

# LSAA Conference & Design Awards

2013

## “Touching the Earth Lightly”

Lightweight Structures have geometric forms that generally have large surfaces which are doubly curved. Many structures also use modern materials such as fabrics, foils and cables which can only carry loads by tensile forces – the most efficient load carrying action.

This conference will look at the most efficient use of materials & resources to have a marked effect on our planet, our lives and our future. We want to help get people thinking about building better, building for the environment and living lightly on the planet.

Lightweight structures can not only be light they can be relocatable, reusable, recyclable and offer many sustainable advantages for architects, engineers and developers. Presentations will explore these features.



# LSAA

LIGHTWEIGHT STRUCTURES ASSOCIATION OF AUSTRALASIA INC.



## Conference Offerings in Brief

Wednesday November 13

- Pre-Conference visit to Alan Gibbs' Farm
- Pre-Conference Reception

Thursday November 14

- Exhibition
- Keynote Speakers
- Networking Events
- Design Awards Presentation & Dinner

Friday November 15

- Exhibition
- Keynote Speakers
- Networking Events
- Site Visit



Lightweight Structures Association of Australasia Inc. [www.LSAA.org](http://www.LSAA.org)

Email: [admin@LSAA.org](mailto:admin@LSAA.org) Dr Peter Kneen EO, LSAA

# LSAA

LIGHTWEIGHT STRUCTURES ASSOCIATION OF AUSTRALASIA INC.

## LSAA 2013 Conference and Design Awards Theme “Touching the Earth Lightly”



Lightweight Structures have geometric forms that generally have large surfaces which are doubly curved. Many structures also use modern materials such as fabrics, foils and cables which can only carry loads by tensile forces – the most efficient load carrying action. This conference will look at the most efficient use of materials & resources to have a marked effect on our planet, our lives and our future. We want to help get people thinking about building better, building for the environment and living lightly on the planet. Lightweight structures can not only be light they can be relocatable, reusable, recyclable and offer many sustainable advantages for architects, engineers and developers. Presentations will explore these features.

### CONFERENCE PROGRAM – Pre-Conference Day, Wednesday 13<sup>th</sup> November 2013

(Pre- Conference Day – Optional Attendance)

**11 am – 5.30 pm Pre-Conference Visit to Alan Gibbs Farm**

**6.30 – 9 pm Pre-Conference Registration and Reception in the Exhibition Area**



The LSAA is privileged to have organized a private visit to Alan Gibbs’s Farm, a 1,000-acre sculpture park on New Zealand’s Kaipara Harbour.

Since purchasing the site in 1991, Alan has commissioned some epic works by Neil Dawson, Anish Kapoor, Richard Serra, Andy Goldsworthy, Leon van den Eijkel and Bernar Venet amongst others.

The large sculpture is by Anish Kapoor, a tensioned fabric structure moulded into the hill top ridge (the left hand image above). It was a worthy winner of an LSAA Design Award in 2009.

We will travel an hour each way to the farm by bus. Meeting time is at 11.30 at the Conference Hilton Hotel.

Delegates have a leisurely 3-4 hours to explore the Farm and sculptures before returning to the main hotel.

Overseas delegates wishing to avail themselves of this unique opportunity are advised to arrive in Auckland the day beforehand.

**The pre-conference visit to Alan Gibbs Farm, which is being Sponsored by Structurflex New Zealand has only limited spaces. Space is available for the first 50 fully conference paid registrants only**

## CONFERENCE PROGRAM – FIRST DAY, Thursday 14<sup>th</sup> November 2013

Start	Session: Activity, Presentation	Author / Chair / Status
8.30	<b>Registrations</b>	
	<b>S1 Welcome, Opening, Keynote</b>	<b>Dr Kourosh Kayvani</b> LSAA President
9.00	Conference Welcome	Dr Kourosh Kayvani
9.10	S1A Keynote Address Design Matters - Creating The Bliss Point in Architecture and Engineering	Alastair Richardson Director, Cox Architecture
10.00	<b>Morning Tea / Networking</b>	
	<b>S2 Recent International Projects</b>	<b>Murray Higgs</b> Structurflex – Gold sponsor
10.25	S2A Three Stadiums for Brazil 2014	Mike Lester - Makmax
10.45	S2B Retractable Roof over Margaret Court Tennis Arena	Peter Murenu - Aurecon
11.05	S2C London Olympics – Review of use of PVC fabrics in tensile architecture - what has changed in the decade?	Ferrari – Details TBC
11.25	S2D Te Waka O Maori Re-locatable Pavilion	Nick Dalton Tao Architects Renata Blair - Evitan
11.45	S2E Westlake Girls Netball Centre	Harry Street - Creative Spaces
12.05	S2F Questions to Session Authors	
12.05	<b>Lunch / Networking</b>	
	<b>S3 Title Facades, Sustainability, Energy Saving Projects</b>	<b>Brian O’Flaherty</b> Mehler – Platinum sponsor
13.00	S3 Platinum Sponsor Welcome	Paulo Giugliano - Mehler
13.10	S3A The Feature ETFE and Timber Diagrid Roof - Coastland Aquatic Centre	Toby Mason - CREATE
13.30	S3B Design Elements of the World’s Largest Free Spanning Dome, Singapore	Scott Rathie - Arup
13.50	S3C Lightweight Facades Systems	James Marr - Tensys
14.10	S3D Case studies of cable supported façade structures	Rowan Murray - Ronstan
14.30	S3E Parametric Infrastructure Design	Dean Mackenzie Warren & Mahoney
14.50	S3F Questions for Session Authors	

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Start	Session: Activity, Presentation	Author / Chair / Status
15.00	<b>Afternoon Tea / Networking Public Lecture Registrations</b>	
	<b>S4 Public Session: Earthquake Engineering Designs and the Greater Christchurch Recovery</b>	<b>Dr Kourosh Kayvani LSAA President</b>
15.20	S4A Welcome to Public and brief introduction to LSAA and this session	Dr Kourosh Kayvani
15.25	S4B Earthquakes and Low Damage Design and implications for the future.	
15.45	S4C Four separate presentation on different aspects and updates on Greater Christchurch Recovery	Daryl Maguire (Warren & Mahoney)
17.25	S4D Questions for the Session Authors	

## Pre-dinner drinks & Design Awards Conference Dinner

Dress Code: Jacket and tie suggested

Hilton Auckland - 7.00pm for 7.30pm

## CONFERENCE PROGRAM – SECOND DAY, Friday 15<sup>th</sup> November 2013

Start	Session: Activity, Presentation	Author / Chair
	<b>S6 Keynote</b>	<b>Peter Lim LSAA Vice President</b>
09.00	S6A Keynote Address "Touching the Earth Lightly" - covering projects Eden, Earthworks (Iowa)	Neil Stonell Grimshaw
10.00	<b>Morning Tea / Networking</b>	
	<b>S7 Recent Projects / LSAA News</b>	<b>Bob Cahill - Hiraoka – Gold sponsor</b>
10.30	S7A Waitomo Caves' Visitors' Centre	Chris Kelly Architecture Workshop
10.50	S7B The Cloud	Joseph Dean Wade Design Engineers
11.10	S7C Innovating the Process - Adelaide Oval Roof Structures	Joachim Clauss - Cox Architecture
11.30		Beres Dowdle - Surface Design
11.50	S7D Questions for the Session Authors	
12.00	S7E Summary of LSAA Activities Design Guidelines & Shadecloth issues Details for Site visits. Conference Close	Dr Kourosh Kayvani & Murray Higgs
12.10	<b>Lunch / Networking / Pack up</b>	
	<b>S8 Title – Site Visits (Optional)</b>	<b>Murray Higgs Structurflex – Gold Sponsor</b>
12.45	S8A The Cloud, Queens Wharf Westlake Girls Sports Centre (Potential drop off at airport TBC) Eden Park Stadium	Transport details to be confirmed. Travel by Bus from Hilton. Potential drop off at airport after Westlake Girls visit.