

In This Issue

- From the President
- New Venue for 2014 Seminars
- Seminar Preview - Preventing Corrosion in Concrete
- National Seminar Preview - Shear Design of Concrete Structures
- Did You Know? - The Australasian Corrosion Association is running courses
- Featured Sponsors

2014 EVENTS

19 February

Preventing Corrosion in Concrete

14 March

Shear Design of Concrete Structures

(National Seminar)

16 April

Retaining Structures

14 May

Boral Laboratory - Site Visit

21 May

Structural Strengthening of Concrete Structures

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

From the President

Dear Member,

Welcome to 2014 and what a year it will be.

Your committee has identified a range of activities which we hope will have a broad appeal to both professionals and practitioners in the concrete industry. Ian

Parker has provided a brief snapshot of some of the proposed events in this newsletter. Our seminars have moved back to the Ryde-Eastwood Leagues Club which provides a more central and easily accessed venue for many people which we hope will facilitate attendance.

A key event this year will be our local mini-conference in September which is proposed to fill a gap in between the biennial national conferences and to provide the opportunity for all levels of the concrete industry to present the latest developments in concrete technology and practice. We will be especially keen to have the participation of the new generation of concrete professionals in this event.

With a renewed focus on infrastructure around NSW we hope that this will bring some renewed opportunities and challenges for all of you and we look forward to seeing you at our events during the year.

Malcolm Boyd
NSW Branch President



2014 NSW Branch Sponsors



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



**Ash Development
Association of
Australia**



NSW Event Program - New Seminar Venue in 2014

The 2014 NSW Branch Events Program starts on Wednesday, **February 19th** with a seminar on **Preventing Corrosion in Concrete**.



This will be the first seminar held at our new venue - the **Ryde-Eastwood Leagues Club**. The RELC is just a short walk from West Ryde train station and also has a **FREE CAR PARK** with 450 spaces available to members and guests. Aside from the improved parking situation the RELC also offers a clean, comfortable environment with a better area for post seminar networking.

The first National Seminar Series of the year comes to the Park Royal, Parramatta on Monday, **14th March**. This all day seminar titled **Shear Design of Concrete Structures** give attendees the rare opportunity to hear from two world renowned experts on shear.

The next NSW Branch seminar is on **Retaining Structures** on **April 16th**, followed by our annual visit to the **Boral Material Technical Services Laboratory** in Baulkham Hills on **May 14th**, and a seminar on **Structural Strengthening of Concrete Structures** on **May 21st**.

On **June 11th** we have the Sydney leg of National Seminar Series on **Steel Reinforcement Detailing** which will be followed by NSW seminars on **July 17th** on **Fire in Concrete Structures** and **Cracking in Concrete** on **August 13th**. The final two NSW seminars will be on **Precast & Tilt-up** on **October 15th** and **Major Project Case Studies** on **December 10th**.

In **November** we have the last National Seminar Series of the year on **Durability** and a return to the **OneSteel: Sydney Steel Mill** for a site visit.



We also plan to hold a **mini conference** in 2014 which will be held on **24th September**. Details of the topics and speakers will be available soon as well as information for sponsors and exhibitors.

I look forward to seeing you at a CIA event in 2014 and don't forget about the new venue for seminars. Keep an eye on the [NSW Events](#) page throughout 2014 as some event details may change.

Ian Parker
NSW Branch Vice President & Chair - NSW Events Sub-Committee

Seminar Preview - Preventing Corrosion in Concrete

19 February 2014
Ryde-Eastwood Leagues Club, West Ryde



Prevention of steel reinforcement corrosion can be designed for in careful and considered specification so that designers, manufacturers, and placers are able to meet a structures expected service life.

This technical seminar will consider how this can be done by looking at typical environments that designers should consider before and during specification, what methods and materials can be used to prevent or reduce reinforcement corrosion, and some specific examples of how these work.

Grahame Vile from BAAM Consulting will speak about *Specifying Reinforced Concrete to Prevent Corrosion* followed by **Negin Sharifi** from GHD speaking about *Condition Investigation and Repair Option Selection for Reinforced Concrete Structures* and finally **Pedram Mojarrad** from Sika speaking about *Efficiency of Hydrophobic Impregnation and Migrating*

[CLICK HERE](#)
For Sponsors weblinks



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



**Ash Development
Association of
Australia**



GRACE
Construction Products

Corrosion Inhibitors

This seminar will provide designers, specifiers, contractors and suppliers with an excellent overview of how to prevent steel reinforcement corrosion in concrete.

[Click here](#) for more information and to register.

Zoe Schmidt
Seminar Convenor

National Seminar Preview - Shear Design of Concrete Structures

**14 March 2014 -
PARKROYAL,
Parramatta**



This seminar features two of the worlds most recognised experts on shear design, [Professor Michael P. Collins](#) (University of Toronto) and [Professor Denis Mitchell](#) (McGill University).

Both have been at the forefront of recent experimental and theoretical work on shear. As a result the major concrete codes around the world are now moving away from the empirical approach and towards more rational and consistent methods. This trend is also being followed in Australia, with major revisions proposed to the shear design provisions in the draft of the new Bridge Design Code (AS 5100).

It is vital that all practising engineers working in concrete design have a good understanding of the best current work on the shear behaviour of concrete, and the Concrete Institute is pleased to offer you and your colleagues the rare opportunity to attend detailed presentations from these world leading researchers on this topic.

[Click here](#) for more information and to



register.

Mark Sedhom
Manager - National Technical Services

Did You Know?

The Australasian Corrosion Association is running courses on *Corrosion of Concrete Structures* in 2014

ACA Corrosion & CP of Concrete Structures - Sydney - May 2014



This course covers the background theory on corrosion and cathodic protection, including such aspects as selection and design of cathodic protection systems (impressed current and sacrificial), installation of cathodic protection systems, materials and equipment, problem troubleshooting and assessment and repair of structures.

ACA/ACRA Corrosion & Protection of Concrete Structures - Sydney - June 2014

This course will provide a solid foundation of knowledge about the corrosion of both reinforcement and concrete, so that those working in this field can reach more effective solutions in the prevention and remediation of this ever-growing problem.

Register now at www.corrosion.com.au

Featured Sponsors

MAPEI Australia



MAPEI is a global leader in the supply of advanced products and technical systems for the construction industry. Key markets include Cement, Concrete and Tunnelling Infrastructure.

2014 EVENTS

19 February

Preventing Corrosion in Concrete

14 March

Shear Design of Concrete Structures

(National Seminar)

16 April

Retaining Structures

14 May

Boral Laboratory - Site Visit

21 May

Structural Strengthening of Concrete Structures

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

Quick Links...

[CIA Website Events & Seminars](#)

[Knowledge Centre](#)

[About Us](#)

[CIA Contacts](#)

Mapei has developed RE-CON ZERO, a new concrete admixture for recycling returned concrete.

RE-CON ZERO means "REcycling CONcrete at ZERO impact on the environment". RCZ transforms returned concrete into a granular material that can be used as aggregate to partially substitute natural aggregates in the production of new concrete. 1m³ of concrete is transformed into 2.4 tonnes of aggregate, without any liquid residue.

Benefits include:

- Returned concrete is completely recovered, reducing the amount of waste to be sent to landfill and - other costly options.
- Reduction in demand for virgin quarry materials.
- Reduction in concrete costs.
- A sustainable concrete solution.

Email enquiries to sales@mapei.com.au or visit www.mapei.com.au.

ITW
Construction
Systems



ITW Construction Systems brings together the combined resources of market leading brands including **Reid, Danley, Miska, Modfix** and **Flexus**. Specialising in products and systems for wet concrete construction, ITWCS now provides greater committed resources to R&D, engineering & design services, manufacturing & distribution, whilst focusing on a specialist market support structure.

For more information about ITW Construction Systems brands and products visit www.itwcsanz.com.

NSW Branch Newsletter

Editorial Committee

Roy Butcher

Technical Services
Manager - Engineered
Material Solutions

Zoe Schmidt

National Technical Manager
- Sika Australia

Duncan Miller

NSW Member Services -
Concrete Institute of
Australia

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

Poll Question

Would you be interested
in attending a NSW
Branch golf day if one
were to be arranged?

[Click here to vote](#)

Sika Australia



Fibres play an increasing role as the reinforcing choice for concrete construction. Today Fibre Reinforced Concrete (FRC) is widely being utilised in applications where the reinforcing specification has historically been bars or mesh. FRC performance characteristics include significant ductile and structural behaviour, enhanced tensile, shear and flexural strengths. FRC also exhibits greater crack resistance, durability, resistance to impact and gauging, shrinkage stresses, thermal shock and seismic ductility characteristics when compared to conventional reinforced concrete.

With over 25 years of experience in construction technology and a focus on the innovation and flexibility in the development of fibres, Radmix is able to provide the most appropriate concrete reinforcing solutions using locally manufactured fibres for a variety of applications.

For more information visit
<http://aus.sika.com>.

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

Duncan Miller
NSW Member Services
Concrete Institute of Australia

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