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2016 Edition 4



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- /// AIB ANNOUNCES NATIONAL PROFESSIONAL EXCELLENCE IN BUILDING AWARDS
- /// HIRING IN MINING AND CONSTRUCTION REMAIN POSITIVE
- /// A CONSTRUCTOR'S TRIBUTE TO ADLO GIURGOLA: AN EXTRAORDINARY ARCHITECT WHO EVOKED A SENSE OF COMMON PURPOSE IN MAKING HIS BUILDINGS



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An introduction to the Australian Institute of Building

The Australian Institute of Building (AIB) is incorporated by Royal Charter and is the preeminent professional body for building professionals in Australia and the Asia-Pacific region. The AIB has a long and proud history of supporting and serving the building profession. For more than sixty years the Institute has worked with the building and construction industry, government, universities and allied stakeholders to promote the building profession, support the development of university courses in building whilst promoting the use of innovative building techniques and a best-practice regulatory environment.

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A Message from the Immediate Past National President



Welcome to my Eighth and final Construct Magazine column as retiring National President of the Australian Institute of Building; it has been an honor to have served and led the Institute; I am now consigned to that distinguished group of members known as "Past Presidents".

The last two years have seen me regularly visit all of the Institute's Chapters locally and in Hong Kong and the Macau Branch. I have visited many of the Institute's Accredited Universities and attended the Australasian Universities Building Educators Association (AUBEA) Conferences. I have had the opportunity to represent the Institute at the Australian Construction Industry Forum (ACIF), at various state Building Regulators and at most of the state's MBAs. In the last year I have personally "trudged" through the national parliament, Canberra, in search of the elusive Member or Senator who maybe able to further our cause.

I have had the honor of meeting several State Governors and the Governor General but above all I have had the pleasure and honor of meeting and serving you, the Institute's members. Whilst any position or job is ultimately what you make of it I have enjoyed meeting all of you from students on campus to the most senior members in conference or dinner; all have extended to me a warm and sincere welcome.

With other members I have endeavored to further raise the Institute's profile in Government and Industry and our members are increasingly being invited to become members of various regulatory, industry and academic forums, panels

and boards (where our members should rightly be).

I have also endeavored to distinguish the professional side of the Industry; those having met this Institute's Corporate standard of MAIB graduating with a four (4) year degree in building or construction management and having the requisite years of appropriate supervisory, managerial or director/board level experience versus the rest of the industry who are at para professional, technical or vocational level.

The building and construction industry is one of the few industries which does not readily recognize its 4 year undergraduate degree or a post graduate Diploma or Masters degree as being a Professional. This Institute is attempting to rectify this "anomaly" through educating Industry and Regulators (as well as ourselves). We as qualified and experienced professional builders and construction managers deserve that recognition.

In my "swansong" column it is my opinion that industry and government do not use or employ the talents of qualified and experienced graduate builders and construction managers to their full potential. There are few if any graduate builders employed by regulators and in other government bureaucracies to add their first hand knowledge and experience to those in decision making positions. The Building and Construction industry has fallen to the whims of others (lawyers, insurers, marketers and racketeers – not lumping the former in with the latter) in the overall management of the industry and it is high time that we, the professional builders and construction managers, took (some of the) control back from the uneducated, the inexperienced, the dodgy and those who just don't have the enthusiasm, pride or care in our industry and profession.

After a long federal election campaign the Liberal Party finally won a one seat majority in the Lower House but suffered an increase from 8 to 12 in the number of cross-benchers in the Upper House; not withstanding this at the time of my writing this column the Government has reintroduced the ABCC Bill back into Parliament – time will tell if it will be passed and if so in what final form.

The issue of the use of non-conforming and

non-complying products in the building industry is still being dealt with on many levels within our industry. This discussion and debate will go on for some time before a "happy medium" solution or way forward is found. The newish Building Code of Australia is now in force and the discussions and debates continue on the initiatives provided in the Deemed to Satisfy provisions and the innovative Performance Based Solutions alternatives.

On the international scene, the Institute is liaising with our Tripartite Agreement partners, the NZIOB and the SIBL over a proposed joint Conference, "Constructing Our World" to be held in Auckland, New Zealand in March 2017, preliminary details of this signature event are already out.

Our members should recognize that not only are we are part of things locally and Nationally we are as well involved globally particularly in the Southern Hemisphere.

May I again repeat what I have said in past Construct Magazine Editions: The Institute is making great strides in representing its members in many forums however we still require your active participation; we welcome constructive comment and suggestion (rather than destructive criticism); this Institute is only as strong as we make it; we all have a role to play and remember there are many advantages and benefits that you derive from being a member.

Finally, as we look toward 2017 I take this opportunity to sincerely wish our new National President Paul Heather all the best in his new role. I trust that you will continue to give Paul the same support that you graced me with in my term.

Yours fraternally,

Norman Faifer FAIB FAIQS FIAMA FRI(Adj)
*Immediate Past National President
National Council*
The Australian Institute of Building

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The Australian Institute of Building (AIB) Announces National Professional Excellence in Building Awards and The 2016 AIB Building Professional of the Year

The Australian Institute of Building recently announced the 2016 AIB National Professional Excellence in Building Awards in Melbourne, Victoria.

The presentation of the awards was made at a gala awards dinner at the Park Hyatt Melbourne, which was attended by the building and construction industry's leading figures.

"These awards are the ultimate personal achievement for a professional builder. They recognise the contribution and leadership shown by individuals to the successful completion of a construction project, reinforcing the fact that the success of any building firm can be attributed to those responsible for construction projects", said Norman Faifer FAIB, National President of the Australian Institute of Building.

The judging criteria for the AIB National Professional Excellence in Building Awards weight the contribution of individuals and the challenges that they face. A decision to present a Professional Excellence Award is based upon challenges associated with the complexity of the project in its construction phase as opposed to the characteristics of the completed structure.

The Australian Institute of Building congratulates the 2016 AIB OneSteel Reinforcing National Building Professional of the Year, David Purcell MAIB from Kane Constructions for his work on the Geelong Library & Heritage Centre.

"On behalf of the AIB and the industry I congratulate all the winners. The quality of the winners is testament to the high level of professionalism that exists in the construction industry", Mr Faifer said.

Photos from the night can be viewed here: <https://www.flickr.com/photos/aibnational/sets/>



Immediate Past National President Norman Faifer FAIB FAIQS FIAMA FRI(Adj) and National President Paul Heather FAIB

THE 2016 AIB NATIONAL PROFESSIONAL EXCELLENCE IN BUILDING AWARD RECIPIENTS

INFRASTRUCTURE

Alex Luddington

Professional Excellence Award

Company: Manteena Pty Ltd

Project: Christmas Island Jetty

Tim Cadden

Professional Excellence Award

Company: Hansen Yuncken

Project: Wollongong Hospital Redevelopment

Company: Department of Housing and Public Works, Queensland Government

Project: Borallon Correctional Centre Recommissioning - Stage 1



THE 2016 AIB - ONESTEEL REINFORCING NATIONAL BUILDING PROFESSIONAL OF THE YEAR

COMMERCIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

David Purcell MAIB

Professional Excellence Award and National BPOY

Company: Kane Constructions

Project: Geelong Library & Heritage Centre



William Whitmore

Certificate Of High Commendation

INTERIOR CONSTRUCTION \$10 MILLION TO \$50 MILLION

Winner: Michael Moses

Professional Excellence Award

Company: Built

Project: MLC Centre Refurbishment

Winner: Peter Randell

Professional Excellence Award

Company: Built Qld Pty Ltd

Project: Bank of Queensland Fit Out



Winner: Tom Perkins

Professional Excellence Award

Company: Built

Project: Virgin Australia Tier 1 Lounge
Brisbane Domestic Terminal

CATEGORY: PROJECT MANAGEMENT
\$10 MILLION TO \$50 MILLION

Andrew Skewes

Professional Excellence Award

Company: Johnstaff

Project: Argus Building Redevelopment

CATEGORY: RESIDENTIAL
CONSTRUCTION \$10 MILLION TO \$50
MILLION

George Jim Moschoyiannis MAIB

Professional Excellence Award

Company: L.U. Simon Builders Pty Ltd

Project: Campus Clayton

Matthew Corrigan MAIB

Professional Excellence Award

Company: LU Simon Builders

Project: Orbis and Momentum

CATEGORY: RESIDENTIAL
CONSTRUCTION \$100 MILLION PLUS



Dino Krommydas FAIB

Professional Excellence Award

Company: L.U. Simon Builders Pty Ltd

Project: Lucia Apartments

James Crouch

Certificate Of High Commendation

Company: Mirvac Constructions Pty Ltd

Project: Harold Park Maestro



CATEGORY: COMMERCIAL
CONSTRUCTION \$1 MILLION TO \$10
MILLION

Andrew Lanskey

Professional Excellence Award

Company: Badge Constructions (Qld) Pty
Ltd

Project: USC Multi-Level Carpark

David Moyle MAIB

Professional Excellence Award

Company: Ballarat Construction
Management

Project: BCM Head Quarters



Khairul Mohd

Professional Excellence Award

Company: Building Engineering Pty Ltd

Project: Siena College - St Catherine Student Centre



Christopher Chainey FAIB

Certificate Of High Commendation

Company: Hutchinson Builders

Project: Queensland Rail Milton Station Platform 1 Upgrade

CATEGORY: COMMERCIAL CONSTRUCTION \$10 MILLION TO \$50 MILLION

David Purcell MAIB

Professional Excellence and the AIB National Building Professional of the Year Award

Company: Kane Constructions

Project: Geelong Library & Heritage Centre



Joshua Fergusson

Professional Excellence Award

Company: Hutchinson Builders

Project: Vincenia Marketplace

Matthew Gooding

Professional Excellence Award

Company: Lendlease

Project: Flinders University Plaza and Student Hub

Phillip Millan

Professional Excellence Award

Company: Broad Construction Services

Project: Brisbane State High School



Tim House MAIB

Professional Excellence Award

Company: PS Structures Pty Ltd

Project: WA Museum - CRC Redevelopment



Tony Grincer

Professional Excellence Award

Company: PACT Construction

Project: 999 Hay Street, Perth



David Lansdell MAIB

Certificate Of High Commendation

Company: Badge Constructions (Qld) Pty Ltd

Project: Queensland Rail Management Centre

Michael Gilmour MAIB

Certificate Of High Commendation

Company: Hindmarsh Construction Australia

Project: IKEA Canberra Store



**CATEGORY: COMMERCIAL
CONSTRUCTION \$50 MILLION TO \$100
MILLION**

Andrew Staedler MAIB

Professional Excellence Award

Company: Lendlease

Project: Monash Health – Translation Research Facility



Chris Holdich

Professional Excellence Award

Company: Built

Project: Old Treasury Building



**CATEGORY: COMMERCIAL
CONSTRUCTION \$100 MILLION PLUS**

Kent McInney

Professional Excellence Award

Company: Hansen Yuncken

Project: Wollongong Central Retail Development



Marc Van Heemst MAIB

Professional Excellence Award

Company: Brookfield Multiplex Constructions Pty Ltd

Project: St John of God Midland Public and Private Hospitals



Michael Pascuzzi MAIB

Professional Excellence Award

Company: Lendlease

Project: Margaret Court Arena (Western Precinct)

Mitchell Correia

Professional Excellence Award

Company: Built

Project: 20 Martin Place

Paul Melville MAIB

Professional Excellence Award

Company: Hansen Yuncken

Project: Lyell McEwin Hospital Redevelopment Stage C

National Building Professional of the Year and Professional Excellence Award Winner



David Purcell MAIB

Company: Kane Constructions

Category: Commercial Construction \$10 Million to \$50 Million

Project: Geelong Library & Heritage Centre

The \$45 million nine level state-of-the-art facility is a unique dome design constructed from glass fibre reinforced concrete (GRC). Designed by renowned Melbourne firm ARM Architecture, the project commenced in late December 2013. The new library and heritage centre not only provides access to information through printed collections, but also via the latest multi-media platforms. It also serves as a community hub in the centre of Geelong. The existing library, adjoining heritage listed Peace Memorial and Geelong Art Gallery all remained operational during construction.

The unique GRC cladding distinguishes the new Geelong Library and Heritage Centre. Approximately 550 panels were installed - including convex hexagon and pentagonal panels, fascia and gutter panels. The lightweight GRC panels are manufactured

off site complete with a secondary steel sub frame and bolted to the primary steel structure to create the domed façade and roof of the Geelong Library and Heritage Centre.

The Geelong Library and Heritage Centre was a highly technical, complex and demanding building project. The buildings bespoke design and its towering dome structure would have no doubt presented numerous challenges. The entire Kane team remained extremely focused throughout the entire project, and dealt with every challenge to deliver an exceptional result.



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Kaeser launch portable compressors with built-in electric brakes

In order to meet the unique requirements of the Australian Trailer Design rules for towing trailers, Kaeser has developed a range of its larger Mobilair portable compressors with built-in electric brakes. A world first for Kaeser, owners of these new models can now register the compressor for the road, for ease of transportation.

The Mobilair M 123 and M 135 series portable compressors from Kaeser are now available with built-in electric brakes. A world first for Kaeser, these compressors meet the requirements of the Australian Trailer design rules that state that any trailer with a mass over 2000 kg must have a braking system that is activated independently of the trailer.

This requirement is unique to Australia. In

Europe, for example, an overrun braking system is the accepted standard. As a result portable compressors currently imported into the Australian market place will no doubt be fitted with overrun brakes. Users wishing to transport these mobile compressors will have to remove the wheels and mount them onto a plant trailer – an expensive and time consuming process. However, with

the new Mobilair M123 and M 135 portable compressors featuring electric brakes, the user can now register the compressor for the road, making transportation a breeze.

Constructed and manufactured at Kaeser's state-of-the-art facility in Germany, the new Mobilair portable compressors with electric brakes have been specifically designed by Kaeser to meet the specific requirements of the Australian market.

The electric drum brakes come with a safety break-away system. This ensures that if the tow vehicle became detached from the compressor, the brakes on the compressor would lock.

Activation of the electric brakes is via a controller mounted inside the towing vehicle. There are a number of compatible controller options available which can be purchased from all good motor vehicle parts retailers.

Designed for maximum performance and exceptional efficiency, at the heart of every Mobilair portable compressor lies a proven Kaeser rotary screw compressor block equipped with flow optimised Sigma Profile rotors designed to ensure maximum energy efficiency. All components found in these compressors have been manufactured to the highest standards and, along with the generously sized and precision aligned roller-bearings, ensure long service life and outstanding reliability.

The electric brakes are currently an option available on the Mobilair M 123 and M 135 portable compressor models from Kaeser. The M 123 series is available in four pressure stages between 8.6 bar and 14 bar, free air delivery 8.1 to 11.4 m³/min, and the M 135 series is available in four pressure stages between 10 and 14 bar, free air delivery 10.5 to 13 m³/min. For more information visit www.kaeser.com.au or phone 1800 640 611.



Kaeser launch portable compressors with built-in electric brakes

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Hiring in Mining and Construction remain positive

Manpower Employment Outlook Survey Q4 2016

The latest Manpower Employment Outlook Survey results show hiring in Mining and Construction is expected to continue its upward trend in quarter four this year. Employers in the sector reported a Net Employment Outlook (NEO)¹ of +9%, up four percentage points quarter-on-quarter and nine percentage points year-on-year.

The survey, which measures the hiring intentions of nearly 1,500 public and private employers in Australia for the coming quarter, found 14 per cent of Mining and Construction employers indicated they intend to increase their headcount over the October and December timeframe and seven per cent plan to decrease, while the majority (76 per cent) said they would not make any change to their current workforce.

Richard Fischer, Managing Director, ManpowerGroup Australia and New Zealand, said the uptick in hiring intentions is purely driven by activity within the construction sector.

“Residential property construction and large infrastructure projects, mainly in Victoria and

Table 2. Net Employment Outlook Comparison by Sector

	Q42016	Quarter-on-Quarter Change	Year-on-Year Change
Finance, Insurance & Real Estate	+16%	- (-/+0%)	↓ (-3%)
Manufacturing	+8%	↑ (+2%)	↑ (+4%)
Mining & Construction	+9%	↑ (+4%)	↑ (+9%)
Public Administration	+9%	↓ (-1%)	↑ (+7%)
Services	+16%	↑ (+3%)	↑ (+4%)
Transportation & Utilities	+17%	↑ (+4%)	↑ (+10%)
Wholesale Trade & Retail Trade	+8%	↑ (+4%)	↑ (+2%)

New South Wales, are spurring growth as we transition away from the mining boom.

“The \$1.5 billion Victorian Infrastructure Package is driving significant investment in construction work across rail and major roads, while NSW is undergoing several station upgrades and major projects like the building of the WesConnex.”

These projects are also making an impact on hiring intentions regionally. The survey highlighted employers in Victoria are forecasting respectable jobs growth into the final quarter of the year, with 20 per cent indicating an increase in staffing levels. This has resulted in a NEO of +15%, which is up three percentage points quarter-on-quarter and six percentage points year-on-year. The overall hiring mood in New South Wales was also positive, reporting a NEO of +13%.

“It’s not overly surprising seeing Victoria and New South Wales posting solid employment growth. Especially with major infrastructure projects being undertaken in these states, in addition to the fact that they also house many of the jobs from the Finance, Insurance & Real Estate and Services sectors, which have indicated a solid hiring pace for the quarter ahead,” Mr Fischer added.

Employers in Western Australia and the Northern Territory are showing moderate job gains into the final quarter of the year, reporting NEOs of +2% and +6%, respectively.

“As we continue to unwind from the

Table 1. Net Employment Outlook Comparison by Region

	Q42016	Quarter-on-Quarter Change	Year-on-Year Change
NATIONAL	+11%	↑ (+2%)	↑ (+5%)
SA	+9%	↑ (+5%)	↑ (+7%)
QLD	+12%	↑ (+3%)	↑ (+5%)
TAS	+11%	↑ (+2%)	↑ (+3%)
VIC	+15%	↑ (+3%)	↑ (+6%)
NT	+6%	↑ (+9%)	↑ (+9%)
WA	+2%	↑ (+7%)	↑ (+3%)
NSW	+13%	↑ (+1%)	↑ (+4%)
ACT	+14%	↓ (-2%)	↑ (+4%)

¹The Net Employment Outlook is calculated by subtracting the percentage of employers anticipating a decrease in hiring activity from the percentage of employers anticipating an increase in employment. Seasonal adjustment is then applied to the data.

Table 3. Net Employment Outlook Comparison by Organisation size

	Q4 2016	Quarter-on-Quarter Change	Year-on-Year Change
Micro (<10)	+2%	- (-/+0%)	- (-/+0%)
Small (10-49)	+11%	↑ (+2%)	↑ (+5%)
Medium (50-249)	+14%	↑ (+3%)	↑ (+3%)
Large (>250)	+19%	↑ (+7%)	↑ (+12%)

mining boom, we're seeing businesses in Western Australia and the Northern Territory diversifying their services as they transition away from the mining industry. Essentially, the slight uptick in these regions shows that there is a progression towards 'normalisation' taking place as companies begin to re-emerge from the mining boom.

National results

Across the nation, Australia's hiring intentions are set to continue on a positive streak for the remainder of 2016. Of the 1,500 public and private employers surveyed, 18 per cent indicated they intend to increase their headcount over the October and December timeframe, while the majority (75 per cent) said they would not make any change to their current workforce.

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Table 4. APAC Q4 2016 results

Country	Q4 2016	Quarter-on-Quarter change	Year-on-Year change
AUSTRALIA	+11%	↑ (+2%)	↑ (+5%)
CHINA	+5%	↑ (+3%)	- (-/+0%)
HONG KONG	+13%	↑ (+1%)	↓ (-2%)
INDIA	+32%	↓ (-3%)	↓ (-10%)
JAPAN	+23%	↑ (+1%)	↑ (+1%)
NEW ZEALAND	+14%	↑ (+2%)	↑ (+2%)
SINGAPORE	+7%	↓ (-2%)	↓ (-5%)
TAIWAN	+21%	↑ (+2%)	↓ (-13%)

Edgewater Station multi-storey car park on track

- Work on the \$29.5 million Edgewater Station car park is well advanced
- Reinforced concrete structure is complete; cladding and civil works underway
- Car park will provide a total of 1,450 bays - including 560 new bays

A new \$29.5 million multi-storey car park at Edgewater Station is on track for completion by the end of the year.

Construction of the 1,450 bay car park started earlier this year and the project, which will deliver 560 new bays at Edgewater Station, is about 70 per cent complete.

Transport Minister Dean Nalder said when the multi-storey facility opened later this year, it would help ease the growing demand for parking at train stations on the Joondalup train line.

"The Joondalup train line is the second busiest heavy rail route in the metropolitan area, with the Mandurah Line experiencing the highest patronage," Mr Nalder said.

"With a growing population in the northern suburbs, the Liberal National Government has invested in road and rail projects to integrate and enhance Perth's transport network systems.

"The new car park at Edgewater will create 560 new car bays for commuters to use and with more than 1,500 passenger boardings at the station each weekday, the extra infrastructure is expected to be in demand."

The Minister said construction of an access ramp, external drainage and other civil works was continuing at the Edgewater site.

"The work schedule in the next few months will focus on installing cladding on the outside of the building, followed by painting and an internal fit-out," he said.

"This will be the latest in a series of public transport projects the State Government will deliver on time and under budget, including the Perth Busport and the Butler rail extension project."

Fact File

- There are more than 66,000 daily passenger boardings on the Joondalup Line
- New car parks at Edgewater and Aubin Grove stations will bring the total number of train station car bays built by the Government since 2008 to more than 8,900

Groundbreaking news: major works start on Gold Coast Light Rail Stage 2

JOINT MEDIA RELEASE

Queensland Minister for Transport and the Commonwealth Games Stirling Hinchliffe

Federal Minister for Urban Infrastructure Paul Fletcher

City of Gold Coast Mayor Tom Tate

Helensvale station is set to become the most advanced, modern public transport interchange in the country, with major works now underway to build the \$420 million Gold Coast Light Rail Stage 2 extension.

Minister for Transport and the Commonwealth Games Stirling Hinchliffe, joined the Federal Minister for Urban Infrastructure Paul Fletcher and City of Gold Coast Mayor Tom Tate, to officially turn the sod and mark the start of infrastructure construction.

"Construction work will now accelerate in the race towards the Gold Coast 2018 Commonwealth Games and will support up to 1000 direct and indirect jobs during construction and operation," Mr Hinchliffe said.

"Bulk earthworks and excavation are underway to prepare for the installation of the track to ensure this gold medal project is Games-ready before April 2018.

"In an Australian-first, the Stage 2 project will also deliver the first public transport station that will integrate all modes of passenger transport.

"The project will transform Helensvale station into a key public transport connector with heavy rail, light rail, buses and taxis within the same station footprint.

"Importantly Stage 2 will link Brisbane and the Gold Coast by rail with Helensvale becoming the vital connection in a one-transfer journey.

"This public transport hub will provide a bold new point of entry to the area and will also support the 2018 Commonwealth Games transport task with up to 3000 people an hour able to be moved by light rail from Helensvale into Southport, Surfers Paradise and Broadbeach.

"Four new trams will be required to service Stage 2 and they have already been ordered. They will be built in Germany and arrive in Australia by October 2017 and a total of 18 light rail vehicles will service both stages."

Federal Minister for Urban Infrastructure Paul Fletcher said when stage 2 operations begin in early 2018, public transport users will have a one-transfer journey from Brisbane to the Gold Coast and the option of stopping at any of the 19 light rail stations with bus connections at key activity centres between Helensvale and Broadbeach.

"Helensvale Station on the Gold Coast will become a modern, multipurpose transport hub providing local and international visitors with effective and flexible transport options in time for the Commonwealth Games in 2018," Mr Fletcher said.

"This project will be vital to the success of the Commonwealth Games with visitors and spectators expected to generate strong demand for public transport during the Games.

"But it will of course deliver continuing benefits following the Games, offering light rail connectivity between key Gold Coast locations and connecting to the heavy rail network at Helensvale. This will bring benefits for many years, as the transport task expands in line with expected population and economic growth on the Gold Coast."

Mayor Tom Tate said the Stage 2 light rail connection and duplication of the heavy rail line from Helensvale to Coomera would also unlock further economic potential for the region with the public already seeing this growth on two parcels of land near Helensvale station.

Private developer Villawood will build a 620-house and 1500-apartment estate on the site of the former Gold Coast Country Club. Another developer Villa World plans to develop former farmland just to the south into the 395-lot Arundel Springs project.

"Future residents of these developments will have easy access to the Helensvale transport interchange and by extending the existing light rail system it will ease congestion, improve accessibility across the region and support

economic growth," Mr Tate said.

GoldLinQ Chairman John Witheriff said construction activity would continue across the alignment into the second half of 2017 when testing and commissioning of the Stage 2 extension was scheduled.

"There will be significant construction activity over the next 12 months as we focus on delivering this vital infrastructure however all efforts will be made to minimise the impact on residents and motorists," Mr Witheriff said.

"We are committed to ensuring Stage 2 construction supports the Gold Coast. This will be a local job built by local workers and contractors.

"About 140 local businesses have registered on CPB Contractors industry register and we are looking for more.

"We are once again focused on bettering the targets we have set for local participation and are confident this will be achieved due to skilled workforce and companies we have here in our city."

Stage 2 will contribute to the Queensland and local economy by providing up to 1000 direct and indirect jobs during construction, providing an immediate boost to the construction industry and long-term benefits to tourism and other Gold Coast industries.

Stage 2 will include three new light rail stations at Parkwood East, Parkwood and Helensvale and an extra 1400 park'n'ride carparks at Helensvale and Parkwood stations.

The \$420 million project will be delivered with a \$270 million contribution from the Queensland Government, \$95 million from the Australian Government and up to \$55 million from the City of Gold Coast.

For more information on construction of Stage 2 visit www.gclstage2.com.au

Report provides encouraging mid-term forecast for Queensland major projects industry

Construction Skills Queensland (CSQ) and the Queensland Major Contractors Association (QMCA) have released their 2016 Major Projects Report update which shows a better than expected outlook for the state's construction industry over the next two years.

The new report, which provides an update on the CSQ/QMCA Major Project Report released in February, shows an improved forecast for 2016/17 and a significant increase for 2017/2018. It is expected the level of activity in 2017/2018 will not only exceed previous forecasts but also be 50% higher than 2016/2017.

According to the report, the rise in activity will be driven by accelerated or new projects such as the Ipswich Motorway Stage 1 and the North Coast Freight Rail Capacity. Higher forecasts for telecommunications (NBN) and electricity forecasts for telecommunications (NBN) and electricity (renewables) works.

CSQ CEO Brett Schimming said it was pleasing to see the industry returning to modest growth.

"During the last five years we have seen engineering construction activity returning to normal levels after reaching a historic high during the resources boom. This trend is expected to continue for the remainder of this year," he said.

"However in 2017/2018 the industry will begin a slow recovery, with the value of engineering construction work set to rise.

"The recovery has come sooner than expected with progress being made on the Amrun and Dugald River projects."

With many large projects on the horizon, Mr Schimming said it was vital for the industry to retain a skilled pool of workers.

"Civil construction occupations will continue to be important to help build and maintain infrastructure assets including railways, ports and harbours, roads, pipelines, energy and telecommunications," he said.

"It is vital these skills are retained by the industry to meet the next cycle of construction work that will be shaped by private and public infrastructure along with resource investment decisions," he said.

"CSQ is working closely with industry and government to ensure that these sectors have the right skills, in the right place and at the right time.

"A flexible and innovative construction workforce is more vital than ever to meet the skills demands of the future."

The report highlights public investment as a key growth driver for major projects in the coming years.

"Historically low construction and capital costs represent an opportunity for State and Federal Governments to embrace productivity-enhancing public infrastructure investment," he said.

"Commodity prices may fluctuate in the future which could place some major resource projects in jeopardy so it is important that we remain committed to infrastructure spending to help mitigate these risks. "

For more information about CSQ's workforce skilling initiatives, please visit www.csq.org.au.

71% think government should do better job on BIM

Industry has strongly called for greater consistency and harmonisation on government activities relating to Building Information Modelling (BIM) at a forum in Sydney hosted by industry association Consult Australia, with 71% of those surveyed indicating current procurement of BIM as below average.

BIM is now commonly specified in construction contracts as clients seek to drive innovation and new technologies on their projects. In response to this change, the supply chain is building capability and BIM techniques are now rapidly becoming business-as-usual for large-scale projects.

Consult Australia believes all jurisdictions should be part of the National Digital Engineering Working Group and that industry collaboration is essential to deliver the maximum potential benefits from approaches such as BIM.

State Manager, Matthew Trigg, says there is presently no common definition or understanding of BIM, or an awareness of how this will impact government and industry alike.

"It is great to see governments moving on BIM, but their paths are not aligned and it is causing problems."

"The benefits of BIM and other digital approaches can be better harnessed. We need to move away from the too often occurrence where positive outcomes are dependent on the knowledge and interests of single individuals within government or industry."

"Policy makers need to recognise the positive benefits of avoiding the future complications that will come from jurisdictions not working with a common purpose."

Attendees at the forum were asked how they rate the current procurement of BIM by government, with 27% stating 'very poor', 44% as 'poor' and 29% as 'average', with none indicating 'good' or 'very good'.

The forum explored implementing a BIM mandate or whether the focus should be on creating greater harmonisation on areas such as standards, language, skills and competency. At the start of the forum 93% of attendees expressed support specifically for a BIM mandate in Australia, with this falling to 69% by the end of the discussion.

Creating a Common Vision

"The need for government and industry to collectively create a supportive policy environment has become increasingly essential in order to enable the benefits of new technology and approaches," says Mr Trigg.

To help achieve this Consult Australia is establishing a Digital Built Environment Task Group open to representatives from industry and government with demonstrated experience and overseen by the Consult Australia Innovation Roundtable.

"The intention is to break through the technical language and marketing rhetoric and focus decision makers on those actions that will help to ensure the delivery of long term benefits."

Expressions of interest to join the Task Group should be sent to matthew@consultaustalia.com.au

Making Space Boosts Returns

“A lower thermal conductivity can result in thinner insulation. A thinner insulation can result in thinner external wall construction. A thinner external wall construction can result in greater internal floor area. A greater internal floor area can result in a greater Return on Investment (ROI).”

New research findings report a return on investment can be as high as 856 per cent when analysing the use of advanced slimline wall insulation solutions in new non-residential buildings, when compared with conventional solutions using glass wool fibre batts.

World-leading asset management and construction consultancies, Currie & Brown Australia and Sweett Group UK were commissioned by Kingspan Insulation to investigate the “Real Value of Space in Commercial Real Estate”. The study was to quantify the potential financial benefits that result from insulating the external walls of new non-residential buildings using Kingspan’s high performance slimline wall insulation solutions.

Currie & Brown and Sweett Group developed a research program to analyse the thickness differentials of various insulation systems and evaluate their impacts on costs and returns in a development. They then analysed three case study buildings to illustrate the outcomes of the analysis.

Concrete external wall constructions were examined and two Kingspan Kooltherm build-ups were compared against conventional steel stud-and-track wall systems using 90 mm glass wool fibre batts. The differential in thickness and cost were taken into account in the analyses.

The study found that Kooltherm K12 and K17’s slimline design allowed for thinner external wall build ups, returning a greater internal floor area, and the potential for an improved return on investment.

The findings show that despite the requirement for an increase in capital expenditure of \$18.03 per square metre for the wall build-up using Kingspan Kooltherm® K12 Framing Board, a positive return on investment was found for all scenarios with rental rates of \$400 per square metre or greater, across all yield rates, the highest of which was 856 per cent. Finally more than 70 per cent of the building scenarios analysed showed a positive return.

The study also found that because Kingspan Kooltherm® K17 Insulated Plasterboard is cheaper as an installed system than conventional steel stud-and-track wall systems incorporating 90mm glass wool fibre batts, every square metre of additional space created with this system produced a net gain in value.

Kingspan Insulation Technical R&D Manager, Keith Anderson, says that is partly because Kooltherm K17 does not require framing.

“The rigid Kooltherm insulation board is already pre-bonded to plasterboard so it can be fixed directly to a solid wall without needing any framing, making it both quicker to install and thinner.”

Anderson adds that both the Kooltherm K12 and K17 systems both facilitate internal space gains without having to increase the overall footprint of a building.

“The width of external walls incorporating Kingspan’s Kooltherm concrete wall insulation systems is up to 16 per cent slimmer than the built up width of concrete walls using glass wool fibre batts in a stud-and-track system,” he said.

“Kingspan’s Kooltherm wall insulation solutions feature ultra-low conductivity, which means they can achieve the same thermal performance as glass wool fibre batts in a much thinner profile.

“While commercial real estate values continue to be at a premium, Australian developers and their design teams will continue to be under increasing pressure to maximise usable internal areas to boost returns on their investment in new commercial buildings. These new research findings very convincingly demonstrate the first step,” Anderson says.

Government needs to work with industry on asbestos imports

The Australian Chamber of Commerce and Industry, Australia’s largest business network welcomes the findings of the Asbestos Importation Review Report and encourages the Government to work with industry representatives to communicate consistent messages to stakeholders.

The report by KGH Border Services AB, examines the effectiveness of the Department of Immigration and Border Protection procedures for managing border control of products containing asbestos.

James Pearson, CEO of the Australian Chamber, said: “We support the recommendations for cooperation with organisations representing industry, to improve the effectiveness of information, communication and education involving businesses and other parts of the community.

“I am concerned to see that some unions are

using the asbestos issue to build public opposition to the flow of trade and to pressure the Federal Government to disengage from negotiations for free trade agreements.

“The importation of products containing asbestos needs a proper response, but it would be taking the proper concerns over this issue too far to use this as an excuse to economically isolate ourselves.

“Asbestos is still widely used in some countries. Importers are obliged to ensure they do not import prohibited asbestos into Australia. Importers and consumers must have confidence that products that enter our markets are asbestos free and safe for use, but identification, testing and certification pose challenges.

“Certification from overseas manufacturers that goods are asbestos-free is sometimes incorrect or unreliable. Importers need to be aware that

an overseas testing certificate is not evidence of compliance with Australian law.

“It is hard to tell if a product contains asbestos just by looking at it. Identification can only be done by testing a sample at an accredited laboratory. Government agencies need to do more to support importers and consumers, and ensure compliance before the border and at the border.

“Prosecutions are an inappropriate measure of success. Rather, we encourage voluntary compliance, in conjunction with information and education. We encourage strong enforcement where needed, but voluntary compliance delivers more sustainable outcomes.

“The Australian Chamber network is keen to work with the Federal Government to ensure business and others in our community get this right.”

Report on the Operation and Effectiveness of the Construction Contracts Act (2004) tabled by Minister for Commerce

On 16 August 2016, the Minister for Commerce and Attorney General, the Honourable Michael Mischin, tabled the report on the Review of the Operation and Effectiveness of the Construction Contracts Act (2004). The review was conducted over an 18 month period by Professor Phil Evans from the University of Notre Dame School of Law. Professor Evans is a Fellow of the AIB and a Past President of the WA Chapter.

The review was required to meet the periodic statutory requirements to examine the operation and effectiveness of the Act and to respond to serious issues with respect to construction administration which have arisen in Western Australia in recent years. The review specifically provided all sections of the construction community and professional associations, with an opportunity to provide written and verbal submissions as to their concerns for the attention and deliberation of Professor Evans. A submission was received from the AIB. Professor Evans also conducted numerous hearings during

the review process.

In his introductory speech the Minister stated;

"The principal objective of the Act is to improve security of payment by providing a rapid adjudication process for determining payment disputes under construction contracts. Professor Evans concluded that in its 10 years of operation, the Act has provided a very useful scheme for resolving payment disputes and continues to provide contractors, subcontractors and suppliers with a rapid low-cost method of resolving payment disputes. Professor Evans has not identified a need for significant structural reform; rather, his report contains 28 recommendations to improve the operation and effectiveness of the Act".

Professor Evans who in addition to his legal qualifications is a graded arbitrator, accredited mediator and registered adjudicator said;

"I am pleased to have been able to undertake

this important review and particularly note that the adoption of my recommendations will have a significant effect on construction administration and dispute resolution in Western Australia as a consequence of amendments to the Act and the introduction of new legislation and government policies."

As a result of Professor Evans' review and the adoption of his recommendations, the state government intends to develop the necessary amendments to be brought before the Parliament as a priority. The Building Commission has introduced a number of initiatives to improve industry awareness, including information on rapid adjudication; public information and awareness sessions on the Act and how to properly use its processes to resolve payment disputes; good contract management practices and facilitating access to useful financial and risk assessment information.

The government will also introduce a code of conduct for tenderers on state government funded construction projects. This code will be used to actively weed out bad behaviour on building sites, poor payment practices and anti-competitive behaviour.

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Australian PCI®: Construction continues to expand in July

The national construction industry expanded for a second consecutive month in July, though at a slower pace, with the Australian Industry Group/Housing Industry Association Australian Performance of Construction Index (Australian PCI®) falling 1.6 points to 51.6 (readings above 50 indicate expansion in activity, with the distance from 50 indicating the strength of the increase).

Ai Group Head of Policy, Peter Burn, said: "The construction sector grew again in July despite drags from the engineering construction and apartment sub-sectors. The overall growth came on the back of further expansion in house building and a modest uplift in commercial construction. Encouragingly, new orders were higher in July in all sub-sectors other than engineering construction which saw a modest fall. July saw the construction sector continuing its own rebalancing with the emphasis shifting away from mining-related projects to the residential sub-sectors and, more recently, with signs of a growing pipeline of transport infrastructure work," Dr Burn said.

According to HIA Senior Economist, Shane Garrett, "The Ai Group-HIA Data for July 2016 are consistent with the process of realignment of new home building activity. Apartment building is falling back from record levels while detached house building is a bit stronger. We expect that the share of new home building accounted for by apartments will decline to more long-term levels over the next few years. The failure of the major banks to pass on a recent RBA interest rate cut means that any benefits for new home building activity are likely to be limited," Shane Garrett added.

Australian PCI®: Key Findings for July:

- New orders (down 0.4 points to 51.7) and employment (down 1.7 points to 52.2) expanded at softer rates in July, while the activity sub-index

contracted marginally (down 4.1 points to 49.8) after June's return to growth.

- Across the four construction sub-sectors, apartment building returned to negative territory (down 7.2 points to 48.0) after June's strong recovery, but house building recorded a third month of growth (down 7.2 points to 54.9).
- Commercial construction expanded at a slower rate in July (down 1.5 points to 51.8), while engineering construction returned to contraction (down 2.1 points to 48.6).
- Growth in the wages sub-index continued in July (up 3.6 points to 66.7), while the input prices sub-index remained elevated (up 1.8 points to 69.3). The selling prices sub-index was largely unchanged at 51.2.

Background: Background: The Ai Group/HIA Australian PCI® is a seasonally adjusted national composite index based on the diffusion indexes for activity, orders/new business, deliveries and employment with varying weights. An Australian PCI® reading above 50 points indicates that construction activity is generally expanding; below 50, that it is declining. The distance from 50 is indicative of the strength of the expansion or decline.

The Australian Industry Group (Ai Group) is a peak industry association in Australia which represents the interests of more than 60,000 businesses in an expanding range of sectors including: manufacturing; engineering; construction; food; transport; information technology; telecommunications; labour hire; and defence. The businesses which we represent employ more than 1 million people. aigroup.com.au

	Index this month	Change from last month	12 month average		Index this month	Change from last month	12 month average
Australian PCI®	51.6	-1.6	49.6	New Orders	51.7	-0.4	48.6
Activity	49.8	-4.1	49.0	Employment	52.2	-1.7	51.3
Houses	54.9	-7.2	51.3	Deliveries	54.1	+1.2	50.1
Apartments	48.0	-7.2	55.5	Input Prices	69.3	+1.8	68.2
Commercial	51.8	-1.5	47.6	Selling Prices	51.2	-0.1	47.6
Engineering	48.6	-2.1	45.3	Wages	66.7	+3.6	60.8
				Capacity Utilisation (%)	75.7	-3.0	74.7

AUSTRALIAN PROPERTY INDUSTRY SHOWING GLOBAL LEADERSHIP ON ENVIRONMENTAL PERFORMANCE SAYS NEW REPORT

The 2016 GRESB report shows Australia's largest property companies continue to lead the world on environmental, social and governance (ESG) performance.

Australian and New Zealand property companies continued their global leadership for the sixth year running, outperforming other regions with an average score of 74, compared to the global average of 60.

"This result confirms once again that is our industry is a world leader that is serious about cutting emissions and energy usage", said Ken Morrison, Chief Executive of the Property Council of Australia.

"This is leadership and action. We are seeing carbon reduction treated as an integral part of property management.

"We're also seeing companies and funds report on health and wellbeing indicators for the first time, particularly in the better performing companies.

"Congratulations to the four Australian entities that received special recognition in the GRESB Report – the Lendlease Sub-Regional Retail Fund, DEXUS Office Trust, Australian Prime Property Fund Commercial (Lendlease) and Stockland (Diversified – Retail/Office)".

"This is Aussie leadership that is making real progress in terms of emissions, energy and water usage.

"Australia has made ambitious commitments as part of the Paris Agreement and we believe the property industry can play a significant part in helping Australia meet its international commitments.

"While companies and funds in Australia and New Zealand are competitive, they are unusually open in collaborating and in sharing experiences and insights."

The Property Council's National Sustainability Roundtable provides a forum for sustainability leaders of the industry to drive industry-wide strategies for sustainability initiatives and guide advocacy for effective government policy.

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Highly respected SA businessman, the new face of facades

His family-owned steel engineering company helped build many of South Australia's iconic structures, now 10 months after that business closed, Vince Manuele is back to lead a new company which is set to change the face of facades across Australia.

Mr Manuele has been appointed General Manager of SYNERGY FACADES, an expansion of local construction company SYNERGY CONSTRUCT. He turned down offers to stay in steel, instead choosing to forge a new direction with SYNERGY CONSTRUCT. Directors Michael Gramazio and Craig Weaver.

"Michael and Craig have a fire in their bellies, they're extraordinarily passionate about what they're trying to do with facades. When I saw that level of passion I thought, they're on a mission, they're going to achieve their mission and I want to play a role in that process," he said.

"I am extraordinarily excited about this because in the near future this will be the go to business in Australia. We'll be considered the best at what we do by a country mile and

I'm going to champion that."

The 52 year old father of three has 30 years' experience in steel fabrication and previously managed a state of the art production facility along with 150 staff. He said the shift from running his family-owned steel business to working within a larger company has already been a rewarding learning curve.

"My perceptions of China have changed completely, when I saw what they were doing there. The level of sophistication was significantly higher than what I'd perceived it to be. I started to think that some of my historical thoughts of Chinese products were incorrect."

Established in 2013, SYNERGY CONSTRUCT has made a name for itself as General Builder for its commercial high rise building at 115 King William Street, Adelaide's 4th tallest building, as well as façade and structural works at Vue on King William and Whitehorse Towers at Box Hill in Melbourne.

Director Michael Gramazio said as builders, they saw a gap in the market for a façade

contractor offering a complete design and construction service, particularly for larger and more complex projects.

"Every Australian capital city is screaming out for façade contractors that can deliver big, complicated projects. There really is only a handful of contractors that can meet the demands of the market in that space," said Mr Gramazio.

"Having a building background has given us a huge advantage. We understand the technical requirements of building facades and how to integrate them with the building itself, while having the foresight to identify any risks or issues. We offer something that I don't think the industry has really ever had before.

While noting a difficult time in the South Australian economy, Director Craig Weaver said moves to diversify the business has been the right one and will ensure they meet their target for an annual turnover of \$80 million by 2018.

Australian appointed as Vice-President (Finance) of International Organization for Standardization (ISO)

Standards Australia CEO, Dr Bronwyn Evans, has been appointed Vice-President

(Finance) of International Organization for Standardization (ISO), the world's largest developer of international standards made up of members from the national standards bodies of 163 countries.

Dr Bronwyn Evans said that the appointment reinforces Australia's leading role internationally at technical, governance and policy levels.

"This demonstrates Australia's leadership position globally as a key contributor to international standards supports industry and trade policy and strengthens links in the international standards setting system.

"ISO international standards can remove barriers to world trade by providing the technical basis on which political trade agreements can be put into practice, whether they are at the regional or international level.

"Standards Australia has already positioned Australia as a leading standards organisation with Australia driving world-first projects, like blockchain standards," said Dr Evans.

President-elect of ISO and CEO of Standards Council of Canada, John Walter, said he is pleased to welcome the expertise of Dr Bronwyn Evans' standing to the ISO team.

"She will have an important contribution to make in terms of competitiveness, innovation and

productivity, said Mr Walter.

Minister for Industry, Innovation and Science, The Hon Greg Hunt MP, has welcomed the appointment.

"Standards are vital technical infrastructure in any advanced economy, ensuring the safety and quality of products and services, facilitating international trade and improving the environment in which we live in.

"This two year term as one of the ISO governance and policy leaders further embeds Australia's role as an innovative economy in the global context," said Mr Hunt.

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AICD to provide stronger support for Tasmanian businesses and their boards with expanded whole-of-board offering

Tasmanian companies are set to benefit from the expanded range of governance services offered by the Australian Institute of Company Directors (the AICD).

Well-known for its prestigious director training programs, the AICD decided to introduce this new, tailor-made approach to enable sector-specific and organisation-specific issues to be covered in-depth.

By extending the range of services offered, the AICD is able to provide stronger support for local businesses and their boards. The AICD works across all sectors: listed, private, public and not-for-profit.

"This is an exciting opportunity for Tasmanian businesses. Our local team has a strong presence in the state and is well placed to provide assistance to companies and organisations based here," said Cathie Goss, State Manager, Tasmania, Australian Institute of Company Directors.

Numerous Tasmanian organisations have already benefited from the comprehensive training provided by the AICD and some of them have collaborated on bringing in additional partners to share in the training. These include The Training Consortium (TTC), TasBuild Limited (TasBuild) and General Practice Plus.

TTC is a business unit of the Department of Premier and Cabinet and has been operating for approximately 20 years on a self-funded basis. The organisation provides a unique and collaborative model for a whole-of-public sector approach to training for Federal, State and Local Government entities based in Tasmania as well as other interested bodies who wish to take part in the training programs being offered.

With a focus on public-sector relevant programs including policy and skills-based training, the Australian Institute of Company Directors (AICD) collaborated with TTC to deliver The Role of the Director and the Board and Introduction to Board Meetings courses.

"We were pleased that two thirds of the participants were women. With the Government's aim to increase gender equity on Tasmania's government boards and committees this was a great opportunity for women to develop their understanding of the operations of boards and what they need to do to position themselves for future board positions," said Andrew Street, Business Manager, The Training Consortium.

Governance is also a priority for TasBuild where strategic planning is paramount in ensuring that the members' Long Service Fund is well managed. A trustee company, TasBuild manages the Fund for workers in the construction industry and is itself governed by a board of directors consisting of employer and employee members. TasBuild has embarked on a number of different governance training programs with the AICD. 2

When there was a change of board directors in 2011, the company arranged for their members and board to participate in the Strategic Planning and In the Boardroom courses with the AICD. "We see professional development as vital for our member organisations with governance being a key focus," said Chris Atkins, Chief Executive Officer, TasBuild.

General Practice Plus is another Tasmanian business recognising the importance of governance training. The expanding medical practice took a novel approach and opened up The Role of the Director and the Board training program undertaken with the AICD to their contractor doctors as well as their own board directors.

Sharon Breen, Business Manager, General Practice Plus said, "We are now all aware of the importance of governance in building a business. The training itself was very worthwhile for all the attendees, but in particular for our directors who did not come from a business background."

TasBuild Builds for the Future with Ongoing Governance Training

In 1971, Tasmania became the first state to set up a system for portable long service leave in the construction industry which is still to this day, characterised by transient employment. Since that time, all other states and territories have followed suit with the establishment of reciprocity amongst states for service accrual.

Up until 1998, the Long Service Fund was administered by the Tasmanian Government but this changed with the setting up of a trustee company TasBuild Limited, to manage the Fund. Only Tasmania and Victoria have trustee companies administering the funds with the state government undertaking this role in the other states and territories. All jurisdictions work closely together to ensure portability across state borders.

TasBuild's board of directors is composed of equal representatives of employee and employer organisations who are appointed by their organisation with an independent non-voting Chair. This means that the board needs to reach a consensus when making decisions which as it turns out, is generally not an issue. The board also has an Investment committee which includes the CEO and an independent member with a finance background.

Governance is a priority for TasBuild where strategic planning is paramount in ensuring that members' funds are well managed. The company sees governance as an ongoing process which not only affects its board but senior staff, member organisations and their own members. TasBuild has therefore embarked on a number of different governance training programs with the Australian Institute of Company Directors (AICD).

When there was a change of board directors in 2011, the company arranged for their members and board to participate in the In the Boardroom course. "Our board directors now have a clearer idea of the respective roles of board and management and furthermore, are more willing to have robust discussions at board meetings," added Atkins.

Chris Atkins, Chief Executive Officer, recently arranged for the directors to participate in the Strategic Planning course with the AICD. "We see professional development as vital for our member organisations with governance being a key focus," said Atkins. "Members don't have time to arrange training themselves so we were very pleased to be able to facilitate this with the AICD."

Many organisations such as TasBuild find that an important outcome of governance training is that the board becomes a more cohesive working unit with members better equipped to ask difficult questions. In the case of TasBuild,

the board receives board papers more than a week in advance to encourage thorough scrutiny of the material.

Given that the company has total assets of \$110 million, Atkins sees governance as an ongoing process and one that doesn't just occur with a change of board directors. He envisages further training in the future including a commitment to continue funding board

members to undertake the AICD's Company Directors Course. To date, five of the current board members have completed this course in addition to the CEO and Chair of the company.

Tasmanian businesses wishing to enquire about the AICD governance programs can contact Richard Chloewick on 03 9245 4250 or rchloewick@aicd.com.au

The Australian Institute of Company Directors is committed to excellence in governance. We make a positive impact on society and the economy through governance education, director development and advocacy. Our membership of more than 38,000 includes directors and senior leaders from business, government and the not-for-profit sector.

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electrics are preconfigured and ready-adjusted at the factory, creating less work for both the operator and system provider when it comes to planning, installation, certification, documentation and commissioning.

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All blowers in this range come with an internal Sigma Control 2 controller. Blower mode selection, such as remote speed control or pressure control, is therefore made quick and easy - all at just the press of a button.

Performance parameters relevant for dependable blower performance are monitored by sensors, and warning or fault signals are automatically generated accordingly. Optional communication via databus (multiple databus systems can be connected) allows operational status read out and enables the machine to be remotely controlled.

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Falzé di Piave (Italy), A new range of armchairs and sofas created to provide great comfort with a line that oozes absolute elegance.

Featuring original refined “Volant” upholstery, Britt solutions come with plain fabric or leather covers that can be removed to facilitate washing and “maintenance”.

The Britt range also has a special finishing touch with same colour visible stitching on the fabric covers and with raw-cut edges for the leather ones.

The armchair and sofa frames are in metal and wood and the padding combines polyurethane and eco-feathers, an innovative material made of silicone polyurethane microfibre flakes.



BUILDING BOOST FOR VICTORIA'S POWERHOUSE ECONOMY

Victoria has recorded the strongest monthly growth in the value of building approvals across the nation according to Australian Bureau of Statistics data.

One of only two states to record positive growth, Victoria's building approvals rose by 5.5 per cent to \$2.93 billion in the month of August.

While the value of Victoria's approvals increased, nationally, the total value of building approvals fell by 7.7 per cent to \$9.11 billion – driven by a decrease in the value of non-residential approvals.

During the 12 months to August, Victoria recorded a 28 per cent increase – compared with the national increase of only 4.4 per cent.

Victoria has contributed to 29 per cent of Australia's total dwelling unit approvals during the same period, well above its population share.

The building approvals generation comes as the Victorian economy continues to surge, leading the nation in economic and jobs growth.

Since the Labor Government was elected in November 2014, more than 176,000 new Victorian jobs have been created – with about 117,000 of those full time.

Quotes attributable to Acting Treasurer Robin Scott

“Victoria's strong and disciplined financial management continues to drive our economy, boosting opportunities across our great state.”

“Our powerhouse economy is leading the nation, with population growth, employment and construction activity all reflecting the ongoing work of the Andrews Labor Government.”

Have your say on the NSW self-insurance licensing framework

As part of its efforts to achieve better outcomes for injured workers, the NSW State Regulatory Insurance Authority (SIRA) released a discussion paper and report on potential workers compensation self-insurance licensing arrangements.

The release of the discussion paper and report is the second stage of SIRA's review of NSW self-insurance arrangements which aims to develop an innovative self-insurer licensing framework that will provide strong, fair, results-focused regulation of insurers and improved outcomes for injured workers.

Under the NSW workers compensation system, employers can become licensed to insure their workers against workplace injuries and administer their own claims. SIRA licenses 55 self-insurers that make up approximately 11 per cent of claims in the NSW Workers Compensation Scheme.

The release of the self-insurance licensing framework review discussion paper includes a PricewaterhouseCoopers Australia (PwC) report containing recommendations on a new licensing framework.

Deputy Secretary Better Regulation, Department of Finance, Services and Innovation and Chief Executive of SIRA, Anthony Lean encouraged self-insurers and stakeholders to have their say on the discussion paper.

"SIRA commenced a review of the self-insurance licensing scheme in August 2015 in an effort to achieve better workers compensation outcomes through smarter regulation," Mr Lean said.

"PwC was engaged to assist with the review and has developed a report based on stakeholder responses to an issues paper which was released in November 2015.

"The report contains 16 recommendations on the design of a new licensing framework which, if adopted, would incentivise self-insurers to improve workers compensation outcomes by providing a level of earned autonomy for high performers which is supported by continuous assessment of self-insurer performance.

"Key recommendations include the implementation of a tiered supervisory model with top tier requirements, establishment of an integrated and automated data analysis system to regularly assess and report performance and an increase in the maximum licence term from three to eight years.

"The release of the discussion paper and PwC report is part of SIRA's efforts to seek further stakeholder feedback on a new self-insurance licensing framework and I encourage self-insurers and those with an interest in self-insurance licensing arrangements to again have their say."

Mr Lean said following the consultation period, SIRA would release the Self-Insurance Licensing Framework in early 2017.

"Following the release of the new licensing framework, there will be a transitional period to enable self-insurers to adjust their operations to meet licensing requirements," he said.

"SIRA intends to implement the new licensing framework by mid-2017 with the objective of establishing fit for purpose, best practice self-insurance licensing that incentivises self-insurer performance to achieve better outcomes through smarter regulation."

The discussion paper, which includes standard licensing conditions and insurer top tier requirements, as well as the PwC report, is available on the WorkCover website www.workcover.nsw.gov.au.



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CSQ delivers a \$35 million boost for the Queensland construction industry

Construction Skills Queensland (CSQ) has announced it will invest more than \$35 million in a range of innovative skilling and training initiatives to help the industry transition into a new era. The major investment was revealed in CSQ's 2016-2017 Annual Training Plan.

CSQ CEO Brett Schimming said the Training Plan would help the state to build a skilled workforce that meets the evolving needs of the construction industry.

"In our 2016/17 Training Plan we have outlined a comprehensive investment strategy that will provide vital training support to Queensland's building and construction career seekers, apprentices, workers and employers," he said.

"The plan has been developed through extensive consultation with industry and is underpinned by extensive data and research.

"We are providing pathways for talented people to get started in building and construction, assisting existing workers to develop new skills and offering initiatives that will help employers to retain the best people in our industry.

"For 21 years CSQ has played an active role in developing a strong and capable construction industry. This year's training plan builds on this experience and will help to ensure we have the right skills where they are needed most."

Future proofing the construction industry is a key priority for CSQ with the demand for improved productivity driving demand for

greater use of technology industry-wide.

Mr Schimming said the potential benefits of new technology would not be realised by the industry if the workforce did not have access to cutting edge training.

"This year we have invested significantly in our existing workforce, through higher level skills training and short courses and this will ensure Queensland's construction industry has the necessary skills to deal with the technological advances that are fast coming our way," he said.

"We remain committed to educating our workforce on the importance of constantly upskilling and training throughout their entire career and we are here to support and guide them throughout this process."

In addition to upskilling the workforce, CSQ is investing \$500,000 in the CSQ Futures program to identify and collaborate with partners on projects that support new technologies.

The Program will provide seed funding for high-tech training products or processes that have the potential to stimulate growth or impact the skills needed within the industry.

Attracting new workers remains another important focus area for CSQ.

"While apprentice numbers are surging, we are conscious of the fact that our attrition numbers remain fairly high, so we need a steady intake of new industry entrants," Mr Schimming said.

"We have a number of programs to help young people to get started in the industry including interactive events for school students and a central online portal for information about careers in construction."

Research in the Training Plan

reveals an optimistic outlook for Queensland's construction industry.

Mr Schimming said several factors are responsible for the sector's encouraging performance.

"The roller-coaster that was the mining industry over the past decade appears to be behind us, with engineering construction activity stabilising after falling from historic highs in 2012. We expect to see a slight increase in activity in this sector in the coming year and overall we anticipate a steady growth trajectory for the construction industry as whole," he said.

"Lending patterns are impacting the apartment and housing sectors, with the surge in investor apartments finally tapering off.

"Owner occupiers are returning to the market in abundance and they are building new homes rather than renovating, which is great news for our industry. Houses are typically more labour intensive than apartment buildings and provide more opportunities for small construction businesses.

"The commercial construction sector is also forecast to continue growing."

In a further commitment to the industry's future, CSQ is partnering with the CSIRO on Farsight – a world first project that is examining the impact of technology and social changes on the construction workforce.

"As an industry we need to put ourselves in a position that allows us to embrace change," Mr Schimming said.

"The Farsight project is another way in which we are arming ourselves with the knowledge that will help us to make wiser choices and navigate our way through an uncertain future.

"We are leading the industry's thinking at the intersection of construction skills and technology."

For more information about CSQ programs and services visit www.csq.org.au



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More than your average Joe

Project Management are the new buzz words

CQUniversity graduate Joe Sammut is currently working 14 storeys below the streets of New York on a \$10.2 billion project.

This project, which is on track to begin services in December 2022, is designed to bring the Long Island Rail Road into a new East Side station that will be incorporated into Grand Central Terminal.

Employed as a Superintendent for Tutor Perini Corporation on East Side Access, the 33-year-old is responsible for completing the new underground train station platforms and the installation of all tracks – a \$660 million contract.



"Initially I worked as a senior engineer overseeing the installation of \$300 million worth of structural concrete and associated mechanical, electrical and plumbing items for the newly-bored

tunnels and underground caverns," he said.

"This involved providing engineering, project management, procurement and commercial support to the superintendents and crews on site."

Now, as one of the superintendents, he is responsible for around 20-40 of the tradespeople and subcontractors involved in his areas of responsibility.

Joe described working 14 storeys below some of the busiest real estate in the world on this multi-billion dollar project as "incredibly fulfilling".

"Working in this type of environment is more than just a job," he said.

"I enjoy bringing the cutting-edge knowledge and experiences I gained in Australia – starting at CQUniversity – to the other side of the world."

It's roles like Joe's that CQUniversity graduates can look forward to in the future.

In fact, according to CQUniversity's Project Management Discipline Leader Richard Egelstaff, explains there is a 'massive transition' away from

jobs at traditional, asset-owning companies and departments and a rapid trend towards nimble, project services firms.

"The move to project-driven firms is a massive global phenomenon – about half the world economy is involved – but especially relevant in tropical Australia where we are opening up infrastructure."

The Project Management Institute (PMI) estimates that one-fifth of the world's gross domestic product is spent on projects and a huge demand exists globally for skilled project managers.

Addressing this global industry need, CQUniversity has invested in programs that are gearing up already skilled workers for career advancements in a variety of industries, including construction and engineering.

CQUniversity offers postgraduate programs in project management, from a Graduate Certificate to a Masters course, and also offers an undergraduate Bachelor of Construction Management (Honours) degree.

For more information regarding study opportunities in engineering, construction and project management visit www.cqu.edu.au/projectmanager.

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UTS Chilled Energy Supply Contract Makes an Australian First



- UTS takes the lead on sustainability by connecting to a local District Energy plant
- Significant energy efficiency improvements and cost efficiencies
- Innovative approach to sourcing cooling energy

In an Australian first, the University of Technology Sydney (UTS) has signed an agreement with Brookfield Energy Australia that will see the supply of cooling thermal energy under Broadway from the Central Park Thermal Plant.

In a move that will offer significant energy efficiency improvements, reductions in its environmental impact and even greater cost savings, UTS will soon source a proportion of its chilled energy requirements offsite from Brookfield's Central Energy Plant. This is the first contract of its kind that sees a precinct central plant providing energy beyond Central Park, becoming a true district system. UTS may be the first of many possible energy recipients in the broader Broadway and Ultimo precinct. This could catalyse further development of District Energy for the supply of efficient cooling for the broader Brookfield and Ultimo precinct, and around the cities of Australia.

Reflecting on sustainable future-proofing of properties, Richie Sheather, CEO of Brookfield Energy Australia said "Brookfield Energy Australia is pleased to be working with UTS on this innovative initiative. The more this plant is utilised, greater long-term energy cost efficiencies will be achieved for all users. We look forward to working with more properties in the local area to connect to this district system.

We see District Energy as a way of the future and anticipate working on similar initiatives in other parts of Australia".

Sydney Lord Mayor Clover Moore said thousands of apartments in the Central Park development were being supplied with clean energy from Brookfield's Central Energy Plant, installed as part of an environmental upgrade agreement with the

City of Sydney.

"It's great news the network is now expanding across the road to UTS, and we hope to see other businesses and building owners in the area take advantage of the environmental efficiencies and cost savings district energy systems can bring," the Lord Mayor said.

"With 80 per cent of greenhouse gas emissions in the City of Sydney area coming from buildings, it's important we keep looking for innovative ways to create sustainable, energy efficient developments."

Innovation

The UTS \$1.3 billion Campus Masterplan will see the development of new buildings and facilities that require further investment in onsite infrastructure which includes increases in chilling infrastructure to meet increasing air conditioning demand, crucial to keeping the campus operating smoothly for staff and students. Rather than investing in new chilling infrastructure that would require utilising significant space and a high capital investment, UTS has taken the innovative approach to source its cooling energy from a recently developed precinct cooling plant located across the Broadway strip and accessed by thermal delivery pipes that have been bored underneath busy Broadway.

UTS Deputy Vice Chancellor (Resources) Patrick Woods said, "UTS is committed to innovating and investing in research, working on new business models that will result in sustainable practices that have a positive effect on the precinct and the environment. We are constantly looking at ways we can reduce waste and our environmental footprint and the District Cooling project is just one example of our commitment in this area".

UTS Green Infrastructure Project Manager Jonathan Prendergast said, "Investment in new chilling infrastructure can be capital and space intensive, requiring new chilling plant, pumps, connecting pipework, cooling towers and electrical infrastructure. By procuring a portion of UTS's

cooling from an offsite supplier, UTS can invest in its core business and free up space for teaching, offices and a more active roof space without cooling towers."

"UTS already operate a large central plant that supplies heating and cooling to eight UTS Broadway Campus buildings. Offsite supply of chilling energy from Brookfield provides greater diversity of supply and redundancy for cooling the Broadway campus, reducing the risk of failure and outages," added Prendergast.

This initiative is made even more feasible as it takes advantage of the peak and off peak demands of the plant's current customer, Central Park. Brookfield's Central Energy Plant currently provides chilled energy to the Central Park apartments whose main peak demand is typically in the evenings and on weekends when its residents are more likely to be home. Conversely, UTS's peak demands are weekdays and during the hot afternoons in semesters, such as February and November.

Heating, cooling and ventilation accounts for approximately 62% of UTS's total electricity usage. The partnership with Brookfield Energy Australia will see UTS's greenhouse gas emissions reduced by approximately 2.2% or 1,111 tonnes CO₂-e per annum.

District energy systems are widely used internationally, particularly in North America and Europe. The Chicago District Cooling System is an example that supplies chilling to over 100 buildings in the Chicago CBD from just four energy plants. The Toronto District heating and cooling system services over 140 buildings and in Sweden, seven cities have district cooling systems.

UTS Commitment to Sustainable Projects

UTS continues to take the lead on sustainable projects. As part of its Campus Masterplan, UTS is upgrading existing buildings to reduce water and energy use, and is constructing new buildings that are certified to a minimum 5-star Green Star rating, as well as improving cycling facilities, constructing green roofs and walls, installing stormwater recycling and rooftop renewable energy and setting ambitious recycling targets for demolition and construction waste.

UTS's three new buildings, the Dr Chau Chak Wing building, Faculty of Engineering and IT building and the Faculty of Science and Graduate School of Health building have won multiple awards for their design, architecture and construction with the latter winning a hat trick of sustainability awards including a NSW Government Green Globe award, AIRAH Excellence in Sustainability award and an Architecture and Design Sustainability award. More recently, UTS has entered an agreement to source 15 per cent of the annual electricity consumption of the Dr Chau Chak Wing building from a solar farm in Singleton, New South Wales, in Australia's first offsite solar corporate direct Power Purchase Agreement (PPA).

The cooling contract will see the purchase of chilling energy requirements for a 15-year period and is due to be implemented in 2018.



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16325MR ASIC warns directors of construction companies using false declarations

As part of its ongoing work to curb illegal phoenix activity, ASIC has completed a proactive surveillance program that monitored the integrity of the payment systems in the Australian building and construction industry.

The surveillance program, carried out during the 2014/15 financial year, targeted eight large commercial construction projects across New South Wales, Victoria and Qld. ASIC checked the payment processes and systems of 40 individual building and construction companies (contractors) working on those projects.

The campaign identified concerns about the conduct of some companies within the building and construction sector, which may be falsifying statutory declarations when claiming payment from principal contractors for work undertaken.

The focus of ASIC's surveillance centred on:

- a) principal contractors requiring contractors to provide statutory declarations to confirm that the contractors have paid all amounts owing to employees and secondary contractors, before principal contractors pay invoice issued by the contractor; and
- b) contractors signing statutory declarations and providing it to principal contractors, in circumstances where it appears that contractors may not have paid all secondary subcontractors at the date of swearing the statutory declarations.

As a result of surveillance campaign, ASIC found that two contractors may have provided principal contractors statutory declarations that falsely claimed that secondary contractors had been paid at the time of signing the statutory declarations. ASIC also found that once the contractors had received payment from the head contractors, they subsequently paid all secondary contractors the amounts owing.

Both contractors were issued warning letters about their conduct and advised to review their internal compliance systems and processes.

ASIC has also identified a further two matters, outside of this surveillance program, where contractors have been engaged by a number of local councils and who have allegedly provided false statutory declarations where it appears that

subcontractors had not been paid at the date that the statutory declarations were signed. ASIC is investigating that matter.

ASIC Commissioner Greg Tanzer said, 'While this conduct may benefit contractors by improving their cash flow, the flow on effect is likely to cause significant detriment to other operators in the supply chain, such as other businesses engaged to work on these projects, in particular secondary contractors. Secondary contractors are often small business operators engaged by contractors to complete building works. The viability of their businesses is often dependant on being paid by contractors in a timely manner. They usually are not in a position to carry cash flow risk imposed upon them by contractors.'

'This practice by contractors, in addition to being an offence, can cause secondary subcontractors to suffer cash flow problems and experience financial distress, placing them at risk of insolvency', Mr Tanzer added.

ASIC encourages anyone who has suffered loss as a result of these practices to report their concerns to us on 1300 300 630 or to lodge a report of misconduct online.

Background

The surveillance program was undertaken following feedback received from small business, industry bodies and other government agencies about the endemic use of false statutory declarations in the building and construction industry (refer: 14212MR).

The falsification of statutory declarations to obtain payment from a head contractor could be an indicator that contractors are experiencing cash flow problems and may be in financial distress. This may subsequently give rise to illegal phoenix activity.

While false statutory declarations and fraud matters are matters for other regulatory and enforcement agencies, company officers who knowingly make a false statement regarding payments to creditors may find themselves facing criminal or civil action by ASIC.

Under the Corporations Act, ASIC can also take administrative action against company officers who engage in misconduct.

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“

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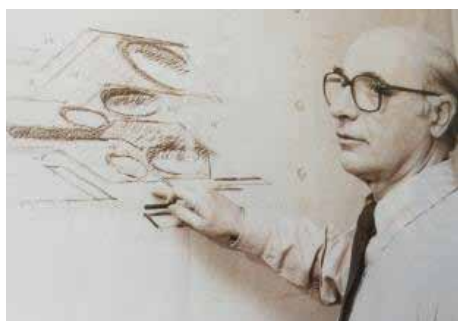
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A Constructor's Tribute to Adlo Giurgola

An extraordinary Architect who evoked a sense of common purpose in making his buildings.

By: David Chandler OAM, FAIB



In recent times there was a gathering of family, friends and professional acquaintances who knew and respected Aldo Giurgola. It was my privilege to be amongst them. It was the 25th August 2016, nearly 28 years after the parliament first sat in Australia's New Parliament House in Canberra. We gathered in the Great Hall beneath Arthur Boyd's great tapestry.



I first met Aldo in 1985 when I took over the task of leading the Concrete-Holland Joint Venture - the construction managers for constructing our new national capital building. My first impression of Aldo was that he typified the architects I had first met when I started my career as an apprentice carpenter in 1969. In those days there was an amazing respect between architects and builders. It was a time when carpenters were represented by the Australian Society of Carpenters & Joiners. And it was a time when architects, builders and craft

representatives would regularly sit down and discuss their common challenges. There was always mutual respect and collaborative goodwill to get things done.

Aldo came to the New Parliament House project from the Philadelphia practice of Mitchell Giurgola he and Mitch (Ehrman) founded in 1958. Mitch visited often. Aldo had a distinguished career that was well narrated by others, and it should have been. It was a sufficiently prestigious career to justify Aldo to be a more pompous style of architect as some who I have had to deal over the years. But not this understated and able man. He was happier to be in the background refining his designs, coaching his design team to grasp his vision for how the project should come together and unfold. He was never a person looking for aggrandizement or conflict, but do not interpret that as any lessening of his determination to protect his design and stubbornly resist unreasonable efforts to force less than worthy compromises. Aldo was also a realist, he knew what to yield on, and when his statesman like style could be played to put credit in the drawer for later.

At every turn you were meeting a designer who wanted to tread lightly and leave the appropriate response to the making of Australia's new capitol building. And tread he did. Aldo went to the source of everything to consult with manufacturers, raw material suppliers, artists, crafts people and of course some of the most competent design A Constructor's tribute to NPH Architect Aldo Giurgola collaborators that he mustered to help make this project a reality. Aldo embedded a deep appreciation amongst his design team that if you were aspiring to build a building that would last for over 200 years, it would not be possible to do this without gathering all the learned knowledge there was available. And his team soon had his style coded

in the way they went about selecting the pieces, specifying how they were to be made and detailing how they were to be incorporated into the building. And this quest for knowledge was not a process of just race out and collect it, job done. No, Aldo wanted continuity from those who had the knowledge and experience in using the materials. He had them visit the job regularly during construction and was the first to consult them when issues arose.

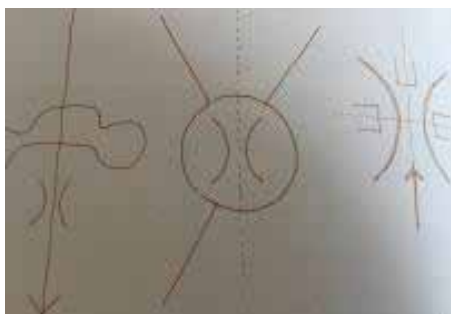
Making the New parliament was not easy. The client needed to be brought along. They needed to have the building interpreted and they needed to confirm the Parliament's brief when from time to time earlier requirements were not practical. Aldo had to develop the capacity to work through a Joint House Standing Committee that oversaw the progressive signing off of design and expenditure. It was here his toughness and capacity to win the day by delivering models, amplified by a spontaneous ability to draw the simplest of sketches on the spot, that built the trust and respect he needed to deliver confidence to his design team to push on. There were however, many scope changes as the project evolved and its costs grew. I personally believe that while the government never fully appreciated the complexity and standards its new building needed to embrace, the end cost was not a result of whim.

Many of those who may read this article will not appreciate that the new parliament was possibly the last hand drawn major institutional building undertaken in Australia. It is wonderful that so much effort has gone into curating the design documents as many are truly unique. Today designers have been using CAD and BIM as the normal tools of trade. I liken the difference being similar to imagining the last time one of us used a wind up window in a car. It's

been a while. But it all seems like yesterday. So those without the modern tools of multi-design discipline co-ordination, shop drawing integration and clash detection may not fully understand how this 200,000m² building came together so ably.

There was possibly as much design effort put in at the workplace of the project as there was off-site. A building of this form and complexity is not always so easily explained in two dimensional drawings. Aldo had amongst his team people like Hal Guida who were adept at sketching in the field. They were confident to sit on a concrete slab and sketch with a crayon to explain an intended outcome to workers. They were just as prepared to work in a place of manufacture or assembly to resolve details and improve on their initial design. They always showed extraordinary respect to anyone who was on-board with the mission and had something better or worthwhile to contribute. And, if Aldo

was needed it seemed always possible to muster his presence within a day or so to add interpretation or clarity.



Returning to my early encounters with Aldo in the early part of 1985, things were not going so well on the project. Four years in, the project had spent only \$100 million of its eventual cost, the costs were blowing out due to scope changes, delays and industrial disruption. Politicians were having a field day lambasting the project as wasting money and the media were

happy to climb on board the hype for the evening news. It was clear that the project needed to lock down all of the remaining design and to stop the constant stream of changes feeding new scope that resulted in diluting designer productivity. On a daily basis my recollection was running out of 'for-construction' documentation to enable work to proceed on site. There was a huge backlog in unresolved variations and claims that had built up over the preceding few years' as parts of the design were put on hold or changed.

In mid 1985, the government elected to refresh the new Parliament House Construction Authority (PHCA) Board. That change signaled a high level resolve to focus on completion as opposed to definition. It was a timely political action, but much housekeeping needed to be done to allow the design to move ahead of construction. And, to enable a confident climate to be built with the projects



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contractors and suppliers that they could now productively commit the necessary resources and cash flow to getting the project finished by 1988. The project cash flow had to increase from \$25 million per annum to \$25 million per month.

It was estimated that for every worker on site, there were 4 either partly or fully employed off-site making the components that seemed to be consumed by the project within moments of their arrival. This was evidenced by the trucks that lined State Circle each morning, having come from all points of Australia. No matter how long the line of trucks every day, the project seemed to consume their loads by mid-morning and they were on their way to return again. The project workforce involved over 30 percent at any time temporarily locating to Canberra. Maintaining a commitment to their presence in town required a confident escalation of production on site. Documentation flow was essential.



To gain the re-ignition of large organisations off-site upon whom the project depended, required an early resolution of outstanding variations, claims and resetting the cost to complete. The new Authority Board sanctioned a process to sort out contractor entitlements and to settle outstanding costs in exchange for staged payments which were to correlate with progress on site. This was a Waterloo moment for the design team. They just had to get ahead and stay ahead, despite the still ongoing client interventions that seemed minor to them but were of significant distraction to the main game. This phase of the project was highly stressed and could have even turned into an Utzon like outcome if it wasn't for the steady hand and full-time commitment Aldo made to getting it done.

I recall Aldo and Tim Brown turning up at our office at 7 or 8 am each day to see how

design production was going and what the most pressing issues were.

The emphasis soon turned from 'for construction design' to approving shop drawings, prototypes and samples. This was no easy task as the construction industry was still coming to terms with the more exacting standards and compliances that were required for a 200 year building and for many resetting their 'close enough is good enough' norms. Through this period A Constructor's tribute to NPH Architect Aldo Giurgola of shifting from designing and making to acceptance, a new era of collaboration and belief was required. The C-HJV had set up a very impressive QA Group headed by Holland's Richard Roberts for building and engineering works and Tony Taylder from Concrete's for services. This team had the role of building the trust with Aldo's team that it would assure the design was met without their number having to dedicate duplicated supervision, avoiding design dilution.



Aldo and his team rose to the challenge of finishing the project just as they had in conceiving and defining it. There is no escaping the fact that a number of things did not come together as planned and required rework or variation. It was always, all hands to the pumps metaphorically and on one occasion literally as we worked through these challenges. Some of these were not easy work-arounds as there was to be no compromise to fitness for purpose or the standards contracted. The building stands today as a testimony to the collaborative approach to jumping these hurdles as they arose. There has not been a material failure of any of the building's parts or systems since it was built. Not only has the New Parliament become a focal point of national pride, few would argue that its end cost of \$1.1 billion was not value for money.

Its finishes have inspired Australian buildings since.



The two construction principals of the C-HJV, were John Lewis the owner of Concrete Constructions, and Sir John Holland founder of Holland Construction Group. It was through these leaders and those of Gordon Peatey the CEO of the NPH Authority and Aldo Giurgola and others of the design effort that the most respected relationships were struck. The JV held several functions each year as part of the team building needed on such a demanding project. To listen to Sir John honor, the design and the team effort was captivating, but to then listen to Aldo give a talk in response which was both self-deprecating and in awe of the people making his building confirmed my initial impressions of this man. A great designer, who I doubt could have been bettered in giving Australia a more inspiring capitol building and one who could work with the makers to make it possible so collaboratively.

Over the years I have heard to odd professional jealousy that one design or another may have been more fitting at the end of Burley Griffith's land axis for Canberra. I don't think so. And occasionally the odd politician will lay claim to a view that the new building is not as good to work in as the old one – the main complaint being size and separation. I respect these views, but the brief for the building was developed by politicians and their advisors because the old one had long past its functional days. So that is not for me to judge.

All I will comment on is that I think the building lost some of its approachability when the Non-Members bar was closed in an exercise to contain politicians from

wandering off the reservation and making unscripted comments to the public or journalists. This sort of censorship is ineffective in today's modern media age and frankly is an affront to the informal access Australians should have to their elected officials. It's not too late to rethink re-establishing this connection with the public that is part of our national character.

And I think that our elected officials should realise that they are not only the custodians of our national interests, they are but passing custodians of a building that is now regarded nationally and internationally as one of the best buildings serving a parliament and its people in the world. I would urge that they reflect on the humility of Aldo Giurgola in listening

to their aspirations, interpreting these into the building every Australian admires and carefully conducting is making as composer, conductor and lead musician. It is testimony to the affection Aldo, had for Australia that this is now his final resting place.

On behalf of all the Constructors of Australia's New Parliament House we salute him.

A small collection of images recalling Aldo and the project can be viewed via the following link. <https://www.icloud.com/sharedalbum/#B0iGdlshaGwSV9> The other final design contenders are included in this collection. The link will be left open for others to contribute too until the 31st

October 2016.

David Chandler OAM, B. Build, FAIB
Former C-HJV, Construction Director, 1985 – 1988



National Construction Products Register

For more than 40 years NATSPEC has been trusted to provide up-to-date information to the Australian construction industry. NATSPEC remains a not-for profit organisation owned by Government and industry.

Between 2006 to 2012 there were increasing reports of non-conforming products entering Australia including structural steel bolts, structural plywood products, copper pipe tubing, fire collars and glass sheets. In recent years, there have been significant issues with electrical cable, combustible cladding used inappropriately, and products with asbestos. Construction products have entered the Australian market with inadequate and/or false evidence of conformance to applicable standards and regulations. This has affected the safety and construction quality of Australian buildings.

NATSPEC has received requests from Government departments and industry organisations to set up a register of construction products.

Richard Choy, NATSPEC CEO, says that they were approached because

they are independent and impartial and because their key objective is to improve construction quality. This resulted in the Board of Construction Information Systems Limited (NATSPEC) directing the organisation to develop and maintain an on-line searchable National Construction Product Register database (NCPR).

Like other projects, including the National BIM Guide, the project is for the betterment of the industry as a whole.

The aim of the NCPR is to help the industry mitigate risk in a cost effective way.

It is intended to provide:

- Readily available verified information on conforming construction products.
- An increased awareness and understanding of the importance of conformity, by designers, specifiers, contractors and manufacturers.
- Improved safety for the Australian public.
- A freely accessible system for consultants and contractors to determine if a proposed substitute product has

evidence, checked by NATSPEC, of conformity to Australian Standards.

The NCPR, expected to be launched before the end of the year, will be a voluntary system freely available to the industry. It will assist the construction industry support those companies that provide products that conform to recognised Australian standards. Further, it will assist in those situations where substitution of products is necessary.

Plumbing (Watermark) and electrical (EESS) product databases will not be duplicated and NATSPEC intends to work cooperatively with the many Australian industry associations.

This initiative is supported by industry organisations including: Air Conditioning and Mechanical Contractors' Association of Australia, Australian Institute of Building, Australian Institute of Building Surveyors, Australian Institute of Quantity Surveyors, Consult Australia, Engineers Australia, Master Builders Australia and Standards Australia.

Water Leaks in Multi Storey Buildings and Concrete Corrosion Problem

A Problem Bigger Than Panama Leaks!

The world is going crazy over Panama leaks. The scale of this leak is the largest of all time leaks that the World has come across in the past. Yet there is another even bigger problem that the Construction World needs to be concerned about – Water Leaks. Water leaks are exceedingly detrimental to the health of high rise buildings. Water could enter the building envelope through different paths – from damp construction materials during the construction stage, through leaking roofs, basements, water features, wet areas and leaking water installations. Concrete being a permeable material, leaking water will find its way in and spread easily. If the source of the water leakage is left unattended it can cause significant structural damage that often needs, very expensive rectification to structural elements.

Recent reports and studies worldwide identified water leaks as the most common defect in buildings. Water leak is the major cause of early onset of corrosion and concrete deterioration. Initiation of corrosion and depassivation of reinforcement is only possible in the presence of water, oxygen and corrosive agents such as chlorides and carbon dioxide. Leaking water in reinforced concrete acts as a perfect electrolyte that is one of the basic elements for corrosion to occur. The role of leaking water and air borne salts in inducing concrete corrosion is well documented. Water leakages in buildings result mainly due to inadequate construction design, inferior materials, poor workmanship and deterioration of building materials.

A Double Edged Sword Effect: Water leak in multi storey buildings has a double edged sword effect when it initiates corrosion problems in private residential multi-storey buildings along with a serious threat to hygiene. Moisture within the buildings can have destructive effects both structurally and on the health of inhabitants. Wong and Hui, (2005), revealed that the failure of sanitary fittings, inadequate maintenance of sewer piping system and defects to waterproofing membrane in wet areas can cause dampness and seepage inside the buildings. In Hong Kong, the Department of Health identified water seepages in buildings as the possible source of the outbreak of the severe acute respiratory syndrome (SARS) epidemic in

2003. Water leakages in the buildings due to poor maintenance and building defects could lead to growth of toxic moulds that could cause serious health and safety issues for the occupants. There are also established evidences of the relationship between water leaks in buildings and respiratory symptoms in occupants.

Wet Areas and Roof Water Leaks: Ceiling leaks from bathrooms of the upper floors is the last thing one would like to experience. The water leak makes its way across the ceiling causing dampness patches and even worse when it starts to drip steadily. One of the main reasons of leakages in bathrooms, toilets and other wet areas is due to the failure of waterproofing membrane. The installations in wet areas should allow prompt detection of leaking water and easy access of its vulnerable parts.



Bathroom ceiling corrosion problems in multi storey buildings

Leakages in wet areas of high-rise buildings recorded high number of defects in most countries across the world. The annual maintenance cost for wet areas is about 40 per cent of the total maintenance cost of a building (Chew and De Silva, 2004). With growing maintenance costs of existing buildings and facilities, researchers worldwide emphasize the importance of awareness of the root cause of the failures. Interestingly, few studies revealed that the damage in these areas occurs when the bathrooms are relatively new, implying that the damage is not mainly due to poor

maintenance rather incorrect workmanship and use of inferior materials are the main culprits.



Water seepage from leaking bathroom to external building facade

The aggressive effects of external weathering on the roofs make them more vulnerable due to deterioration. Roofs suffering from leaks could not only cause serious damages to structures but also pose a great risk of injury. Symptoms such as water drippings, damp patches, paint peeling-off, rust stains on the ceiling indicate that the roof waterproofing system is not performing. Due to lack of awareness, most of the times, the ceiling is cosmetically repaired with 'masala mortar' without addressing the source of leaks. Consistent leaks from top roofs and wet areas of the upper levels can initiate corrosion of the reinforcement causing concrete spalling, which in turn can turn into a soffit collapse.

A large percentage of seepage and moisture related defects in buildings originate from rains. Roof leakages in the buildings result in seepage to the flats below that causes discomfort to the occupants and frequent disputes between the landlord and the tenant in regard to the liability to repair. A research conducted by Lo, Leung and Cui (2005), on roof construction defects highlighted that the root cause of failure of the roof waterproofing membrane stems from the roof parapet wall cracks. It further concluded that the design and choice of material for roof parapet wall is critical to avoid the waterproofing membrane failures on the roof slab.



Roof leakage causes severe corrosion



Delamination of paint due of roof leakage

Leaking Balconies Syndrome – External balconies form an integral part of multi storey apartment buildings. Water leaks in balconies could easily trigger the electrochemical corrosion process because these are subjected to more aggressive environment as compared to other in door wet areas resulting in damage and spall concrete. Balconies blunders could be attributed to various factors such as environment, air borne salts, atmospheric carbon dioxide, rain, humidity, temperature, leakage due to failure of waterproofing membrane, inadequate drain slope, poor design, inadequate detailing, poor workmanship or the combination of these factors. The effected balconies if remained unattended present both a danger to the structural integrity of building and the health and safety of the occupants. Inferior quality waterproofing membrane is one of the contributing factors of balconies failure. The use of a thin film instead of a robust tenacious waterproofing membrane to waterproof balconies must be discouraged.

Concrete being the first line of defence, the cantilever structural element to be cast with concrete of high mix design parameters. If screed is used for slopes, it should have additional waterproofing properties using rubber latex emulsion. Water resistant tile adhesive and tile grouts should be considered to fix the final finish tiles with an adequate slope and drainage details.



Balconies concrete spalling



Leakage problem in balconies

Working Backward Approach - Avoid Swimming in Basements: Leakages in basements could be attributed to many factors such as poor selection of the waterproofing system, inadequate detailing for joints and other critical locations, inadequate design, poor concrete quality and poor workmanship, damage to waterproofing membrane, ground water level rise and so on. Interesting analogy by Chew and De Silva (2003) suggests that water seepage signs appear from the basement ceiling are not always related to the above factors but could also originate from the non-basement features of above ground landscaping, water features, swimming pools or water ponding. Insufficient slope or clogged drainage of the planter structures could result in moist patches that, if unattended, lead to seepages and algae growth on basement ceiling finish. (Chew and De Silva, 2003).

Rising levels of ground water table in urban areas can have serious implications to the basements. The rise of ground water could be due to seasonal rise, capillary action or closure of dewatering activity in the surrounding neighbourhood construction sites. The structures designed without considering the obvious risks of GWL rise and the resulting hydrostatic pressure associated with water leakages is a serious risk. Due to leakages, the structural integrity of basements is seriously compromised, as the chloride content of the concrete rises above the threshold level resulting in severe corrosion problems. The challenges of soil mechanics and groundwater conditions need to be considered during design stage and a site specific waterproofing system should be selected for the structure against ground water infiltration.

There is a saying that 100 steps backward are as good as 1000 steps forward. (Busch, 2013). Suppose, a manager is running a newly opened restaurant and suddenly he has been given a task to take action to fail the restaurant business. That sounds bizarre, but the question is what could lead to the failure of the newly set-up venture? There could be multiple ways such as, the restaurant starts serving rotten food, the food provided in dirty chipped edge plates and served by non-professional staff or the sitting area is greasy and dirty. The end result would be the failure and closure of the restaurant. Now, if the restaurant needs to succeed, then working on backward approach, the manager would ensure to avoid the above failure factors. By inverting the process, the manager would recruit the trained and qualified staff, display good quality crockery, adopt the best hygiene practices and so on.

Similarly, working backwards is the best approach to avoid basement leaks. In other words, it means injecting error proofing in waterproofing activity. Most contractors and engineers have a linear way of thinking to perform their tasks. Engineers appreciate rationality, consistency, the common sense, one-step-forward-at-a-time approach (Busch, 2013) to perform site activities and it all makes good sense but at the same time reversing the order of one's approach has its advantages too as it challenges the brain to think in an unconventional way. Assume, if a project manager at a new construction site wants his basement to leak. It sounds weird, but the argument is what

actions would lead to the failure of the basement? The answer is simple – the project manager at site would make sure to avoid using waterstops in construction joints, use poor quality concrete, select wrong underperforming waterproofing membrane, omit pile head waterproofing, appoint unexperienced waterproofing installation company and so on. The worst is to use multiple suppliers for waterproofing that rules out single point of responsibility. The project manager can now self-question and develop a check list that what factors need to be considered to have a leak proof basement. This is possible by addressing and countering all the above pit holes by adopting backward approach.



Leakage through retaining wall construction joint



Basement leakage at corners and kickers

The Way Forward: Water leaks can cause significant structural damages, inconvenience, trouble and litigation issues. Water leaks result from combination of the above highlighted failure factors rather than the individual element to be liable for failure. Most of the buildings start showing early signs of deterioration during the first ten years of its service life that is alarming in this age where asset owners demand high service design life. Water leak is the main culprit for the early inception of corrosion and concrete deterioration in multi storey buildings and commercial towers. To help minimize leakage nuisance and potential hazard to life and property, robust construction practices should, therefore, be practiced during building plan, design and execution stages. Working backward approach is also suggested to be adopted. Working backward approach, is in fact, getting ahead by moving backward. Backward approach also leads to the adoption of 'system based waterproofing approach'. It is important that the waterproofing in basements, roofs and wet areas, such as bathrooms, shower rooms, balconies, kitchen are not driven by waterproofing membranes only rather

it should be based on 'complete waterproofing system'. The Engineers and authorities should further scrutinise processes of building plans approvals, inspection of construction works, and quality control procedures regarding waterproofing aspects. A stitch in time, saves nine. Prevention using backward approach is always better than cure.

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About the Author

Hamid Khan working presently as Technical Product Manager – Concrete Durability, Fosroc division at Parchem (DuluxGroup), Australasia, holds a bachelor degree in Civil Engineering discipline. He also holds a double Master in Business and Strategy from the University of Wollongong.

Hamid is certified in Concrete Technology and Construction, by City & Guilds of London Institute (UK) and is a qualified expert in concrete repair & refurbishment with 19 years of experience in the industry.

He was associated with Fosroc International

in Dubai for 14 years taking up various roles in technical and management. Hamid's experience comes from the Gulf, Middle East, Europe, East Asia and Central Asia.



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NSW fire certification to undergo a total overhaul after damning review



The fatal blaze in a Bankstown apartment block in September 2012. Photo: ABC News 24

The state government says it will rewrite the law governing the way NSW buildings are certified after a damning review found practices for ensuring apartment fire safety were "totally ineffectual" and had caused unsafe buildings to be approved.

The government announced plans to rewrite the Building Professionals Act in response to a review by former treasury secretary Michael Lambert.

The nearly 400-page document, handed to the government last October and released previously in draft, is highly critical of the way in which commercial and apartment buildings in NSW are certified and deemed to be fire safe.

The government says it will pursue more than 70 suggested changes, including more frequent audits and checks against building owners from choosing and paying their own certifiers when such arrangements create a conflict of interest.

The report comes against the backdrop of a record boom in apartment construction and recent high-profile incidents, such as a fatal 2012 Bankstown fire in an apartment block found to have been bedevilled by certification problems.

Student Connie Zhang died in the Bankstown blaze. Her parents called for changes to building regulations after critical findings by the NSW coroner.

Mr Lambert's report found that generalist building certifiers alone were given too much

responsibility for assessing safety and needed to draw on professionals with specialist qualifications.

"This need is particularly acute in the area of fire safety systems where it is vital that designing, installing and commissioning the system and certifying it have the proper expertise and are accountable.

"There is clear evidence of non-compliant and hence unsafe fire safety systems," the report finds. "The current system of compliance certificates ... is totally ineffectual and needs to be replaced."

A previous report by the Fire Protection Association found up to 40 per cent of buildings in NSW were in breach of fire rules and blamed unqualified contractors for the breaches.

The state government is promising a package of fire safety reforms to be released for comment early next year, including better annual checks for existing apartment buildings and more frequent inspections of large apartment blocks during construction.

The state government says it will consider having the design of fire protection systems certified only by contractors licensed by professional bodies.

Changes last year allowed Fire and Rescue NSW to take action for faulty certificates.

"These reforms will ensure safety and confidence in the system," said Victor Dominello, the Minister for Better Regulation.

"NSW is experiencing a construction boom and it is imperative that we have first class certification laws that cater for current needs and future demands."

The government will first change the way data about certifications is collected and released, introduced as an amendment to existing law in the next month.

A raft of other changes is promised as part of new legislation to be introduced to Parliament next year, including new guidelines for how certifications are conducted and complaints are acted upon.

Mr Lambert's report states successive governments have put off the complex task of reforming certification laws.

The report found complaints about building certifiers were marked by "long delays" and often took between six months and one year to finalise.

About 1800 certifiers work in NSW but the review warned the system is under resourced and facing a looming potential future shortage and the absence of a professional culture and codes.

A 2012 survey by the University of NSW found 85 per cent of strata owners and committee members in buildings built after the year 2000 had identified two or more defects in their buildings. Three-quarters of respondents said these had yet to be fixed.

Most complaints related to leaks or cracking to structures, the review states, but it notes the research's sampling could be affected by selection biases.



The Bankstown building where student Connie Zhang died in 2012. Photo: Mick Tsikas

Mirvac powers ahead with Calibre Eastern Creek

Construction of Mirvac's state-of-the-art industrial business park, Calibre at Sydney's Eastern Creek is forging ahead having reached a number of significant milestones. Civil works on the site are now complete, with 18 of its 22 hectares now serviced and benched. 'Building 1', the first of five buildings, will be delivered imminently.

Calibre is a next generation industrial estate offering over 120,000 square metres of flexible, premium grade warehousing and office space in a highly sought after location at the junction of the M4/M7 motorways. 'Building 1' will deliver 18,020 square metres of high clearance warehouse space and 950 square metres of modern office and amenities with separate dock office and rest areas, as well as 73 car park spaces.

The site's direct access to Sydney's transport network makes it the ideal location from which to efficiently operate distribution networks servicing the eastern seaboard and beyond. Future tenants stand to benefit from the new major infrastructure of Western Sydney, as well as local workforce pools. Calibre has the potential to create over 700 full time jobs once fully operational.

With its pioneering design, Calibre responds to the latest trends impacting the industrial market, which include an increase in cubic capacity to accommodate the advances in material handling equipment technology. For example, Building 1's superior specifications include a nine tonne racking post load internal slab with armoured joints and a 20 metre cantilevered awning across the length of the loading face.

Stuart Penklis, Group Executive, Industrial at Mirvac said the site offered a highly attractive proposition for tenants.

"There is a very limited amount of land now available in this prime location and this coupled with Calibre's design innovations has sparked strong interest from a range of manufacturing and logistics companies looking for the flexibility to grow or consolidate operations, while up-grading to a state-of-the-art, custom-designed facility," he said.

"Many of these prospective tenants are looking for alternative locations to the Sydney's traditional industrial hubs of Alexandria, Mascot and Rosebery where they are constrained by older buildings

and operational constraints. In contrast, Calibre offers space in abundance, along with premium specifications that support increased efficiencies. It's delivering the whole package and that holds strong appeal for businesses in today's ever changing competitive market," he added.

Gavin Bishop, National Director, Industrial at Colliers says the robust industrial market is also contributing to high demand for assets like Calibre.

"Over the past three years, industrial assets in New South Wales have risen to outperform office and retail assets, with industrial precincts such as Mirvac's Calibre yielding an annual return of over 14 per cent while office assets came in at 12.9 per cent and retail assets at 11.3 per cent. Industrial is currently the outperforming investment class and is contributing to an increase job growth and infrastructure investment across New South Wales, specifically in Sydney's west," he said.

In line with Mirvac's commitment to sustainability, Calibre will have energy efficient lighting, rainwater harvesting, photovoltaic solar, cyclist and end-of-trip facilities creating savings for the tenants.

The site is one of Mirvac's flagship assets and bolsters the extensive industrial portfolio, which includes 15 assets across Australia including: Nexus Industry Park and the Hoxton Distribution Park.



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Australasian BIM Advisory Board Frequently Asked Questions

What is the Australasian BIM Advisory Board (Advisory Board)?

It is an alliance of key Building Information Modelling (BIM) leaders from the public and private sectors in Australasia who come together to coordinate and provide advice on harmonisation of BIM development across Australia and New Zealand.

The Advisory Board is a team of leaders, influencers and experts who are willing to share their valuable knowledge, skill and experience.

Why was the Advisory Board established?

Whilst pockets of valuable BIM work are underway in Australasia, Australasian Procurement and Construction Council (APCC) and the Australian Construction Industry Forum (ACIF) have identified a fundamental gap in the coordination of harmonised BIM standards, protocols, systems and tools, guidance and training across the design, planning, construction and operation phases of a construction activity. The Advisory Board seeks to address this.

In addition, the recently released SmartICT and Infrastructure Report both recommend the need for a centrally coordinated and integrated approach between government, industry and researchers for the development of BIM in Australia.

The ACIF and APCC recognise that, without central principal coordination there is a significant risk of wasted and duplicated effort, fragmented development of protocols and guidelines, and inconsistent approaches to adoption of BIM, all of which leads to inefficiency across Australasia.

What is the need?

As the adoption of BIM accelerates in Australasia, it is critical for government and the construction industry to work together to maximise the value of BIM to deliver improved efficiencies and productivity and increased innovation in the management, design, construct and operation phases of a built asset.

What is the desired outcome?

For harmonised BIM data formats, standards, protocols, systems and tools and the development of appropriate guidance and training that are adopted by both the private and public sectors and all disciplines across the design, planning, construction and operation phases of a construction activity.

Who is on the Advisory Board?

The Board consists of both representatives from nominated organisations, public sector agencies and targeted individuals. Organisations, agencies and individuals have been selected for either their ability to influence and drive harmonisation across Australia and New Zealand or contribute through their wealth of experience with BIM at the organisation, agency or project level.

Does the Advisory Board have any powers?

No. The Advisory Board's purpose is to coordinate develop BIM development across Australia and New Zealand and support and promote consistent approaches by government and industry to BIM.

The Advisory Board is not a legal entity and has no decision-making power.

The Advisory Board reports to, and may from time to time make recommendations for consideration of the ACIF Board and APCC Council.

What will the Advisory Board do?

- Develop the strategy and roadmap to deliver on the Vision
- Develop a governance framework to support harmonisation of standards, data formats, protocols, systems and development of guidance and training
- Identify where international practices and processes are the most suitable and effective approach for the Australasian environment
- Identify and assess barriers, gaps and opportunities for harmonised approaches to the adoption of BIM at the industry (sector), organisational and project levels
- Identify the most effective way to reduce barriers to and maximise opportunities for harmonisation
- Prioritise what needs to be done and focus on the 'big' issues
- Identify 'how' the activities are to be undertaken, including possible funding if required
- Establish and monitoring working groups and activities to focus on particular areas
- Provide advice on best practice and promote, advocate, champion and influence widespread adoption of best practice
- Work collaboratively with other bodies to achieve harmonisation of outcomes

How does the Advisory Board different from other existing BIM Working Groups?

The Advisory Board sits in tandem with other existing BIM Working Groups. Through a whole of the built environment approach the Advisory Board will link

industry resources.

The Advisory Board will align with those organisations already actively progressing development of the necessary BIM standards, protocols and guidelines, as well as foster an environment of open collaboration, communication and exchange.

It is also important for the Advisory Board to be well informed of the significant efforts underway across Australasia and globally in BIM, and to maintain connectivity with appropriate local, regional and international stakeholders.

The Advisory Board will not intrude nor, more importantly, duplicate or overlap activities of other working groups. In fact, the Advisory Board encourages expert/technical working groups be formed to address areas of priority.

How is the Advisory Board different to the BIM Summit?

The Advisory Board has its genesis with the APCC-ACIF BIM Summit (established in 2013), which brought together the building and construction industry and key stakeholders from both the private and public sectors to collaborate at a national

level on the acceleration of BIM adoption in Australasia.

Three years on, APCC and ACIF members, as well as the broader construction industry, have identified the need to expand the APCC-ACIF BIM Summit to include the development of BIM requirements beyond the original remit of buildings.

How can I bring an important activity to the attention of the Advisory Board?

APCC and the ACIF have stewardship of the Advisory Board and as such will provide administrative support to including communications with stakeholders.

Brisbane office crowned a champion at regional green building awards

A Brisbane office has been recognised for its sustainable design and performance, after snagging an international award from the World Green Building Council (WorldGBC).

69 Robertson Street in Brisbane's Fortitude Valley was crowned a champion of green building at the WorldGBC's Asia

Pacific Leadership in Green Building Awards for 2016 at a ceremony in Mumbai.

Engineering firm Floth, which designed and occupies the building, was presented with the Leadership in Sustainable Design and Performance (Commercial) award.

According to the Green Building Council of Australia's Chief Executive Officer, Romilly Madew, 69 Robertson Street was the first building in Australia to achieve a 6 Star Green Star – Design & As Built v1.1 rating.

"69 Robertson Street is an energy-efficiency powerhouse – and we are delighted that Floth, a long-time member of the Green Building Council of Australia, has been

recognised for its regional leadership in sustainable design," Ms Madew says.

"Floth understands that green buildings are not only better for the environment – they can also attract quality tenants, reinforce a company's brand and future-proof its assets," Ms Madew adds.

The WorldGBC's Leadership in Sustainable Design and Performance Award is presented to green building projects that set new benchmarks for sustainability, with three sub-category winners for residential, commercial and institutional buildings.

Energy modelling has predicted that 69 Robertson Street generates 53 per cent fewer operational carbon emissions than a building built to code. A roof-mounted solar photovoltaic system offsets 28 per cent of the building's final operational energy, and the building will also be zero carbon in operation through the purchase of 100 per cent GreenPower supply.

Other winners at the WorldGBC's regional

leadership awards include India's Delhi Metro Rail Corporation, as well as two projects in Hong Kong: Construction Industry Council's Zero Carbon Building and Double Cove.

Green building projects and companies were nominated by the 15 green building councils which make up the WorldGBC's Asia Pacific Regional Network.

"Four nominations really pushed the boundaries on sustainability, and in the eyes of our judges stood out as true green building leaders. They have raised the bar for others to follow and are deserved winners of the awards," says Terri Wills, chief executive officer of the WorldGBC.

The Asia Pacific Leadership in Green Building Awards are biennial awards, first held in 2014, which showcase and celebrate the achievements of companies pushing the envelope on sustainable buildings in the region. See:

www.worldgbc.org.au

AIB NEW MEMBERS Section 1

On behalf of the existing membership, the Chapter Committees and the National Council we extend a very warm welcome to all these new additions to the AIB family.

AIB NEW MEMBERS

22 July 2016 – 13 Oct 2016

Ping Kwong Sherman Chan MAIB	HK
Chi Keung Lam MAIB	HK
Kin Fung Lo HKICM MAIB	HK
Paul Bruce AMAIB	NSW
Anthony Ko MAIB	NSW
John Plunkett AMAIB	NSW
Tak Shing Thomas Wong MAIB	NSW
Hwee Boon Wong AMAIB	OS
Lee Callaghan MAIB	QLD
Andrew Lanskey MAIB	QLD
Craig MacNair MAIB	QLD
Phillip Millan MAIB	QLD
Cameron O'May MAIB	QLD
Peter Golotta MAIB	SA
John Bannon MAIB	TAS
Claire Vervaart MAIB	TAS
Matt Banek MAIB	VIC
Vytas Brazaitis MAIB	VIC
Khairul Mohd MAIB	VIC
David Purcell MAIB	VIC
Mark Bertoli MAIB	WA
Michael Brockbank MAIB	WA
John Caveill MAIB	WA
Michael Devlyn AMAIB	WA
Christopher Holdich MAIB	WA
William Lillie MAIB	WA
Kyle Smith MAIB	WA
Sharon Warburton FAIB	WA
Clint Logan MAIB	VIC

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Events	events@aib.org.au
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Merchandise & Book Sales	events@aib.org.au
National Sponsorship	marketing@aib.org.au
Policy & Advocacy	ceo@aib.org.au
Professional Excellence Awards	marketing@aib.org.au

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South Australia & NT	sabuild@aib.org.au
Tasmania	tasbuild@aib.org.au
Western Australia	wabuild@aib.org.au
Hong Kong SAR	hong.kong@aib.org.au

AIB National Council

Paul Heather FAIB	National President
Ronald Webber FAIB	National Senior Vice President
Graham Teede OAM FAIB	National Vice President
John Gaskin AM FAIB	National Vice President
Norman Faifer FAIB	Immediate Past National President
To be advised	Council Representative - Queensland
William (Bill) Mansell AM FAIB	Council Representative - New South Wales
Peter Henden FAIB	Council Representative - Australian Capital Territory
David Burnell FAIB	Council Representative - Victoria
Peter Overton FAIB	Council Representative - Tasmania
Andrew Marshall FAIB	Council Representative - South Australia and Northern Territory
Jason Thomson MAIB	Council Representative - Western Australia
Lap Wa Lam FAIB	Council Representative - Hong Kong
Norman Faifer FAIB	Council Representative - Overseas

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