

**MS-Architectural Engineering** 

Fostering Creativity using AI towards

An extensive database of Swiss building

structures to predict the availability of

Malena Bastien-masse, Barbara Lambec,

Rethinking concrete reuse workflow in

Hong Kong: a comparative study with

BIM-Based Application of Level(s) for

**Circular Economy: Recyclability Case** 

Alireza Ferevdooni Eftekhari, Fulvio Re

Cecconi, Ornella Iuorio, Bruno Daniotti

economy in building design

Hanne Rangnes Seeberg, Marcin

Luczkowski, Sofie Friis Dahl-Nielsen

A digital workflow proposal for circular

Hanbing Zhao, Shuaizhong Wang

a Circular Economy in Architectural

Vanessa Schwarzkopf, Pei-Yu Wu,

Tobias Nolte, Catherine De Wolf

materials and components

Aldrick Arceo, Corentin Fivet

Swiss models

Study

**Design and the Circular** 

Chairs: Sigrid Adriaenssens, Ruben Verstraeten

Engineering Design

**Economy: Methodologies** 

**SS-Ecologies of Stone:** 

The sandiness of sand

Frans Drewniak, Guillem Allov

Larena, Isabel Sáez Alonso,

Carles Oliver Barceló

tools for economical

Tim Mahn. Matthias Beckh

6 Social housing units in Mallorca: a

Criteria for digitalparametric design

Reimagining hyperbolic paraboloid

One Thousand Years or More: Re-Using

Stones from the Thames River Wall

Oliver Wilton, Matthew Barnett Howland

umbrellas in stone blockwork

Richard Harpin, Zoe Nicholls

loadbearing elements from solid natural

contemporary and sustainable stone

Javier Gómez Mateo, Aleiandro Bernabeu

Chair: Jonathan Foote

structure

stone

**Structures and Architecture** 

08.30 - 09.0009.00 - 10.15

10.15 - 10.4510.45-12.30

ICSA2025 Opening Ceremony							
Keynote Gabriela Carrillo	& Carlos Facio, An Fonteyn						
Morning C	offee Break						
Morning	Sessions						
SS-Efficient applications of concrete structures for a sus- tainable built environment	SS-Kind structures and archi- tecture: celebrating human- nonhuman cohabitation	SS-Structural and Architec- tural Spolia – Exploring Reuse as a Cultural and Aesthetic Practice	<b>Urban Structures &amp;</b> <b>Architecture</b> Chair: N.N.				
Chairs: Jonathan Michael, Mohamed Ismail	Chairs: Sareh Saeidi Derakhshi, Matthew Dylan Anderson	Chairs: Shuaizhong Wang, Pedram Ghelichi					
Sourcing and designing with reused precast concrete elements: the ReCrea- te H22 pilot Helena Westerlind, José Hernández Vargas, Erik Stenberg	Speculative Frictions of Cohabitation: Storytelling and Diegetic Prototyping in More-Than-Human Architecture Antonio Bernacchi, Alicia Lazzaroni	New tectonics of concrete through rubble reuse Maxence Grangeot, Tanguy Auffret-Postel, Stefana Parascho, Corentin Fivet	Mapping Trondheim's building stock Pasi Aalto, Nils Dittrich, Georgios Triantafyllidis, Lombe Mutale, Beatrice Stolz				
Analyzing the minimum degree of shear connection for composite beams with prestressed dismountable shear	Adaptive reuse in industrial farm buil- dings: nesting critical (infra)structures of trans-species care Ruby Natasha Sleigh	The modernist Spolia Ulrik Stylsvig Madsen, Henriette Ejstrup, Line Kjær Frederiksen	Designing Small-Scale Adaptive Urban Spaces with Deployable Structures Yaxin Li, Ping Shu				
with prestressed distributitable sitear	היושא המנמשות שופועו						

Analyzing the min shear connection with prestressed dismountable shear connections

Adil Ahmad, Jean-François Demonceau, Jie Yang, Christoph Odenbreit

3DCP Composite Systems: Additive manufacturing of a concrete and cellulose interlocking wall João Ribeiro, Tatiana Campos, Filipe Brandão, Bruno Figueiredo, Paulo J.S. Cruz

Winding Fibre Threads for 3D Concrete **Robotic Printing** Filipe J. S. Brandão, Bruno Figueiredo, Paulo J. S. Cruz

**Covering Ground: Identifying the Risk** of Forced Labor in Five of the Most Specified Landscape Architecture Materials in the US Franca Trubiano, Noriko Maeda, Ivanna Dudvch

**Building Material Supply Chains** and Forced Labor: The Case of Fossil Fuel based Polymers Franca Trubiano

From wood to tree: designing with wood's natural degradation processes Liz Galvez

Multispecies architecture in postpandemic urban nature - Three typologies of connectedness Sirid Bonderup, Marie Stender

FÓRUM NADA NOVO: Artistic explorations of reuse potential in Portugal Cláudia Escaleira, Jonny Pugh

A Digital Approach Integrating Robotics for Sustainable Restoration of a Historic Structure in Hong Kong Yangzhi Li, Xiheng Yan, Yi Zhang, Shuaizhong Wang, Adam Fingrut

Industrial spolia: Expanding discrete design systems towards material reuse Lukas Allner, Daniela Kröhnert, Andrea Rossi

Flow and Expansion – A Design Approach for Building Transformation **Based on Structural Underpinning** Technology Yuchen Han, Fangchen You

Revisiting the Wild: The Role of Invisible Architecture in Reimagining Urban Spaces Mariam Tharwat, Dag Boutsen

Study of the Space Compositional Rules of the Macau Pátio Houses, a Computational Approach to Shape Grammars Filipe Afonso, Pedro Gomes Januário, Paulo Almeida

12.30 - 01.30

Lunch Break



## **Tuesday, 08. July 2025**

1.30-03.15					
S-Hybrid Structures - Mimetic ialogues Between Old and lew Rethinking Reconversion trategies mairs: Caroline Voet, Eireen Schreurs	MS-Architectural Engineering Design and the Circular Economy: Materials Chairs: Sigrid Adriaenssens, Ruben Verstraeten	<b>Building envelopes / Facades 1</b> Chair: N.N.	Concrete & masonry structures 1 Chair: N.N.	MS-From Earth to Earth: Vernacular and Contempora- ry Earthen Architecture and Structures – Education and Contemporary Practice in Earthen Construction Chairs: Marwa Dabaieh, Jorge Fernandes	<b>Timber construction 1</b> Chair: N.N.
Rehabilitating the ward into a design studio: getting in dialogue with hygienic structures, through design Paulo Providência, Diogo Rodrigues	Fire-safety aspects of long-span timber structures in industrial buildings Sander Løkkegaard Benner, Xan Browne, Olga Popovic Larsen	Monocoque Systems: The Reuniting of Divergent Agencies for Architecture Bruce Wrightsman	How digital approach can help rein- troduce masonry buildings as a basic construction method Romane Maudru, Etienne Antuszewicz,	From the Mediterranean to the Nordic: Unveiling the Potential of Earth Cons- truction in Contemporary Architecture Jorge Fernandes, Marwa Dabaieh	Load bearing capacity of pine timber connections using different types of connectors Gastón Bruzzone, Daniel Godoy, Diego
Atlas of Typological Affordances – Drawing Architectural Research Andreas Lechner, Gennaro Postiglione	Structural reclaimed wood - reuse, rereuse, and repurposing Felix Heisel, Dan Bergsagel	Shedding light on architecture – sket- ching daylight under an overcast sky Arnkell Jonas Petersen	Pierre Marquis-Lhuillier, Vishnukumar Rajasekar Echoes of the Past: Enhancing Masonry	Shovelling and Studying: The 1980s Re- vival of Earthen Construction in German Universities	Passarella, Stephany Arrejuría, Laura M Design method for roundwood cons- truction using database of trees
Afterlives of Architectural Fragments: Exploring Hybrid Structures Through Spolia	A digital circularity approach to lever- age waste lumber in dowellaminated timber slabs	Form Versus Reality: The Impact of Geo- metry on the Detailing of the Building Envelope Terri Boake	Historic Structures with Cable Net Systems for Compatibility Ali T. Dinani	Andrea Alberto Dutto, Leonie Bunte The implementation of earth blocks in Belgium and Luxembourg: a case study	Damien Gilliard, Yves Weinand Rebuilding the Yao Stilt Houses Thro Tree Graphs Generative Method
Zümrüt Şahin, Bilge Ar Winter Gardens Structures – Climate devices as mediating forms: landscape	Rachel M Blowes, Keith J Lee, Paul Mayencourt, Sheila Kennedy, Caitlin Mueller	Numerical Analysis of Perforated Ben- ding-Active Plates integrated in Unitized Curtain Wall	Mechanical Strength and Quality of Concrete Incorporating Asian Hard Clam Shell Waste as Partial Replace- ment of Coarse Aggregates	analysis Elke Knapen, Nijs de Vries, John Silvertand, Erik Pelicaen, Lieve Weytjens	Filipe Afonso, Pedro Gomes Januário, Paulo Almeida RETHINKING ELASTIC TIMBER
intelligences and bio climatic structures Alejandro Haiek Coll, Rebecca Rudolph, Tomas Mena	Inventory-constrained optimization of grid shells driven by reuse Francesco Laccone, Andrea Favilli, Paolo Cignoni, Luigi Malomo, Daniela Giorgi	Charis Sergidis, Marios C. Phocas Post-Consumer Flexible Polyolefine (FPO) as a Material for Bespoke 3D	Mia Ardiati Tedjosaputro, Silas Oluwadahunsi Investigation of the embodied carbon-	The Durability of Earthen Materials: A Post-Occupancy Survey Pauline Lefebvre	GRIDSHELLS Antonio José Lara-Bocanegra, Carlos Martínez-Criado, Antonio Roig, Almudena Majano-Majano
Bond Behaviour of Wood Reinforcement in a Clay Matrix Theresa Zschäbitz, Selina Vaculik, Thomas Matschei, Alex Seiter, Martin Trautz, Ken De Cooman, Laurens Bekemans	Reducing the environmental impact of a singlefamily house through renovation using biobased and reclaimed materials Els Van de moortel, Karen Allacker	Printing Facades Francesco Milano, Benhur Baiju, Roy ZRotz, Martin Eckl, Alessandro Fischer, Nik Olivo Eftekhar, Valeria Piccioni, Fabio Gramazio, Matthias Kohler	water footprint of readymixed concrete mixtures in four U.S. metropolitans Jonathan Michael Broyles, Juan Pablo Gevaudan, Wil V. Srubar III		
	Nested Stone Pasts and Futures: Stone Reuse Prototyping at St Leonard's Hill Oliver Wilton, Matthew Barnett Howland, Thomas Parker	Advancing the building materials rec- lamation: an evaluation method for the disassembly potential of glass façade systems Angelica Rota, Giammarco Montalbano, Marco Zaccaria, Giovanni Santi, Francesco Fiorito			

SS = Special Session, MS = Mini-Symposium

2/9



# **Tuesday, 08. July 2025**

uilding envelopes / acades 2	Concrete & masonry structures 2	Crossdisciplinary design	From Earth to Earth: Vernacular and Contemporary Earthen	Lightweight structures Chair: N.N.	Timber construction 2
hair: N.N.	Chair: N.N.	Chair: N.N.	Architecture and Structures – Innovation and Technological Advances in Earthen Construction	Uncil i Naix.	Chair: N.N.
			Chairs: Marwa Dabaieh, Jorge Fernandes		
Overlapping H.W. (Heat Wave) with U.H.I. (Urban Heat Island) in calculating the energy efficiency of buildings at	Polibrick Plugin: A Parametric Tool for Studying Complex Brick Pattern Shells Mohammad Pourfouladi, Natalia Pingaro	Folding at the threshold of architecture and engineering Toni Kotnik	Automated earthconstruction: scale up and potential for soil bioremediation Guillem Perutxet Olesti, Kenneth Wilson	Volte realine. A description and analysis of a vernacular technique for defining and designing new thin shells	Some Tectonic Features of Bulgariar Traditional Postsand-Planks Houses from the Period of National Revival
<b>nZEB standard</b> Emilian Cojocaru, Ionuț Ciprian Mătieș, Daniel Mihai Muntean	Stone Slurry Waste: Circularity and Additive Manufacturing	The Intersection Between the Theory of Circularity and the Built Environment	Rozas, Laetitia Morlie, Anete Krista Salmane, Pradeep Devadass, Marcos Cruz, Brenda Parker	Salvatore Di Maggio, Calogero Di Maggio, Rossella Corrao	XVIII–XIX century Nora Stoycheva Yordanova, Lucas Alcaide De Wandeleer
Thermal Performance Improvement of Brick Design via 3D Printing	David Miguel Maia Alcobia, Bruno Acácio Ferreira Figueiredo	Zeynep Melis Oguz, Omer Sukru Deniz ZOOMSEs: Prototyping a Consultancy	Material Informed Computational Design for a Stereotomic Rammed	Adjustable Connection Systems for Reusable Modular Plate Structures Ellen Leemans, Niels De Temmerman,	Bahareque as an opportunity for adequate housing and sustainable
Esraa Mohamed Mahmoud Saad, David Correa	Neo-Brutalism: The Digital and Cultural Micro-Landscape of 3D- Printed Concrete	Design Studio Model for Advanced Structural Integration in Architecture Thomas Fowler. Sat Rihal	Earth Vault Pedro Azambuja Varela, Necmettin Sancak, Sema Alacam, Orkan Guzelci,	Lars De Laet Comparative Load-Deformation Ana-	construction in rural Colombia Andrés Fernando Real Jiménez, Iván Fernando Otálvaro Calle.
Criteria for enhancing comfort and liveability conditions in homogenous	Giancarlo Di Marco, Juan Carlos Dall'Asta	Designing engineers: Tautology or	Rui Póvoas, Edgar Brito	lysis of an Adaptive Lightweight Canopy System with Thin-Film Photovoltaics	Ingrid Elizabeth Madera Sierra
built contexts through innovative façade interventions Carlo Antonio Stival, Paola Limoncin,		Peculiar Combination? Tilke Devriese	Tilt-up pisé: investigations on the v iability and aesthetic possibilities of tilt-up rammed earth	Marios C. Phocas, George Tryfonos, Maria Matheou, Eftychios G. Christoforou	Review of disassemble-able building systems in Iranian timber structure Farkhondeh Vahdati, Mia Tedjosaputro
Bisiani Thomas		Structuring Googie: How early 20th century developments in structural	Maxwell C Rodencal, David Costanza, Felix K Heisel	Lightweight structures on unstable surfaces: strategic intervention	DIY mass timber: development of
A Comparative Study of Structural and Environmental Performance in Two Cable-Driven Curved-Line		forms and materials helped shape a unique subset of US mid-century modern architecture	Structural design with rammed earth – a shear strength design procedure and	approaches in ravine Ana Julia Claro	low-tech and lowcost structural mass timber manufacturing to support for utilization in California
Folding Façade Systems Marius Klamt, Pinar Neseliler, Yenal Akgun,		Deborah Oakley	<b>case study</b> Dan Bergsagel, Marta Heisel-Wisniewska,	Seismic and Thermal Performance of modular innovative lightweight steel	Paul Mayencourt
Lucio Blandini  REviewing Desert Architecture:		Detecting rainwater flow paths as a methodology for nature-responsive architectural planning	Maxwell Rodencal	buildings within the ECCELSA project Alessia Campiche, Luigi Fiorino, Raffaele Landolfo	
Recent Architecture in the United Arab Emirates Igor Peraza, Samar Halloum		Tizian Alkewitz			
<u> </u>					

Welcome Apero



# Thursday, 10. July 2025

08.30-09.45	Keynote Hanaa Dahy, Phil Bernstein						
09.45-10.15	Morning Coffee Break						
10.15-12.00		Morning	Sessions				
MS-Collaborative Practices of Architects and Structural Engineers – The Nature of Collaboration Chairs: Anne-Catrin Schultz, Christina McCoy	MS-Eco-Logic Structures: New Design Paradigms based on Hybrid Systems, Alternative Materials, and Disassembly Processes - Hybrid Systems and Re-Use Chairs: David Jenny, Patric Fischli-Boson, Jay Renée Thalmann	<b>Circular by nature or by design?</b> <b>Opportunities and challenges</b> <b>of timber circularity –</b> <b>Reclaiming the value of timber</b> Chairs: Rafael Novais Passarelli, Felipe Riola-Parada	<b>MS-Mycelium-based compo- sites: from forest to design research - Material design of myceliumbased composites</b> Chairs: Adrien Rigobello, Andrea Rossi	<b>MS-Structural adaptations:</b> the role of existing structures in adaptive reuse projects - A tectonic approach for adaptive reuse Chair: Matteo Robiglio, Elena Guidetti	MS-Structures & Crafts: Digital Assemblies Chair: Ornella luorio, Juan Jose Castellon Gonzalez		
Restructuring Collaborations between Architects and Engineers Clare Jessica Olsen, Sinead Mac Namara Industry views on optimization in	Parametric Analysis for Ecological- Structural Efficiency: A Systematic Ap- proach to Sustainable Slab Structures Yasaman Yavaribajestani, Patric Fischli-Boson	No Time, No Space – Circular Material Hubs' Challenges for Reclaimed Wood Structural Reuse Esther Vandamme, Mario Rinke	MycoPly: Laminated, naturalfiber-rein- forced mycelium-based composite panels for architectural applications Marta H. Wisniewska, Andrew Boghossian, Felix Heisel	Case Study: Adaptive Reuse of Abando- ned Industrial Buildings in Oklahoma Shideh Shadravan, Negar Heidari Matin, Francesco Cianfarani	Revisiting Structural Lazo Carpentry: Geometry, Mechanics, and Constructic Wesam Al Asali, Angel Maria Lopez Marti Robin Oval, Orsolya Gaspar, Antonio Jos Lara Bocanegra, Maria Almudena Majan		
architectural and engineering practice: A CMM study Paranaz Mansourimajoumerd, Stephanie Bunt, Catherine Berdanier, Nathan Brown	Tectonics of the hybrid: Constructing the Viennese Gründerzeit Thomas Sommerauer	From waste streams to high-value biobased building materials Niels Vonk, Martijn Droesbeke, Jan Niederwestberg, Ron Oorschot, Jan de Jong, Marc Souverein	Biofabrication and Performance of Mixed-Density Mycelium Modules Selina Bitting, Vita Rossi, Hannah Möwes, Sandro Stucki, Stefan Schoenwald,	Towards Sustainable Structures with Reused Timber: Validation of Enhanced Technical Standards and Practical Guidelines Thieme Engelborghs, Jean-François	Majano, Sigrid Adriaenssens Towards automating the workflow for design, manufacturing, and assembly process feedback of discrete panel		
Prototypes in collaboration: practice- based research and research-based practice Michelle Laboy, Matthew Webster, Paul Kassabian, Jerome Hajjar	CONNECT4C: High-strength steel con- nections for circular construction Alejandro Bernabeu Larena, Guillermo González Sanz, Tiago Alves, Neda Janković, Filip Ljubinković, Luis Simões da Silva, Jorge Conde Conde, Antonio	Structuring architecture with salvaged timber: exploring an interlocking modu- lar system and beyond Gengmu Ruan, Günther H. Filz, Gerhard Fink	Tom Van Mele, Philippe Block Bioluminescent Mycelium: An Explo- ration into the Cultivation of Pannellus stipticus Pietro Augusto Falcinelli, Marco Tira,	Rondeaux, Aline Vergauwen Timber-based Retrofitting of Unrein- forced Masonry: An Experimental Approach to Repair and Reuse Philip Tidwell, Daniele Malomo,	structures Sam Wilcock, Ornella Iuorio Parametric Material Autopsies for Generative Crafting Özgür Kavurmacıoğlu, Betül Ozar,		
Design Engineers: Engineers, Creativity, and Architecture Marci Uihlein	José Lara Bocanegra, Almudena Majano Majano, Laurent Duchêne, Arnaud Neutelers, Jean-François Demonceau, Adriano Silva De Carvalho, Teodora Bodgan, Christoph Odenbreit, Kristo Mela	Circular timber construction: Appro- aching material defects for reuse Wolfgang Schwarzmann, Livia Audrey Herle	Lucia Castellani, Roberta Salierno, Ingrid Maria Paoletti Advancing Mycelium-Based Composi- tes: Integrating Strength Optimization and Porosity Control for Alternative	Bora Pulatsu, Daniel Chung, Yifan Xie Hidden in Plain Sight: Exploring Roofs in the Reuse of Flemish Post-war Parish Churches Femke Van der Meulen.	Fitnat Cimşit Koş, Zehra Delerel The Art of Joining: Challenging Planar Joints in Robotically Printed Ceramic Assemblies Maria Smigielska, Suzi Pain, Muslima		
	Circular Bridge: A Case Study Project on Innovative Demountable Structural Hyb- rid Systems with Reused Components Guido Brandi, Adrian Kiesel, Stefan Hausherr, Patric Fischli-Boson Experimental Study of Resource-Ef-	Structural potential of reclaimed and local timber as new resources in The Netherlands Jan Niederwestberg, Harrie Weijs, Niels Vonk	Construction Materials Dana Saez, Marlen Zschaetzsch, Dóra Márföldi, Tristan Beihsner, Anett Werner, Denis Grizmann, Martin Trautz	Connecting Spaces and User Contexts – Topology as an Architectural Circulation Analysis Tool in Conversion Projects Zena Ndiaye, Robbe Pacquée, Mario Rinke	Rafikova, Joaquin Tobar Closed Loop: Design and Fabrication of a Circular Workflow for Robotically 3D Printing Recycled Plastic Architectura and Structural Components David Costanza		
	ficient Folded Steel and Cementfree Concrete Composite Systems Jay Renée Thalmann, Yasaman Yavaribajestani, Christian Stocker, Peter Kobel, Samuel R. Garcia, Valentino Vigneri, Andreas Taras, Patric Fischli-Boson						

SS = Special Session, MS = Mini-Symposium

Lunch Break



01.00-02.45		Afternoo	1 Sessions		
MS-Collaborative Practices of Architects and Structural Engineers - Case Studies in Collaboration Chair: Anne-Catrin Schultz, Christina McCoy	MS-Eco-Logic Structures: New Design Paradigms based on Hybrid Systems, Alternative Materials, and Disassembly Processes - Alternative Materials and Disassembly Processes Chairs: David Jenny, Patric Fischli-Boson, Jay Renée Thalmann	<b>Circular by nature or by design?</b> <b>Opportunities and challenges</b> <b>of timber circularity – Future</b> <b>recirculation of timber</b> Chairs: Rafael Novais Passarelli, Felipe Riola-Parada	MS-Mycelium-based compo- sites: from forest to design research - Upscaling sustai- nable solutions for mycelium materials Chairs: Adrien Rigobello, Andrea Rossi	<b>MS-Structural adaptations:</b> the role of existing structures in adaptive reuse projects – A matter of narrative and metrics Chairs: Matteo Robiglio, Elena Guidetti	<b>MS-Structures &amp; Crafts: Mate- rial and Cultural Assemblies</b> Chairs: Ornella luorio, Juan Jose Castellon Gonzalez
Engineering Authorship and Agency in Mid-20th Century Belgian Church Construction Chiara Kuijpers, Sven Sterken, Stephanie Van de Voorde	Beyond the rationale of reduction: exploring a deep ecological architectural practice of care Thorbjørn Lønberg Petersen The Kiln Tower of Cham	Designing for timber circularity: potential challenges and approaches from the lens of two educational design/build projects Rafael Novais Passarelli, Mariapaola Riggio, Nancy Cheng, Elke Knapen	MycoCurva: stayin-place fabric formworks for curved veneerreinforced mycelium building components Eda Özdemir, Andrea Rossi, Nadja Nolte, Philipp Eversmann	Balancing resources and cultural values in building adaptations Magnus Reffs Kramhøft, Henriette Ejstrup, Pelle Munch-Petersen Teaching Reuse of Existing Structures	Cultural Values in Structural Reuse: A Design Workflow for Modern Spolia Shuaizhong Wang, Hanbing Zhao, Yuanlong Zhu, Hiroyuki Shinohara The structural role of in-plane
Campus SRF Zurich – Systems and the art of construction Leonore Daum, Christian Penzel, Martin Valier, Pascal Bach, Frederik Lønow Thermal storage in low-carbon structu- res: A transdisciplinary perspective	Joerg Habenberger Review of Recycled Materials Relevant for 3D Printing Habitats Atousa Aslaminezhad, Peng Lee, Henriette Bier, Mario Rinke	Advancing Circularity in Timber Construction: Design for Disassembly and Resue, and Innovative Wood- Based Connections Daniel Honfi, Xan Browne, Olga Popovic Larsen, Roberto Crocetti	Robotic wickering: fiber-mycelium         hybrid modular system         Omar Abdelhady, Victor Sardenberg,         Jens-Uwe Schulz, Hans Sachs         Symbiocene Demonstrator: Mycelium         Bio-Composites in Architectural Design	the University of Sheffield     Richard Harpin, Jon Carr     Embodied Carbon Calculations as a     design tool in the Adaptive Reuse of     a Campus Building     M. Naomi Darling, Garth Schwellenbach	intertocking in jack arches Valentina Beatini, Danila Aita, Hugo Carus Johan Clausen, Elsa Garavaglia, Attilio Pizzigoni, Luca Sgambi, NA NA Textile hierarchy: a systems-led ap- proach to hacking textile design
Matan Mayer, Alejandra Albuerne Rodríguez, Aurore Julien The Collaboratory: Tanzania Build! Kevin Dong, Tom Fowler	Reimagining Refurbishment: From Demolition to Innovation Sevgi Altun, Ko Tsuruta, Francesca Mirone, Ena Lloret Fritschi Forgotten Resource, Untapped Poten-	U.S. perspectives on deconstruction and reuse of structural wood products Fiona A. O'Donnell, Nathan L. Post, Jack J. Lesko, Amelia E. Landry, Abigail R. Peters, Zoe A. E. Sperduto	Abhinav Chaudhary, Savannah Willits, Michael Polisano, Jenya Andersson, Harjit "Ram" Sembi, Ron Bakker, Darshil U. Shah From buzz to breakthrough: driving mycelium biocomposites' uptake in	M127: Re-reading and Re-writing a structure Gert Somers, Jonas Lindekens, Sara Verleye	and construction Sylwia Orynek, Briony Thomas, Alison McKay Exploring craftdigital manufacturing processes: a cost-effective methodolo
	tial – Rediscovering Swiss Natural Stone as a Load-Bearing Building Material Nelly Pilz, Singer Franziska, Mosayebi Elli	Design for Adaptation – Adopting Adaption for Timber Construction at Three Scale Mette Ramsgaard Thomsen, Stine Dalager Nielsen, Tom Svilans, Ee Pin Choo, Martin Tamke	Aotearoa NZ's construction industry Maria Eveline Walker, Emina Kristina Petrović		gy for low-series production of custom doublecurved geometries with a novel Cement-Textile-Composite material Elena Casolari, Alberto Speroni, Andrea Giovanni Mainini, Matteo Cavaglià, Juan Diego Blanco Cadena, Tiziana Poli
		Circular by Nature: Framing the Need for Design for Circularity in Mass Timber Structures Tatiana de Oliveira Chiletto, Simone Fernandes Tavares de Melo, Rafael Novais Passarelli, Elke Knapen			Advancing TRCLC3 as a sustainable technology for light prefabrication in social housing in Latin America Patricia Guaita, David Fernández-Ordoñez Raffael Baur, Enrique Corres Sojo, Beatrice Malchiodi, Sergio Ekerman

02.45-03.15

5/9



03.15-04.45		Evening	Sessions		
<b>Educating architects and structural engineers</b> Chair: N.N.	<b>MS-Mycelium-based compo- sites: from forest to design research – Textile reinforce- ment strategies for mycelium materials</b> Chairs: Adrien Rigobello, Andrea Rossi	SS-Circular Site Stories: Exploring Entanglements of Non-Human/Human Diversities and Material Assemblages Chairs: Tenna Tvedebrink, Tina Vestermann Olsen	<b>SS-Conceptual design of struc- tures using equilibrium models</b> Chairs: Pierluigi D'Acunto, Patrick Ole Ohlbrock	<b>Steel &amp; composite structures</b> Chair: N.N.	<b>Structures &amp; Landscapes</b> Chair: N.N.
Tectonics and Open Building within the scope of architectural design teaching Carolina Albuquerque de Moraes, Roberto Eustaáquio dos Santos	Extending the Craft and Cultivation of Myco-Textile Structures Jonathan Dessi-Olive	Invisible Site Stories: Uncovering Ecological Externalities in Marine Sand Mining Emma Rishøj Holm, Stiig Markager	Multi-surface Plasticity Model for Analy- sis of Complex Interlocking Assemblies Elham Mousavian, Ghulam Kibriya, Katalin Baqi, Antonino lannuzzo	Non-Uniform Truss Modelling and Energy Consumption in Adaptive Space Lattice Manufacturing for Steel Structures	Structures & Landscapes: Implement tation of foundations for low impact structures and small scale dwellings without excavation.
Enhancing Architectural Education: A Study on Flipped Classroom Implementation Shideh Shadravan	Textile Templating: Knit Design Strategies for Mycofabrication Romy Kaiser, Ben Bridgens, Elise Elsacker, Jane Scott	Circular Economy and Entangled Water infrastructures: Hydrofeminist Perspectives in Flemish and North- American circular site stories in	Integrating constructability constraints into an equilibrium-aware grammar for generative structural design Ioannis Mirtsopoulos, Corentin Fivet,	Nadja Gaudillière-Jami, Justin Dirrenberger Historical analysis of the relationship between the building structure and the thermal envelope on the example of	Regin Schwaen RBS Bätterkinden – Rethinking railw infrastructure Frederik Lønow
Exploring Daylight on Northern	Enhancing Flexural Performance of Mycelium-Bound Composites through	linear city planning Wendy Wuyts	Caitlin Mueller	the construction of the DARS building Matei Blenkuš	Drava Telefon and Splavarska
Latitudes – Assessing Quantitative and Qualitative Aspects in Educational Practices Kathrine Næss, Arnkell Jonas Petersen	Textile-Reinforcement Strategies Kalaivanan Amudhan, Alina Engel, Maxine Meier, Pia Jamie Krist, Eliza Biala, Martin Ostermann Nanofiber	Architectural Ecographies Alicia Lazzaroni, Antonio Bernacchi	<ul> <li>Augmented Decomposition Method: Formfinding for structural equilibrium with design objectives based on Alter- nating Direction Method of Multipliers</li> </ul>	Reused-based design of steel exoskeletons Fabrizio Ascione, Francesco Esposito,	Footbridge in Maribor, Slovenia Jorge Bernabeu Larena, Alejandro Bernabeu Larena, Francisco Burgos R Ginés Garrido Colmenero
Introducing Innovative Reconfigurable Space-Structures in the Architecture Education: A Novel Methodological Approach	Nanofiber Solutions for Sustainable Mycelium Biocomposites in Architecture Jan Koniček, Phoebe Lewis, Romy Kaiser,	Taking Care: Practices of social sustai- nability in Danish circular design – 'the Swan' as a case study Tenna Doktor Olsen Tvedebrink, Tina Vestermann Olsen, Signe Glud	Patrick Schäferling, Matthias Beckh Designing the new Weser bridge in Bremen: a case study on the role of form finding in suspension bridge design	Diana Faiella, Elena Mele	
Katherine Liapi Structural pocket guide for architecture	Jane Scott	How can the design process for tempo- rary use be improved? Learnings from	Abel Groenewolt, Kenryo Takahashi, Laurent Ney		

Structural pocket guide for architecture students Tilke Devriese

The High Value Of Failure: Developing Critical Thinking about Building Envelope Design Terri Boake

**practice and education** Gabrielle Kawa, Waldo Galle, Niels De Temmerman

05.00-06.00

**General Meeting – International Association of Structures and Architecture** 

07.30-11.00

From Papers to Plates - ICSA2025 Dinner



### **Friday, 11. July 2025**

08.30-09.45		Keynote Jonny Ley	a, Joseph Schwartz				
09.45-10.15	Morning Coffee Break						
10.15-12.00		Morning	Sessions				
<b>MS-Mycelium-based compo- sites: from forest to design</b> <b>research – New methods of</b> <b>research and cultivation for</b> <b>mycelium materials</b> Chairs: Adrien Rigobello, Andrea Rossi	<b>Natural materials 1</b> Chair: N.N.	Repurposing the past: concepts, practices, and challenges Chair: Stephanie Van de Voorde, Lara Rey- niers, Ruben Van Vooren	SS-Learning through Making: Exploring Teaching Structure and Construction through Making Chairs: Laurens Luyten, Carmen Rist-Stadelmann	<b>SS-Sustainable building</b> <b>structures through resilience</b> Chair: Lennert Loos	MS-Wood in the Digital Age: Crafting the Future of Sustainable Architecture – Reimagining Traditional Wood Craftsmanship Chairs: Edyta Augustynowic, Ronny Standtke Katharina Lindenberg		
Bacteria-Fungi mortar: Construction with reused materials and microbially formed composite Lynn Hyun Kieffer, Jakob Sieder-Semlitsch	Weather-resistant Composite Develop- ment for Scalable Bacterial Cellulose- based Foldable Shading Systems Gozde Damla Turhan-Haskara, Pinar Neseliler, Yenal Akgun	The role of the building component in reuse architecture -learning from Marcel Raymaekers Arne Vande Capelle, Lionel Devlieger	Pedagogical Analysis of Construction Workshops in Architecture Programs to Teach Structure and Construction Laurens Luyten, Ivo Vrouwe, Öykü Acican	Benchmarking and Comparative Assessment of Sustainability Measures in Structural Engineering Projects: A Framework Lennert Loos, Pierre-Yves Adant	Fusing Heritage: Enhancing Traditiona Wood Fastening Techniques with Parametric Engineering for Form-Fit Structural Timber Connections in a Spatial Framework		
Selective Growth Mechanism (SGM).           Powder bed 3D printing with mycelium- based materials         Developing structural applications for wood waste in affordable housing design Carolina Manrique Hoyos, Randall Teal, L. Damon Woods, Michael R. Maughan,	The persistent practice of reuse in the modern era: a survey of francophone advertising in switzerland from 1851 to 1968 Barbara Lambec, Maléna Bastien-Masse,	Experiential learning in construction history through models Dimitris Theodossopoulos, Christianna Veloudaki, Audrey Dakin	Discussion on Generality and Adap- tability as new parameters to gain information on the reusability of the loadbearing structure	Kaspar Ehrhardt, Timo Claus, Benedikt Neubauer, Julian Lienhard, Alexander Michalski, Philipp Stute, Stephan Burger <b>Fiber Interweaving: Exploring the</b>			
Inoculation methods for digitally fabri- cated mycelium-based clay composites Hana Vašatko, Julian Jauk, Lukas Gosch, Valeria Niemackl, Anita Klaus, Dorothee Hippler, Milena Stavric	Lili Cai, Ahmed Ibrahim, Mallory Bermensolo, Tavia Dahl, Jim Severt, Aaron Magalsky, Dylan Porth, Farnaz Nazari, Armando G. McDonald, Daniel J. Robertson, Alexandra M. Lehman-Chong, Senami Hodonu,	Corentin Fivet Beyond Innovative Procurement: A Case Study of Architectural Reuse in Zinneke, Brussels	Assembly, gravity and environment (AGE): Layered sketching, drawing and modelling for integrated design Miriam Dunn, Graham Petrie, Eddie O'Donovan	Alessio Pelagalli, Lennert Loos Retrospective analysis: Offices to housing Paulien Marie Beeckman, Waldo Galle,	Synergy of Crafts and Engineering in Architecture Education Sigrid Adriaenssens, Wesam Al-Asali, Carlos Fontales		
Dorothee Hippler, Milena Stavnc Novel Application of Digital CT Scanning Technology for Monitoring of Fungal Mycelium Colonization Michelle Tinneran, Saoirse Tracy, Dimitrios Argyropoulos Materials Catalogue for emergent and responsive materials Layla van Ellen, Ben Bridgens, Oliver Heidrich The Tectonic Culture of Reed -Explo- rations into a Biogenic Architecture for the Future Line Kjaer Frederiksen, Anne Beim, Lykke Arnfred	Karen Steukers, Michaël Ghyoot, Lionel Devlieger, Stephanie Van de Voorde Unraveling the Architectural Design Process: A Comprehensive Study of	Embracing the Unknown: Successes and Attempts in Design-Build Projects. Laura Cristina Zubillaga, Pekka Heikkinen, Daniela Jimena Alatorre Piñones	Niels De Temmerman Envisioning alternative buildings: graph tool shows spatial re-use capacity and informs openended design interven-	Exploring the Potential of Funicular Timber Floors Petras Vestartas, Leonie Füssler, Daniel Sang-Hoon Lee, Aryan Rezaei Rad Tom Van Mele, Philippe Block			
	Oliver Heidrich The Tectonic Culture of Reed -Explo- rations into a Biogenic Architecture for the Future Line Kjaer Frederiksen, Anne Beim,	Challenges in Designing with Reused Components Kristina Viktoria Kröll, Torsten Schröder, Juliette Bekkering, Corentin Fivet	Full Scale Approaches Comparing didactic methods in four different construction cultures Carmen Rist-Stadelmann, Urs Meister	tions Robbe Pacquée, Caitin Mueller, Mario Rinke Deep learningbased topology optimization design method for bridge structures guided by aesthetics Cheng Xiang, Airong Chen, Yun Ning,	Digital Age Crafting from Misfit Wood: A Bundled Pillar Jaakko Torvinen, Jakob Sieder-Semlitsch Jens Pedersen, Anders Kruse Aagaard, Niels Martin Larsen, Matti Kuittinen		
	Salty Transformations: Bridging Vernacular Wisdom to Contemporary Innovations in Salt Architecture within the Egyptian Context Marwa Dabaieh, Deena EL-Mahdy, Nahla N. Makhlouf, Ahmed H.Hafez			Dalei Wang			

SS = Special Session, MS = Mini-Symposium

Lunch Break

Version 19 May 2025



01.00-02.45		Afternoon Sessions			
<b>MS-The Next Generation of Embodied Carbon Reduction</b> <b>Strategies – Pushing the</b> <b>frontiers of embodied carbon</b> <b>reduction strategies</b> Chair: Jonathan Michael Broyles, Demi Fang, Martin Torres	<b>Natural materials 2</b> Chair: N.N.	<b>Repurposing the past: mind- sets, methods, and metrics</b> Chairs: Stephanie Van de Voorde, Lara Reyniers, Ruben Van Vooren	<b>SS-Restructuring architectural</b> <b>and engineering education</b> Chairs: Olga loannou, Maria Vrontissi, Bob Geldermans	<b>SS-From Micro to Macro:</b> <b>Revitalizing Spaces – Exploring</b> <b>the Synergy between</b> <b>Regenerative Architecture</b> <b>and Bioconstruction</b> Chairs: Jan Wurm, Delfina Fantini van Ditmar	<b>MS-Wood in the Digital Age:</b> <b>Crafting the Future of Sustain</b> <b>able Architecture – Material</b> <b>and Fabrication Innovation</b> Chairs: Edyta Augustynowicz, Ronny Stand ke, Katharina Lindenberg
Evaluation of a Concept for Assessment of Environmental and Economic Impact of Social Intents Anna Elisabeth Kristoffersen, Steffen Petersen, Aliakbar Kamari	PULPBAFFLE: A biodegradable acous- tic solution using additive manufactu- ring in sustainable construction Tatiana Campos, Paulo J. S. Cruz, Bruno Figueiredo	Pedagogy of an interdisciplinary, hand- son workshop to design and build floor systems with reused materials Célia Küpfer, Barbara Lambec, Malena Bastien-Masse, Pierre Zurbrügg, Corentin Fivet	New ways of thinking design pedagogy: body-based methods in design education Andrea Victoria Hernandez Bueno, Miranda Celeste Laurence	Dirty Mycelium: Materials and Structures Under the Microscope Olga Beatrice Carcassi, Grace Schleck, Lola Ben-Alon Living Layers: Bacterial	Assessing Thermal-Mechanical prop ties of Wood Powder Cellulosebased Composites for 3D-Printed Architector ral Components Ashish Jain, Guy Austern, Shany Barath
Framework for Cost Analysis of Complex Concrete Floor System Shape Optimization Techniques Leopold J. Wehner, Mohamed A. Ismail	Beyond Nature and Artifice: Synthesi- sing Structural AirWebs through Al Juan Carlos Dall'Asta, Giancarlo Di Marco, Lok Hang Cheung	Unlocking the reuse potential of tiles: Dismantling tests and environmen- tal impact insights from case study dwellings	Reconsidering material literacy for architecture students: Material reading and physical sketching with reclaimed material Alessandro Oreste Tellini, Mario Rinke	Cellulose Textiles Assia Crawford, Sarah Ruthanna Miller, Dimitar Stefanov The Arctic Territorial Fluctuation:	Elastic kinetic coupling for hygroscop amplification in climate responsive ventilation shingle. Andrew McDonald, Liam Engel, Renee Fang, David Correa Diff
Carbon reduction strategies with steel-CLT hybrid structures Michelle Laboy, Matthew Eckelman, Mark Webster, Jerome Hajjar Estimating Earlystage Embodied Carbon in Structural Systems of	Experimental study on the thermal performance of 3D-printed earthen Wall Segment with optimized infill pattern Mohamad Fouad Hanifa, Paulo Mendonça, Bruno Figueiredo, Deena El-Mahdy Prefabricated biogenic construction	Katrien Devos, Marijke Steeman, Lionel Devlieger A standardized method to assess the reuse potential of building components Barbara Lambec, Maléna Bastien-Masse, Félix Heisel. Corentin Fivet	Circular Prototyping: Detect – Conduct – Disrupt Tine Hegli, Kristian Edwards, Jill K. Saunders, Arnkell J. Petersen, Lina E. Broström	Landscapes disturbances. Non-visible Infrastructural Power Control: Alejandro Haiek Coll, Raquel Colacios, Tomas Mena mena, Luis Pimentel, Rebecca Rudolph, Aram Badr, Hana Osman, Cesar Velando	DiffCheck: a Scan-CAD Evaluation Too for Digital Manufacturing and Assemb Processes in Timber Construction Andrea Settimi, Damien Gilliard, Eleni Skevaki, Marirena Kladeftira, Julien Gamero, Stefana Parascho, Yves Weina
Urban Building Stocks Leilah Yadia Kelly Sory, Caitlin T. Mueller, Christoph Reinhart Using Kernel Density Estimation to Model Uncertainty in Building	Astrid Juul Jørgensen, Henriette Ejstrup, Johannes Schotanus, Karlis Livkiss, Else Maria Søeborg Ohlsen, Anne Beim, Mia Fossing Frederiksen, Anders Dragsted	Estimating structural timber material quantities using historical design codes and probabilistic modelling for circular economy Lombe Mutale, Ramon Hingorani,	Designing with care and maintenance: a pedagogical approach to sustainable architecture Camille Fauvel, Nicolas Rogeau, Sonia Curnier, Nao Kono, Tiphaine Abenia, Bryan Ortega-Welch	Ecospacing as post-growth research frame? Spatial potentials for interspe- cies well-being and regeneration Lotte Marianne Bjerregaard Jensen, Marie Frier Hvejsel, Ann Kirstine Brunbjerg, Rasmus Eirnes, Andreas Lindegaard	LapLam: Upcycling panel-shaped woo production waste into larger timber components Markus Matthias Hudert, Jens Pedersen
Material Emissions: Considering Variable Weighting and Bandwidths Martín Torres, Wil Srubar III	Inia i ussili g Frederikseri, Ariders Dragsted	Jochen Köhler	Experimenting circularity and material resource efficiency in Environmental Design to foster sustainable urban regeneration Paola Altamura, Serena Baiani	Hashius Ejrites, Andreas Lindegaard         Jakobsen, Anja Jørgensen         Transcalar Bio-Tectonics: Unveiling         Responsive Potential in Architecture         Fitnat Cimşit Koş, Zehra Delerel,         Betül Ozar, Özgür Kavurmacioğ	Multilayer elastic timber gridshells wit Monge meshes Carlos Martínez-Criado, Antonio José Lara-Bocanegra, Antonio Roig, Francisco González-Quintial, Andrés Martín-Pastor, Almudena Majano-Majano

02.45-03.00



### **Friday, 11. July 2025**

	Evening	Sessions				
<b>Histories of structural and architectural design</b> Chair: N.N.	<b>Adaptability and life</b> cycle design Chair: N.N.	<b>MS-Wood in the Digital Age:</b> <b>Crafting the Future of</b> <b>Sustainable Architecture –</b> <b>Circularity and Scaling</b> Chairs: Edyta Augustynowicz, Ronny Standtke, Katharina Lindenberg				
Luigi Moretti. Structure as form Jaime J. Ferrer Forés Structurally Innovative Vaults in Guarino Guarini's Architectural Theory: The	Practical Implementation of Strategies for Sustainable Construction Design – How to Manage Transformation within Engineering Practices Angela Feldmann, Christoph Gengnagel,	Scaling the timber construction sector – Investigations in analyzing wood market scenarios in Switzerland Shayani Fernando, Giacomo Vaccario, Janine Schweier				
Case of San Gaetano in Vicenza     Simen Dalen Taraldsen, Audun Fossum     Exploring the Convergence of     Modernist Architecture and Chinese     Landscape Painting: A Study of     Chen Chi-Kwan's Work	Daniel Pfanner Evaluating adaptability in school archi- tecture. A Multi-criteria approach. Efthymia Ratsou-Stæhr, Tor Kristian Stevik, Fortress Ardane Villas Mercado, Leif Daniel Houck	Circular Wood for Interior Design – Opportunities for Residual Wood use, Powered by Industry 4.0 Technologies Marta Malé-Alemany, Tony J.N. Schoen, Valentijn T.B. Bors, Sebastian B.S. Yap, Javid Jooshsesh, Maurice M.J. Pelt, Timo				
Ning Tsai Historical Review of Building Materials and Their Construction in Switzerland: Implications for Renovation Purposes Yasaman Yavaribajestani, Natalia Pieroni, Jacqueline Pauli	Planning Complex Timber Frame         Assemblies Using Graph Algorithms         Ardeshir Talaei, Anja Kunic,         Roberto Naboni         Assessment Criteria of Timber Cons-	Bega, Jerome J. Mies, Simon Gehring A "Living Lab" Research: Technological Design for Circular Education and Innovation Networks in Wood Waste Upcycling Giuliano Galluccio, Marina Block,				X
João Filgueiras Lima (Lelé): Memories of Architecture and Structures Jose Manoel Morales Sanchez, Elcio Gomes da Silva, Paulo Jorge Sousa Cruz	truction: Indicators for Demountability Sandra Schuster, Stephan Birk	Marina Rigillo, Massimo Perriccioli Structural Design by Density Compositions of Poplar Deadwood Isak Foged, Mads Brath				
_		Modeling of Timber Spatial Structures: Interdependencies Between Flexible Floor Plans and Force Flow Jovanka Kuzmanovska, Colton Paul Corcoran, Patrick Schäferling, Matthias Beckh				
	architectural design         Chair: N.N.         Luigi Moretti. Structure as form         Jaime J. Ferrer Forés         Structurally Innovative Vaults in Guarino         Guarini's Architectural Theory: The         Case of San Gaetano in Vicenza         Simen Dalen Taraldsen, Audun Fossum         Exploring the Convergence of         Modernist Architecture and Chinese         Landscape Painting: A Study of         Chen Chi-Kwan's Work         Ning Tsai         Historical Review of Building Materials         and Their Construction in Switzerland:         Implications for Renovation Purposes         Yasaman Yavaribajestani, Natalia Pieroni,         Jacqueline Pauli         João Filgueiras Lima (Lelé): Memories         of Architecture and Structures         Jose Mancel Morales Sanchez, Elcio	Histories of structural and architectural design       Adaptability and life cycle design         Chair N.N.       Chair N.N.         Luigi Moretti. Structure as form Jaime J. Ferrer Forés       Chair N.N.         Structurally Innovative Vaults in Guarino Guarin's Architectural Theory: The Case of San Gaetano in Vicenza       Practical Implementation of Strategies for Sustainable Construction Design-How to Manage Transformation within Engineering Practices         Angela Feldmann, Christoph Gengnagel, Daniel Pfanner       Structurally Innovative Vaults in Guarino Guarin's Architecture and Chinese Landscape Painting: A Study of Chen Chi-Kwan's Work Ning Tsai       Practical Implementation of Strategies for Sustainable Construction Design-How to Manage Transformation within Engineering Practices         Historical Review of Building Materials and Their Construction in Switzerland: Implications for Renovation Purposes Yasaman Yavaribajestani, Natalia Pieroni, Jacqueline Pauli       Evaluating adaptability in school architecture A Multi-raign Kunic, Roberto Nabori         Jobs Filgueiras Lima (Lelé): Memories Ganed Morales Sanchez, Elcio Gomes da Silva, Paulo Jorge Sousa Cruz       Seesment Criteria of Timber Construction Ibility Sandra Schuster, Stephan Birk	architectural design       cycle design       Crafting the Future of Sustainable Architecture- Circularity and Scaling         Dear N.       Chairs N.       Chairs N.         Luigi Moretti. Structure as form Jaime J. Ferret Forks       Chairs: Edyta Augustynowicz, Ronry Standtke, Katharina Lindenberg         Structurally Innovative Vaults in Guarino Case of San Gaetano in Vicenza Simen Dalen Taraldsen, Audun Fossum       Practical Implementation of Strategies for Sustainable Construction Design- for Sustainable Construction Sector- Investigations in analyzing wood market scenarios in Switzerland         Binen Dalen Taraldsen, Audun Fossum       Practical Implementation of Strategies for Sustainable Construction Design- for Sustainable Construction Sustain Stevik, Fortress Ardane Villas Mercado, Ethymia Patisou-Stachr, Tor Kristian Stevik, Fortress Ardane Villas Matericad. Peter Timo Bega, Jerome J. Mies, Simon Gehring         Joho Filgueiras Lina (Lelé): Memories Joaco File Conton In Switzerland Structures Indicators for Demountability. Sardra Schuster, Stephan Birk       Arting Labr Research: Technological Design for Circular Education and Invovat	Histories of structural and architectural design Chair: NN       Adaptability and life cycle design Chair: NN       MS-Wood in the Digital Age: Crafting the Future of Sustainable Architecture - Circularity and Scaling         Luigi Moreti. Structure as form Jame J. Ferrer Forés       The Circularity and Scaling       Chair: Structure as form Jame J. Ferrer Forés         Structurally Innovative Vaults in Guarino Guarinis Architectural Theory: The Case of San Gaetano in Vicenza Simen Dalen Taradsen, Audun Fossun       Practical Implementation of Strategies for Sustainable Construction Design- How to Manage Transformation within Engineering Practices Angele Feldmann, Christoph Gengnagel, Daniel Florner       Scaling the timber construction sector- Investigations in analyzing wood market scenarios in Switzerland Engles Feldmann, Christoph Gengnagel, Daniel Florner         Kuturally Innovative Vaults in Guarino Guero Chr. Kwan's Work Ning Tsai       Valuting adaptability in school archi- tecture. A Multi-criteria approach. Engles Feldmann, Christoph Gengnagel, Daniel Florner       Scaling the timber construction sector- tresting Andres Villas Mercado, Janine Schweier         Jaka Mercado, Jacobine Markatis, Analta Mercado, Jacine Schweier       Scaling the timber construction sector- tresting Analta Mercado, Jacine Schweier         Joak Fligueiras Lima (Lele): Memories Yasann Analta Matala Florni, Jacqueline Pawil       Scaling Composition Strategies Markating Alachaman, Theore Com- struction: Indicators or Demountability Sardra Schweier         Joak Fligueiras Lima (Lele): Memories Yasanna Paralis, Matalia Florni, Jacqueline Pawil       Scaling Composition Strategies Markating Alachaman, Theman Dirkoto Chame Comes di Silva, Paulo Joor	Histories of structural and architectural design       Adaptability and life cycle design       MS-Wood in the Digital Age: Crafting the Future of Sustainable Architecture - Circularity and Scaling         Drain NN       Cheirs NN       Cheirs NN         Luigi Moretti. Structure as form Jamma J. Farrer Fords       Cheirs Edyta Augustynowicz, Romy Standtae, Katherna Lindenberg         Structurally Innovative Mautis in Guarino Guardin Schelterure and Structure, Teories       Practical Implementation of Strategies for Sustainable Construction Design-H moto to Manage Fransformation without parts Angela Fedfmann, Christipa Gengnagel, Daniel Flanner       Standta Induction Strategies for Sustainable Construction Design-H moto to Manage Fransformation without parts Angela Fedfmann, Christipa Gengnagel, Daniel Flanner       Staling the timber construction sector- Investigations in analyzing wood market scaling the Image Complex Timber Const- tecture, Mutti Standt, Christian Stewk, Ethrym Ratson. Stewk, Tor Kristian Stewk, Ethroma Ratson, Aukamice M.J.Pelt, Timo Basendise Using Graph Algorithms Ardian Flandt, Aruja Kurin, Basendise Using Graph Algorithms Arusin Newtons in Wood Masture M.J.Pelt, Timo Basendise Using Graph Algorithms Arusin Ratson, Aukamin Periodoli Marka Ratson, Marina Biock, Marka Ratson, Marina Biock, Marka Ratson, Marina Biock, Marka Ratson Periodoli Marka Ratson Periodoli Marka Ratson Periodoli Marka Ratson Periodoli Marka Ratson	Histories of structural and architectural design Over NN       Adaptability and life cycle design Over NN       MS-Wood in the Digital Age: Crafting the Future of Sustainable Architectura - Circularity and Scaling         Luigh Moretti. Structure as form Jame J. Forrer Foreis       The Construction of Strategies for basic stainable Construction Design How to Manage Transformation within Agein J. Forrer Foreis       MS-Wood in the Digital Age: Crafting the Future of Sustainable Architecture - Circularity and Scaling         Luigh Moretti. Structure as form Jame J. Forrer Foreis       Practical Implementation of Strategies for basic structure and Scaling for the Sustainable Construction Design- tor to Manage Transformation within Agein Fathem. Christoph Genomale, Dariel Fathemer Christian genocht. 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