

The Lightweight Structures Association of Australasia in conjunction with Engineers Australia

Invite you to attend a Pre-conference Technical Seminar



Design of Tension Shadecloth Shade Structures

Wednesday October 12 2011 from 10.00am – 5.00pm

Venue - Novotel Hotel

Sydney Olympic Park

Phone: (02) 8762 1111 Web: www.novotelsydneyolympicpark.com.au

Cost: \$250

Tensioned membrane structures have become an important structural form for both large span roof structures as well as for smaller covered areas which also serve as an architectural statement. This seminar is an opportunity to learn about the basic structural design parameters, material selection, fabrication and erection techniques.

A particular focus of the seminar will be design factors, fabrication details, shade prediction and maintenance of smaller shade structures made from knitted porous shade-cloth with applications to providing shade to schools, playgrounds, car parking and storage, nurseries and domestic environments.

Topics which will be presented

- Brief history of tension membrane and shade cloth structures and modern architectural fabric materials
- Understanding the engineering design process and the nature of structural supports, edge and attachment details
- Fabrication, construction, installation and maintenance processes
- Particular issues (fire, shade prediction, legal, costing, vandalism, access etc) pertaining to shade cloth structures.

Speakers: A number of speakers drawn from LSAA and industry leaders with extensive experience in shade structures.

A Certificate of Attendance and Seminar Proceedings will be available for attendees and should count towards the relevant Eng. Aust. CPD requirements.

Speakers include: Dr Peter Kneen FIEAust, EO-LSAA

Dr Kourosh Kayvani – Innovation Leader, Aurecon

Joseph Dean – Managing Director Wade Design Engineers

Plus other industry leaders



LSAA

Sponsors and Supporters

The Seminar is supported by Engineers Australia and attendance counts towards CPD requirements.



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Preliminary Program

9.30	Registration, Coffee and Networking with Sponsors
10.00	Welcome and Introduction
10.10	Brief History of Tension Fabric and Shade Structures in Australia
10.30	Solid Fabric, Shade Cloth Materials, Threads - Engineering and other properties
11.00	Where's the Shade? Site and Orientation issues
11.30	The Good, The Bad, and The Ugly - Examples of structural issues to be encouraged or avoided
12.15	Lunch
13.00	Engineering Design Factors - Support structures, panel edge and corner attachment details
14.00	Software for shade structure design. Brief overview of two systems
14.40	Fabrication, Installation and Maintenance
15.15	Afternoon Tea
15.45	Overview and example application of Draft LSAA Design Standards to the design of a shade structure
16.45	Summary and Closure

Please use the separate Registration form to register for the Workshop.

There is a separate Registration form for the following Conference and LSAA Design Awards