildings	Prof. Dr.-Ing. Winfried Heusler	Schüco	Research and Development of innovative materials at the convergence of Art, Architecture and New Technologies	Univ.-Prof. Heike Klusmann	University of Kassel	A zero-energy refurbishment solution for residential apartment buildings by applying an integrated, prefabricated façade module	Dr.-Ing. Thaleia Konstantinou	TU Delft	
10:50 - 11:10	Building Envelope as Heat Generator: The impact of Water-filled ETFE Cushion on Energy saving and Comfort	Abolfazl Ganji	Transsolar	Retrofit of a "Brutalist" office building from '70 in Rome	Junior Prof. Dr. Alberto Raimondi	Roma Tre University	Timber Prototype - High-performance solid timber construction	Oliver Bucklin Hans Drexler, Dipl. Arch. ETH	University of Stuttgart, Jade Hochschule	
11:10 - 11:30	Anaerobic domestic waste water treatment coupled to a bioreactor facade for the production of biogas, heat and biomass	Martin Kerner, Managing Director	SSC GmbH	Variable Façade: method to apply a dynamic façade solution in Santiago, Chile	Prof. Dr. Claudio Vásquez, Prof. Renato D'Alençon	Pontifical Catholic University of Chile	Architecture Fully Fashioned - Foamed spacer fabrics for textile building skins	Prof. Dipl.-Ing. Claudia Lüling	Frankfurt UAS	
11:30 - 11:50	Free-Form 2.0 Building prefabricated segmented concrete free-form Shells	Martin Dembski, M.Sc.	HTWK Leipzig	Integration of technology components in open cladding systems	Dr.-Ing. Arch. Philipp Molter	TU Munich	Solar Concentrating Façade	Mohamed Ezzahiri, M.Sc. Badia Nasif	Fasolar, De Groot & Visser	
11:50 - 12:10	Machine code functions in BIM for cost-effective high-quality buildings	Dr.-Ing. Christoph Maurer	Fraunhofer ISE	Multi-active façade for Swedish multi-family homes renovation: Evaluating the potentials of passive design measures	Susanne Gosztanyi	Lund University	Viability study of Solar Chimneys in Germany: Analysis and Building Simulation	Lukas Schwan, M.Sc.	Munich UAS	
12:10 - 12:30	Thermal and Energy Performance of Double Skin Facades in Different Climate Types	Ajla Aksamija, PhD	University of Massachusetts Amherst	Light-transmitting energy-harvesting systems. Review of selected case-studies	Marcin Brzezicki, PhD	Wroclaw University of Technology	Hybridization of solar thermal systems into architectural envelopes	Beñat Arregi	Tecnalia	
12:30 - 13:30	Lunch Break									
13:30 - 13:50	An investigation on microclimate and thermal performance of the buildings, with consideration of façade material and street Vegetation	Ata Chokhachian, M.Sc. Arch.	TU Munich	Silicones Enabling Crystal Clear Connections	Valerie Hayez	Dow Corning	Solar façades - Main barriers for widespread façade integration of solar technologies	Alejandro Prieto	TU Delft	
13:50 - 14:10	An investigation on the relation between outdoor comfort and people's mobility: the Elytra Filament Pavilion survey	Dipl.-Ing. Arch. Daniele Santucci, M.Sc.	TU Munich	GFRP reinforcement and anchorage concepts for filigree Energy-Efficient Façades made of UHPC	Milan Schultz-Cornelius, M.Sc.	TU Kaiserslautern	Photovoltaics in Building Skins: Structural Requirements and Environmental Life-Cycle Benefits	Dr.-Ing. Claudia Hemmerle	TU Munich ZNB	
14:10 - 14:30	Updated urban facade design	Prof. Dr.-Ing. Holger Techen	Frankfurt UAS	Thermal optimization of curtain wall façade by application of aerogel technology	Valerie Hayez	Dow Corning	Infra-Lightweight Concrete – a monolithic building skin	Dipl.-Ing. Dipl.-Wirt. Ing. Claudia Lösch	TU Berlin	
14:30 - 14:50	A modular climate adaptive multifunctional facade for the retrofit of shopping centers	Riccardo Pinotti	Free University of Bolzano	Fixed sun shade device for overhead glazing	Dipl.-Ing. Arch. Daniel Kleineher, M.Eng.	kleineher+partner	Load - responsive structural skin systems with Additive Manufacturing	Roberto Naboni, Architect	Polytechnic University of Milan	
14:50 - 15:10	Field monitoring in Mediterranean climate to quantify thermal performances of vertical greening systems	Dr. Arch. Katia Perini	University of Genoa	Subdivided switchable sun protection glazing	Mgr Inz. Arch. Marzena Husser	University of Stuttgart	3d-Printed Low-Tech Future Facade	Dipl.-Ing. Arch. Moritz Mungenast	TU Munich	
15:10 - 15:30	benefit E2 - building integrated solar active strategies	Prof. Christoph Kuhn, Dr.-Ing. Steffen Wurzbacher, Dipl.-Ing. Christoph Drebes, M.Sc.	TU Darmstadt				Convective Concrete: Additive Manufacturing to facilitate activation of thermal mass	Dennis de Witte, M.Sc.	TU Delft	
15:30 - 16:00	Coffee Break									
16:00 - 16:30				The American View	Prof. Dr. Stephen Selkowitz	LBNL				
16:30 - 17:00				Outro	Prof. Dipl.-Ing. Thomas Auer	TU Munich				

Session I

Session II