

CONNECTING TO TOMORROW

CONFERENCE THEME

In the modern world of lightweight structures, we often find ourselves at the crossroads of architectural trends. Digital transformation offers us ground-breaking pathways to innovate on novel platforms in strange new ways, with the rise of AI asking us to rethink all we knew. A climate-crisis-driven focus on sustainability has asked us to consider our impact on the world around us through smart materials and biophilic urbanism. And new human-centric approaches to our fields have offered up frameworks spanning vast disciplinary bounds to tackle our world's most pressing problems.

Today's world must seize hold of all these new trends. Held on September 12 and 13 in Melbourne Australia, the LSAA 2024 Conference and Design Awards will spearhead the industry's approach to all these vital challenges under the banner of *'Connecting to Tomorrow'*.

The theme seeks to encompass all the connections that will make up tomorrow's lightweight structures fields – connections to technology, to environment and to each other. Featuring the world leaders in the field of lightweight structures, this conference stands at an inflection point, seizing the vast opportunity to deal with these crucial issues as we build tomorrow's world, today.

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DAY 1, Thursday 12th September 2024

AMDC301 (Lecture Hall), Advanced Manufacturing & Design Centre, Level 3,
Hawthorn Campus, 453 Burwood Road, Hawthorn Victoria

Start	Session: Activity, Presentation	Speaker / Chair
08.00	Registrations	
S1D1	Day 1 Keynote Address	Chair – P Lim
09.20	Conference Welcome	LSAA (P Lim – President) & Swinburne Uni (Prof Blair Kuys - Dean School of Design & Architecture)
09.30	Platinum Sponsor Welcome	
09.35	Contextualisation through Structure and Design	Alastair Richardson – Cox Architecture
10.30	Morning Tea	
S2D1	Challenges	Chair – Dr P Kneen
11.00	Pathways towards zero carbon for tension membrane architecture (via zoom)	Bruce Danziger (Danziger Engineering Collaborative Inc)
11.30	Evolution of Ken Rosewall Arena, Sydney	Jane Nixon (Arup)
11.55	The journey and tools of parametric design and detailing	James Marr (Tensys)
12.20	Lunch & Networking	Sky Lounge
S3D1	Project Focus	Chair – R Cahill
13.30	Gold Sponsor Welcome	
13.35	Surbana Jurong, Singapore – synthesis of architecture and engineering	Rowan Murray (Ronstan) & Angus Macleod (VF)
14.00	Te Kaha Stadium, Christchurch, NZ	Rafael Guedez (Fabritecture)
14.25	Collaborating for project success - Trinity Point Marina, Lake Macquarie Project, NSW	Tom Gastin (Pattons)
14.50	The Link @ Langley Park, Western Australia	Martin Eddleston (MakMax)

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Start	Session: Activity, Presentation	Speaker / Chair
15.15	Afternoon Tea	
S4D1	Student Competition Award	Chair – Dr S Colabella
15.45	Student Competition Sponsor Welcome	
15.50	Student Competition Jury Review	Prof Mark Burry AO/ Prof Roland Snooks / Prof Brendon McNiven
16.10	Team 01 Presentation - Winner	Swinburne/RMIT/UoM
16.25	Team 02 Presentation	Swinburne/RMIT/UoM
16.40	Team 03 Presentation	Swinburne/RMIT/UoM
16.55	Break	
S5D1	Workshop 01	Chair – Dr P Kneen
17.00	Embodied carbon assessment calculation workshop	Bruce Danziger (Danziger Engineering Collaborative Inc)
17,30	`Close Day 01	

Pre-dinner drinks & Design Awards Conference Dinner

Dress Code: Smart Casual

Venue – Sky Lounge AMDC Building

Time - 6.30pm for 7.00pm

Welcome

Peter Lim (President -LSAA)

Professor Blair Kuys (Dean School of Design & Architecture)

Professor Emad Gad (Dean School of Engineering)

Dinner Address by

Professor Mark Burry AO (Swinburne Smart Cities Research Institute)

Master of Ceremonies

(Robert Cahill LSAA & Dr Sofia Colabella)

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DAY 2, Friday 13th September 2024

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Hawthorn Campus, 453 Burwood Road, Hawthorn Victoria

Start	Session: Activity, Presentation	Author / Chair
08.30	Registration & Networking	
S1D2	Day 2 Keynote Address	Chair – P Lim
09.25	Conference Day 2 Welcome	LSAA (P Lim – President) & Swinburne Uni (Prof Emad Gad Dean School of Engineering)
09.35	The Art of Living Lightly	Rachaporn Choochuey Design Director of all(zone) & Visiting Professor at Columbia University Graduate School of Architecture, Planning and Preservation, USA
10.30	Morning Tea	
S2D2	New Approaches	Chair – R Murray
11.00	Gold Sponsor Welcome	
11.05	Cross Disciplinary	Dr Leanne Zilka & Dr Jenny Underwood (RMIT)
11.30	? The shading of One Barangaroo Sydney	Oliver Turner (Climate Engineering Company)
12.00	We can measure more accurately while saving time and money (Caroline Bay Sound Shell, NZ)	Andrew Lingman – Baytex NZ
12.25	Lunch & Networking	Sky Lounge
S2D3	Research & Development	Chair – Dr D Prohasky
13.30	?AI + sustainability (DP to confirm)	? Swinburne ARCH Manu (DP to confirm)
13.55	Collaboration Scenarios between Architects and Artificial Intelligence	Dr Alberto Pugnale (UoM)
14.20	? Title	Prof Roland Snook & Dr Nic Bao (RMIT)
14.45	BioHavens: Open Research Questions in Structural Innovation for Urban Biodiversity	Dr Stanislav Roudavski (UoM)
15.10	Afternoon Tea	
15.40	Tour of Swinburne Laboratories – Digital Construction Lab Trimble Lab Prototype Lab	1 hour tour
16.50	Conference Close	LSAA & Swinburne