

<b>10:00 Arena</b> Opening: Stefan Winter, Chair of Timber Construction and Structural Design, Technical University Munich											
<b>10:10</b> Keynote presentation: Kevin P Flanagan, Partner PLP Architecture, London, UK Beyond Engineered Timber Feasibility: Externally braced timber high rise design											
<b>10:45 A1 Bellavista 5</b>	<b>Parametric Design and Digital Fabrication</b> Chair: Ezio Arlati, Politecnico di Milano, Italy	<b>10:45 B1 Orione</b>	<b>Policies for Energy-efficient Construction and Refurbishment</b> Chair: Ian Miller, Pretium Anderson Building Engineers, Canada	<b>10:45 C1 Arena</b>	<b>New Materials for the Building Skin</b> Chair: Valentina Puglisi, Politecnico di Milano, Italy	<b>10:45 D1 Bellavista 2</b>	<b>Occupants' Adaptation in Naturally Ventilated Buildings - Historical Development</b> Chair: Timothy Adekunle, Dep. of Architecture, University of Hartford, USA	<b>10:45 E1 Bellavista 3+4</b>	<b>Economics and Architectural Integration of PV into Façades</b> Chair: Christian Renken, CHENERgie, Switzerland	<b>10:45 F1 Vivace 6</b>	<b>Prefabrication: From Complex Façade Design to Building Retrofits</b> Moderation: Jessica Webster, CanmetENERGY, Natural Resources Canada
Parametric curtain wall design Thomas Kinz, Skidmore, Owings & Merrill LLP, Chicago, USA Customizing a mixed-use building in real time Aleksandar Sasha Zeljic, Gensler, Chicago, USA Work differently for different work: a return to the artful facade Kristofer Leese, Belzberg Architects, Santa Monica, USA Computational design in lightweight membrane enclosures Kais Al-Rawi, Walter P Moore, Los Angeles, USA		Refurbishment of building envelopes on a district level Jure Erzen, Local energy agency of Gorinjka, Slovenia True value of building envelope retrofits Ian Miller, Pretium Anderson Waterloo Inc., Breslau, Canada Market potential and acceptance of BIPV solutions Martin Boesiger, Haute école spécialisée de Suisse occidentale de Fribourg, Switzerland Impact of a window rating system on the performance of windows Minjung Bae, Korea Institute of Civil Engineering and Building Technology, South Korea Envelope design optimization for building refurbishment Raul Corrales, Bureau d'Ingénieurs Fenêtres & Façades, Lausanne, Switzerland		High performance building envelopes with retro-reflective materials Elena Morin, CRIAF, Perugia, Italy Impact of the building envelope on energy footprint of closed greenhouses Ronil Rabari, Simon Fraser University, Surrey, Canada Improving the indoor air quality by using a surface emissions trap for exposure reduction Lennart Larsson, Lund University, Sweden Design and sustainability: Aurum - a practical example Oscar Stuffer, Solarraum, Bolzano, Italy FaçadeZero Waste: recyclable façade system with reclosable fastener fixation Ferdinand Oswald, Institute of Architecture Technology, TU Graz, Austria Brief Presentation Energy-efficient building insulation with foam glass Zhimagui Nuguzhymov, KazMIRRI Institute of Reconstruction and Development, Kazakhstan		Historically sustainable: Natural ventilation in Connecticut houses of the 1700s and 1800s. Theodore Sawruk, Dep. of Architecture, University of Hartford, USA James Marston Fitch: Development of natural ventilation as a strategy to passively moderate the built environment Michael Crosbie, Dep. of Architecture, University of Hartford, USA Analysis of occupants' adaptation and design parameters influencing their behavioral actions in naturally ventilated timber buildings Timothy Adekunle, Dep. of Architecture, University of Hartford, USA Occupants' adaptation in low-income naturally ventilated buildings: a case study of Abuja, Nigeria Michael Adaji, University of Kent, Canterbury, UK		The uptake of BIPV within a project environment Phillipa Boyd, University of Reading, UK BIPV integration concepts - case studies Jennifer Adams, EURAC Research, Bolzano, Italy Bridging the gap between technical and architectural requirements Dieter Geyer, ZSW, Stuttgart, Germany Solar-active components as an integral part of the building envelope Jochen Weick, Avancis, Germany		Prefabricated enclosure wall panel systems Gonçalo Correia Lopes, Universidade de Aveiro, Portugal Retrofitting with light prefabricated modules Silvia Giammetta, Politecnico di Torino, Rivoli, Italy Market assessment and business strategies Jessica Webster, Natural Resources Canada, Ottawa, Canada Upgrading building skins with prefabricated modules Kepa Iturzaide, Technical University of Munich, Germany Façade integrated MVHR heat pump Fabian Ochs, UIBK - EEB, Innsbruck, Austria Recycling shipping containers for building envelopes Xingxing Zhang, Dalarna University, Falun, Sweden	
<b>Lunch</b>											
<b>14:00 A2 Arena</b>	<b>Complex Geometries, Advanced Building Techniques and Materials</b> Chair: Matthew Fineout, Smart Architecture, Pittsburgh, USA	<b>14:00 B2 Orione</b>	<b>Energy Efficiency Investments: From EU Regulations to Individual Households' Decisions</b> Chair: Imre Kocsis and Judit Kiss, Faculty of Engineering, University of Debrecen, Hungary	<b>14:00 C2 Bellavista 3+4</b>	<b>Membranes for High Performance Building Skins</b> Chair: Carl Maywald, Vector Foiltec, Germany	<b>14:00 D2 Bellavista 2</b>	<b>Natural Ventilation 1</b> Chair: Mitsuhiro Udagawa, Prof. Emeritus, Dep. of Architecture, Kagakuin University, Tokyo, Japan	<b>14:00 E2 Bellavista 5</b>	<b>Design Strategies for Advanced PV Façades</b> Chair: Leo Lau, University of Science & Technology Beijing, China	<b>14:00 F2 Vivace 6</b>	<b>Vorgefertigte Holzfasadenelemente für urbane Bauten</b> Moderation: Stefan Winter and Stephan Ott, Technical University Munich, Germany
Creative envelopes - transparent and flexible Michael Stein, schlach bergemann partner, Stuttgart, Germany Envelope systems for complex geometries: a multi-layered approach Matt King, T/É/S/S, Paris, France Adventures in glass: The drivers behind the significant advances in glass technology James O'Callaghan, Eckersley O'Callaghan, London, UK Advanced climate engineering strategies for performing envelopes Wolfgang Kessling, Transsolar Energietechnik, Munich, Germany An exploration of digital design/fabrication and assembly Nassim Saud, Gehry Technologies, Paris, France		Maintenance strategies and life cycle costs of renewable energy systems Imre Kocsis, Faculty of Engineering, University of Debrecen, Hungary Energy efficiency and renewable energy consumption Judit T. Kiss, Faculty of Engineering, University of Debrecen, Hungary How to build our houses in order to consume less energy Balázs Kocsis, School of Informatics, University of Debrecen, Hungary Role of biomass in buildings' energy management János Szendrei, Faculty of Engineering, University of Debrecen, Hungary Renewable energy and the lack of professionals in the European building industry Robert Sztányi, Faculty of Engineering, University of Debrecen, Hungary		Advantages of ETFE in terms of acoustic comfort in atria and large halls Monika Rychtáriková, KU Leuven, Belgium ETFE green building factsheets - the product database for LEED, BREEAM and DGNB Carl Maywald, Vector Foiltec GmbH, Bremen, Germany Viscoplastic forming for ETFE cushions Minger Wu, Tongji University, Shanghai, China Collaborative design and engineering of a tensile fabric façade of a stadium Steve Lewis, Walter P Moore, Los Angeles, USA Brief Presentation ETFE skin, expressive potential: the Rosa Parks Station in Paris Giacomo Di Ruocco, University of Salerno, Italy		Thermal mass façades incorporating shading and ventilation Ralph Roessling, RNT Architects, San Diego, USA Façade optimization for natural ventilation Mohammad Bayoumi, King Abdulaziz University, Saudi Arabia Thermal performance degradation of aerogel blankets due to moisture accumulation Atyeh Hoseini, Simon Fraser University, Surrey, Canada Impact of building envelope design on energy consumption Bin Su, Unitec Institute of Technology, Auckland, New Zealand Implementing natural ventilation in sustainable buildings - a case study Jason Hegenaus, University of Hartford, USA Numerical simulations of ventilated roofs with radiation effect in transient analysis Vincenzo Bianco, Università degli Studi di Genova, Italy		Parametric design and simulation of PV façades Daniel Altoje, United Arab Emirates University BIPV at Nordic climatic conditions Anna Fedorova, Norwegian University of Science and Technology, Norway Construction materials producing energy Peter Röhlißberger, Solaxess, Switzerland Structure integrated PV in monumental architecture and suburban infrastructures Jean-Dieter Steenackers, SunsoakDesign, Belgium PV in national heritage conservation Laurent Quirre, Issel, Belgium BIPV as a new language in architectural design Stephen Lau, National University of Singapore Brief Presentations BIPV façade coupled with transparent insulation Miroslav Cekon, Brno University of Technology, Czech Republic Solar-façade providing access-priority for pedestrians and cyclists Abbas Rahmani, KIT Karlsruhe, Germany Integration of PV into façades and roofs with Suncof Gazmend Luzi, Sunage, Chiasso, Switzerland		Sanierungs- und Neubauprojekte mit vorgefertigten Holzfasadenelementen Maximilian Schlehlein, Gunpp & Maier GmbH, Deutschland Neubau und energetische Sanierung als ein vorgefertigtes Element Kersti Seen, Holzunion, Deutschland TES EnergyFaçade - Gebäudemodernisierung vorgefertigt Frank Latke, lattkearchitekten, Augsburg, Deutschland Feuchtesicherheit hoher Holzfasadenelemente Stephan Ott, TU München, Deutschland Zukunftige Entwicklungen bei Holzfasadenelementen Stefan Winter, TU München, Deutschland Erfahrungen aus europäischen Modernisierungsprojekten mit TES Fassaden Chiel Boonstra, Trecoomed, Niederlande Fassadengestaltung mit Holz Hansueli Schmid, Lignum, Schweiz	
<b>Coffee Break</b>											
<b>16:00 A3 Arena</b>	<b>Additive Manufacturing: 3D Print of the Building Envelope</b> Chair: James Warton, HKS Architects Inc., Dallas, USA	<b>16:00 B3 Orione</b>	<b>Building Refurbishment: Strategies, Technologies, Performance</b> Chair: Steve Burroughs, University of South Australia	<b>16:00 C3 Bellavista 3+4</b>	<b>Textile Architecture</b> Chair: Katja Bernert, Low and Bonar, Germany	<b>16:00 D3 Bellavista 2</b>	<b>Natural Ventilation 2</b> Chair: Rebecca Tuscano-Moss, Westminster School, Simsbury (CT), USA	<b>16:00 E3 Bellavista 5</b>	<b>Integrating PV as Shading Device</b> Chair: Seung-Ho Yoo, Architectural Environment Lab, Sehan University, South Korea	<b>16:00 F3 Vivace 6</b>	<b>Steigerung der Gebäudehülle-Performance</b> Moderation: Manfred Starlinger, ins Ingenieurlösungen, Deutschland
High-performance 3D printed façade with integrated energy Magd Gueguis, Skidmore, Owings & Merrill, Chicago, USA Additive and conventional manufacturing for metallic building skin components Natasa Mrazovic, Stanford University, Stanford, USA 3D-printed functional-integrated building envelope Moritz Mungenast, Technical University Munich, Germany 3D printed structural components of a stadium roof James Warton, HKS Architects Inc., Dallas, USA 3D print of a high performing window Naree KIM, VS-AKR Ltd., South Korea		Strategies for the refurbishment of landmark post-war façades Florian Mähli, osd GmbH & Co. KG, Frankfurt, Germany Double skin suitable for Mediterranean climate in school gym buildings Margherita Finamore, Municipality of Pesaro, Italy Villa Castellì: architectural heritage and energy efficiency Barbara Würdell, Solarraum, Bolzano, Italy Improving performance of existing buildings through engineered skins in deep renovation interventions Chiara Passoni, Università di Bergamo, Dalmine, Italy Retrofitting skylights: thermal transference through large rooftop penetrations Kristol Bethel, Amtech Solutions, Dallas, USA Integrating efficient technologies in building envelopes Annarita Ferrante, University of Bologna, Italy Brief Presentation Design methodology and computational tools for eco-adaptive building skins Davide Ventura, Sapienza University of Rome, Italy		Smart façades - innovations in textile architecture Patrycja Bosowski-Schönberg, Low and Bonar GmbH, Germany Textile envelopes - surprising materials, surprising effects Gerd Schmid, formTL, Germany Tensile wrap for an office building in Ecuador Katja Bernert, Low and Bonar GmbH, Germany		Energy in a naturally warmed air flow: exploiting the 'Almy Effect' of ventilated façades' cavity Ezio Arlati, Politecnico di Milano, Italy Thermodynamic analysis of underground ducts for natural ventilation Alfonso Rivas, Universidad Autonoma Metropolitana, Mexico Smart ventilated façade for reduced heating and cooling needs Álvoro Ruiz-Pardo, Cádiz University, Puerto Real, Spain Renewable energy for building ventilation Rebecca Tuscano-Moss, Westminster School, USA Opacification risk of the intumescent gel in fire-resistant glazing Jacopo Montali, AI Engineering, Torino, Italy Energy consumption and windbreak to decrepit windows Suin Lee, KICT, Goyang-si, South Korea		Individual autonomous blind control system with PV-slat sensors Han Li, Kyushu University, Japan Two visions for adaptive solar lightweight structures Timo Carl, University of Kassel, Germany PV modules as static solar shadings Marco Lovati, Eurac research, Bolzano, Italy Parametric design of an adaptive solar façade Prageeth Jayathissa, ETH Zurich, Switzerland BIPV system as a shading device Seung-Ho Yoo, Sehan University, South Korea		Energiestrategie 2050 - die Gebäudehülle ist doppelt gefordert Philippe Müller, Bundesamt für Energie, Bern, Switzerland Bauwerkintegrierte multifunktionale Energiefassade Manfred Starlinger, ins Ingenieurlösungen, Deutschland Energieeffiziente gebäudeintegrierte Bauelemente für Dach und Fassade Gabriele Eder, Österreichisches Forschungsinstitut für Chemie und Technik, Austria Evaluation of thermal properties for BIPV in glass façades Hisashi Ishii, LXIL Corporation, Tokyo, Japan BIPV glazing: thermal, solar and electrical properties Andreas Stephan, ZAE Bayern, Würzburg, Germany PV glass projects Alvaro Valverde, OnyxSolar, Spain	
<b>End of Conference Day 1</b>											

<b>08:30 A4 Arena</b>	<b>Responsive and Adaptive Building Skins</b> Chair: Omar Renteria, EYP, New York, USA	<b>08:30 B4 Bellavista 2</b>	<b>New Forms of Concrete for Modern Building Envelopes</b> Chair: Ruth Morrow, Queen's University, Belfast, United Kingdom	<b>08:30 C4 Orione</b>	<b>Kinetic Architecture and Dynamic Daylight Control</b> Chair: Anders Nereim, School of the Art Institute of Chicago, USA	<b>08:30 D4 Bellavista 3+4</b>	<b>Models, Tools and Simulations for Sustainable Buildings</b> Chair: Fabian Ochs, University of Innsbruck, Austria	<b>08:30 E4 Bellavista 5</b>	<b>BIPV Glazing: Products, Projects, Performance</b> Chair: Zeger Vroon, Zuyd University of Applied Sciences, Netherlands
Self-aware façades within evolving networks Omar Renteria, EYP, New York, USA Autoreactive facade components in an open cladding system Philipp Molter, Technical University Munich, Germany Design of sustainable adaptive building skins with LCA Manuela Crespi, Dep. PDTA, Sapienza University of Rome, Italy Active, passive or interactive? Human-building interactive facade system for behavioral change of occupants Qianqiang Zhang, National University of Singapore Brief Presentation Design and evaluation of architectural shapes in extreme environments Lenka Kormanikova, Technical University of Kosice, Slovakia		Sprayed concrete for complex geometry façades Valeria Postorino, Postorino & Associates Engineering, Milan, Italy Aerogel mortars and possibilities for their application Daniel Sanz Pont, ETH Zurich, Switzerland Lightweight precast geopolymer sandwich panel for building retrofits Roisin Hyde, Queen's University, Belfast, UK Super green concrete façade panels Elizabeth Gilligan, Queen's University Belfast, United Kingdom Return to source. Linen lace and concrete Ruth Morrow, Queen's University, Belfast, UK Fiber cement façade: a new building in the historical center of LAquila, Italy Francesco Giancola, 2Studio Ingegneria e Architettura, LAquila, Italy		Achieving daylight optimization and reducing cooling loads Jalal Seman, Heriot-Watt University, UK Bio-kinetic and power-collecting shading device Andreas Hammer, Mainz University, Germany Programming and presenting time-based behavior of intelligent kinetic façades Anders Nereim, School of the Art Institute of Chicago, USA Performance of automated solar shading with parametric design process Phetcharin Phongphetkul, Thammasat University, Thailand Meteroesensitive user-controllable skin for dynamic façades Andrea Pilla, Politecnico di Milano, Italy Evaluation of energy and daylighting performance to inform adaptive shading systems Victor Charpentier, Princeton University, USA		Evaluating multilayer lightweight building envelopes Walter Haase, ILEK, Stuttgart, Germany Building typology and solar energy harvesting potential Ji Zhang, Solar Energy Research Institute of Singapore Tools and strategies to improve climate-driven facade design Rodrigo Velasco, Universidad Piloto de Colombia Building performance simulation in architectural design Jon W. Strunze, Søren Jensen Rådg. Ing., Denmark Thermal comfort in buildings with advanced facade systems Nicola Lolli, SINTEF Building and Infrastructure, Norway Brief Presentation Building simulation based on collected environment data Giuseppe Ardito, Worcester Polytechnic Institute, USA Full-scale climate measurement around the building façade Peter Juras, Faculty of Civil Engineering, UNIZA, Zilina, Slovakia		BIPV: Expanding the vision Anna Colley, NSG Pilkington, Lathom, UK Designed BIPV elements with printed front glass Gabriele Eder, Österreichisches Forschungsinstitut für Chemie und Technik, Austria Evaluation of thermal properties for BIPV in glass façades Hisashi Ishii, LXIL Corporation, Tokyo, Japan BIPV glazing: thermal, solar and electrical properties Andreas Stephan, ZAE Bayern, Würzburg, Germany PV glass projects Alvaro Valverde, OnyxSolar, Spain	
<b>Coffee Break</b>									
<b>10:45 A5 Arena</b>	<b>Smart Materials for Adaptive Façades</b> Chair: Ben Bridgins, Newcastle University, United Kingdom	<b>10:45 B5 Bellavista 2</b>	<b>Concrete as Multi-Functional Material serving Building Energy Efficiency</b> Chair: Larry Barnes, R&D Director, VICAT, France	<b>10:45 C5 Orione</b>	<b>Advanced Building Skin Design for Optimized Daylighting</b> Chair: Nelly Moenssens, Faculty of Architecture, KU Leuven, Belgium	<b>10:45 D5 Bellavista 3+4</b>	<b>Building Design Optimization</b> Chair: Fabian Ochs, University of Innsbruck, Austria	<b>10:45 E5 Bellavista 5</b>	<b>Cross-fertilization between Aesthetics and Performance of PV</b> Chair: Jonathan Goverts, IMEC, Belgium
Early experiments and concepts for bacteria spore-based hygrothermophs Marty Dade-Robertson, Newcastle University, UK Soft robotic building skins Martina Decker, NJIT School of Architecture, Newark, USA Computational design and digital prototyping for climate-responsive timber building components Dylan Wood, Stuttgart University, Germany Smart wooden actuators for solar driven and controlled shading systems Markus Rüggberg, EMPA, Switzerland Design optimization of a self-shading smart material morphing building skin John Bringham, Durham University, UK Smart tiles - Application of the dynamic characteristics of shape-memory polymers to climate-adaptive building façades Dale Clifford, California Polytechnic State University, USA Architectural application of wood-based responsive building skins Ben Bridgins, Newcastle University, UK Brief Presentations Color change temperature in thermos-chromic façades for the energy efficiency of buildings Maria Gavira, IETec, Madrid, Spain Energy efficiency by joining groupware with building automation Stephan Weissmann, ZAE Bayern, Würzburg, Germany		CONIPHER - CONcrete Insulation PHotovoltaic Envelope for deep Renovation Philippe Thony, CEA, INES, France Bio-inspired solutions to increase thermal performance Estelle Cruz, Centre Européen d'Excellence en Biomimétisme, France Development of active slabs to benefit from concrete thermal inertia in tertiary buildings Bruno Georges, ITF, France Exploitation of thermal inertia in detached houses: Winter valuation Arnaud Jay, CEA, INES, France Multidisciplinary approach to assess the durability of hemp concrete Sandrine Marceau, Université Paris-Est, France Development of foaming concrete Florian Chalencou, Vicat, France		Daylighting and its effects on human circadian system Lucia Mankova, Slovak University of Technology, Slovakia Advanced window/skylight solution utilizing sunlight directly for illumination Barbara Zybinska Matusiak, NUST, Norway Day and night images of tensile building façades Andrea Vargova, Slovak University of Technology, Slovakia Space to gaze Hans-Joachim Frey, iconic skin, Germany Adaptive building skin design and audiovisual comfort Nelly Moenssens, Dep. of Architecture, KU Leuven, Belgium Brief Presentations on Daylighting Designing shading devices for highly glazed spaces Vitaliya Mokhava, Lund University, Sweden Design for and with daylight: Two healthcare façade applications in hot climates Mili Kyropoulou, HKS Architects, Houston, USA Daylight and thermal performance of transparent façades Katja Malovrh Rebec, Slovenian National Building and Civil Engineering Institute, Slovenia Light/energy management films for building energy efficiency Sebastian Lehentmaier, 3M, Germany Overheating in Nearly Zero Energy buildings with glass façades Hendrik Voll, Tallinn University of Technology, Estonia Performance evaluation of complex fenestration systems Anton Hendrix, Lund University Faculty of Engineering, Sweden		Optimizing the performance of self-shading façades Giovanni Zemella, Ove Arup & Partners, London, UK Form follows performance: Integrating sustainability into design practices Joyce Chan, HOK, London, UK Impact of different energy balancing methods on Net Zero Energy Buildings Monika Hall, University of Applied Sciences Northwestern Switzerland Understanding underground: a journey through simulations Alfonso E. Hernandez, MEDAM design collaborative, Houston, Texas Brief Presentation Optimization of the energy performance in the early design stage of free-form buildings Gabriela Celani, UNICAMP, Campinas, Brazil		Reducing the effect of shadow on PV modules Lenneke Slooff, ECN, The Netherlands Improved PV modules for aesthetic building integration Stefan Dewallef, Soltech, Belgium Brick modules for improved aesthetics in PV John van Rossmolen, ECN, The Netherlands Performance and aesthetics of PV façades with new module technology Karin Soderström, CSEM, Switzerland Accurate modeling of BIPV-based energy generation Hans Goveder, IMEC, Belgium Arres-in-roof-installation with high snow loads Paola Greiner, SolarMarkt, Switzerland Brief Presentation: Integrating Solar Thermal Energy into the Building Envelope	
<b>Lunch</b>									
<b>14:00 A6 Arena</b>	<b>Design Methods for Sustainable, High-Performance Building Façades</b> Chair: Larry Bellamy, University of Canterbury, United Kingdom	<b>14:00 B6 Bellavista 2</b>	<b>Thermal Performance of Phase Change Materials for the Building Skin</b> Chair: Craig Farnham, Osaka City University	<b>14:00 C6 Orione</b>	<b>Smart Glazing for Advanced Daylight Control</b> Chairs: Michele Manca, Italian Institute of Technology, Italy and Lorenza Bianco, Energy-efficient Building Division, CEA/LITEN, France	<b>14:00 D6 Bellavista 3+4</b>	<b>Building Information Modeling</b> Chair: Manfred Huber, University of Applied Sciences Northwestern Switzerland	<b>14:00 E6 Bellavista 5</b>	<b>New Developments in BIPV: Technical Issues and Performance Analysis</b> Chair: Francesco Frontini, Swiss BIPV competence Center
Innovative tilted-glass building skins for improving environmental performance Brad Wilkins, Gensler, Singapore Developing innovative façades with improved seismic and sustainability performance Larry Bellamy, University of Canterbury, Christchurch, New Zealand Performative aspects of geometrically complex building enclosures Matthew Fineout, Smart Architecture, Pittsburgh, USA Affordable and cost-effective high-performance housing Jörg Rügemeier, University of Utah, Salt Lake City, USA Computer programming for performative and comfortable spaces Rania Labib, Texas A&M University, College Station, Texas, USA Lessons learned from forensic investigation of skin failures Karim Allana, Altana Buick & Bers, Inc., Palo Alto, USA Brief Presentations Sustainable building skins for coastal environments Robert Holton, Louisiana State University, Baton Rouge, USA Vertical distribution of reflected solar radiation and re-radiation on buildings Kenjo Kawasaki, National Institute of Technology, Gifu, Japan Advanced building envelopes: design and construction Massimiliano Nاستri, Politechnic of Milan, Italy World exhibitions and building skins: Energy-efficiency concepts and aesthetics Tomasz Krotowski, Institute of Architecture, Lodz, Poland		Ventilation units with PCM for double-skin BIPV façades Jakub Cuperk, Faculty of Civil Engineering, STU, Slovakia PCM melting temperature optimization for passive cooling and heating Alvaro de Gracia, University Rovira i Virgili, Spain Thermal properties of a four-pane window filled with PCM Martin Zalesak, Tomas Bata University, Zlin, Czech Republic PCM-enhanced mortar for thermally activated building components César Bartolomé, Instituto de Ciencias de la Construcción, Spain Thermal performance of multifunctional façade with PCM Romeu Vicente, University of Aveiro, Portugal Microcapsulated PCM and geopolymer concrete Vith Day Cao, Bostford University College, Norway Hynergis and subcooling in simulation of PCM panels Craig Farnham, Osaka City University, Japan Brief Presentations Lightweight building envelopes with PCM Ricardo Almeida, Polytechnic Institute of Viseu, Portugal Ventilated façade with PCM for heating purposes Josep Ramon Castro, University of Lleida, Spain		Solar-powered smart glass window: increase user comfort and reduce energy consumption in buildings Eric Westerhoff, Sunpartner Technologies, France Control strategies for smart glazing Eoin McLean, Dublin Institute of Technology, Dublin, Ireland Smart façade design: energy saving using nano-thermochromic glazing Marina Aburas, University of Adelaide, Australia Dual band dynamic glazing: towards next generation of zero-energy building envelopes Michele Manca, Italian Institute of Technology, Italy Smart glass vs. fritted glass: analysis of glare control performance Éloïse Sok, SageGlass, France Brief Presentation Smart Glazing for Advanced Daylight Control Lorenza Bianco, Energy-efficient Building Division, CEA/LITEN, France		Iconic 3D architecture in the Middle East - latest developments in 3D BIM, computerized design and innovative fabrication technology Thomas A. Winterstetter, Werner Sobek Stuttgart, Germany BIM: People, processes, technology and methods Manfred Huber, University of Applied Sciences Northwestern Switzerland Improving the energy efficiency and indoor comfort of remote-region health clinics Steve Burroughs, University of Canberra, Australia Building skins, parametric design tools and BIM platforms Hannah Wissam, University of Applied Sciences Northwestern Switzerland BIM-driven whole-year simulation of buildings with active façades Per Sahlin, EQUA Solutions AG, Switzerland		The integration of BIPV adaptive flakes into the building envelope Enrico Sergio Mazzucchelli, Politecnico di Milano, Italy Organic photovoltaics as innovative design solutions for BIPV David Müller, Merck KGaA, Germany 4th generation of PV technology for transparent building envelopes Fabio Giucastro, School of Architecture of Siracusa, Italy Advanced technology and material compositions for BIPV Matthias Scholtz, Sunman, Shanghai, China Performance of a BIPV curtain wall component Jonathan Lehmann, KU Leuven, Belgium Brief Presentation BIPV materials science challenges and opportunities Bjorn Petter Jelle, Norwegian University of Science and Technology, Norway	
<b>Coffee Break</b>									
<b>16:00 A7 Arena</b>	<b>Adaptive Building Skins for Energy Saving and User Comfort</b> Chair: Roberta Cocci Grifoni, University of Camerino, Italy	<b>16:00 B7 Bellavista 2</b>	<b>Aerogel-based Solutions for the Building Envelope</b> Chair: Samuel Brunner, EMPA, Switzerland	<b>16:00 C7 Orione</b>	<b>Design, Construction, and Evaluation of Glass Façade Elements</b> Chair: Schüller Andreas, EPFL, Switzerland	<b>16:00 D7 Bellavista 3+4</b>	<b>Green Walls and Roofs for Enhanced Building Skin Performance</b> Chair: Valerie J. Amor, Drawing Conclusions, Brooklyn (NY), USA	<b>16:00 E7 Bellavista 5</b>	<b>Performance Modeling of BIPV Systems</b> Chair: Maider Machado, Tecnalia Research & Innovation, Spain
Design and evaluation of a prototype responsive wall system Giuseppe Losco, University of Camerino, Italy Experimenting with sustainable building skins in an existing building Francesca Olivieri, Universidad Politécnica de Madrid, Spain Dynamic simulation of a solar air heater and experimental measurements Nuno Simões, ITeCons, Coimbra, Portugal Modeling and simulation of complex façade systems Sergio Altomonte, Faculty of Engineering, University of Nottingham, UK Adaptive forms and materials for energy efficient buildings skins Monica Rossi-Schwarzenbeck, HTWK Leipzig, Germany I-M Cool: I-Mesh cool façade to reduce the urban heat island effect Federica Ottone, University of Camerino, Italy		Zero Energy Buildings with high-performance façades Dietrich Schwarz, Dietrich Schwarz Architekten AG, Zürich, Switzerland Aerogel-based superinsulation: New opportunities and solutions Matthias Koebel, Empa, Switzerland The future of sustainable chemical and materials development Harald Krug, NanoCASE, Switzerland High-performance aerogel concrete Lorenz Raftke, Institute of Materials Research, DLR Cologne, Germany Results from real-life performance assessment of aerogel blankets in buildings Pär Johansson, Chalmers University of Technology, Sweden		Windows/doors with burglary-resistant characteristics Stephan Hofe, Bern University of Applied Sciences, Switzerland Gabriel Pérez, University of Lleida, Spain Evolution of in-situ measurement methods for air permeability of windows Christoph Geyer, Bern University of Applied Sciences, Switzerland Beech dowels in contemporary window systems Camilla Mantovani, Bern University of Applied Sciences, Switzerland Chasing transparency: simulating the visual implications of thermal decisions Michael Martinez, Integral Group, Oakland, USA Brief Presentation Performance of reduced cooling load for a slim double-skin window Youngsub An, Kolon Global Corp., South Korea		Winter operation of green walls for energy savings in buildings Gabriel Pérez, University of Lleida, Spain Integrating multiple building skins in response to climate change Valerie J. Amor, Drawing Conclusions LLC, Brooklyn, USA Thermal performance of a double-skin green façade (DSGF) Feng Yang, Tongji University, Shanghai, China Green façade system for indoor air purification Hooman Parhizkar, National University of Iran, Tehran, Iran Improving cross-ventilation by integrating productive façade into tropical passive design Chao Yuan, National University of Singapore		BIM-based software tool for BIPV systems simulation Philippe Alamy, CADcanation, Switzerland A design tool for customized BIPV in a BIM-based process Francesco Frontini, University of Applied Science of Southern Switzerland Methodologies and tools for BIPV implementation in the early stages of architectural design Marco Lovati, EURAC, Italy Performance assessment and modeling of various BIPV concepts Wiep Folkerts, SEAC, The Netherlands IFC-based electricity simulation of a complex BIPV façade Johannes Eisenhofer, Fraunhofer ISE, Germany	
<b>End of Conference</b>									