

Proceedings of

# WORLD CONFERENCE ON CONSTRUCTION & BUILDING TECHNOLOGY

May 13-14, 2024 | Barcelona, Spain

<https://buildtechweek.peopleevents.uk/>

# CONFERENCE PROGRAMME

DAY 1 - MAY 13, 2024

Hotel Catalonia Barcelona 505, Barcelona, Spain

08:00 - 08:30	<b>Registrations</b>
<b>Meeting Room: Tibidado</b>	
08:30 - 08:55	<b>Welcome Notes</b>
<b>Guest Talk</b>	
08:55 - 09:00	
<b>Plenary Forum</b>	
<b>Moderator</b>	<b>Juan S. Rocha, Prefabricados Ponce SL, Spain</b>
09:00 - 09:20	<b>Title: Is Geopolymer's Really More Environment Friendly Than Conventional Cement?</b>
	<i>Zhuguo Li, Yamaguchi University, Japan</i>
09:25 - 09:45	<b>Title: Aribau 195. Greening the city / Green cities /</b>
	<i>Sergi Carulla and Brian Gallagher, SCOB, Spain</i>
<b>Morning Session</b>	<b>Building Sustainable Future Cities   Future of Construction</b>
<b>Moderator</b>	<b>Alicia Alvarez, Universitat Oberta de Catalunya, Spain</b>
09:50 - 10:05	<b>Title: Net-Zero / Carbon Neutral Buildings Now</b>
	<i>Albert Bicol, Alberto Bicol Consulting Inc., Canada</i>
<b>Coffee Break 10:15 - 10:35 @ Foyer</b>	
10:35 - 10:50	<b>Title: Offsite Building Technologies: Steel Construction Systems</b>
	<i>Ignacio Polite, Manni Green Tech, Spain</i>
11:00 - 11:15	<b>Title: Breaking Boundaries: Innovating Project Design for Future Success</b>
	<i>German De la Torre, Nainoa/Cobar international/Unispace, Spain</i>
11:25 - 11:40	<b>Title: Building Tomorrow: Digitalize the construction industry with AI algorithms and Robotic</b>
	<i>Riccardo Pagani, BIMon S.r.l., Italy</i>
11:50 - 12:05	<b>Title: Digital twin for building management</b>
	<i>Eneritz Barreiro Sánchez, TECNALIA Research &amp; Innovation, Spain</i>
<b>Afternoon Session</b>	<b>Smart and Sustainable Construction   Resilient Building Design and Materials</b>
<b>Moderator</b>	<b>Juan Carlos Cabrero, Francisco de Vitoria University, Spain</b>
12:15 - 12:30	<b>Title: Building Performance</b>
	<i>Russell Gilchrist, Gensler, UK</i>
12:40 - 12:55	<b>Title: Energy Efficiency and Environmental Impact</b>
	<i>Asieh Mirafzali, BelkaBelka, Germany</i>
<b>Lunch Break 13:05 - 13:50 @ Hotel Restaurants</b>	

13:50-14:05	<b>Title: BIM methodology applied to structural analysis for the preservation of built heritage integral building de carbonization solution</b> Leonardo da Silveira Pirillo Inojosa, <i>University of Brasília, Brazil</i>
14:15-14:30	<b>Title: Shaping Spatial Paradigms in Construction</b> Aldo Sollazzo, <i>Company Noumena, Spain</i>
14:40-14:55	<b>Title: Digital strategies and challenges for a data-driven, early-stage EC quantification</b> Matteo Orsi, <i>Morris+Company, UK</i>
15:05-15:20	<b>Title: Smart and sustainable construction resiliente Building Design and materials</b> Jacinto Segui Mendez, <i>FINSA, Spain</i>
Evening Session	<b>Digital Transformation in Construction   Building Information Modeling</b>
Moderator	<b>Jerónimo van Schendel Erice, <i>Bildia, Spain</i></b>
15:30-15:45	<b>Title: The relocation of construction. The new paradigm faced by architects from all over the world</b> Rubén Navarro, <i>Casas inHAUS, Spain</i>
Coffee Break 15:55-16:15 @ Foyer	
16:15-16:30	<b>Title: The future is now: How automation is disrupting the project lifecycle today</b> Jaimie Johnston, <i>Bryden Wood, UK</i>
16:10-16:55	<b>Title: Genetic architecture: Innovation in Architecture trough genetic perspective</b> César Frías Enciso, <i>Morph Estudio, Spain</i>
17:05-17:20	<b>Title: Bildia: AI predictive modelling to estimate cost, cash flow and carbon footprint in construction and real estate projects</b> Jerónimo van Schendel Erice, <i>Madrid Metropolitan, Spain</i>
17:30-17:45	<b>Title: Digital Transformation at Heatherwick studio: A 10-year journey</b> Alfonso Monedero, <i>Heatherwick Studio, UK</i>
<b>End of Day 1 @ 18:00</b>	

## DAY 2 - MAY 14, 2024

08:30-09:00	<b>Registrations</b>
<b>Meeting Room: Tibidado</b>	
<b>Plenary Forum</b>	
Moderator	<b>Juan S. Rocha, Prefabricados Ponce S L, Spain</b>
09:00-09:20	<b>Title: Cities of Tomorrow: Trends Reshaping Our Urban Future</b> Maria Tasada, <i>Gensler, USA</i>
09:25-09:45	<b>Title: Designing low carbon Data Centres via Modern Methods of Construction</b> Pablo Gugel, <i>Bryden Wood, UK</i>
Morning Session	<b>Civil and Structural Engineering   Fabrication Engineering, Construction Process</b>
Moderator	<b>Sergio Pons Ribera, CESI, France</b>
09:50-10:05	<b>Title: The Changing World of U.S. Construction: A Long View</b> Mark Erlich, <i>Harvard Law School, USA</i>

10:15-10:30	<b>Title: A comparison of the use of traditional glazing and a novel Concentrated Photovoltaic Glazing (CoPVG) for building solar gain analysis using IESVE</b> Roma Chang, <i>Ulster University, UK</i>
<b>Coffee Break 10:40-11:00 @ Foyer</b>	
11:00-11:15	<b>Title: Strategies for Decarbonization of Construction through Offsite Construction and Automation</b> Diego Freire Coloma, <i>Zero Housing, Spain</i>
11:25-11:40	<b>Title: Is efficiency the right path to sustainability?</b> Dirk Krutke, <i>HCU Hafencity University Hamburg, Germany</i>
11:50-12:05	<b>Title: Simulation &amp; Optimization of Construction Planning using AI</b> Luis Martinez, <i>Frontline, Singapore</i>
Afternoon Session	<b>Data-Driven Construction: Predictive Modelling, and AI for Project Success</b>
Moderator	<b>Bárbara Recio Pelayo, Workplace Strategy Consultancy, Spain</b>
12:15-12:30	<b>Title: BIM for Construction, real case application</b> Claudio Vittori Antisari, <i>Strategie Digitali, Italy</i>
12:40-12:55	<b>Title: Landscape information management and sustainable development in architecture</b> Isabella Bhoan, <i>WW+P, UK</i>
<b>Lunch Break 13:05-13:50 @ Hotel Restaurants</b>	
13:50-14:05	<b>Title: J Selaras: A New Rationalization Model for Bill of Quantity (BQ) in Project Tendering Process</b> Mohd Nasir Saari, <i>Public Works Department of Malaysia, Malaysia</i>
14:15-14:30	<b>Title: Building Configurators: Automation and AI for Mass Customization</b> Cesar Fragachan, <i>Aalter.ai, UK</i>
14:40-14:55	<b>Title: The interaction between Data Visualisation and Golden Thread principles in Building Safety</b> Alozie Ohuonu, <i>London Borough of Camden, UK</i>
Evening Session	<b>Precast Construction Technology, Architectural Design and Planning</b>
Moderator	<b>Areti Markopoulou, IAAC Institute for Advanced Architecture of Catalonia, Spain</b>
15:05-15:20	<b>Title: Circularity as an ecosystem in the built environment</b> Kim Gault, <i>Cundall, UK</i>
15:30-15:45	<b>Title: Resource based engineering – Towards a circular construction industry</b> Mark van Ommen and Wouter Moorlag, <i>TNO, Netherlands</i>
<b>Coffee Break 16:00-16:20 @ Foyer</b>	
16:20-16:35	<b>Title: Still Room for the Architect?</b> Robert Kloosterman, <i>University of Amsterdam, Netherlands</i>
16:45-17:00	<b>Title: Performance study of displacement transducers for timber material under compression tests using photogrammetric approach</b> Ahmed Mohamed, <i>Edinburgh Napier University, UK</i>
17:00-17:15	<b>Title: Are Alpine Photovoltaic Systems too expensive?</b> Rudolf Rechsteiner, <i>ETH Zurich, Switzerland</i>
<b>End of Conference &amp; Closing Ceremony @ 17:30</b>	