

FACADE 2018 - Adaptive!

Final Conference COST TU1403 "Adaptive Facades Network"

PROGRAM DAY 2 / Nov 27, 2018

08:30-09:00 Welcome and registration				
09:00-10:20 COST TU1403 Session 2				
	Session 2.1 - Strategies for Design A - Auditorium	Session 2.2 - Products and Materials Room 3+4	Session 2.3 - Performance Assessments Room 5+6	Session 2.4 - Experimental Tests Room 7+8
09:00-09:20	Passive Adaptive Façades – Examples from COST TU1403 Working Group 1 <i>Enrico Sergio Mazzucchelli, Rosa Romano, Laura Aelenei, Maria da Gloria Gomes, Theoni Karlessi, Mark Alston, Daniel Aelenei</i>	Parametric Nodes from idea to realization <i>Alamir Mohsen, Ulrich Knaack</i>	Comparison of conventional and adaptive façades: Increasing application of adaptive facades in Macedonia <i>Aleksandar Petrovski, Aleksandra Krstić-Furundžić</i>	An innovative adaptive multilayer façade: evaluation in the test cell LABIMED <i>Rosa Romano Paola Gallo, Alessandra Donato</i>
09:20-09:40	Practitioners' View on the Implementation Potential of Adaptive Façades with focus on The Netherlands <i>Christian Struck, Twan Rovers, Roy Exterkate, Mark Voortman, Marwan Al Alkam, Robert Timmerman</i>	Development of an adaptive shading device based on flexible structural elements and SMA springs <i>Gianluca Ranzi, Francesco Fiorito, Osvaldo Vallati</i>	Who is Driving an Adaptive Building Envelope <i>Peter Lenk, Robert Buck</i>	Study of Building Integrated Photovoltaic/Thermal Double-Skin Façade for Commercial Buildings in Sydney, Australia <i>Siliang Yang, Francesco Fiorito, Alistair Spraul, Deo Prasad</i>
09:40-10:00	Energy efficient and user oriented pre-fabricated facade extensions <i>Dimitra Papadaki, Silvia Ruggiero, Rosa Francesca De Masi, Theoni Karlessi, Anastasia Fotopoulou, Annarita Ferrante, Margarita-Niki Assimakopoulos</i>	Possibilities and constraints for the widespread application of solar cooling integrated facades <i>Alejandro Prieto Hoces, Ulrich Knaack, Tillmann Klein, Thomas Auer</i>	Opportunities and challenges for performance prediction of dynamic Complex Fenestration Systems (CFS) <i>Giuseppe de Michele, Roel Loonen, Hemshikha Saini, Fabio Favoino, Stefano Avesani, Luca Papaiz, Andrea Gasparella</i>	Ageing of adhesive connections for façade application <i>Klara V. Machalická, Miroslav Vokáč, Martina Eliášová</i>
10:00-10:20	Designing an adaptive shading pavilion for hot arid climates <i>Marta D'Alessandro, Ingrid Paoletti</i>	Possible benefits of capillary flow glazing in translucent wall elements <i>Nikolaus Nestle, Sorin Pulberea, Mark Alston</i>	Analysis of heating effects and deformations for a STAF panel with coupled CFD and FEM simulation method <i>Daniel Brandl, Helmut Schober</i>	Experimental techniques for airflow characterization in the facades air cavities: pros/cons <i>Emanuela Giancola, M. Nuria Sánchez, Matthias Friedrich, Olena Kalyanova Larsen, Allesandro Nocente, Stefano Avesani, Francesco Babich, Francesco Goia</i>
10:20-10:50 Coffee break				
10:50-12:10 COST TU1403 Session 3				
	Session 3.1 - Products and Materials A - Auditorium	Session 3.2 - Strategies for Design, Bionik Room 3+4	Session 3.3 - Experimental Tests, Glass Room 5+6	Session 3.4 - Performance Assessments Room 7+8
10:50-11:10	Solar Energy Balanced Façade <i>Thomas Wueest, Andreas Luble</i>	Biological strategies for adaptive building envelopes <i>Estelle Cruz Kalina Raskin, Fabienne Aujard</i>	Innovations in façade engineering and a glass façade for the future <i>Daniel Pfanner, Ümit Esiyok, Teodora Vatahska</i>	Dynamic Analysis of Climatic Conditions for deriving suitable Adaptive Façade responses <i>Miren Juaristi, Roel Loonen, Aurora Monge-Barrio, Tomás Gómez-Acebo</i>
11:10-11:30	An initial study for the development of an adaptive timber device for moisture buffering applications <i>Gianluca Ranzi, Osvaldo Vallati, Arianna Brambilla, Giulia Spalletti, Giorgio Frigerio</i>	Multi-functional biomimetic adaptive façades: Part I - Developing a framework <i>Aysu Kuru Francesco Fiorito, Philip Oldfield, Stephen P. Bonser</i>	Application of Hollow Glass Blocks for Facades, Full Scale Test of Wall Created with Witrlock System <i>Zdeněk Sokol, Martina Eliášová</i>	Optimizing parameters for dynamic solar shading <i>Christiane Wermke</i>
11:30-11:50	Adaptive window block for residential use: optimization of energy matching and user's comfort <i>Annalisa Andoloro, Stefano Avesani, Annamaria Belleria, Maider Machado, Marco Lovati</i>	Multi-functional biomimetic adaptive façades: Part II - A case study <i>Aysu Kuru, Francesco Fiorito, Philip Oldfield, Stephen P. Bonser</i>	Thermo-mechanical analysis of GFRP-glass sandwich facade components <i>Chiara Bedon, Fabio Favoino, Mauro Overend</i>	Modelling envelope components integrating Phase Change Materials (PCMs) with Building Performance Simulation tools: a state of the art <i>Albert Castell, Marc Medrano, Francesco Goia</i>
11:50-12:10	ACT Façade – Interior sun shading for energy efficient fully glazed façades. <i>Paul-Rouven Denz, Wolfgang Priedemann, Lars Anders</i>	The role of geometry for adaptability: Comparison of shading systems and biological role models <i>Susanne Gosztonyi</i>	Thermal assessment of glass facade panels under radiant heating- Experimental and preliminary numerical studies <i>Chiara Bedon, Marcin Kozłowski, Dániel Hanfi</i>	Performance Evaluation of Adaptive Façades: A case study with electrochromic glazing <i>Shady Attia, Senem Bilir</i>
12:10-13:30 Lunch break				

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13:30-14:50 COST TU1403 Session 4				
	Session 4.1 - Experimental Tests A - Auditorium	Session 4.2 - Post Occupancy Evaluation Room 3+4	Session 4.3 - Products and Materials Room 5+6	Session 4.4 - Strategies for Design Room 7+8
13:30-13:50	An insight on possible classification and metrics, experimental testing and numerical modelling for adaptive facades - Activity report from the 'Structural' Task Group <i>Chiara Bedon, Dániel Honfi, Marcin Kozłowski, Martina Eliášová, Klára Vokáč Machalická, Miroslav Vokáč, Filipe Santos, Thomas Wüest</i>	Post-Occupancy Evaluation of Adaptive Facades <i>Shady Attia, Alessandra Luna Navarro, Miren Juaristi, Aurora Monge-Barrio, Susanne Gosztonyi, Zein Al-Doughmi</i>	Responsive facades evolution - the microscale to the macroscale <i>John E. Villegas, Juan Camilo Restrepo Gutierrez, Henry A. Colorado</i>	Updated Urban Facade Design <i>Holger Techen, Jochen Krimm, Ulrich Knaack</i>
13:50-14:10	A simulation tool for the façade aesthetic appearance – BIO4ever project approach <i>Anna Sandak, Jakub Sandak, Paolo Grossi, Marta Petrillo</i>	Occupant-Adaptive Façade Interaction: Relationships and Conflicts <i>Alessandra Luna Navarro, R.C.G.M. Loonen, Shady Attia, Miren Juaristi, Aurora Monge-Barrio, Mattia Donato, Roman Rabenseifer, Mauro Overend</i>	Temperature-responsive systems: passive strategies for building envelopes <i>Claudio Aresta</i>	A Redesign Procedure to Manufacture Adaptive Facades with Standard Products <i>Bahar Basarir, M. Cem Altun</i>
14:10-14:30	Thermal response of the bionic façade in different climatic conditions <i>Tomaž Šuklje, Ciril Arkar, Sašo Medved</i>	Impact of office and facade types on user comfort and health in office buildings <i>Aleksandra Krstić-Furundžić, Nikola Z. Furundžić, Dijana P. Furundžić</i>	Potentials for the use of ferrofluids in instantly-reacting solar shading <i>Marcin Brzezicki</i>	Designing adaptive Facades with a new holistic Eco-Design Approach <i>Nitisha Vedula, Laura Aelenei, Uta Pottgiesser</i>
14:30-14:50	Experimental Testing of Dissipative Façade Brackets <i>Frank Wellershoff, Matthias Förch, Guido Lori, Marc Zobec, Daniele Casucci, Philipp Grosser</i>	Future Façades of Hospital Buildings: A User-Centered Approach to Identify New Performance Requirements <i>Viktoria Krstel, Winfried Heusler, Klaus-Peter Sedlbauer</i>	Technological and Economic Assessment of Different Models of Geometrically Complex Forms of Glass Envelope <i>Tatjana Kosic, Igor Svetel, Milena Stavic</i>	Adaptive Façades and Topology Optimization <i>Massimiliano Nistri, Ingrid Paoletti</i>
14:50-15:20	Coffee break			
A 15:20-16:20	COST TU1403 Session 5			
15:20-15:40	Dynamic and Climate-Sensitive Bionic Façade <i>Andreas Hammer</i>			
15:40-16:00	Challenges and Future Directions of Smart Sensing and Control Technology for Adaptive Facades Monitoring <i>Shady Attia</i>			
16:00-16:20	Study of a BIPV adaptive system: combining timber and photovoltaic technologies <i>Enrico Sergio Mazzucchelli, Mark Alston, Marcin Brzezicki, Luisa Doniacovo</i>			
A 16:20-16:30	Concluding remarks			
16:30	End of day 2			