

13th Conference on Advanced Building Skins 1-2 October 2018, Bern, Switzerland

10:00	Opening: Andreas Hempel, International Academy of Architects; former President of the Association of German Architects							
10:10	Keynote: Name of the speaker to be announced shortly							
A1 10:45	Forensic Engineering and Architecture: Investigations of Building Skin Failures	B1 10:45	Biomimetics for Energy Efficient Building Envelopes	C1 10:45	Public Policies and Funding	D1 10:45	Optimierung der Gebäudehülle mit nachhaltigen Fassaden	
Understanding building skins through failures: Trends in failure mechanisms and their costs Lee Dunham and David Bates, OAC Services, Inc., United States		Biomimicry: A source for advanced building skin design Thomas Button, Passero Associates, Rochester, USA Environmental adaptation of buildings through		Funding of home-ownership for low-income demographics Jörg Rügemer, University of Utah, Salt Lake City, United States		Nachhaltige Fassadensysteme für Nullenergiegebäude Christoph Deimel, Deimel Oelschläger Architekten, Berlin, Deutschland		
Stucco/wood skin investigation and repairs Brett Newkirk, Alta Engineering, United States		Lidia Badarnah, University of Cardiff, United Kingdom Passive kinetic system for a responsive envelope		Public research and technological innovation in building envelopes Martino Milardi, Università deali Studi Mediterranea		Gebäudehülle eines Bürogebäudes Stefan van Velsen, 3-Plan Haustechnik AG, Schweiz		
Low-rise skin investigation and repairs - Case Study Rick Slider, Slider Engineering, United States		inspired by actuation systems in plants Natasha Chayaamor-Heil, ENSAPLV, Paris, France Nelson Montas Laracuente, Pontificia Universidad		di Reggio Calabria, Italy Brief presentations		Intelligente Fassaden Stefan Rappold, Behnisch Architekten, Stuttgart		
Hospital building skin investigation and repairs Robert Bitterli, Ivy Group Consultants, United States		Católico Fibrous	n, Dominican Republic	Research, application and policy for organic insulation material for buildings in China		Gewerl System Michae	keübergreifende Fassadenvorfertigung im Holz- nbau el Kamenik, Cree GmbH, Österreich	
Service life prediction models to predict building skin failures		Moritz Dörstelmann, Fibr GmbH, Germany		Na Zhang, Chinese Academy of Sciences, Beijing, China		Alexan	der Hilbe, Rhomberg Bau GmbH, Österreich	
Christopher White, National Institute of Standards and Technology, United States		Social v of build Anders	vasps' nests as source of bio-inspiration in design ling skins Ohlsson, Umeå University, Sweden			BIM-M somme Moritz	lethode zur Fassadenoptimierung im Kontext des erlichen Wärmeschutzes Zwahlen, Gruner Roschi AG, Schweiz	
Corrosion of structural elements such as lintels and shelf angles in masonry buildings Amir Amirzadeh, University of Illinois at Urbana- Champaian. United States		A taxor buildin Estelle	nomy of biological envelopes to design adaptive g skins Cruz, MECADEV, MNHN, Paris, France			Abluftf vollver Michae	fassade für sommerlichen Wärmeschutz im glasten Hochhaus 21 Wengert, Pfeil & Koch Ingenieurgesellschaft	

A2 Parametric Design and Digital Fabrication 14:00	B2 14:00	Eco-materials for the Building Skin	C2 14:00	Models, Policies and Products for Building Retrofit	D2 14:00	Natural Ventilation and Thermal Behavior of the Building Envelope
 Parametric design of a sustainable office tower in Milan Gregg Jones, Pelli Clarke Pelli Architects, United States Loop, feedback, iterate: collaboration and modeling in advanced façade design Kenn Clausen, 3XN architects GXN innovation, Copenhagen, Denmark Computational approaches to discrete continuities for supertall skyscrapers Daniel Inocente, Skidmore, Owings & Merrill, New York, United States Uncanny enclosures: Parametric façade designs Robert Perry, Gensler, San Francisco, United States Optioneering - Designing the building envelope Stefano Rossi, Maffeis Engineering, Zürich, Switzerland Scan and make: how digital technologies can accelerate and improve overcladding Todd Grice, Arup, London, United Kingdom Brief presentations Parametrics as a conduit for integrated façade design Yun Hsueh, Gensler, Shanghai, China Computational interpretation from initial form to curtain wall design Cong Ye, Skidmore, Owings & Merrill LLP, New York, United States A digital tool to support prefabricated façade design Jacopo Montali, University of Cambridge, United Kingdom Modeling complex fenestration systems for generative design systems Luis Santos, UC Berkeley, United States 	Earthen hot we Robert Breath Paco M Univers Produc Oriol Po Buildin Mike Lo Wood : Xaver E Germal Brief pi Recycle panels Raúl Br Proper Katrin S Nether. Bio-bas reinfor Arsenic Fire sal system Clemen	n building materials re-appropriated for use in t climates Holton, Louisiana State University, United States ing façades for CO2 capturers for building selejias Villatoro, Xi'an Jiaotong-Liverpool sity, Suzhou, China ing solar control devices from waste materials ons, UPC, Barcelona, Spain g envelope with low environmental impact awrence, University of Bath, United Kingdom as eco-material for the building skin fgger, Bochum University of Applied Sciences, ny resentations ed industrial waste for sustainable façade iones Llorente, Universidad de Burgos, Spain ties of straw bale blocks for wall construction Schollbach, Eindhoven University of Technology, lands sed recyclable, reshapable, repairable fiber- ced composites for window profiles o Navarro, AIMPLAS, Paterna, Spain fety of prefabricated timber-framed façade s on high-rise buildings is Le Levé, University of Innsbruck, Austria	Stakeh energy Georgi Sweden Ruedig Roof-tt decisio Stépha Olivier Econor renova Roman Evalua renova Brijesh Modul techno Verena Germa Brief p Prefab renova Targo I Estonic	olders' perceptions for participation in deep renovation os Pardalis, Linnaeus University, Växjö, of ced business models for deep energy retrofit er Lohse, EnEFF KEA, Linkenheim , Germany op extensions: Business models and tools for n-making ne Herbin, CTICM, Saint Aubin, France Dupont, CTMNC, Paris, France nic opportunities and challenges for building tion with pre-fabricated elements Bolliger, econcept, Zürich, Switzerland ting market models for deep-energy tion using SWOT and PEST Analysis Mainali, Linnaeus University, Växjö, Sweden ar façade system with integrated equipment logy for energetic retrofitting Dannapfel, RWTH Aachen University, ny resentations ricated wooden modular elements for nZEB tion Calamees, Tallinn University of Technology,	Historic houses Theodo Natural philoso Jill Barn States Air flow strateg Corey S States Historic Jason H Effectiv hot and Thail an A mode Rebecc United Buildin ventilat Timoth United Brief pr Control windov Leonie S Wind-C sustain Arash Z United Recons from th Wolfga	cally sustainable: natural ventilation in connecticut of the 1800s we Sawruk, University of Hartford, United States I ventilation versus air conditioning considered ophically abury, University of Louisiana at Lafayette, United v and the evolution of a subtropical passive house y aft, University of Louisiana at Lafayette, United cally proven - Sustainably updated Regenauer, University of Hartford, United States reness of stack ventilation in a two-story house in thumid climate Chindavanig, Chulalongkorn University, Bangkok, d el for renewable energy and building ventilation ah Tuscano-Moss, Westminster School, Simsbury, States g simulation to investigate the effect of natural tion in sustainable buildings y O. Adekunle, University of Hartford, West Hartford, States resentations I strategies for natural ventilation through louvered vs Scheuring, Technische Universität Dresden, Germany Catcher simulation analysis for natural ventilation ir able building design Carmehr, University of Central Florida, Orlando, States truction of the use of space of historical buildings te thermal analysis of the building façade ng Stumpf, Danube University Krems, Austria nance evaluation of façade systems through g simulation Diker, Istanbul Technical University, Turkey
15:30		Coffe	e Break			

A3 Additive Manufacturing and 3D Print of the 16:00 Building Skin	B3 Green Walls and Roofs 16:00	C3 Retrofitting the Building Envelope 16:00	D3 Active Façades for Ventilation, Heating and 16:00 Cooling				
 3D print of the building skin with fiber reinforced concrete, cast, plaster, brick dust Javier Alonso Madrid, Atanga, Spain Re-fabrication of knitted textiles and its architectural potential Annie Shaw, Manchester School of Art, United Kingdom Desert tectonics Giulia Grassi, Politecnico di Milano, Italy Parametric modeling, rapid prototyping and 3D printing of an interactive façade Abudaya Amal, Ministere de la Culture , Grenoble, France Water-driven breathing skin Angelos Chronis, Institute of Advanced Architecture of Catalonia, Barcelona, Spain Brief presentations Performance of building envelopes with 3D/4D printed bio-reactive materials Olga Beatrice Carcassi, 120g, Pisa, Italy 	 Infill green wall as a heat sink for indoor thermal comfort Yun-Shang Chiou, Taiwan University of Science and Technology, Taiwan Green façade and air quality - Measurements and kinetic study H.J.H. Brouwers, Eindhoven University of Technology, Netherlands Environmental benefits of building integrated aquaponic double-skinned systems Andrew Jenkins, Queen's University Belfast, United Kingdom Green roofs for cooling in different climates Pablo La Roche, Callison RTKL, Los Angeles, United States Rainwater collection and evaporation/transpiration of living wall systems P.M.F. van de Wouw, Eindhoven University of Technology, Netherlands Brief presentations Low-tech building with green walls - Warehouse Gradischegg, Austria Gilbert Sommer, University of Innsbruck, Austria 	Retrofitting the building envelope of SME industrial buildings: Risk analysis Barbara Joseph, KU Leuven, Ghent, BelgiumThermal rehabilitation scenarios for Terrassenhaussiedlung, Graz, Austria Alexander Eberl, Graz University of Technology, AustriaEnergy-saving potential using adaptive building envelopes for building refurbishment Daniel Schwermann, University of Stuttgart, GermanyTransformative modernization: Lessons learned from a renovation of a 1929 university building David Cook, Grimshaw, New York, United StatesRetrofitting the building envelope for enhanced seismic resistance and energy efficiency Dionysios Bournas, Joint Research Centre, European Commission, Ispra, ItalyIntegrated smart envelope module for high-rise 	 Heating with a PV Façade in a Passive House Georgios Dermentzis, University of Innsbruck, Austria Active roofs and façades technologies Jakob Klint, Kuben Management, Copenhagen, Denmark Advanced daylighting systems and combined lighting and thermal simulation David Geisler-Moroder, Bartenbach GmbH, Austria Solar thermal façade systems – An interdisciplinary approach Paul Denz, Priedemann Façade-Lab, Berlin, Germany Christoph Maurer, Fraunhofer Institute for Solar Energy Systems, Freiburg, Germany Heating with façade-integrated heat pumps Fabian Ochs, University of Innsbruck, Austria 				
7:30 End of Conference Day 1							

Conference Day 2 – 2nd October 2018

A4 The Impact of Climate Change on Building 8:30 Envelope Design	B4 Kinetic Architecture 8:30	C4 Integrating Solar Technologies into the 8:30 Building Envelope	D4 Performance of the Building Envelope 8:30	
Climate change and its influence on glazed curtain wall design Daniel Arztmann, Schüco International KG, Bielefeld, Germany Urban climate - Impact on energy consumption and	Cladding wind loads on a novel kinetic sunshade structure Joseph Symes, RWDI, Milton Keynes, United Kingdom Dynamic architectural system to improve air quality and reduce energy consumption	Innovative construction technologies for the EXPO 2017 in Astana, Kazakhstan Thomas Winterstetter, Werner Sobek, Stuttgart, Germany Best practices for the architectural design of BIPV	Re-positioning for Passivhaus: High-rise office applications in urban areas Michael Pulaski, Thornton Tomasetti, Portland, United States Interdisciplinary energy studies conducted on multilayer	
thermal comfort of buildings Urs Grossenbacher, INES Energieplanung GmbH, Bern, Switzerland	Ahu Aydogan, Frank Melendez, City College of New York, United States	Dominique Deramaix, Bureau d'Architectes Format D2, Belgium	Aulikki Sonntag, Drees & Sommer Schweiz AG, Basel, Switzerland	
Building for the future: Climate change scenarios and their impact on building concepts Petra Liedl, UT Austin, United States	An affective kinematic building façade system: Mood Swing Joseph Kider, University of Central Florida, United States	system for retrofitting residential high-rise buildings Andrea Schneider, Fraunhofer IEE, Kassel, Germany	Coupling whole building air leakage rate and thermal insulation to optimize energy performance Joyce Mak, JRS Engineering, Seattle, United States	
Energy efficient geometries and their inherent complexities Matthew Fineout. Smart Architecture. Pittsburah.	Impact of kinetic shading elements on noise levels in street canyons Monika Rychtarikova. KU Leuven. Gent. Belaium	Comparison between PV integration on roofs and façades Siu-Kit Lau, National University of Singapore	 Wind-induced noise on high-rise buildings Daniel Urban, STU Bratislava, Slovakia Do energy-efficient buildings save energy from a net cumulative energy perspective? Rahman Azari, Illinois Institute of Technology, Chicago, United States Brief presentations on Thermal and Acoustic Performance of Windows Air permeability and sound insulation of windows in historical buildings Christoph Geyer, BFH, Biel, Switzerland 	
United States A 500,000m2 form-found, lightweight, long-span roof system	Brief presentations on Solar Shading Systems for Enhanced Daylight Control	Degrees of freedom in solar façade design Jochen Weick, Avancis, Germany Peter Kuczia, Architect, Germany		
Zak Kostura, Kateri Knapp, Arup, New York, United States	Daylight and shading performance of an architectural screen Asimina Chatzimanoli, arKEYtecture office,	Brief presentations Development of BIPV courseware for students and professionals Wilfried van Sark, Utrecht University, Netherlands Customized, aesthetically appealing PV modules at		
Brief presentations Early-stage environmental modeling: Tools and strategies for climate-based design	Thessaloniki, Greece Parametric shading device for office buildings in hot-humid climatic regions			
Barbara Gherri, Università di Parma, Italy	Basak Kundakci Koyunbaba, Yasar University, Izmir, Turkey	reasonable price for the BIPV mass market Nils Neugebohrn, DLR Institute of Networked Energy Systems, Germany	Acoustic metamaterial for window systems to reduce environmental noise Fanyu Meng, Eindhoven University of Technology, Netherlands	
	Combining solar control technologies for optimal performance Wim Stevels, Eastman Chemical, Gent, Belgium	Simulation and evaluation of design options for BIPV Huixuan Sun, Solar Energy Research Institute of Singapore Where can one billion PV modules be installed in Germany?	Room-side low emissive sputtered coatings to reduce thermal discomfort of windows Anna Castaldo, ENEA, Portici, Italy Improving the thermal performance for window and curtain wall framing Todd Frederick, FreMarq Innovations, Merrill, United States	
	Jin Young Song, University of Buffalo, United States			
	System Maria Matheou, University of Cyprus, Nicosia, Cyprus	Systems, Germany	Gluing glass into windows frames for improved performance Flavien Sauser, Bern University of Applied Sciences, Biel, Switzerland	
			Environmental conditions in the zone adjoining the windows inside office buildings Maria Kikira, University College London, United Kingdom	

A5 10:45	Double Skin and Cavity Façades to Reduce Building Energy Consumption	B5 10:45	Responsive and Adaptive Building Skins	C5 10:45	New Technologies and Products in BIPV	D5 10:45	Models, Tools and Simulations for Sustainable Buildings	
The clo Valent Switze	osed cavity façade - a new trend? in Balog, Drees & Sommer Schweiz AG, Basel, rland	Adapti efficier John Ce	ve façade to improve a building's energy ney and economics: Aro Tower, New York etra, CetraRuddy Architecture, New York, Statec	Innova Hanna Germa	tive design solutions for BIPV h Bürckstümmer, Merck KGaA, Darmstadt, ny	How to comfor Marc B	o optimize heating and cooling loads, CO2 savings and rt gain Bosmans, Eurima, Brussels, Belgium	
Reduci therma Tom M States	ing building energy consumption: Combating al bridging by heating cavity walls litchell, Ernest Maier, Washington D.C., United	Manan York, U	Raval, BuroHappold Engineering, New Inited States	Façade energy Olav Lo Denmo	e with integrated heating, ventilation and production angenkamp, VIA University College, Aarhus, rk	Design Sergey States	ing a solar shading system for a Curtain Wall façade Akhpatelov, NWL Architects PC, Salt Lake City, United	
Therm of high	al performance of double skin façade systems I-rise buildings	Evaluation through scenario planning Charlotte Cambier, Vrije Universiteit Brussel, Belgium		Efficier Tilman	Efficient colored BIPV modules with anti-glare coating Tilmann Kuhn, Fraunhofer Institute for Solar Energy		Artificial intelligence for computationally driven building envelopes Mark Cichy, DIALOG, Toronto, Canada	
Lightw phase	eight intelligent trombe wall façade using change material	Machii cooling Alethei	ne learning for a gel-based evaporative- s membrane system prototype a Ida, University of Arizona, Tucson, United	Lightw BIPV a	is, Germany eight transparent composite technology for rchitectural solutions	Model i Edmun	ing of high-performance façades d Meyer, Stellenbosch University, South Africa	
Brian G	Griffith, Integral Group, Seattle, United States	States Façade	s of hospital buildings: Identifying	Jose M Spain	ari Vega de Seoane, Tecnalia R&I, San Sebastian,	Indicat buildin Phil Jor	ions of glazing design to reduce downdraft in office Igs nes, Cardiff University, United Kingdom	
Urs We	ecovery using an active double skin façade	Klaus S Germa	nai requirements and design specifications edlbauer, Technical University Munich, ny	utilizin Kai Gel Germa	g optical properties of nano-absorber PV hrke, DLR Institute of Networked Energy Systems, ny	Buildin energy Benede	ng guidelines to provide as-designed solutions for -efficient envelopes etta Marradi, University of Pisa, Italy	
Bharat United	Patel, Harley Ellis Devereaux, Los Angeles, States	Auxeti contro Yun Yi,	c materials in advanced adaptive daylight systems University of Illinois, Urbana-Champaign,	Brief p	resentations	Therma design	al tuning of envelopes and its use as a parametric tool	
Develo Willi Ri Germa	opment of a flexible unitised façade ichard Brombacher, WRBI, Nuremberg, ny	United Shadin	States g control of an adaptable ventilation mode	Transp concen Daniele	arent PV panels based on luminescent solar Itrators for more efficient buildings e Testa, Eni SpA, Novara, Italy	Jose M United	anuel Montes Donaire, AKT II Envelopes, London, Kingdom recentations	
Brief p Evalua	resentations tion of two closed cavity facade systems	Adrieni Self-ad	aptive building skin enabled via pressure-	Solar a Archite Sief De	ctive building envelope: Industrialization meets ecture Bruijn, Ernst Schweizer AG, Switzerland	DIAL+ :	: A simulation tool dedicated to the new European hting standard	
Haico S	Schepers, Arup, Sydney, Australia	regula t Hongyt United	ed metamaterials I Zhou, University of Alabama, Huntsville, States	Façade	e-integrated PVT with radiant cooling panels for sed energy and space efficiency	Bernard	d Paule, Estia SA, Lausanne, Switzerland ical model for solar buildings with PCM-enhanced	
office I system Kyungj	buildings with blind in-built retrofit window 15 ioo Cho, Korea Institute of Civil Engineering uilding Technology, South Korea	Brief p	resentations	Mohan Energy	nad Bayoumi, KAU, Jeddah, Saudi Arabia generating façade with variable heat transition	envelo António	pes o Samagaio, University of Aveiro, Portugal temperature and the thermal behavior of BIPV	
Geome tropica	etric solutions for double-skin façade in al weather	façade perfori Erhan I	design based on environmental nance Karakoç, Kültür University, İstanbul, Turkey	Suna Se	reger, reennisene oniversitet bresteri, dermany	envelo Peter N Slovaki	pes Aatiasovsky, Slovak Academy of Sciences, Bratislava, ia	
Thiago Curtain inside	o Goes, UnB, Brasilia, Brazil n wall stick system for installation from the without caulking					Config Waldo Santiag	uration of glazed façades during early design stages Bustamante, Pontificia Universidad Catolica de Chile, go, Chile	
Eric Clo	aeys, Lesos Engineering, Zandhoven, Belgium					Generi Sepehr	c energy model for agricultural greenhouses Foroushani, Simon Fraser University, Surrey, Canada	

A6 14:00	Advanced Building Skin Design	B6 14:00	Aerogel Insulation Materials for the Building Envelope	C6 14:00	Optimizing BIPV Design: Models, Tests and Simulation	D6 14:00	Dynamic Glazing for Sustainable Building Skins							
Demystifying high-performing building enclosures Mark Lee and Anne Schwab, GBBN Architects, Cincinnati, United States		Miscellaneous aerogel systems for application in building envelopes Bjorn Petter Jelle, SINTEF & NTNU, Norway		BIPV curtain wall model for building energy simulations Juliana Gonçalves, KU Leuven/Energyville, Belgium		Fluid flow glazing façades – Potential for the building envelope Daniel Pfanner, Frankfurt University of Applied Sciences,								
Advanced façade engineering for high-rise buildings and free-form cold-bent façades Benjamin Beer, Meinhardt Façade Technology, Dubai United Arab Emisters		Interior aerogel-based coating for energy retrofit Stefano Fantucci, Politecnico di Torino, Italy		Shading dayligh Emanue	Shading device with extensible louvres for BIPV and daylight control Emanuele Piccoli, Politecnico di Milano, Italy		Performance appraisal of liquid crystal glazing David Barker, Elementa Consulting, London, United Kingdom							
Dubal, United Arab Emirates Optimized design and control of cost-effective climate façades for high-rise buildings Leo Bakker, TNO, Delft, Netherlands Merging aesthetics and energy performance David Frey, Woods Bagot Architects, San Francisco, United States An integrated design approach of high-performance façades Giovanni Betti, Henn Architekten GmbH, Berlin,		Porous materials Michael O'Connor, AdvaPor, Strasbourg, France Aerobrick: an aerogel-filled insulating brick Jannis Wernery, Empa, Switzerland Experimental and numerical study on the performance of various filled hollow bricks Marina Stipetic, University of Stuttgart, Germany Aerogel manufacturing scalability for the construction sector		Decorated BIPV modules: Cost and power loss analysis Christoph Kutter, Fraunhofer Institute for Solar Energy Systems, Freiburg, Germany BIM-based approach for solar building envelope design Pierluigi Bonomo, SUPSI, Switzerland BIM-based design and simulation of BIPV systems Philippe Alamy, CADCAMation, Switzerland		Dynamic glass with liquid crystal windows Martin Zitto, Merck KGaA, Darmstadt, GermanyImproving building performance through the use of dynamic façade technology Ben Abel, Hilson Moran, London, United Kingdom Eloïse Sok, Saint-Gobain, Courbevoie, FrancePerformance of a whole-building electrochromic window retrofit in a commercial office building Christopher Meek, University of Washington, Seattle, United States								
								Germany Skin design for absorbing and reusing rainwater Anders Nergin School of the Arts Institute of		Jorge Corker, Instituto Pedro Nunes, Portugal Thermal performances of an innovative superinsulating material based on silica aerogel	Brief pr BIPV as interop	resentations s a multifunctional building component and the perability of BIM	Glass f Jochen	açade elements with inner circulating fluids Stopper, Technische Universität München, Germany
								Chicag	o, United States	Kévin Nocentini, Mines Paristech, Sophia Antipolis, France	Luisa Co Impact	of partial shading on the energy yield of	Brief p Envelo	resentations on Glass for Advanced Building pes
		Brief presentations on New Materials for the Building Skin		façade- Konstar	integrated PV ntinos Spiliotis, KU Leuven/EnergyVille, Belgium porformanco of a multi functional facado	Modeli dayligh Boštjar	ing 6-pane transparent façade system to optimize at and thermal performance a Černe, Trimo, Slovenia							
		façade: Werner	site anchors to reduce thermal bridges in s r Venter, Schöck Bauteile GmbH, Germany	system Paola G	Gallo, University of Florence, Italy	Design Vincent	principles of suspended glass façades zo Di Naso, University of Florence, Italy							
		Fabric materiality FRP for articulated and varied façadesArielle Blonder, Technion Institute of Technology, Haifa, IsraelInterior sun protection for thermal energy production Thomas Friedrich, Innogration GmbH, GermanyAdvanced composites panels for innovative		Design system Jakub C	Design strategies of PCM integration in BIPV façade systems Jakub Curpek, Slovak University of Technology in		t status of vacuum insulating glazing technology ocer, University of Sydney, Australia							
				Integra design	iva, Siovakia ted approach for BIPV optimization in early phase	large-sized glass p Raul Corrales, Biff	ized façade conception for a villa with special and ized glass panels prrales, Biff SA, Lausanne, Switzerland							
				Jennifer Adami, EURAC Research, Bolzano, Italy		Therma analyse Luciane	al shock in glasses: The role of building physics es o Laffranchini, Ai Engineering, Turin, Italy							
		rooting Susana Portuge	; solutions Patrícia Bastos de Sousa, INEGI, Porto, al			Impact Will Ste Kingdo	of viewing angle on roller wave image distortion evens, Interface Façade Engineering, London, United m							
15:30			Coffee	Break										

A7 Design Methods for Sustainable, High- 16:00 performance Building Façades	B7 New Forms of Concrete for Advanced 16:00 Building Envelopes	C7Façade Integrated Day- and LED-Lighting Based16:00on Micro-Optical Components	D7 Architectural Membranes for High- 16:00 performance Building Skins
Façade design of the first triple-certified green building in China Stephen Katz, Gensler, Chicago, United States	Ultra-high performance fiber-reinforced concrete for the façade of the Qatar National Museum Philippe Menétrey, Ingphi SA, Lausanne, Switzerland	Architectural integration concepts Matthias Kraemer, SSP AG, Germany	Coating of ETFE – Solar shading for architectural applications Carl Maywald, Vector Foiltec GmbH, Bremen, Germany
Structural design concept for sustainable building envelopes Vincenzo Di Naso, University of Florence, Italy	Façades made of concrete – new technologies and concepts Florian Mähl, osd, Frankfurt, Germany	Optical microstructures for daylight redirection and efficient LED-based planar light guides Michael Jakubowsky, RIF e.V., Dortmund, Germany	Double-skin façade with ETFE membrane for energy saving and acoustic protection Petr Franta, Petr Franta Architects, Prague, Czech
Thermal skin design for extreme cold climate Joe Ferraro, Ferraro Choi & Associates, United States	High-performance low-mass concrete masonry walls Francisco Gomes. The University of Texas at Austin.	Production technology of façade integrated optical films and panels Mike Bülters, Temicon GmbH, Germany	Republic Fluoropolymer films for building applications Sebastian Zehentmaier. Dyneon GmbH. Germany
The façade: Facial diversity Till Schneider, schneider+schumacher, Germany	United States Sustainable building design using eco-friendly Bio-	Controlled light distribution by large-scale micro- structured plastic sheets M Hof, Jungbecker GmbH, Germany	EPS composites for ultra lightweight long-span structures
Digital workflows for specialty Curtain Wall Systems Kais Al-Rawi, Walter P Moore, Los Angeles, USA	cement Chung Min Lee, Ewha Woman's University, Seoul, South Korea	LED engines for large area light sources and their integration into façade systems	Shinya Okuda, National University of Singapore New ETFE film technologies for architectural
Sustainable building skins for coastal environments Robert Holton, Louisiana State University, United States	Building with infra-lightweight concrete: Betonoase, Berlin Bernhard Popp, Gruber+Popp Architekten, Berlin,	A construction kit for façade integration and integrated use with electric lighting	Andreas Freutsmiedl, Nowofol GmbH & Co KG, Germany Brief presentations
Brief presentations Recommendations for wind loads on roof structures	Germany	Helmut Müller, Green Building R&D GmbH, Germany Lab measurements and field testing of integrated systems	Dynamic regenerative integrated polymeric skins design Aletheia Ida, University of Arizona, Tucson, United States
in the Chinese professional standard Qingshan Yang, Chongqing University, China	End of th	Jan de Boer, Fraunhofer Institute for Building Physics, Germany	

The conference will be held in English. Session D1 will be held in German.

Registration

The registration fee is €680 and includes lunches and the conference documentation including full manuscripts of the presentations. "Early Birds" who register by 30 June, will receive a 20% discount (€540). Registration at: <u>https://abs.green/registration</u>.

Conference venue

Conference Center Kursaal Kornhausstr. 3 CH-3000 Bern Switzerland

Organizer

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