### **CONCRETE 2013**



The Concrete Institute of Australia's Biennial National Conference (Concrete 2013) is being held at the Gold Coast Convention and Exhibition Centre, Queensland, from 16-18 October 2013.

The broad theme of the conference is "Understanding Concrete", covering materials, research, design, construction and innovation. The full technical program has now been released and a copy is provided in the following pages.

The technical program is headed by keynote speakers such as Dr Andy Davids, Prof Mario Sassone and Prof Surendah Shah, who will be backed up by some 100 other technical papers covering a wide range of interesting topics.

Chairman of the technical committee Dr Vinh Dao said: "The diversity of papers in this conference will make it attractive to civil and structural engineers, building and civil contractors and material suppliers, and there will be things of great interest to academics and researchers. Technical staff from state and local government will find topics of value for their work.

Concrete 2013 will provide a great chance to network with other likeminded professionals and exchange technical information on a more personal level."

#### **Keynote speakers**

- Dr Andy Davids, Aurecon, UAE
- Professor Mario Sassone, Department of Architecture and Design, Politecnico di Torino, Italy
- Professor Surendra Shah, Walter P. Murphy Professor of Civil Engineering (Emeritus), Centre for Advanced Cement Based Materials, Northwestern University, USA

#### Technical program released

Following the review of all papers the technical committee has released the technical program giving details of the papers to be presented each day. Parallel sessions will be set up so that it is easy for delegates to move between sessions to hear different presentations.

#### Sponsorship opportunities

There are sponsorship packages still available and Ian Bishop the sponsorship chairman says "We are open to negotiation with companies to establish a package that will suit their particular needs. Now that the full technical program is available companies can better assess the likely participation in the conference and its value to their company."

### **Concrete 2013 exhibitors**

Active Minerals Australia	Hanson	PCTE
Ancon	Hilti	Peikko Australia Pty Ltd
Ash Development Association of Australia	HM Technologies	Penetron
Australian (Iron & Steel) Slag Association	ITW Construction Systems	Peri
BASF Australia Ltd	Krystol Group Pty Ltd	Precast Concrete Pty Ltd
BOSFA	KTI – Plersch	Sika Australia
Concrete Pipe Association of Australia	Lesa Systems	Simpson Strong Tie Australia
Erico	Maccaferri Australia	Synergy Pigments Australia
Freyssinet Australia	Мареі	The Construction Store Pty Ltd
Grace Construction Products	Normet Construction Chemicals	The Reinforced Earth Company
Halcrow (FRGC Consortium)	Parchem Construction Supplies	Хурех

### **CONCRETE 2013**



## Exhibition provides great exposure

Exhibition chairman Gavin Chadbourn indicated that the exhibition spaces are filling up quickly and that he "feels that now the technical program has been finalised, the remaining spaces will be much sought after. Currently we have allocated 49 exhibitions spaces, which, makes this a great contributor to the value of the conference."

Companies committed to providing exhibitions as at the date of this article preparation are listed in the following pages.

Exhibitors have the opportunity to invite clients from the local region who are not able to attend the conference to visit and inspect their display during the conference period.

### Social program

Concrete 2013 has a welcome function on the Wednesday evening and the gala dinner on the Thursday evening, both of which will be held in the conference venue. These are covered for the delegate by the delegate registration fee, but other members of staff and family can be registered for an additional fee for those events.

As well as these events there are other opportunities for delegates and families during the conference and on the following weekend.

Social chairman Con Komselis said: "The Gold Coast has wonderful attractions for delegates and their families, and we have been able to secure special entry fee discounts for the major entertainment parks in the region and also for those who love to play golf. These rates will apply to the weekend after the conference, so it is a great chance for delegates to include their family in this trip."

## Awards for Excellence in Concrete presentations

If your company or organisation has involvement in any of the projects submitted for the Concrete Institute's Awards for Excellence in Concrete then you will be interested in the gala dinner that will be held at the conference. This will include the presentation of the national awards to the projects judged the best in their category. Companies involved should also consider purchasing tables for the dinner to enable them to bring staff involved and particular clients to see the value of the work done in the award project. This can be done by contacting Arinex as listed below.

### Accommodation

The Gold Coast has a wide range of accommodation available from family units to hotel suites. The conference has organised special rates for delegates at locations within a few minutes walk of the conference venue and these are available through the registration area of the conference website.

#### Support your industry conference

Conference chairman Emeritus Professor Peter Dux urges all CIA members to support their organisations major biennial event. He said: "Concrete 2013 is the flagship for the CIA and provides a major national focus for the dissemination of technical information on all aspect of concrete. It affords wonderful opportunities for networking nationally and internationally that are not available in any other forum on concrete in Australia. It is a major event and a vitally important event for the CIA, and I urge all members to get behind it, support it and attend to ensure that is continues to occupy its rightful position as the pre-eminent event on concrete in Australia." Further conference details and registration information can be found on www.concrete2013.com.au. Conference Managers: Arinex Pty Limited Suite 3, The Precinct, 12 Browning Street West End, QLD 4101 Ph: +61 7 3226 2800 Fax: +61 7 3226 2899 Email: concrete2013@arinex.com.au Website: www.concrete2013.com.au

## **Technical program at a glance**

	V	Vednesday 16 October 2013	
08:00-17:30	Registration		
09:15-09:45	Opening Session		
09:45-10:30			
	Keynote Speaker: Dr Andy Davids		
	Design and Construction of the Current Tallest Building		
10:30-11:00		Morning Tea and Exhibition	
11:00-12:30	SESSION 1A	SESSION 1B	SESSION 1C
	Structures Research and Applications	Concrete Performance at Elevated Temperatures	Durability
11:00-11:20	Prof. Stephen J. Foster		Dr Faiz U.A. Shaikh
	1A-1: Calibration of Reinforced Concrete Structures		1C-1: Corrosion Durability of Geopolymer Concrete
	Standard AS3600-Part I: Statistical Analysis of		Containing Different Concentrations of Alkaline
	Material Properties and Model Error		Solution
11:20-11:40	Prof. Mark G Stewart	Mr James M. de Burgh	Mr B. Tom Benn
	1A-2: Calibration of Reinforced Concrete Structures	1B-2: Fire induced Spalling of Reinforced or	1C-2: Chloride Ion Ingress of Concrete - the
	Standard AS3600-Part II: Reliability Indices and	Prestressed Concrete - Overview and Initial Numerical	Influence of Increased Levels of Limestone Mineral
	Changes to Capacity Reduction Factors	Investigation	Addition
11:40-12:00	Mr Sing-Siu Michael Lee	Mr A.Q. Sobia	Mr Laurence Aldridge
11.40-12.00			
	<u><b>1A-3</b></u> : Sustainable Composite Beam Behaviour with	<b><u>1B-3</u></b> : The Effect of Elevated Temperature on HAC-	<u>1C-3</u> : Service Life of Concrete during Chloride
	Deconstructable Bolted Shear Connectors-Full scale	based THPCC with GGBS Addition	Ingress
	Experimental Investigation		
12:00-12:20	Mr Huigyeong Kim		Mr Fred Andrews-Phaedonos
	1A-4: Investigating the Structural Behaviour of	<u>1B-4</u> : TBC	1C-4: Use of Corrosion Monitoring Sensors to
	Concrete Filled 'CAN' Under Axial Loading		Monitor the In-Situ Performance and Intervention
	control inter control inter Polaring		needs in Reinforced Concrete Structures
12:20-12:30	10-minute Q&A	10 minute O & A	10-minute Q&A
	10-minute Q&A	10-minute Q&A	10-minute Q&A
12:30-13:30		Lunch and Exhibition	
13:30-15:00	SESSION 2A	SESSION 2B	SESSION 2C
	Structures Research and Applications	Construction Methods	Concrete Materials and Performance
13:30-13:50	Prof. Mark A. Bradford	Mr Reuben F. Barnes	Prof. Peter Waldron
10.00 10.00	<b><u>2A-1</u></b> : Structural Modelling of Pavement Upheaval	<u>2B-1</u> : Unique Ultrasonic Testing System for the	<u>2C-1</u> : Re-using Steel Wire from Tyres for Fibre
		Inspection and Diagnosis Concrete Defects and	Reinforced Concrete
	Buckling		Kennorceu Concrete
		Embedments	
13:50-14:10	Mr Vincent CW Lee	Mr Bassam Matty	Dr Rasiah Sri Ravindrarajah
	2A-2: Three-dimensional Concrete Structure-Soil	2B-2: Cockburn Gateway Stage 3 – Top-Down	2C-2: Quality Assurance for Railway Shotcreting
	Interactive Effects	Construction	
14:10-14:30	Mr Brendan Cassels	Mr Harun Meer	Mr Marcin Wieloch
	<b><u>2A-3</u></b> : Design of Ground Bearing Trackform for the	<b>2B-3</b> : Non-destructive Evaluation of Defects in	2C-3: Self-Compacting Concrete Use in Bridge
	Gold Coast Light Rail, QLD, Australia	Reinforced Concrete Using Ground Penetrating Radar	Transfer Beams
	Gold Coast Light Kan, QLD, Australia		
		(GPR)	
14:30-14:50	Mr Claus Rotstein	Mr Saeko Tokuomi	Mr Stuart Curtis
	2A-4: Finite Element Modelling of Ventilation	2B-4: An Impact Acoustic System for Concrete-Wall-	2C-4: Concrete Placing Practice for Durability in
	Control Devices for Underground Coal Mines using	Climbing Robots -Impact Acoustic System for Rising	Concrete Structures (Adapting Yesterday's Skills for
	Engineered Cementitious Composites	Cross II-	Tomorrow's Challenges)
14:50-15:00	10-minute Q&A	10-minute Q&A	10-minute Q&A
11.50 15.00	To minute Quert	To minute Quert	To minute Quert
15:00-15:30		Afternoon Tea and Exhibition	
15:30-17:20	SESSION 3A	SESSION 3B	SESSION 3C
0.50 17.20	Geopolymer Concrete	Precast Concrete	Major Projects/ Case Studies
15.20 15:50			
15:30-15:50	Dr David W. Law	Mr Rod Bligh	Mr Liam Donnelly
	3A-1: Properties of Brown Coal Fly Ash Geopolymer	<u>3B-1</u> : Development of Geopolymer Precast Floor	3C-1: Concrete Challenges on the Superway
	Mortars	panels for the Global Change Institute at University of	
		Queensland	
15:50-16:10	Mr Pradip Nath	Mr Mosleh Tohidi	Mr Joyce Lee
	<u>3A-2</u> : Development of Fly Ash Based Geopolymer	<u>3B-2</u> : An Improved Tie Force Method for Progressive	<u>3C-2</u> : The Design of Eclipse Tower, Parramatta
	Concrete for Ambient Curing Condition	Collapse Resistance Design of Precast Concrete Cross	
	Concrete for Amount Curring Condition	Wall Structures	
16.10.16.20			
16:10-16:30	Dr James M Aldred	Mr Geoff. Barker	Mr Joseph Donohue
	3A-3: Engineering Properties of a Proprietary	<u>3B-3</u> : Concrete in Remote Housing Construction:	3C-3: Design and Construction Issues of the Soft-Ey
	Premixed Geopolymer Concrete	Precast Concrete Slabs and Other Applications	Headwall for Brisbane AirportlinkM7's 12.48m
		**	Diameter Tunnel Boring Machines
	Mr Partha Sarathi Deb		Mr Craig Mills
16.30-16.50			3C-4: New Farm RiverWalk Replacement
16:30-16:50	2 A 4. Sulphoto Dogistopoo of Slog Dlonded El-		<u>30-4</u> . New Farm Kiver wark Replacement
16:30-16:50	3A-4: Sulphate Resistance of Slag Blended Fly Ash		
	Based Geopolymer Concrete		
			Mr Fred Andrews-Phaedonos
	Based Geopolymer Concrete	<b>3B-5</b> : TBC	Mr Fred Andrews-Phaedonos 3C-5: Performance of Epoxy Coating on Columns
	Based Geopolymer Concrete           Mr Yifei Cui <u>3A-5</u> : Bond Performance of Steel Bar and Fly Ash	<u>3B-5</u> : TBC	3C-5: Performance of Epoxy Coating on Columns
16:50-17:10	Based Geopolymer Concrete         Mr Yifei Cui <u>3A-5</u> : Bond Performance of Steel Bar and Fly Ash         Based Geopolymer Concrete		<u>3C-5</u> : Performance of Epoxy Coating on Columns Exposed to Aggressive Tidal Marine Conditions
16:30-16:50 16:50-17:10 17:10-17:20 18:30-20:30	Based Geopolymer Concrete           Mr Yifei Cui <u>3A-5</u> : Bond Performance of Steel Bar and Fly Ash	<u>3B-5</u> : TBC 10-minute Q&A Welcome Reception	3C-5: Performance of Epoxy Coating on Columns

Thursday 17 October 2013			
08:00-17:30	Registration		
08:40-10:30	SESSION 4A	SESSION 4B	SESSION 4C
	Geopolymer Concrete	Repair and Retrofitting	Design/Structural Engineering: Cast-in anchors
08:40-09:00	Prof. Marita L. Berndt	Prof. Scott T. Smith	A.Prof. Stuart Reid
	4A-1: Overcoming Barriers to Implementation of	4B-1: Enhancing the Efficiency of FRP Strengthening	4C-1: Reliability of Lifting Inserts for Tilt-Up
	Geopolymer Concrete	Systems	Concrete Construction
09:00-09:20	Mr Chandana Kulasuriya	Mr Muhammad Ikramul Kabir	Mr David J. Heath
	4A-2: Properties of Alkali Pozzolan Cement (APC)	4B-2: Retrofitting of Damaged Concrete Beams with	4C-2: Guidelines for Prequalification and Design of
		CFRP	Post-Installed and Cast-In Anchors in Australia
09:20-09:40	Dr Zuhua Zhang	Dr R.J. Gravina	Mr Ian Ferrier
	4A-3: Efflorescence: A Critical Challenge for	4B-3: Bond Performance of FRP to Concrete Using	<u>4C-3</u> : Performance & Ductility of Cast-In Plate
	Geopolymer Applications?	Vacuum and Heat/resin Injection	Connections
09:40-10:00	Mr Pradip Nath	Dr Johan Klopper	Mr Ian Ferrier
	4A-4: Effect of Alkaline Activator Properties on the	<u>4B-4</u> : Deck Replacement for Fixed Linkspan Bridge at	4C-4: Cast-in Ferrule Connections Load/Displacement
	Fly Ash Based Geopolymer Concrete for Ambient	Port Marlborough Interisland Ferry Terminal	Characteristics in Shear
10.00 10.20	Curing Condition	M.D. III. (	M 7 D LLL
10:00-10:20	Mr Kamal Neupane	Mr Ronald Lumantarna	Mr Zac Bouchabake
	<u>4A-5</u> : Mechanical Properties of Geopolymer	<u>4B-5</u> : Overview on the Strengthening of New	<u>4C-5</u> : Concrete Splitting for Rebars Post-installed
	Concrete: Applicability of Relationships Defined by AS 3600	Zealand's Unreinforced Masonry Buildings Using Engineered Cementitious Composite (ECC) Shotcrete	with High Bond Adhesives - AS3600 implementation
10:20-10:30	10-minute Q&A	10-minute Q&A	10-minute Q&A
10:30-11:00	10-minute Q&A		10-minute Q&A
11:00-12:30	Plenary Session II:	Morning Tea and Exhibition	
11.00-12.30	Keynote Speaker: A. Professor Mario Sassone		
	2 selected students' papers		
12:30-13:30	2 selected students papers	Lunch and Exhibition	
13:30-15:00	SESSION 5A	SESSION 5B	SESSION 5C
10.00 10.00	Fibres/FRP Research and Applications	Structures Research and Applications	Major Projects/ Case Studies
13:30-13:50	Prof. Riadh Al-Mahaidi	Dr Natalie A Lloyd	Mr Colin Beall
	5A-1: Experimental and Numerical Investigation of	5B-1: Early Age Tensile and Compressive Strength of	5C-1: Queen Elizabeth II Courts of Law Brisbane
	Patch Anchors used to Enhance the Performance of	Concrete – Impact on Predictions for Anchor Pull-out	
	FRP Laminates in Concrete Structures	Capacity	
13:50-14:10	A.Prof. Muhammad N.S. Hadi	Mr Wolfgang Merretz	Mr Chrysanthos Maraveas
	5A-2: Behaviour of Modified RC Columns Retrofitted	5B-2: Development and Use of 1200 mm Diameter	5C-2: The New, Balanced Cantilever, Bridge over
	with CFRP	Round Panel Test for Substantially Reduced	Acheloos River in Greece
		Variability in Quality Control Testing of SFRC Used	
		in Pre-cast Tunnel Lining Segments	
14:10-14:30	Mr Joel Brown	Mr William Buswell	Mr Scott Rackley
	<u>5A-3</u> : The Study of FRP Strengthening of Concrete	<u>5B-3</u> : Pile Cap Design Using Strut-and-Tie Modelling	5C-3: Testing the Limits: Heavy Floor and Reaction
	Structures to Increase the Serviceable Design Life in		Wall at the Advanced Engineering Building, The
	Corrosive Environments		University of Queensland, Design and
14 20 14 50	M M A CI I	M MINGLE DI	Construction Challenges
14:30-14:50	Mr Nassim Ghosni	Mr Md Mahfuzur Rahman	Mr Evelyn Storey
	5A-4: Evaluation of Structural Behaviour of	<u>5B-4</u> : Behaviour of Simply-Supported Reinforced	<u>5C-4</u> : Cyclotron Bunker at the Centre of Advanced
	Polypropylene Fibre Reinforced Concrete Beam under	Concrete Slabs: An Experimental Study at Service Conditions	Imaging, University of Queensland - Design and Construction Challenges
14:50-15:00	Cyclic Loading 10-minute Q&A	10-minute Q&A	10-minute Q&A
15:00-15:30	To-initiate Qack	Afternoon Tea and Exhibition	To-initiate Qack
15:30-17:00	SESSION 6A	SESSION 6B	SESSION 6C
15.50 17.00	Sustainability	Early-age Concrete and Cracking	Structures Research and Applications
15:30-15:50	Mr Des Chalmers	Dr James Mackechnie	Dr John M Fenwick
15.50 15.50	6A-1: Progress with Sustainable Cements	<u>6B-1</u> : Optimizing the Fresh Properties of Concrete by	<u>6C-1</u> : What Risks Are YOU Willing to Take with
		Understanding Rheology	Steel Quality?
15:50-16:10	Mr Yew-Chin Koay	Mr Rodney Paull	Mr Con Komselis
	<b>6A-2</b> : An Overview Sustainable Cementless Concrete:	6B-2: Concrete Thermal/Restraint and Shrinkage	6C-2: Class N Engineered Mesh – Advantages and
	The VicRoads Experience	Crack Risk - Case Study Design to Construction	Application
	F	Feedback	11
16:10-16:30	Mr Mayuri Wijayasundara	Dr James Aldred	Mr Scott Munter
	6A-3: Cost-benefit Analysis of Recycled Concrete	6B-3: Thermal Control of Large Concrete Elements -	6C-3: Recent Developments in the Design and
	Aggregate in Structural Concrete	Queensland Experience	Construction of Concrete Structures incorporating
		•	Low-Ductility Steel Reinforcement
16:30-16:50	Mr Mike Haigh	Dr Vinh Dao	Mr Andrew McFarland
	6A-4: Development of New High Performance	6B-4: Crack Propagation in Concrete at Early Ages	6C-4: Longitudinal Slip Characteristics of Reinforcing
	Supplementary Cementitious Material - A Lithium		Bar Splices
	Production By-product		
16:50-17:00	10-minute Q&A	10-minute Q&A	10-minute Q&A
19:00-23:00		Gala Dinner	

		Friday 18 October 2013	
08:00-15:30	Registration		
09:00-10:30	SESSION 7A	SESSION 7B	SESSION 7C
	Structural Monitoring and Assessment	Concrete Materials and Performance	Structures Research and Applications
09:00-09:20	Mr Doug Jenkins	Mr W.A. Thomas	Prof. Manicka Dhanasekar
	7A-1: Structural Ratchet Mechanisms, Ancient and	7B-1: Australian Industry Alkali Silica Reactivity	7B-1: State-of-the-art of the Australian Thin Bed
	Modern	Management Program	Concrete Structural Masonry
09:20-09:40	Dr Joe Gamman	Mr Peter Clarke	Dr Li-Tze Soh
	7A-2: New Zealand's Networked Infrastructure	7B-2: Revision of Australian Standard AS 2758.1	7B-2: The Revised Capacity Reduction Factors for
	Project: Creating an Open Demonstration Site for	Rock and aggregate for engineering purposes - Part 1	Unreinforced Masonry in Axial Compression in
	Smart Infrastructure	Concrete Aggregates	AS3700 - 2011 Practical Methods for the Analysis of
			Differential Strain Effects
09:40-10:00	Mr Martin Larisch	A.Prof. Yan Zhuge	Mr Doug Jenkins
	7A-3: Performance Control Tests and Numerical	7B-3: The Performance of Recycled and Quarry	<u>7B-3</u> : Practical Methods for the Analysis of
	Simulations for Concrete in Deep Foundations	Aggregates and Their Effect on Permeable Concrete	Differential Strain Effects
10:00-10:20	Mr Eva O.L. Lantsoght	Dr Dina M. Sadek	Dr Weena Lokuge
	7A-4: Applying Experimental Results to the Shear	<u><b>7B-4</b></u> : Effect of Curing Conditions on the Behavior of	7B-4: Effect of Strain Rate on Geopolymer Concrete
10.00.10.00	Assessment Method for Solid Slab Bridges	Structural Lightweight Aggregate Concrete	
10:20-10:30	10-minute Q&A	10-minute Q&A	10-minute Q&A
10:30-11:00	CECCLON 0.4	Morning Tea and Exhibition	OF OCION OC
11:00-12:30	SESSION 8A	SESSION 8B	SESSION 8C
11:00-11:20	Fibres/FRP Research and Applications	Concrete Materials and Performance Mr Mohammadreza Hassani	Creep and Shrinkage Prof. Ian Gilbert
11.00-11.20	Mr Leigh D Appleyard 8A-1: Steel Fibre Reinforced Concrete in Australia,	<b>8B-1</b> : Assessment of Watertight Concrete and Role of	<b>8C-1</b> : Time-dependent Deflection of Continuous
	2013	Chemical Admixtures	Composite Concrete Slabs
11:20-11:40	Mr Amin Noushini	Dr Weena Lokuge	Prof. Robert F Warner
11.20-11.40	8A-2: Effect of Polyvinyl Alcohol (PVA) Fibre on	<b>8B-2</b> : Comparative Assessment of Polymer Concrete	<b>8C-2</b> : Simplified Analysis of Creep and Shrinkage in
	Flexural Properties of Fibre Reinforced Concrete	with Different Types of Resin	Prestressed Concrete Beams
11:40-12:00	Mr Abolfazl Eslami	Dr Eva Vejmelková	Mr Alireza Gholamhoseini
11.10 12.00	8A-3: An Experimental Investigation on Flange	<b>8B-3</b> : Effect of Natural Zeolite as Partial Replacement	<b>8C-3</b> : The Effects of Creep and Shrinkage on the
	Bonded Retrofitting of RC Beam-Column Joints using	of Portland Cement on Concrete Properties	Bond-Slip Characteristics and Strength of Composite
	CFRP	· · · · · · · · · · · · · · · · · · ·	Concrete Slabs
12:00-12:20	Mr Junlei Zhang	Dr Rabin Tuladhar	Mr Bob Bornstein
	8A-4: Mechanisms of Bond Failure between Existing	8B-4: Durability of Concrete with Stone-Dust as a	8C-4: Laboratory Assessment of Drying Shrinkage of
	Concrete and Sprayed Polymer Cement Mortar with	Partial Cement Replacement	Concretes Containing Shrinkage Reducing Agents
	CFRP Grid by Acoustic Emission		Compared with a New Low shrinkage Concrete
12:20-12:30	10-minute Q&A	10-minute Q&A	10-minute Q&A
12:30-13:30		Lunch and Exhibition	
13:30-15:00	Plenary Session III:		
	Keynote Speaker: Professor Surendra Shah		
	Controlling Properties of Concrete through Nanomodification		
	Dr Ahmad Shayan		
	Field Application of Geopolymer Concrete: A Measure towards Reducing Carbon Dioxide Emission		
	Mr Lucas Wise		
	Design and Construction of the South Road Superway		
15:00-15:30		Closing Ceremony (with Afternoon Tea and Exhibition	

15:00-15:30

Closing Ceremony (with Afternoon Tea and Exhibition)

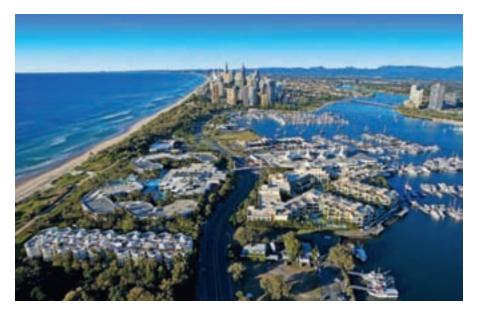
# **Delegate registration is still open**

Registration for Concrete 2013 is now open and can be made via the conference website www.concrete2013. com.au.

There are many categories of registration and there are discounts available to all levels of CIA membership, as well as reduced fee options available to academics, retired professionals and students. Special rates are also available for young industry professionals (under 30 years of age). Day registration is also available for delegates who are unable to attend the whole conference but who have a particular interest in certain papers or keynote speakers.

Exhibitors will also have the opportunity to invite clients from the local region who are not able to attend the conference to visit and inspect their display during the conference period. Additional exhibition visitor

passes can be purchased by emailing concrete2013@arinex.com.au.



## **Conference Proceedings**

### **ISBN:** 978-1-877040-73-3

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