

In This Issue

- From the President
 - Precast & Tilt-up Seminar
 - NSW Mini-conference Review
 - James de Burgh wins \$1,000
 - Durability of Concrete Structures
- Did you know?
- Featured Sponsor - Reid

2014 EVENTS

15 October



Precast & Tilt-up

11 November

Durability of Concrete Structures

Full day seminar

10 December

Major Projects - Case Studies

[Click here](#) for the latest information on events.

From the President

Dear Member,

The principal activity of the NSW Branch of the CIA is to organise seminars to assist the Institute in achieving its mission to promote and develop excellence in concrete technology, application, design and construction.



This year has seen an upswing in seminar attendance with some excellent topics and experienced presenters covering many topical areas relating to technology and practice. It is hoped to build on this momentum next year with a preliminary program currently being identified covering such topics as high performance concrete, piling & foundations, anchoring/fixing /grouting, slabs & footings, waterproofing concrete and bridges. Ian Parker is leading the task to draft this program in conjunction with the committee but we are always keen to hear from our members as to topics which they may wish to be included. If you have any ideas please do not hesitate to contact Tiera Morgan at the State office.

Also in this newsletter you will see a report on our recent mini-conference which was a departure from our normal format and which provide an opportunity between the national conference years to focus on emerging technologies and advanced

2014 NSW Branch Sponsors



REINFORCED EARTH



engineering applications while engaging the younger generation of emerging professionals and practitioners - the future of concrete. We hope this will be a feature of future off-conference years.

Malcolm Boyd
NSW Branch President

Precast & Tilt-up Seminar

The Australian Standard AS3850 Tilt-up Concrete Construction is currently being revised and expected to be released in late 2014/early 2015.



Four experienced industry practitioners will present at this seminar. They will look at precast not only from the design perspective but also the new provisions in the Standards, including workplace health and safety.

The mystique of admixtures in precast concrete will also be covered - the chemistry that is used and how it enhances or modifies the performance of precast concrete.

This event will take place at:

Ryde-Eastwood Leagues Club
Wednesday 15 October 2014

and is supported by the [National Precast Concrete Association of Australia](#).

For more information and to register visit the [event page](#) on our website.



GRACE
Construction Products



Mini-conference - Pushing the Boundaries in Concrete Technology

The NSW Branch mini-conference held on 17 September 2014 was a great success with a total of 75 people attending. The conference focussed on emerging technologies and advanced engineering applications while engaging the younger generation of rising professionals and practitioners - the future of concrete.



The conference was launched with an inspiring Key Note Address by Dr James Aldred (AECOM & UNSW). He proposed that by pushing the boundaries in concrete technology, we can ensure that concrete can provide sustainable development for present and future generations. His presentation discussed such elements as ultra-high performance concrete, Portland cement-free geopolymer concrete and the innovative use of concrete in supertall construction.

Four papers were delivered covering materials and structural developments in concrete. Dr Warren South (CCAA) presented the challenges and opportunities in the evolving cement composition proposals. Nilotpol Kar (BASF) presented an overview of the current and future development in concrete admixtures. Dr Daniel Dias-da-Costa (USyd) presented a view of some of the advanced computational techniques for simulation and monitoring of concrete structures. Amin Noushini (UNSW) looked at the geopolymer - the green concrete.

The finale was a wrap-up session hosted by Dr Dak Baweja (BG&E Materials Technology) in which he drew on the contributions of all the presenters as well as the experience and expertise within the



**Ash Development
Association of
Australia**



[**CLICK HERE**](#)
For Sponsors weblinks



audience. It was a lively, interactive session which provided a positive end to a most stimulating day for all of us who are interested in pushing the boundaries of concrete for a more sustainable world.

Special thanks goes to our event sponsors, **Sika Australia** for their support as our Platinum Event Sponsor as well as **ITW Constructions Systems ANZ** and **BASF Australia** for their support as our Gold Event Sponsors.

Platinum Event Sponsor



Gold Event Sponsors



James de Burgh wins \$1,000 Concrete Institute Prize

The Concrete Institute of Australia congratulates James de Burgh on winning the \$1,000 prize with his articulate and engaging presentation providing a glimpse into the challenges for concrete into the future.



A significant feature of the mini-



conference, this competition was for students and practicing engineers under the age of 30. The competitors were challenged to deliver a short, sharp presentation of the future of concrete. Two finalists were selected - Ahmad Rajabi (UTS/UNSW) and James de Burgh (UNSW). Ahmad's presentation focussed on his studies on the behaviour of precast reinforced concrete slabs in steel-concrete composite bridge decks with bolted shear connectors and their potential to revolutionise construction in the future. James' presentation gave a wide-ranging view on the materials and their interaction from nano to macro scale set against the challenges of strength and stiffness, cost and practicality, durability and sustainability.

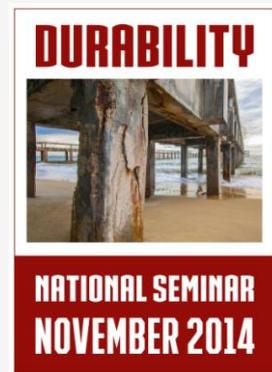
Durability of Concrete Structures

**National Seminar
Register now!**

This one-day course in November will provide an update on work being undertaken by the Institute's Durability Committee and provide guidance on durability design processes and practice that satisfy requirements for all concrete structure types. Delegates will be the first to receive two new Durability handbooks and several drafts.

Tuesday 11 November
Parkroyal Parramatta
30 Phillip Street, Parramatta

For more information and to register, visit the [Institute website!](#)



Did you know?



Concrete Jointing Systems



The Chemical Company



Ash Development Association of Australia



SUBSIDIARY OF AUSTRALIAN OXIDES PTY LTD
FINE COLOURS & PRODUCTS FOR CONSTRUCTION

CIES SYMPOSIUM



The Concrete Institute of Australia is pleased to support this symposium which will bring together an array of local, national, and international leaders working in the area of road and rail infrastructure to try and bring a focus to the issue of poor performing roads and rail, and the potential remedies to this situation. Speakers will discuss the current state of these systems, the areas of primary need, which will also help to focus our attention on future areas of research and potential government investment.

Website link:

<http://www.cies.unsw.edu.au/>

Featured Sponsor

Reid



© graphic concrete™



Reid has launched a new decorative concrete technology into the Australian precast industry. Specified and supplied to numerous projects across Australia and

Quick Links...

[CIA Website](#)

[Events & Seminars](#)

[Resource Centre](#)

[About Us](#)

[CIA Contacts](#)

NSW Branch Newsletter

Editorial Committee

Roy Butcher

Technical Services
Manager - Engineered
Material Solutions

Zoe Schmidt

National Technical Manager -
Sika Australia

Tiere Morgan

NSW Membership Services
Officer - Concrete Institute of
Australia

[**Click here to view
previous issues**](#)

New Zealand, graphic concrete™ is a patented technology which allows for repeated patterns, written text, and sharp photos to be "etched" into the face of concrete. The technology is also compatible with concrete mixes containing pigments and coloured aggregates.

Precast elements are manufactured using a pattern printed on the graphic concrete™ membrane with a surface retarder "ink". Choose from a standard repeating pattern (GCCollection™), or design your very own (GCPro™). GC Art&Design™ utilises raster images to reproduce photos or unique (non-repeating) works-of-art on concrete.

For more information on graphic concrete™ technology, please contact Reid.

www.reid.com.au
sales@reid.com.au
1300 780 250

If you have any questions about NSW Branch activities or the Concrete Institute in general please contact...

Tiere Morgan
NSW Membership Services Officer
Concrete Institute of Australia

Email - nsw@concreteinstitute.com.au
Phone - 02 9955 1744