

Tuesday, July 26, 2016

14:00 – 18:00	Registration (Lobby of the Main Auditorium)
19:00	Welcome Reception

Wednesday Morning (WeM), July 27, 2016

8:00 – 19:00	Registration (Lobby of the Main Auditorium)
9:00 – 9:30	Opening Ceremony (Main Auditorium)
9:30 – 10:15	Keynote Lecture (Main Auditorium) Chairman: To be announced Terri Boake "Innovation in Architectural Steel"
10:15 – 10:45	Coffee Break (Lobby of the Main Auditorium)
10:45 – 12:45	Concurrent Technical Sessions: WeM 1 to WeM 4

WeM 1 – Main Auditorium	WeM 2 – Room B1.14	WeM 3 – Room B1.15	WeM 4 – Room B1.16
<u>General Session</u>	<u>Special Session</u>	<u>General Session</u>	<u>General Session</u>
Building Envelopes (1)	Performance Aided Assisted Design	Glass Structures	Timber structures
Chairman: To be announced	Chairman: Dario Parigi	Chairman: To be announced	Chairman: To be announced
New equipment for new technology: Fixing systems for thin, textile reinforced concrete façades <i>M. Roik</i>	Building timber gridshells with air: Numerical simulations and technique challenges <i>A. Liuti, A. Pugnale & B. D'Amico</i>	The behaviour of fire resistant glass under fire <i>K. Machalická, M. Charvátová, M. Eliášová & P. Kuklík</i>	Contrasting approaches to load-bearing timber structures <i>A. Gianoli & R. Furrer</i>
Mashrabiya reinvented: Double façades, persian gulf style <i>T. Boake</i>	Specialised algorithms for different project stages in a post-formed timber gridshell design <i>S. Pone, G. Mirra, E. Pignatelli, D. Lancia & S. Colabella</i>	Durability of linear adhesive cold-formed steel-glass connections <i>B. Van Lancker, W. De Corte & J. Belis</i>	Mass timber high-rise design, cost and schedule research: Competitive advantages of wood over concrete <i>A. Jacobs, M. Timmers, J. Sundnes & A. Baker</i>
Reconstruction of roof decks of large roofs as a result of a synergy between technical and architectural solutions <i>V. Tichomirov, K. Landl & D. Bečkovský</i>	Computation tools for the design of a deployable dome structure <i>D. Lee, O. Larsen & S. Kim</i>	System safety of statically indeterminate glass beams after failure <i>K. Martens, R. Caspeepe & J. Belis</i>	Structural performance of multi-story cross-laminated timber (CLT) buildings <i>I. Lukacs & A. Björnfor</i>
Façade modernisation for retrofitting existing buildings to achieve nearly- zero energy buildings <i>S. Zuhaib, M. Hajdukiewicz, M. Keane & J. Goggins</i>	Transformable bending-active structures: Manipulating elastic deformation in kinetic and rapidly assembled structures <i>S. Brancart, L. De Laet & N. De Temmerman</i>	Developing the bundled glass column <i>F. Oikonomopoulou, F. Veer, T. Bristogianni & R. Nijssse</i>	The conceptual design of hybrid structures - Theoretical and experimental research of external prestressed timber beams <i>S. Miljanovic & M. Zlatar</i>
Structural laminated bamboo passive house <i>M. Taylor</i>	Generative material simulation: Contemporary trends in parametric structural design <i>J. Ripple</i>	A scientifically valid approach for determining the design strength and safety factor for heat strengthened glass <i>F. Veer</i>	Hybrid wood-based structural systems for multi-storey buildings <i>C. Loss, M. Piazza & R. Zandonini</i>
Application of simple surface climate models for modelling mould growth on wooden façades <i>T. Thiis, I. Burud, D. Kraniotis & L. Gobakken</i>	Advances in design and fabrication of free-form reciprocal structures <i>D. Parigi</i>	Lateral and torsional stability of hybrid steel-glass beams <i>I. Pravdová & M. Eliášová</i>	

Wednesday Afternoon (WeA), July 27, 2016

12:45 – 14:00	Lunch (Restaurant of the University)
14:00 – 16:00	Concurrent Technical Sessions: WeA 1 to WeA 4

WeA 1 – Main Auditorium	WeA 2 – Room B1.14	WeA 3 – Room B1.15	WeA 4 – Room B1.16
<u>General Session</u> Building Envelopes (2)	<u>Special Session</u> The authority of the structure	<u>Special Session</u> On the tectonics in architecture	<u>General Session</u> Educating architects and structural engineers (1)
Chairman: to be announced	Chairman: Mario Rinke	Chairman: Patricia Trovalusci	Chairman: To be announced
An oak composite thermal dynamic envelope <i>I. Foged & A. Pasold</i> External musculature: The façade in the works of Ignacio Álvarez Castela <i>P. Cueto</i> Understanding the complexities of building physics and human behaviour in achieving a nearly zero energy building <i>P. Moran, M. Hajdukiewicz & J. Goggins</i> Bionic patterns in architectural structures <i>N. Nawari & T. Chichugova</i> <i>M. Molina-Huelva, A. Barrios-Padura & P. Fernández-Ans</i>	The art of structure <i>J. Schwartz</i> National technical library Prague - Building as a technical textbook <i>O. Hofmeister</i> How to re-open the black box in the structural design of complex geometries <i>K. Verbeeck, L. Loos, L. De Laet & L. Muller</i> Trended structures – On the authority of the load-bearing structure <i>N. Graber & C. Steiger</i> Homage - Source of inspiration <i>M. Schlaich</i>	Heinz Hossdorf: The innovation of “mixed rims” in the thin concrete shells of modern architecture <i>P. Cassinello</i> The “question of the technique”: From the designing idea to the realized form <i>R. Panei, P. Trovalusci & A. Tinelli</i> Structural design and aesthetics of infrastructures in natural and artificial environments <i>M. Pasca</i> Foldable geometries for architectural applications: Tectonics and material expression <i>K. Liapi, A. Ioannidi & E. Spyridonos</i> Revisiting the form finding techniques of Sergio Musmeci: The bridge over the Basento river <i>P. Magrone, G. Tomasello, S. Adriaenssens, S. Gabriele & V. Varano</i> A two-stage approach for the design of grid shells <i>E. Grande, M. Imbimbo & V. Tomei</i> Three-dimensional lower-bound analysis of masonry structures <i>P. Foti, A. Fraddosio, N. Lepore & M. Piccioni</i>	A comparative study of the physical model as a tool for structural education <i>L. Luyten, T. Vilquin, I. Vrouwe & E. Verstryngne</i> Blending structural application into architectural design studios <i>M. Callahan, S. Shadravan & C. Leinneweber</i> Effective assignments and haptic teaching methods in architectural structure <i>R. Schwaen & R. Arlt</i> Architect in residence: Pursuing integrated design within engineering <i>T. Nees</i> A structuralist view of prefabrication <i>A. Correia, L. Simões da Silva & V. Murtinho</i>

Wednesday Evening (WeE), July 27, 2016

16:00 – 16:30	Coffee Break (Lobby of the Main Auditorium)
16:30 – 18:30	Concurrent Technical Sessions: WeE 1 to WeE 4

WeE 1 – Main Auditorium	WeE 2 – Room B1.14	WeE 3 – Room B1.15	WeE 4 – Room B1.16
<u>General Session</u>	<u>Mini-symposium</u>	<u>Special Session</u>	<u>General Session</u>
Innovative architectural and structural design (1)	New wood and bio-based construction (1)	Teaching Architecture in full scale - wood	Educating architects and structural engineers (2)
Chairman: To be announced	Chairman: Ian Smith and Andreas Falk	Chairman: Jan Siem	Chairman: To be announced
<p>Optimization methodology for cross-section size in moment-resisting frame design</p> <p><i>J. Xu, X. Lu & B. Spencer</i></p> <p>Pedestrian bridge as public art: Detailing in exposed steel</p> <p><i>T. Boake</i></p> <p>Integrated complex shell structures made up of effectively transformed flat folded sheets</p> <p><i>J. Abramczyk</i></p> <p>Bending-active structures: A parametric analysis on decoding structural behavior and capacity</p> <p><i>K. Alexandrou & M. Phocas</i></p> <p>Innovative structural system consisting of CFT columns and precast concrete beams</p> <p><i>A. El Debs, L. Bezerra & M. El Debs</i></p>	<p>Opening of the session, introduction to the theme</p> <p>Ian Smith & Andreas Falk</p> <p>Overview on the structural performance of timber structures under the effects of blast loading – Research and design considerations</p> <p><i>D. Lacroix, C. Viau, D. Côté, M. Poulin, A. Lopez & G. Doudak</i></p> <p>Wall elements made of timber and wood-cement compounds – Building-physical properties and structural performance</p> <p><i>D. Zwicky & N. Macchi</i></p> <p>Slab elements made of timber and wood-cement compounds – Structural and other performances</p> <p><i>M. Eymard & D. Zwicky</i></p> <p>Function and design of innovative bio-based products for the building sector</p> <p><i>A. Falk & M. Wälinder</i></p>	<p>Models in 1:1 – A powerful education and research tool for bridging the gap between architects and engineers</p> <p><i>O. Popovic-Larsen</i></p> <p>From best practices to tactical design</p> <p><i>P. Tidwell</i></p> <p>Phases of intensive design and build workshops in architectural education</p> <p><i>P. Aalto & S. Rintala</i></p> <p>Learn-by-making and its role in architectural education – Examples from Sweden and Australia</p> <p><i>D. Bylund</i></p> <p>Full scale in four months – Objectives, methods and results</p> <p><i>J. Siem, B. Braaten & A. Gilberg</i></p>	<p>Advanced structural understanding: Load path and structural function revised</p> <p><i>L. Luyten</i></p> <p>Bridge Design; Education and research in the field of integral, innovative, sustainable bridge design at TU Delft</p> <p><i>J. Smits</i></p> <p>Behavior of building structures: Study through models of relevant architecture</p> <p><i>E. Fenollosa, I. Cabrera, A. Almerich & V. LLopis</i></p> <p>In search of the lunar catenary: Teaching form-active design with lower mathematics</p> <p><i>E. Jannasch</i></p> <p>Drawing in the engineering design process: Learning from the first 150 years of modern engineering</p> <p><i>E. Brito, R. Póvoas & P. Providência</i></p> <p>Structural engineering in architectural studies at CTU Prague</p> <p><i>M. Vavruskova & M. Pospisil</i></p>

Thursday Morning (ThM), July 28, 2016

8:30 – 19:00	Registration (Lobby of the Main Auditorium)
9:00 – 10:30	Keynote Lectures (Main Auditorium) Chairman: To be announced James O'Callaghan " <i>Glass Challenges – Past, Present, and Future</i> " Enzo Siviero " <i>Bridges and viaducts between Engineering and Architecture</i> "
10:30 – 11:00	Coffee Break (Lobby of the Main Auditorium)
11:00 – 13:15	Concurrent Technical Sessions: ThM 1 to ThM 4

ThM 1 – Main Auditorium	ThM 2 – Room B1.14	ThM 3 – Room B1.15	ThM 4 – Room B1.16
<u>General Session</u> Innovative architectural and structural design (2)	<u>Mini-symposium</u> New wood and bio-based construction (2)	<u>Special Session</u> Teaching Architecture in full scale - regional materials	<u>General Session</u> Educating architects and structural engineers (3)
Chairman: To be announced	Chairman: Ian Smith and Andreas Falk	Chairman: Finn Hakonsen	Chairman: To be announced
Is there a future for fabric-formed concrete structures? <i>R. Schmitz</i> Sarajevo University library architectural and structural concept <i>A. Pašić, M. Hrasnica & F. Biberkić</i> Early-stage integration of architectural and structural performance in a parametric multi-objective design tool <i>N. Brown, J. Ochsendorf, C. Mueller & J. de Oliveira</i> The New MAAT in Lisbon. Using old methods to design contemporary architectural solutions <i>E. Brito & R. Furtado</i> Structural system concept for twisted buildings <i>M. Piekarski</i> Integrating engineering and architecture <i>S. Smith</i>	Beech LVL – High strength material for engineered timber structures <i>H. Blass, M. Enders-Comberg & M. Frese</i> Experimental campaign of mechanical CLT connections subjected to a combination of shear and tension forces <i>L. Pozza, M. Massari, M. Savoia & B. Ferracuti</i> Experimental analysis of a new connection system for CLT structures <i>A. Polastri, R. Brandner & D. Casagrande</i> Numerical analyses of high - and medium - Rise CLT buildings braced with cores and additional shear walls <i>A. Polastri, L. Pozza, C. Loss & I. Smith</i>	Material, structure, tectonics: The power of full scale in the education of architects <i>U. Meister & C. Rist-Stadelmann</i> Constructing things for constructing other things <i>T. Berlemont</i> An inclusive aesthetic approach to full scale building <i>N. Haarsaker & G. Brenk</i> Learning at the scale of "real life". New pedagogical ideas for teaching architecture <i>M. Spaan</i> Building culture written into the landscape – How to read spatial tradition <i>J. Borucka</i> Listening to the material. An intuitive approach to the knowledge of construction materials <i>R. Farré</i> Didactic concepts within teaching architecture in one to one scale – Two cases <i>F. Hakonsen, M. Waagaard, A. Gilberg & J. Siem</i>	The relationship between structure, architecture, and cost of building based on conceptual design of cable-stayed footbridge <i>S. Skibicki</i> The teaching of structural engineering – A practical approach <i>L. Houck & T. Aurlien</i> Design and build studios in architectural education <i>S. Sandness</i> Inverse investigations: Material definitions of structure and space <i>M. Donofrio</i> STEM principles implementation in building technology education at Texas universities <i>S. Toker-Beeson & R. Azari</i> Crossing boundaries: Blurring the lines between engineers and architects <i>K. Dong & T. Fowler</i>

Thursday Afternoon (ThA), July 28, 2016

13:00 – 14:00	Lunch (Restaurant of the University)
14:00 – 16:10	Concurrent Technical Sessions: ThA 1 to ThA 4

ThA 1 – Main Auditorium	ThA 2 – Room B1.14	ThA 3 – Room B1.15	ThA 4 – Room B1.16
<u>General Session</u> Innovative architectural and structural design (3)	<u>Mini-symposium</u> New wood and bio-based construction (3)	<u>Special Session</u> Beyond Disciplines: Building Transdisciplinary Teams	<u>General Session</u> Educating architects and structural engineers (4)
Chairman: To be announced	Chairman: Ian Smith and Andreas Falk	Chairman: James Doerfler	Chairman: To be announced
An eco-friendly approach for enhancing rural archaeological heritage in Romania <i>S. Bica, M. Tămășan & C. Mărăcineanu</i>	Bio-based structural building components grown into near net shape <i>F. Moser, M. Trautz, A.L. Beger, M. Löwer, J. Feldhusen, J. Prell, J. Reimer, A. Wormit, B. Usadel, C. Kämpfer, T.B. Seiler & H. Hollert</i>	Shared parameters: Interfaces of collaborative exchange <i>J. Ripple</i>	Tectonics in the study abroad design studio <i>S. Milovanovic-Bertram</i>
Externally post-tensioned structures: Validation through physical models <i>L. Todisco & C. Mueller</i>	Pourable wood-cement compounds – Properties, potential and challenges of a new structural material <i>N. Macchi & D. Zwicky</i>	AECO: Web based collaborative digital design <i>M. Naugle</i>	A survey of structures education in North American schools of architecture <i>R. Dermody, D. Oakley & M. Uihlein</i>
Topology optimization of photovoltaic panels as a factor in shaping structural system and architectural form <i>R. Tarczewski & M. Świąciak</i>	Can CLT construction help copenhagen become world's first carbon neutral city? <i>D. Horsewill & T. Nielsen</i>	Blurring boundaries through interdisciplinary engagement <i>M. Mistur</i>	Forces frozen: Hands-on exploration of structural ice shells <i>C. Fivet & C. Mueller</i>
'COCOON' a bamboo building with integration of digital design and low-tech construction <i>L. Hansen & S. Kim</i>	Energy and seismic performance of timber buildings in Mediterranean region <i>A. Polastri, G. H. Poh'siè, I. Paradisi & J. Ratajczak</i>	Interdisciplinary synergy <i>R. Roesling & B. Nuttall</i>	Sketching as thinking: Structural concepts and design <i>M. Dunn</i>
Studies in 3D Topologies: Structural morphologies and grid shell structures <i>I. Lochner</i>	A new dissipative connection for CLT buildings <i>L. Marchi, D. Trutalli, R. Scotta, L. Pozza & A. Ceccotti</i>		A freehand method for analyzing certain spatial porticoes almost accurately <i>A. Lacort</i>

Thursday Evening (ThE), July 28, 2016

16:10 – 16:40	Coffee Break (Lobby of the Main Auditorium)
16:40 – 19:00	Concurrent Technical Sessions: ThE 1 to ThE 4

ThE 1 – Main Auditorium	ThE 2 – Room B1.14	ThE 3 – Room B1.15	ThE 4 – Room B1.16
<u>General Session</u> Tall Buildings and structural design challenges	<u>General Session</u> The history of the relationship between architects and structural engineers	<u>Special Session</u> Reinforced Ice Structures: in the footsteps of Da Vinci and Candela	<u>General Session</u> Concrete and masonry structures
Chairman: To be announced	Chairman: To be announced	Chairman: Jan Belis	Chairman: To be announced
<p>Wind tunnel tests around bluff-bodies of circular base to optimize space grid envelope structures for high-rise steel buildings</p> <p><i>R. Señís</i></p> <p>Façade integrated structural damping systems for tall buildings</p> <p><i>K. Moon</i></p> <p>An engineer reads. Interpreting the Citylife Tower RdD1 structural design process through an essay of Italo Calvino</p> <p><i>E. Brito & R. Furtado</i></p> <p>Comparative evaluation of diagrid and braced tube structures for tall buildings</p> <p><i>K. Moon</i></p> <p>Bearing structure of a multi layered stone façade in cantilever of a 5 story residence in Athens</p> <p><i>M. Kyriazis</i></p> <p>A yoga analogy in structural behaviour: Understanding versus computation</p> <p><i>J. Bernabeu & A. Bernabeu</i></p> <p>Micro-mega - Nature inspired structural patterns for tall buildings: Modeling, analysis, design</p> <p><i>G. Montuori, G. Perrella, M. Fraldi & E. Mele</i></p>	<p>A study on the conservation of operating historical bridges - Recent experiences in Japan</p> <p><i>H. Isohata</i></p> <p>Technological changes and architecture: The case of APCER magazine, Portugal 1935-45</p> <p><i>J. Delgado & P. Pinto</i></p> <p>Claiming ground: The first structural engineering license in the United States</p> <p><i>M. Uihlein</i></p> <p>Structural documentation of the Palace of Congress in Brasília</p> <p><i>J. Sánchez & E. da Silva</i></p> <p>Building modelling in historical perspective</p> <p><i>R. Tarczewski</i></p> <p>Collaboration between architects and structural engineers: A history of major successes and major failures</p> <p><i>J. Rey-Rey</i></p>	<p>Historical development of structural ice</p> <p><i>A. Pronk, N. Vasiliev, J. Belis</i></p> <p>Compressive strength of ice and cellulose-ice composite</p> <p><i>P.J.S. Cruz & J. Belis</i></p> <p>Technical installations to enable the construction of the “Juuka in ice” project 2016</p> <p><i>J. van den Elzen</i></p> <p>Design of Da Vinci’s bridge in ice</p> <p><i>A. Pronk, R. Blok, M. Van Brunschot, A. Van Lier, F. Van de Mortel, K. Williams, et al</i></p> <p>Reinforced ice structures: In the footsteps of Candela</p> <p><i>J. Belis, B. Ronsse, K. Martens, B. Van Lancker, P.J.S. Cruz & G. Deruyter</i></p> <p>On-site geometrical measurements of an experimental ice composite shell through TLS and photogrammetry</p> <p><i>G. Deruyter, K. Fransen, H. Glas & J. Belis</i></p>	<p>Influence of the wall shape on the collapse of arch-wall systems</p> <p><i>D. Aita, R. Barsotti & S. Bennati</i></p> <p>The structure of the external lift at the Port of Ribadeo. Galicia. Spain</p> <p><i>J. Valcárcel</i></p> <p>Form and structure in the Cathedral of Cuzco</p> <p><i>H. Rodríguez-Camilloni</i></p> <p>Assessment of masonry buildings subjected to landslide by strut-and-tie models</p> <p><i>F. Palmisano & A. Elia</i></p> <p>Beyond the funicular: Exploiting untapped potentials in masonry construction</p> <p><i>E. Jannasch</i></p> <p>Graphical methods for the design of masonry arches: The case of Luis Moya Blanco’s Nuestra Señora de la Araucana in Madrid, 1972</p> <p><i>L. Todisco, C. Fivet & S. Rojo</i></p>

Friday Morning (FrM), July 29, 2016

9:00 – 19:00	Registration (Lobby of the Main Auditorium)
9:30 – 10:15	Keynote Lectures (Main Auditorium) Chairman: To be announced Frederic Veer “Materials science, bridging the gap between architecture, architectural engineering and structural engineering”
10:15 – 10:45	Coffee Break (Lobby of the Main Auditorium)
10:45 – 12:30	Concurrent Technical Sessions: FrM 1 to FrM 4

FrM 1 – Main Auditorium	FrM 2 – Room B1.14	FrM 3 – Room B1.15	FrM 4 – Room B1.16
<u>General Session</u> The borderline between architecture and structural engineering (1)	<u>Mini-symposium</u> Everyday Tectonics (1)	<u>General Session</u> The tectonic of architectural solutions (1)	<u>General Session</u> Steel, Concrete and masonry structures
Chairman: To be announced	Chairman: Anne Beim	Chairman: To be announced	Chairman: To be announced
When structure and architecture are interdependent <i>M. Sanvitto</i> New orders, in search of a new point-block diagram for Hong Kong <i>O. Ottevaere</i> Structure as power: The case of the Matosinhos Market, Portugal, 1936-1953 <i>J. Delgado & P. Pinto</i> Architectural vs. structural constraints in urban multi-hazard safety assessment <i>E. Georgescu, C. Gociman, I. Craifaleanu, T. Florescu, M. Georgescu & C. Moscu</i> Railway stations – The borderline between architecture and structure <i>E. Kido</i>	Everyday tectonics? – Clarification of concepts <i>A. Beim & M. Hvejsel</i> A didactic of tectonics <i>N. Cowee</i> Constructing and construing environmental sensations <i>I. Foged</i> Auxiliary architectures – The everyday potential of supplementary textile architectures <i>M. Hensel & D. Hensel</i> Subtle or Significant. Tectonic Transformations of Everyday Architecture <i>C. Bundgaard</i>	Carlo Scarpa and the search for gravity <i>A. Schultz</i> Tectonic thinking on housing of modern architecture: Mies van der Rohe vs Alison and Peter Smithson <i>A. Rodrigues & P. Baía</i> Re-Envisioning the Knot: The Neil Astle House <i>B. Wrightsman</i> From Seia to Guimarães. Fernando Távora's tectonic shift in the Sacor fuel stations <i>E. Fernandes</i> Tectonics and landscape: The structure of ground and atmosphere <i>M. Laboy</i>	New roles of the structure in the refurbishment of the architectural heritage: The MediaLab-Prado project <i>J. Rey & P. Vegas</i> Prefabricated planar elements for reinforced brick shells <i>A. Pick, S. Schäfer & J. Reising</i> Safety assessment of masonry structures based on modern methods and technologies <i>C.S. Dragomir, M. C. Calin, S. Purdoiu, A. Virsta & R. Manea</i> In the Arabian Gulf maintenance is the key to sustainability <i>M. Samarai</i> Sustainable construction through Eco-efficient ultra-high performance concrete <i>I. Ferdosian & A. Camões</i>

Friday Afternoon (FrA), July 29, 2016

12:30 – 14:00	Lunch (Restaurant of the University)
14:00 – 15:20	Concurrent Technical Sessions: FrA 1 to FrA 4

FrA 1 – Main Auditorium	FrA 2 – Room B1.14	FrA 3 – Room B1.15	FrA 4 – Room B1.16
<u>General Session</u> The borderline between architecture and structural engineering (2)	<u>Mini-symposium</u> Everyday Tectonics (2)	<u>General Session</u> The tectonic of architectural solutions (2)	<u>General Session</u> Lightweight and membrane structures
Chairman: Jan Belis	Chairman: Marie Frier Hvejsel	Chairman: To be announced	Chairman: To be announced
The physical model in the structural studies of Robert Le Ricolais: “apparatus” or “hierogram” <i>M. Vrontissi</i> Holistic integration versus separation and fragmentation in the architecture <i>D. Bijedic, R. Cahtarevic & S. Halilovic</i> Formal and structural multiplicity in early truss design <i>M. Rinke</i> New formal expectations. The dynamic alternative between the evident and the disturbing <i>F. Suárez</i>	The tectonics of recycling <i>U. Madsen</i> Investigations on cultural ecology of industrial timber construction – Through tectonic understanding of new wood materials <i>K. Sundahl</i> Tensegrity systems - Transferring tectonics from the extraordinary to the everyday <i>M. Hensel, G. Bover, J. Hoen, S. da Cunha & S. Sørensen</i> The ecology of urban tectonics – Studied in everyday building culture of Hans Christian Hansen <i>A. Beim & M. Hvejsel</i>	Tectonic approaches in the design of concrete architecture in postwar Italy <i>L. Ingold & M. Rinke</i> Appropriate building physics in relation to the tectonic of architectural quality <i>C. Kristensen</i> Recovering a broader understanding of tectonics. The case for the architectural potentials of sheet metal <i>J. Holst & O. Jackson</i> Le Corbusier’s Maison Dom-ino and John Habraken’s supports: Differences and similarities <i>H. Ferreira, L. Simões da Silva & V. Murtinho</i>	A simplified and robust material model for fabrics used in membrane structures <i>J. Pargana & V. Leitão</i> The new Warner Stand at Lord’s Cricket Ground: Innovative fabric roof structures <i>S. Smith, A. Lerpiniere, W. Whitby, M. Trousdell & R. Zara</i> Lightweight modular membrane structures for various applications <i>S. Gellin & R. Tarczewski</i> A case study for the use of structural textile cables in building <i>M. Brocato & R. Zarcone</i>

Friday Evening (FrE), July 29, 2016

15:20 – 17:00

Concurrent Technical Sessions: FrE 1 to FrE 2

FrE 1 – Main Auditorium		FrE 2 – Room B1.14
<u>General Session</u>	<u>General Session</u>	
Futuristic and emerging technologies	Computer and experimental methods	
Chairman: To be announced	Chairman: To be announced	
Rotoreliefs, definitively unfinished: From constructivism experiences to his legacy in progress, 1915-1998	Designing a slender footbridge based on a passive control algorithm	
<i>C. García</i>	<i>J.F. Jiménez-Alonso, A.M. Hernández Diaz & A. Sáez</i>	
Sun, sea, sand and architectural structures	Free form surfaces construction with precast pieces and minimum formwork	
<i>R. Rahman & M. Daud</i>	<i>P. Vegas & A. Bernabéu</i>	
Systematic case study on energy efficiency of existing Irish buildings using BIM in order to achieve nearly zero energy standards	Genetically enhanced parametric design in the exploration of architectural solutions	
<i>T. Ganguly, M. Hajdukiewicz, M. Keane & J. Goggins</i>	<i>P. von Buelow</i>	
Lightweight steel intensive solutions for over-roofing of existing residential buildings	Dynamic analysis of a modern cable-stayed footbridge	
<i>V. Ungureanu, A. Floricel & M. Georgescu</i>	<i>J. Dulinska & I. Murzyn</i>	
	Optimization of stadium roof structure using force density method	
	<i>M. Uroš, P. Gidak & D. Lazarevic</i>	

17:00 – 17:30

Closing Ceremony (Main Auditorium)