



**LSAA 2009 Conference and Design Awards**  
“Technology and Sustainability Applications in Lightweight Structures”

A two day Conference which highlights the advances and practical use of new technologies, materials and sustainability principles for Lightweight Structures.

Thursday/Friday October 29/30 2009

The Arts Centre  
100 St Kilda Road, Melbourne, Victoria

Website: <http://www.lsa.org>

Our invited International Speaker is Prof Ian Liddell. Ian is a founder of the respected firm of Buro Happold in the UK. Amongst a raft of completed impressive lightweight structures around the world, perhaps the most well known that Ian designed is the Millennium Dome.

We are also privileged to have two outstanding local Architects agree to give keynote presentations. Daryl Jackson and Patrick Ness are well known to the Melbourne fraternity with a swag of completed projects and current work in the area of lightweight structures and stadia.

LSAA 2009 is supported by:



## CONFERENCE PROGRAM – DAY 1, Thursday October 29 2009 Major Sponsor Ferrari

# FERRARI



Start	End	Paper	Session: Theme, Activity – Presentation Title	Author / Chair
8.30	9.00		<b>Registrations</b>	
			<b>S1 Conference Welcome, Opening, Keynote</b>	<b>Peter Lim</b>
9.00	9.10		Conference Welcome & Opening	Kourosh Kayvani LSAA
9.10	10.00	S1A	Keynote Address: Lightweight Structures	<b>Daryl Jackson</b>
10.00	10.25		<b>Morning Tea / Networking</b>	
			<b>S2 Sustainability Issues</b>	<b>Joseph Dean</b>
10.25	10.50	S2A	LEED Benchmarking for Lightweight Structures.	Malcolm Barr Arup
10.50	11.15	S2B	Sustainable Lightweight Facade Systems	Beres Dowdle Aurecon
11.15	11.40	S2C	PVC Composites: Life Cycle Analysis & Recycling including an Australian Case Study.	Francoise Fournier - Ferrari S.A, Ian Knox – Innova International
11.40	12.05	S2D	The industry commitment to environmental responsibility and sustainability for textile architecture materials	P. Giugliano Mehler Technologies
12.05	12.15	S2E	Recycling Overview for Textiles	Kerryn Caulfield TTNA
12.15	13.00		<b>Lunch / Networking</b>	
			<b>S3 New Material Development &amp; Applications</b>	<b>Ian Knox</b>
13.00	13.25	S3A	Innovative Fabrics for Architectural Structures	Bob Cahill - Hiraoka
13.25	13.50	S3B	Case study of duraskin® Glass/PTFE fabrics for permanent façade application	Murat Devecioglu Verseidag - Indutex
13.50	14.15	S3C	Thermal Performance – Low E Membranes – Evaluation and Simulation.	Francoise Fournier - Ferrari S.A
14.15	14.40	S3D	Adelaide BMW Redevelopment – Cable Net Glass Facade	N Tsoukalas – Aurecon Adelaide
14.40	15.00	S3E	"The Farm" - Anish Kapoor (Tension Membrane Sculpture)	Harry Kleyn – Structurflex
15.00	15.25	S3F	Interior Architecture- Taking Tensile Textiles into New Spaces	Chris Arkell - Innova Int.
15.25	16.15		<b>Afternoon Tea / Registration for Public Lecture</b>	
			<b>S4 Public Lectures: Lightweight Structures</b>	<b>Kourosh Kayvani</b>
16.15	16.30	S4A	Update on LSAA Activities 2007-2009	Kourosh Kayvani
16.30	17.30	S4B	Keynote: Lightweight Structures Past, Present and Future	<b>Prof Ian Liddell</b>
			<b>Pre Dinner Drinks &amp; Design Awards</b>	
19.00	19.30		Pre Dinner Drinks (Full & Dinner registrations only)	
19.30	23.00	S4C	Conference Dinner and Design Awards	

## CONFERENCE PROGRAM – DAY 2, Friday October 30 2009

### Major Sponsor Hiraoka



Start	End	Paper	Session: Theme, Activity – Presentation Title	Author / Chair
<b>S5 Friday Keynote Session</b>				
9.00	9.45	S5A	Keynote Address	<b>Kourosh Kayvani</b> <b>Patrick Ness</b>
9.45	10.10	S5B	Singapore Sports Hub	Peter Bowtell - Arup
10.10	10.40	<b>Morning Tea / Networking</b>		
<b>S6 New Projects</b>				
10.40	11.00	S6A	ANU's New 500 m <sup>2</sup> Paraboloidal Dish Solar Concentrator	<b>Brian O'Flaherty</b> Greg Burgess- ANU
11.00	11.20	S6B	Mildura Performance Venue - Concept to Opening	James Marr - Tensys
11.20	11.40	S6C	Lighter than Air Structures	Peter Lim - Tensys
11.40	12.00	S6D	The Amazon Waterlily Pavilion, Botanic Gardens Adelaide	Niko Tsoukalas - Aurecon
12.00	12.15	S6E	Tensile Facades – Realizing the Living Machine	Rowan Murray – Ronstan Tensile Architecture
12.15	13.15	<b>Lunch / Networking</b>		
<b>S7 Technology Tools and Standards</b>				
13.15	13.40	S7A	Towards Minimum Design Standards for Fabric Structures	<b>Peter Kneen</b> Joseph Dean
13.40	14.00	S7B	Fabric Structures in Australia – Growing our Industry through Technology	Alan Stewart & Steve Huppert – Structureflex Pacific
14.00	14.20	S7C	Mehler Tensile Draw Package	Palo Giugliano
14.20	14.35	S7D	Optimizing Tensile Membrane Design utilizing CFD	Trevor Scott - LWSAS
14.35	14.50	S7E	Resources for Developing Effective Shade	Dimity Gannon - Cancer Council Vic
14.50	15.20	<b>Afternoon Tea / Networking</b>		
<b>S8 LSAA Member Project Reports</b>				
15.20	16.15	S8A	LSAA Member Project Reports	<b>Peter Kneen</b> Various
16.15	17.00	S8B	Panel: Industry Issues – Standards, Recycling	Various
<b>Closure</b>				Kourosh Kayvani

### Exhibitors

- Nolan UDA
- Structureflex Pacific
- Pro-Knit
- Halifax