



LSAA 2006 Symposium

Life Begins at 25

A half day Symposium to celebrate the first 25 years for the Lightweight Structures Association of Australasia

Thursday November 16 2006

12.00 – 17.00

Star Room Function Centre
IMAX Theatre, Darling Harbour, Sydney

About the LSAA

The Lightweight Structures Association is an autonomous, interdisciplinary group of interested parties involved in the field of lightweight structures with the basic aim of promoting the proper application of lightweight structures, their design, fabrication, construction and materials, and the development of these and other aspects particular to lightweight structures.

Typical lightweight structures include cable-, membrane-, shell-, and folded structures as well as space grids, braced vaults and domes, arched-, stayed-and trussed systems. Membrane materials are commonly PVC-coated polyester fabrics as well as PTFE coated glass.

Lightweight structures are widely employed in architecture, engineering and building construction and find application in long span roofs for stadiums and exhibition structures; covered shopping malls; entrance structures; signature structures and sculptures as well as shade and environmental protection canopies.

While it is difficult to assign a single all-encompassing definition, the following description should suffice: *"A lightweight structure can be termed as such, when, regardless of the type of material employed, the shape of the structure is determined through an optimisation process to efficiently carry the loads from a critical loading case."*

Normally the self weight of the structure is a small portion of the applied load or generated forces. Lightweight structures often utilise lightweight and high-strength materials as well as advanced technologies for their design and construction. For many forms, the surface is prestressed and this results in doubly curved shapes requiring specialized cutting patterns and care during erection. They are recognised for their aesthetic appearance and their innovative character.

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

Program

12 noon	LSAA AGM
12:30pm	Luncheon
1:00pm	Registration
1:30pm	Welcome and Introduction LSAA President: Kourosh Kayvani
1:35pm	Luncheon Sponsors – Welcome
1:40pm	Keynote Address – Croz Crosling - Associate, Nicholas Grimshaw & Partners. Southern Cross Station & other recent Grimshaw projects
2:25pm	Challenges and Solutions for Lightweight Cable Structures Nico Willman, Pfeifer
2:50pm	Grand Pavilion Royal Melbourne Showgrounds Peter Lim, Tensys Engineers
3:15pm	Afternoon Tea
3:45pm	The New LSAA and 2006/07 agenda Peter Kneen – LSAA Exec Officer
3:55pm	Khalifa Stadium Peter Macdonald, Arup
4:20pm	Summary of Recent Projects David McCready
4:40pm	Fabrics – The Issues. A panel discussion on changes in fire regulations with respect to structural fabrics, the role of fabrics in sustainable and ecological green designs, and new fabric directions and developments. Peter Lim – Chair
5:00pm	Closure: LSAA President
7:00pm	Pre-dinner drinks

LSAA Objectives

The objectives of the Association are:

- To establish itself as a reference body on lightweight structures.
- To collect and disseminate information in the field of its members, encouraging the exchange of information between members and those interested, through publications and the organisation of meetings, seminars and conferences.
- To promote the proper application of lightweight structures.
- To contribute towards implementation of suitable guidelines for the design, analysis, fabrication, construction and application of lightweight structures.
- To encourage research and development in the field.
- To maintain links with international institutions and groups to update technology and information.
- To promote the services and products of the members.

LSAA Membership Categories

Company Membership

- Architectural, engineering or designing consultant companies
- Fabricators and specialist contractors
- Material manufacturers and suppliers
- Federal, state and local government departments.

Individual Membership

- Individual architects
- Individual engineers
- Individual employees from government departments
- Researchers and educators
- Other interested individuals including users and owners.

Student membership

Students of architecture, engineering or associated disciplines who are currently enrolled in a tertiary teaching institution.

For membership application forms please visit the website <http://www.lsaa.org>



LSAA Publications

Papers from most previous symposiums are available as PDF files for members including the following LSAA meetings: 2002 (Melbourne), 2001 (Sydney), 2000 (Auckland), 1998 (Sydney), 1997 (Melbourne), 1996 (Brisbane), 1994 (Sydney)

MSAA meetings include 1993 (Auckland), 1991 (Adelaide), 1990 (Melbourne), 1989 (Canberra), 1988 (Gold Coast), 1985 (Brisbane), 1984 (Melbourne), 1983 (Melbourne)

More information given at the Symposium

Projects

The Grand Pavilion with 10,240 sqm of fabric area is the largest tensile structure of its type in Australia, and one of the largest in the world. The 25m high Pavilion is at the heart of the redeveloped Royal Melbourne Showgrounds

Learn about the challenges of developing a solution to design, manufacture and construction of the Grand Pavilion and other projects, including the renown Southern Cross Station, the Khalifa Stadium and other International and Australian projects. Take part in a panel discussion where developments and issues with modern fabric materials

LSAA 2006 Symposium Registration

Star Room Function Centre, IMAX Theatre, Sydney.

November 16 2006 from 12 noon (AGM)

Registration Fees

Covers Presentations, Lunch and Afternoon tea.

- Individual registration \$100
- Additional attendees \$ 80
- Students (ID to be supplied, No Lunch) \$ 20

Please complete the following and return with payment to *(Cheque made out to LSAA)*

Rowan Murray – LSAA Secretary

c/- Ronstan International Pty Ltd

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Name(s): _____

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Registration [] Individual [] Extra [] Student

Total Amount enclosed: A\$ _____