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We are delighted to welcome you to the Future of Design 2024; a conference for young designers and engineers aimed at promoting design and inspiring future generations.

The conference is organised by the International Association for Bridge and Structural Engineering (IABSE) British Group. This is the nineteenth UK Young Engineers' Conference organised by IABSE.

This event is a unique platform for networking and to be inspired by the leading figures in the design world. It will include presentations on current cutting-edge designs as well as discussions about the future challenges of our profession.

The Young Designers (35 years or under) paper competition will be held during the conference for short-listed entries. Prizes for the best presentations will be awarded to the young participants.

Additionally, shortlisted Design Competition poster entries will be on display during the conference.

Organising Committee

IABSE Future of Design, Manchester 2024



Welcome to the Future of Design. We have returned to Manchester, having been here first in 2015. We are delighted to be back, and excited to have you with us. Welcome!

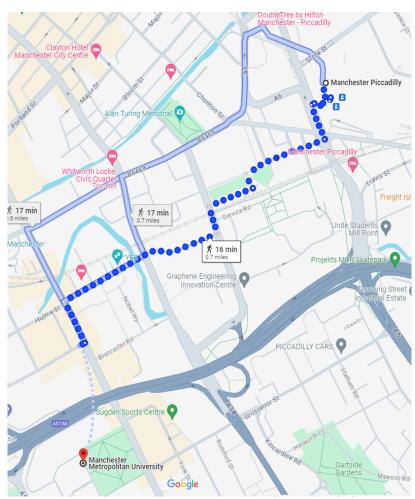
This event continues to grow and attract young enthusiastic designers, engineers and entrepreneurs from all over the UK. In fact, ever since it was established in London by the British Group of IABSE back in 2012, the Future of Design conference has been making waves and spawning copies around the world in other National Groups of IABSE.

The Future of Design provides a unique platform for networking and is an opportunity to be inspired by some of the leading figures in the world of engineering, architecture, design and research. Here today, and through all our events at IABSE, there is lots of scope to engage in discussions on matters affecting the future direction of our profession and the challenges facing designers in a rapidly changing world. And never has the world of construction faced bigger challenges than we do right now. The world is in the throes of a climate emergency such as has never been seen before, and it is the next generation of engineers and designers - ie. you! - who will need to find solutions to the huge challenges we face. And this is a great place to start by getting involved with IABSE. IABSE is the International Association for Bridge and Structural Engineering, and as the name implies, we are a truly international organisation, with members all over the world engaged in all aspects of engineering for the built environment. We hold conferences, seminars, workshops, site visits and countless other events, as well as producing world class and highly respected journals and publications. The British Group is very active, and we warmly encourage you to join us and engage in what is a most enjoyable, stimulating and rewarding professional network. We are building a community of like-minded, passionate and ambitious young professionals keen to make a difference in the world we construct around us. If that sounds like you, then IABSE is the place to be. To find out more, speak to me today, visit www.iabse.org.uk or email the Honorary Secretary of the British Group, mark.bulmer@aecom.com.

I hope that you thoroughly enjoy the day and go away inspired and excited by the opportunities and developments in the world of design and engineering structures.

David KnightChairman, British Group
of IABSE

MAP to Manchester Metropolitan University from Manchester Piccadilly Station





TIME	EVENT	SPEAKER/HOST	DETAILS
09:00	Arrival	Organising Committee	Delegates arive, registration, refreshments, networking
09:30	Opening Address	Mark Bulmer	
09:40	Session 1		
09:40	Speaker 1	Jonny Yusuf	DYSE
10:10	Speaker 2	Trish Johnson	Clifton Suspension Bridge Master
10:40	Morning Break		Tea and coffee refreshments provided
11:10	Session 2		
11:10	Speaker 3	Eoin Casserly	Voluta
11:40	Speaker 4	David Wiggins	Clach Conservation
12:10	Lunch Break		Hot fork buffet provided
13:10	Session 3		
13:10	Paper Competition	David Knight	Paper competition presentations and votes (audience and panel)
13:40	Speaker 5	Clotilde Robin	Expedition
14:10	Speaker 6	Laura Langridge	Knight Architects
14:40	Afternoon Break		Tea and coffee refreshments provided
15:10	Session 4		
15:10	Speaker 7	Mark Bulmer	AECOM
15:40	Speaker 8	Darren Paine	(dp) ²
16:10	Debate/Discusion	LL, JY, CR, EC	Panel debate/discussion talk. Net-Zero challenges in the industry
16:50	Closing Address	David Knight	
Post 17:00	Networking drinks event		Free drink with event ticket at a local venue



Trish Johnson // Clifton Suspension Bridge Master

Trish Johnson is a chartered Civil Engineer and Fellow of the Institution of Civil Engineers (ICE). She has been involved in various aspects of engineering throughout her career. She has worked in a Consultancy practice managing a number of Highways and Transportation offices, promoted Civil Engineering as Regional Director for the ICE, and maintained bridges as Head of Maintenance at the Severn River Crossing.

Seven years ago, she took up the enviable role of Bridge Master on the Clifton Suspension Bridge. This high-profile role covers the major projects and maintenance of the bridge, the managing of the business including the visitor centre and the engagement with the public and Trustees. She is a keen advocate of engineering and sits on the University of the West of England Advisory Board for Civil Engineering and is a 'Women Like Me' Mentor.



Clotilde Robin // Expedition

Clotilde is an enthusiastic, highly skilled chartered civil engineer with 18 years' experience, specialising in bridge design.

She has started her career in Paris, working with Pritzer prize architects on complex buildings (Cite Musicale, High Court in Paris) or developing her skills on bridge designs (Third Bosphorus bridge, Brazzaville cable-stayed bridge or Dunkirk footbridge). She is now well settled in the UK with many years of experience with COWI before joining Expedition.

She is passionate about making a positive impact, through new designs or repair works. She is always keen in sharing knowledge within industry groups such as the Net Zero Bridges Group or by teaching and speaking to young people.



Eoin Casserly // Voluta

Eoin Casserly leads VOLUTA, a specialist structural engineering consultancy operating internationally, based in the West of Ireland. Previously, he held structural engineering positions in Paris, New York, and Stuttgart. He has designed advanced structures such as gridshells, cable nets, facades, stadia, and artworks in over 20 countries, working through six languages. Project highlights include the highest outdoor observation deck in the world, the world's first cable net with curved glass, the largest-spanning glazed roof in South America, and gridshells for the largest botanic garden in the world.

He is a regular contributor to books, conferences, and journals, with a focus on glass structures, complex facades, long-span structures, and the architectural response to the climate crisis. He also lectures at ATU in Structures, Computational Design, and Advanced Technologies. His current research combines pre-industrial materials with innovative construction and analysis techniques. He is the recipient of the 2023 Chartered Engineer of the Year Award from Engineers Ireland.



Laura Langridge // Knight Architects

An Associate at Knight Architects, Laura has extensive experience leading the architectural design of bridges and infrastructure. She is skilled in collaborating with multidisciplinary teams on projects that range in scale from nationally significant infrastructure schemes to small-scale community-focused bridges, both in the UK and internationally.

She is passionate about people-centred design and believes design and empathy go hand-in-hand, allowing her to facilitate positive and meaningful stakeholder engagement processes. Adept at designing within challenging and sensitive contexts, her skills allow her to contribute to sustainable projects that have a lasting and positive contribution to local communities and users.

She graduated with a degree in Architecture from TU Delft in the Netherlands in 2016, where her graduation project won a prestigious honourable mention at the Architects Netherlands. She is registered with the RIBA and the Architects Registration Bureau in the Netherlands.



Jonny Yusuf // DYSE

Jonny has a diverse experience in building design, both old and new. He has successfully delivered projects of varying forms and materials from small artisan projects to multi-million pound schemes. He also works with contractors and developers in the strategising, design and implementation of temporary works.

Jonny is passionate about contemporary architecture and believes architecture should be accessible for everyone. He relishes the opportunity to contribute early in the design process, firmly believing a collaborative process results in good design.

Jonny is a Chartered Structural Engineer and lectures at The University of Manchester. He is a past chair of the Institution of Structural Engineers (IStructE) regional group and an elected IStructE council member. He is also a member of the International Association of Bridge and Structural Engineering (IABSE). Jonny is a founding director of DYSE.



David Wiggins // Clach Conservation

David is passionate about keeping old masonry buildings standing up. He has a doctorate in the technical conservation of heritage masonry, is a CARE-Accredited structural engineer, and director of Clach Conservation Engineering. His work focuses on the structural repair and conservation of architectural and civil engineering heritage. Current convenor of the Building Limes Forum, David remains actively involved in research & development in the field of technical masonry conservation.



Darren Paine // (dp)²

Darren is a Director of DP Squared Ltd based in the South Pennine Town of Hebden Bridge and a Principal of Desimone Consulting Engineers UK Ltd. His focus is on design as a process and how the refinement in engineering design can drive an economic, sustainable and efficient solution.

With over 35 years of experience in the construction industry he has worked on all types of buildings and structures. His main area of expertise is:

- Tall Buildings in Reinforced Concrete. Darren's expertise is in building analysis and dynamics for both vertical and horizontal accelerations.
- Retrofit from listed historic buildings to refurbishing offices from the past 50 years it is imperative we minimise our carbon footprint and balance building new with building smart and using existing building stock and materials where we can.
- Sculptures and Public Artworks working with sculptors and artists across the UK we have provided innovative structural solutions to create some of the largest sculptures in the UK.



Mark Bulmer // AECOM

Mark is a director for AECOM who leads and manages bridge projects in the UK and overseas. Mark worked for bridge contractors in the 1990s before joining AECOM in 2001.

Mark is experienced in leading design teams, construction engineering, inspection, rehabilitation, and design of large structures with particular expertise in suspension bridges and has been involved in over 40 suspension bridges throughout his career.