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ACKNOWLEDGEMENT OF COUNTRY

→ *We acknowledge the Traditional Owners of the Land on which we gather today.*

The Gadigal People of the Euora Nation

We pay respect to the Elders both past and present, acknowledging them as the traditional custodians of knowledge for this land.

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2018 LSAA CONFERENCE & DESIGN AWARDS

→ In the modern world, progress is fast. Exciting new opportunities and revolutions in buildings lie around every corner. New ideas in design and sustainability will shape us and our buildings as we go into the future.

Over the next two days, Innovate into the Future will explore the expanding frontiers of architecture and engineering in lightweight structures. It will both examine the changing ideas and concepts in the field over the years, whilst looking forward to what the future holds.

The conference will show off some of the innovations that will lie at the centre of tomorrow's world. Cutting edge modern designs and concepts will be highlighted, illustrating design challenges and solutions. These will be combined with workshops that leave delegates with a hands-on perspective of these revolutionary ideas.

For the very first time, reflecting the increasingly interdisciplinary world around us, expert knowledge from other disciplines will be brought to the forefront, showing how new innovations from outside the lightweight structures field can now be used to inform and shape the road ahead.

Set against the iconic backdrop of Jørn Utzon's architectural masterpiece, the Sydney Opera House, so ahead of its time that techniques needed to be invented to enable its construction, the conference aims to fulfil the same spirit of innovation and technological advancement. It promises to be an exciting, unmissable opportunity for delegates to discover through presentations and workshops what tomorrow's world of lightweight structures will look like and meet some of the key players shaping it.



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EVENT PROGRAM		
DAY 1 THU 25 OCT. 2018		
START	SESSION / ACTIVITY / PRESENTATION	SPEAKER / CHAIR
08:00	REGISTRATIONS	
DAY 1 KEYNOTE ADDRESS		
09:30	CONFERENCE WELCOME	LSAA & UTS
09:30	PLATINUM SPONSOR WELCOME	Sergio Ferrari
09:40	THE BOX THAT CAN CHANGE THE WORLD	Knut Stockhusen (sbp)
10:30	MORNING TEA	
FIRE & DESIGN COMPLIANCE		
11:00	RE PROSPECTIVE REVIEW OF INTERNATIONAL FIRE TEST REQUIREMENTS PVC/PES & PTFE/GLASS FABRICS	Michael Luster (MackMax Australia)
11:20	BUILDING CODE & STATE LEGISLATION CHANGES ON COMBUSTIBLE FACADE AND IMPLICATIONS FOR MATERIAL LIKE PTFE/GLASS AND PVC/PES	Alistair Morrison (Anup)
11:40	PANEL DISCUSSION ON FIRE & ARCHITECTURAL FABRICS	TBC
12:00	LUNCH	
PROJECT FOCUS		
13:00	GOLD SPONSOR 1 WELCOME	Gale Pacific
13:40	WESTERN SYDNEY STADIUM	Joseph Proetto (Aurecon)
13:30	VENICE BIENNALE 2018 - ART / ARCHITECTURE / ENGINEERING	James Marr (Tensaj)
13:50	CASE STUDIES FOR RETRACTABLE STADIUM ROOFS	Marin Jenni (Pfeifer Gsch&H)
14:10	HOVA - THE ART CENTRE GOLD COAST	Scott Rathke (Anup)
14:30	ALIGHTWEIGHT CASCADE GUTTER SYSTEM WITH TRANSLUCENT SKYLIGHT DOME	Tom Westcott (Altrasso Shade)
14:50	CHALLENGING THE BOUNDARIES	Jane Nixon (Anup)
15:05	QUESTIONS FOR SESSION SPEAKERS	
15:20	STUDIO DESIGN WORKSHOP INFORMATION AND TEAM ASSIGNMENTS	Dr Peter Kneen (LSAA) Paula Vignetti (UTS)
AFTERNOON TEA PUBLIC LECTURE REGISTRATIONS		
PUBLIC LECTURE		
16:15	WELCOME TO PUBLIC AND BRIEF INTRODUCTION TO LSAA AND SESSION	LSAA
16:30	PUBLIC KEYNOTE LECTURE HEAVENS TOMORROW	Knut Stockhusen (sbp)
17:30	QUESTIONS	
19:00 for 18:30 (TBC)	FIRE - DINNER DRINKS & DESIGN AWARDS CONFERENCE DINNER Honor (TBC) Dress Code: Jacket and tie suggested. Dinner Address by Professor Francesca Hughes (Honor UTS Architecture) Master of Ceremonies Joseph Deen (LSAA)	
Lightweight Structures Association Australia		
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DAY 2 FRI 26 OCT. 2018		
START	SESSION / ACTIVITY / PRESENTATION	AUTHOR / CHAIR
08:30	REGISTRATION & NETWORKING	
DAY 2 KEYNOTE ADDRESS		
09:30	CONFERENCE DAY 2 WELCOME	
09:40	STADIUM OF TOMORROW	Chris Patterson (Populous)
10:30	MORNING TEA	
TRANSFORMATIVE TECHNOLOGIES & CHALLENGES		
11:00	GOLD SPONSOR WELCOME	Rosalan Terzilo Architecture
11:10	BUILDING CASE STUDIES IN FORM FINDING, ANALYSIS AND STANDARDISATION TECHNIQUES USING RHINO GRASSHOPPER	Alex Lewis (Icon) & Elizabeth Nui (The NRA Collaborative)
11:30	COMPUTATIONAL DESIGN AND ROBOTIC 3D PRINTING OF LIGHTWEIGHT CABLE NET STRUCTURES	Dr Tim Schenk (UTS)
11:50	CHANGING THE FUTURE WORKSPACES - ROBOTICS CARBON FIBRE THREADING FOR A DATA INTEGRATED LIGHTWEIGHT CEILING STRUCTURE	Dr Dagmar Fleischer (University of Sydney)
12:10	LIGHTWEIGHT CONCRETE REDUCED FORMWORK, INCREASED FORM	David Pignam (UTS)
12:30	QUESTIONS FOR SESSION SPEAKERS	
12:40	LUNCH	
DESIGN STUDIO WORKSHOP		
14:00 - 16:30	STUDIO DESIGN WORKSHOP 1 Computational Design Study workshop using Grasshopper to develop and translate form studies against design criteria and rationalise into standardised building components (guided design exercise by Alex Lewis & Elizabeth Nui)	
1	STUDIO DESIGN WORKSHOP 2 Hands on model making workshop covering general principles of Form finding tension structure physical models	
2	Origins of folded plate paper model structures	
16:30	WORKSHOP Q & A	
16:40	CONFERENCE CLOSE	LSAA & UTS
LSAA 2018 Innovate into the Future Conference Coordinators		
E. office@lsaa.org T + 61 428 414 093		

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KEYNOTE SPEAKER

→ **Knut Stockhusen**

Knut Stockhusen (born in 1974 in Waiblingen, Germany) is a structural engineer and partner / managing director at schlaich bergemann partner (sbp), an internationally renowned structural engineering and consulting firm based in Stuttgart, Germany.


Knut graduated from University of Stuttgart in 1999 and began working at sbp in 2000. As a project manager and team leader, he successfully supervised a great number of large scale, long span high rise and sport projects.

In 2008, Knut founded sbp Latin America in São Paulo, expanding the international sbp network. He was appointed partner and managing director of sbp in 2015. Today, Knut develops and manages diverse projects and supports design partners and clients all over the world. Maintaining a hands-on approach that goes beyond structural engineering, he likes to be involved throughout the whole process of his projects, from the early project development phase to detailed design, site monitoring, delivery and handover.

With numerous stadium structures during his career, Knut has shown his ability of not only designing architecturally and aesthetically pleasing projects but also efficient and therefore affordable structures. Especially mentionable are the design projects of soccer stadia for FIFA World Cups and UEFA European Championships he led over the last years, giving him invaluable experience in this area.

At present, he is involved in four stadium projects for the 2022 FIFA World Cup in Qatar. Knut's work has earned him numerous awards both in Germany and internationally, as most recently for the Wanda Metropolitan Stadium (Spain), the Arena da Amazônia and the Stadium Maracanã (both in Brazil).

He enjoys sharing knowledge and frequently lectures on structural engineering.



Lightweight Structures Association Australia

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KEYNOTE SPEAKER

→ Chris Paterson

Chris is a Director of the Populous Asia Pacific region. He is a Senior Principal with over 20 years' experience in large scale highly specialised buildings that make their mark on a city, including high profile sports projects in Australia and New Zealand such as the award winning Suncorp Stadium, Eden Park Redevelopment, Metricon Stadium, Perth Major Stadium PDP and KL Sports City.

Chris is committed to strong project leadership, pro-active and responsive client relations, and the cultivation of dedicated project teams, all key to his reputation for driving the best possible project delivery. This commitment is framed by his ongoing dedication to thoughtful and inventive high quality design and his demonstrated passion for thought and personal leadership.

Chris has a keen interest in high quality design and environmentally sustainable design. He is also highly experienced in the project delivery process and is committed to providing the best outcomes for clients.

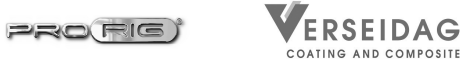


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