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From the President

Dear Member,

It is June already, winter has finally arrived and the shortest day is only just around the corner. Our world is changing in many ways physically, economically and socially and how we react to these changes



will determine our future. It is a great time to be an engineer because we can shape not only how we live today but how we will live tomorrow. As concrete engineers we have the challenge of continually developing and adapting concrete technology to meet the needs of a continually growing and changing world in ways we can only guess at times. As a material, concrete will need to be stronger, faster (to place and set) and more durable while adapting to a wider range of applications and accommodating changing resources.

Our "[Pushing the Boundaries in Concrete Technology](#)" mini-conference in September is shaping up to be an exciting opportunity to look at the challenges ahead. Please get involved as a presenter or attendee and join the discussion - it is a rare time to challenge and respond in an open manner while getting a glimpse of the evolving directions in research and practice.

Malcolm Boyd

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

2014 NSW Branch Sponsors



ACI Recognises CIA NSW Branch Member

The American Concrete Institute (ACI) recently recognised NSW Branch Member Associate Professor Daksh Baweja as a Fellow of the American Concrete Institute (FACI). This award is in recognition of his significant work over many years in concrete materials technology, research and sustainability as well as his contribution to the concrete industry in Australia and internationally.



The ACI, like the Concrete Institute of Australia, exists for the purpose of advancing concrete knowledge and to promote and develop excellence in concrete technology, application, design and construction. In 2003 both organisations signed an International Partnership Agreement with the purpose of increasing collaboration and cooperation between the groups.

A recent amendment to the agreement has allowed the CIA to offer our Members the opportunity to take out Joint Membership with the ACI. Joint CIA-ACI Membership is available to new and existing CIA Individual, Individual Young and Retired Members. Unfortunately this offer does not currently extend to Company Members, or their representatives.

ACI Membership is available, through the CIA, for the annual fee of \$145.00. This represents a significant saving as direct Individual Membership of the ACI is normally US\$222.00.

ACI Membership provides access to additional resources to help you stay at the forefront of concrete technology. For more information and to register visit the [CIA](#)



[Website.](#)

The NSW Branch would like to congratulate Daksh Baweja for his recent honour and reminds Members that A/Prof. Baweja will be hosting the wrap up session and discussion at our upcoming mini conference - Pushing the Boundaries in Concrete Technology. [Click here](#) for more information about the mini conference.

Zoe Schmidt
NSW Branch Secretary

Seminar Preview - Fire in Concrete Structures

17 July 2014 Ryde-Eastwood Leagues Club, West Ryde



One of the advantages that concrete has over other building materials is its inherent fire-resistance, however, concrete structures must still be designed for fire effects and the behaviour of concrete structures in fire can be complex. Temperature rise causes a decrease in the strength and modulus of elasticity for both concrete and its steel reinforcement as well as the expansion of structural components and loss of structural integrity through cracking and spalling of concrete material.

This seminar will look at the latest approach to designing for fire resistance and the application of the relevant provisions of the Australian Standard. It will look at some recent research into the fire performance of concrete filled columns and present some case studies on the assessment of fire damaged structures.

Speakers at this seminar are:

Ian Bennetts - Principal Risk Consultant - Noel Arnold & Associates & Adjunct Prof - "Design for Fire Resistance"



**Ash Development
Association of
Australia**



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For Sponsors weblinks**



Professor Zhong Tao - Program Director
- University of Western Sydney
**"Performance of concrete and
composite steel concrete columns in
fire"**

Gregory Zambesi - Senior Materials
Engineer - GHD
"Fire assessment case studies"

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

I hope to see you at the seminar.

Negin Sharifi
Seminar Convenor

Seminar Review - Retaining Structures & Structural Strengthening of Concrete Structures

**16 April & 21 May
2014
Ryde-Eastwood
Leagues Club, West
Ryde**



Our last two seminars have been very well attended with over **90 people** at our Retaining Structures seminar on April 16 and over **70 people** at our Structural Strengthening of Concrete Structures seminar on May 21.

Both seminars featured presentations from well respected industry professionals and academics who delivered interesting and informative presentations. These presentations are typical of the high quality, practical information that is available to Members and guests at NSW Branch seminars.

In addition to the content, NSW Branch seminars provide a fantastic opportunity to network with like minded professionals. **Dedicated networking time** over drinks at the end of each seminar provides an



opportunity to meet key contacts in the concrete industry in NSW.

Our 2014 venue at the Ryde-Eastwood Leagues Club has been a popular change with easy public transport options and over **450 free parking spaces** available in the club car park.

I hope to see one of our upcoming events.

Ian Parker
NSW Branch Vice President

2015 Seminar Program - What Would You Like to Hear About?

The Committee of the CIA NSW Branch will soon begin work on our 2015 event program. As always we will be looking to put on a broad range of seminars and events that focus on the latest in concrete technology.



We would love to hear your suggestions for potential seminar topics and speakers as well as ideas on site visits and social events.

Please pass on any ideas you may have to our NSW Membership Services Officer - Duncan Miller at nsw@concreteinstitute.com.au.

Ian Parker
NSW Branch Vice President

Did You Know?

The "Construction Materials Industry Dinner 2014" is on again



The CCAA and the IQA invite you to the

GRACE
Construction Products



NSW Construction Materials Industry Dinner 2014, at which the industry celebrates the presentation of the NSW EH&S Awards 2014, showcasing and promoting innovations and best performance in Environment and Health & Safety, across the cement, concrete and extractive industries.

Friday 1 August 2014 - Le Montage, 38 Frazer Street, Lilyfield

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

Featured Sponsors

Ash Development Association of Australia (ADAA) - Standards Project Kicks off!



For more than 30 years, fly ash has become an increasingly important to the economics and sustainability of the construction materials sector where some 3.0 million tonnes are used in the manufacture of cement and concrete. Led in part by the Ash Development Association of Australia, Standards Australia have recently approved a project to review AS 3582, Part 1 - 1998 (Fly ash), Part 2 - 1991 (Slag - Ground granulated iron blast-furnace) and AS/NZS 3582, Part 3 - 2002 (Amorphous Silica). This project is aimed at modernising these material Standards where some have not been reviewed for more than 20 years.

Over the coming year, various producers, manufacturers and suppliers of these materials will be engaged through their industry associations, including the Concrete Institute of Australia, to be represented on the committee. This review will incorporate a comparison with international standards to ensure the current standards are inline with international best practices and methods.

Quick Links...

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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

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Peikko Group's HPKM Column Shoe Connection Receives ETA approval and CE Marketing



Peikko Group's HPKM Column Shoe connection has been ETA approved (European Technical Approval ETA-13/0603). The approval is based on demanding experimental testing of precast concrete column connections made with Peikko's HPKM Column Shoes and HPM Anchor Bolts. This verifies that Peikko's HPKM Column Shoe Connections are as rigid as continuously reinforced cast-in-situ column connections. Peikko is the originator and the first company to receive an ETA approval for precast concrete column connection based on CUAP (Common Understanding of Assessment Procedure)

The ETA approval includes several new features, such as shear and fire resistance, which have not been generally approved before in similar connections. Application to broader global standards including Australian Standards is now also under review.

*"The focus of Peikko's R&D activity is to develop solutions that make our customers' building process faster, easier and more reliable. Peikko continuously develops its products to meet the needs of the markets. Such a large-scale testing program which our Column Shoes went through during the approval process is a good example of our commitment to continuous improvement". **Trent Davis, Managing Director, Peikko Australia.***

If you have any questions about NSW Branch activities or the Concrete Institute

in general please contact...

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