IPWEAQ ANNUAL CONFERENCE 2018

IN PARTNERSHIP WITH CITY OF GOLD COAST

The Marriott Resort & Spa Surfers Paradise
10-12 October 2018
## Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome from the Mayor</td>
<td>3</td>
</tr>
<tr>
<td>Welcome from The President</td>
<td>4</td>
</tr>
<tr>
<td>Charity Auction</td>
<td>5</td>
</tr>
<tr>
<td>General Information</td>
<td>6</td>
</tr>
<tr>
<td>Keynote Speakers</td>
<td>9</td>
</tr>
<tr>
<td>Technical Tours</td>
<td>10</td>
</tr>
<tr>
<td>Program Features</td>
<td>11</td>
</tr>
<tr>
<td>Native Title and Cultural Heritage Portals</td>
<td>12</td>
</tr>
<tr>
<td>Conference Program</td>
<td>13</td>
</tr>
<tr>
<td>Geoff Wilmoth Best Paper Award</td>
<td>17</td>
</tr>
<tr>
<td>Social Program</td>
<td>18</td>
</tr>
<tr>
<td>Our Sponsors</td>
<td>19</td>
</tr>
<tr>
<td>Our Exhibitors</td>
<td>20</td>
</tr>
<tr>
<td>Councils And Organisations</td>
<td>21</td>
</tr>
<tr>
<td>Excellence Awards</td>
<td>22</td>
</tr>
<tr>
<td>Project Nominations</td>
<td>23</td>
</tr>
<tr>
<td>About IPWEAQ</td>
<td>25</td>
</tr>
<tr>
<td>IPWEAQ Partners</td>
<td>26</td>
</tr>
<tr>
<td>Principal Supportan</td>
<td>27</td>
</tr>
<tr>
<td>IPWEAQ Subscribers</td>
<td>27</td>
</tr>
<tr>
<td>Professional Development</td>
<td>28</td>
</tr>
<tr>
<td>Public Works Technical Subscription</td>
<td>29</td>
</tr>
<tr>
<td>ADAC 5.0</td>
<td>30</td>
</tr>
<tr>
<td>Brisbane 2019</td>
<td>31</td>
</tr>
</tbody>
</table>
Welcome

Message from the Mayor of the City of Gold Coast

City of Gold Coast is privileged to have again been chosen as the venue for the 2018 IPWEAQ Annual Conference. Thank you for your support.

Once again I will be delighted to open the gathering. Given my qualifications as a civil engineer I can tell you I feel very much at home among the people who deliver such great infrastructure to Queenslanders.

Gold Coast has often been seen as a boom city but I believe that’s something to avoid because it is almost always followed by a bust and that does no-one any good. But I can tell you that this City is enjoying a marvellous period of growth and much of that growth is in infrastructure.

We are strengthening our services’ skeleton to enable population growth and lifestyle amenity to keep pace with community expectations. You would appreciate that this is never an easy task given the cost of infrastructure development.

The Commonwealth Games that we hosted earlier this year was a fantastic boost to our budget of infrastructure. We are deeply grateful to the Queensland and Commonwealth governments for their financial contributions which enabled a $1 billion outlay on roads, light rail, sporting facilities and ancillary projects.

The first two stages of our Light Rail network proved to be a huge hit with the travelling public. Planning is now well advanced for completion of the business case to push ahead with Stage 3A and the community is overwhelmingly supportive of pushing ahead and taking the network through to the Airport and Coolangatta along with subsequent spur lines to centre in the west and north.

Gold Coast is now the engine-room of a $27 billion a year regional economy and we have projects worth $13.5 billion underway or soon to commence. In fact, the development pipeline for the next decade is estimated at $30 billion so you can realise the massive impact this will have on Gold Coast.

While all this is happening we are very mindful that the 13 million visitors we welcome each year take great pleasure in our green space. The popular focus is often on our beaches and waterways but the so-called green behind the gold is just as important.

I have been determined to manage rapid population growth without damaging our natural assets and am pleased that our green footprint has now reached just under 51% of the city. We continue to make strategic acquisitions to ensure we have this buffer to our built environment.

Gold Coast is a city in transformation. It has reached the point where we are no longer a small, regional centre. We are growing into a mature, world-class city and that development must be managed in ways that protect and enhance the beauty that attracts our visitors in the first place.

We are investing in new infrastructure and maintaining existing assets to ensure the Gold Coast is one of the best places in the world to live, work and raise a family. We must plan carefully to deliver a future that is lifestyle friendly. This will impose necessary change in habits in order to manage traffic congestion and protect our economy, lifestyle and environment.

The upgrades we are implementing will give the community more reliable travel times, improve safety and keep our road network flowing. We are also continuing to focus on reducing car dependency and increasing trips on buses, trams and trains. More importantly getting people outdoors walking and cycling, or changing their behaviours from driving a car to carpooling and catching public transport.

It’s an exciting time here on Gold Coast as we pursue the opportunity to make this the greatest city on the planet to live the Aussie dream. See you soon.

Cr Tom Tate
Mayor
City of Gold Coast

CITY OF GOLD COAST.
Welcome from the President

We are very pleased to welcome you to #IPWEAQ18 at the Marriott, Surfers Paradise, 10-12 October 2018.

Our program this year kicks off Wednesday 10 October with a special Welcome function for our YIPWEAQ members and delegates under age 35. This inaugural event offers an opportunity for those who are new to our community to meet others in the earlier phases of their careers and to build career-long networks and friendships.

The YIPWEAQ Welcome also launches our new Buddy Program. Mentors will guide our younger professionals throughout the conference with the selection of streams and topics. They will also introduce their conference buddies to colleagues and peers further enhancing earlier year networking opportunities. The networks that we build at IPWEAQ conferences make our community of public works professionals stronger than other professional communities.

We have four Technical Tours this year with thanks to our hosts, the City of Gold Coast:
1. Oceanway (Coast Engineering and Bikeways) – travel by bicycle to Narrowneck
2. Gold Coast Light Rail – board the tram to travel to Helensvale Station
3. Waste & Water – transfer by bus to the Coombabah Sewage Treatment Plant
4. Gold Coast Bridge Site Tour – travel by bus to Thrower Drive Bridge and visit the award-winning Sarawak Avenue Footbridge.

We are delighted to welcome back Michael Pascoe as our conference MC for #IPWEAQ18. Michael is one of Australia’s most experienced and thoughtful finance and economics commentators with four decades in newspaper, broadcast and online journalism. Michael will also deliver a keynote presentation on economic conditions affecting infrastructure and growth in Queensland.

Our keynote speaker in the opening conference session on Day 2 is Michael McQueen. Michael is an expert in demographic shifts, change management and future trends. He is the author of Momentum: How to Build it, Keep it or Get it Back which offers an insight into how organisations, and individuals, can establish and maintain a growth trajectory.

On Day 3, the morning after the gala excellence awards ceremony and dinner, Young Australians of the Year, Nic Marchesi and Lucas Patchett of Orange Sky Laundry will share with us how they built a free mobile laundry service for the homeless. Orange Sky Laundry has more than 600 volunteers across Australia with custom-fitted vans servicing 73 locations washing more than 7,000 kilograms of laundry every week with 80,000 hours of conversation.

We have 61 nominations for the 2018 IPWEAQ gala Excellence Awards ceremony and dinner where we celebrate the projects and people who make Queensland great. Winners from each of the 10 categories will vie for Project of the Year.

The President’s Charity for my term is MS Queensland and we are extremely fortunate to have Col Chandler donate a painting as the major prize for the charity auction to be held at the excellence awards dinner and ceremony. Col will finish this piece during Day 2 of the conference so be sure to stop by and chat with Col and prepare your bids. Col’s work captures his love of the ocean with one piece famously chosen by the Beach Boys as the backdrop for their 2016 tour. We have mobile credit card facilities on site this year.

The 2018 Futures Challenge will include theses presentations from students from QUT, CQU and USQ. The winner this year will be announced at the gala excellence awards ceremony and dinner (Thursday 11 October). Delegates will once again be asked to vote for the best presentation using the conference app.

On Day 3, we will address the effects of a landmark decision in the Northern Territory (‘Timber Creek’) which has implications for all councils. Our first moot court, with thanks to lawyers from Marawah Law, will highlight the critical points of the case which led to the award of $3.3 million damages. Following the moot court, our Information Resources Manager, Mark Lamont will present the IPWEAQ solution to the risk posed by the Timber Creek case for our councils and utilities – the Native Title and Cultural Heritage Governance Portals. These two portals offer councils a streamlined online process for navigating the complex process of complying with the legislation. Mark will also be available at the IPWEAQ booth to provide you and your councillors with a personal tour of the portals.

The topic for the Great Debate this year is ‘tradition has no place in the modern workplace’. Ged Brennan will lead the team for the Affirmative with Cate Fennell (IPWEA NSW Young Ambassador) and Jimmy Scott (QRA). On the Negative team, we have IPWEAQ’s Mark Lamont, Kym Murphy (TMR) and Matthew Brennan facing-off against his father, Ged. This should make for an interesting debate this year!

On behalf of the Board and staff at IPWEAQ, we look forward to welcoming you to Gold Coast for what will be another memorable IPWEAQ event.

Seren McKenzie
President
Charity Auction

Each year, IPWEAQ’s President chooses a charity to support during their term. Seren McKenzie has chosen MS Queensland and we are delighted to offer you this opportunity to purchase the art of Col Chandler at our charity auction.

Col is not just a major talent with a passion for art, sculpture and surfing (and making friends with dolphins), he has been pursuing his passions while battling MS for the past 10 years. MS has had a significant impact on Col’s mobility including his ability to stand and balance on a surfboard but he has not allowed MS to affect his life.

Col has been busy painting this amazing piece of art which he will complete onsite on Day 2 of the conference so please stop by and chat with Col while he paints (see venue map on page 5 for Col’s location). You will then have an opportunity to bid for the painting at an auction during the gala awards ceremony and dinner with all proceeds going to MS Queensland. This painting-in-progress is Col’s signature piece which was also the backdrop for the 2016 Beach Boys World Tour and is infused with the feel and rhythm of the ocean.

Please bid generously for Col’s art, in support of MSQ and for the President’s Charity and enjoy the tranquillity of the ocean in your home or office for many years to come.
We have pleasure in welcoming you to the 2018 IPWEAQ Annual Conference.

Conference Venue
Mariott Resort & Spa
158 Ferny Avenue
Surfers Paradise 4217
Ph: 07 5592 9800
www.marriott.com

The Surfers Paradise Marriott Resort & Spa offers a 24-hour fitness centre with sauna and spa, outdoor activities including tennis and bike rentals, and a full service day spa. An $8 million aquatic playground is the centrepiece—with two pools, cascading waterfalls, a saltwater lagoon and sandy shore, plus an array of tropical fish in a living reef.

Enjoy the Surfers Paradise Marriott with your family or take advantage of the Kid’s Activities Centre available for children from 4 years.

Please see the venue site plan below and note the following room allocations:

- **Tech Tours**: meet at Terrace Room 1 or the foyer outside Terrace Rooms 1 and 2. Please follow the signs for your tour.
- **Speakers prep room**: Terrace Room 1
- **All Plenary sessions**: Auditorium
- **Day 2 Breakout Rooms**: Marriott Ballroom | Hinterland | Verandah
- **Excellence Awards Gala Ceremony/Dinner**: Marriott Ballroom
- **Day 3 Breakout Rooms**: Elston | Wainabah | Hinterland 1 | Hinterland 2
- **AGM (IPWEAQ members only)**: Hinterland 1
- **Registration desk (red)**
- **Col Chandler (blue)**
- **Futures Challenge (green)**
- **Catering Stations (yellow - indicative)**
- **Lounge areas for delegates (purple)**
- **Exhibitors (orange)**
- **Coffee cart (brown)**
Getting there from Gold Coast Airport (Coolangatta)

Driving directions
North on Gold Coast Highway to North side of Surfers Paradise along Ferny Avenue to #158.

Driving from Brisbane
From the Brisbane Airport follow the signs for the Gold Coast on the Gateway Arterial Motorway. Take the South East Freeway (M1) exit to the Gold Coast. Exit at Southport via Smith St and follow the signs for Surfers Paradise. Turn right at the Gold Coast Highway intersection and after approximately 4 km turn right at Palm Avenue and then right into Ferny Avenue. The resort is approximately 500m on the left hand side.

Registration
The registration desk is located in the Foyer. Please register early to collect your satchel and lanyard which must be worn at all times.

Registration desk opening times are:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday 10 October</td>
<td>12:00 – 19:00</td>
</tr>
<tr>
<td>Thursday 11 October</td>
<td>07:30 – 17:00</td>
</tr>
<tr>
<td>Friday 12 October</td>
<td>07:30 – 15:30</td>
</tr>
</tbody>
</table>

Dress Code
Conference program, welcome and closing functions: smart casual, no suits or ties.
Gala awards ceremony and dinner: business or cocktail dress

Delegate app
Download the conference app: EventsAir
app code: gc18
app Pin: provided by email

Please select your preferred sessions from the program to create your personal ‘my program’.

If you need assistance downloading or using the app, please visit us at the Registration Desk.

Excellence Awards
When you register, you will receive a black ticket for the excellence awards gala ceremony and dinner and any additional tickets for guests. Please be sure to bring these with you to the event.

Using the conference app, you will be able to select and reserve your place at a table. Invite colleagues and friends to join you for a memorable night.

Photography and Recording
A professional photographer will be present for the duration of the event. We will publish photos taken at the conference in our journal, Engineering for Public Works, on our website and in marketing materials that promote our members, IPWEAQ and our industry. If you do not wish to be photographed, please advise the photographer and move out of camera range. Otherwise, consent is presumed granted. Photographs will be taken of delegates, speakers and exhibitors during sessions, social functions and at the awards ceremony and dinner. If you would like to arrange a group photo of you and your colleagues, please be sure to arrange this directly with the photographer.

JPL Media will be recording conference proceedings including all sessions, keynote presentations and plenary sessions. They will also conduct interviews with delegates, exhibitors and speakers. If you do not wish to be included in any videos, please advise the videographer and move out of camera range. Otherwise, consent is presumed granted.

Conference Sponsors
We wish to acknowledge our Principal Partners (Komatsu and A2K Technologies), Partners, exhibitors and sponsors for their ongoing support and contribution to our successes. Please see page 16 for a full list of our sponsors.

Exhibition
The #IPWEAQ18 trade exhibition is located in the Auditorium.

The exhibition will be open during the following hours:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday 11 October</td>
<td>07:30 – 15:15</td>
</tr>
<tr>
<td>Friday 12 October</td>
<td>07:30 – 15:00</td>
</tr>
</tbody>
</table>

We encourage you to visit and spend time with our exhibitors who supply products and services for our industry and contribute to our community. Please show your appreciation with your time and genuine interest.

A number of trade exhibitors will be conducting business card draws. Winners will be announced via the conference app during Afternoon Tea on Day 3. Winners should make their way to the relevant trade booth to collect their prize.

Winners and their prizes will be displayed during the plenary session prior to the lunch break and announced on the attendee app. Winners should make their way to the relevant trade booth to collect their prize.

President’s Charity
Each of our presidents nominate a charity for IPWEAQ to support during their term. Seren McKenzie has chosen MS Queensland.

Col Chandler, a renowned artist who lives with MS, will be finalising one of his paintings onsite on Thursday. This will then be auctioned at the gala awards ceremony and dinner that night.
One of Col’s paintings was famously chosen by the Beach Boys as the backdrop for their 2016 tour.

Don’t miss this opportunity to bid for Col’s painting and support MSQ at the same time.

When you register on Day 1, please purchase an MSQ lapel pin for $5 to wear during the conference. Our mobile EFTPOS machine will be available for your convenience.

Please see page 23 for this year’s fines including late arrival at sessions with double demerit points the morning after the excellence awards gala dinner/ceremony.

**WiFi**

The Marriott offers complimentary WiFi. Simply accept the Terms & Conditions to connect.

**Dietary Requirements**

If you have informed us of any special dietary requirements (vegetarian, vegan, coeliac etc), this information has been provided to the Marriott’s catering team and any external venues for social events you have registered to attend.

Please make yourself known to the catering staff during meal breaks and social functions. All efforts have been made to accommodate your requests.

**Feedback**

After the conference, we will email your certificate of attendance with CPD hours stated together with a conference survey form.

Your feedback is valued and will guide us for future events. Thanking you in anticipation.

**Geoff Wilmoth Best Paper Award**

Using your conference app, please vote after each presentation you attend so that we may collate results for a best paper award. The winner will be announced at the conference close during the President’s Address.

Read more about the Best Paper award on page 13.

**Conference Contacts**

**IPWEAQ**

Leigh Cunningham  0449 987 238
Johanna Vanling  0400 622 118
Craig Moss  0431 745 277
Mark Lamont  0423 520 900
Paula Paul  0478 680 618
Kevin Miller  0448 125 692

We look forward to welcoming you to the 2018 IPWEAQ Annual Conference!

Please share your experiences at the conference using #IPWEAQ18

---

**HAVE YOU INSTALLED THE CONFERENCE APP?**

To install the Attendee App on your Android or Apple Smartphones and tablets:

1. Download the Event App by EventsAIR to your device
2. Enter the App Code gc18
3. Login using the credentials specific to your registration
Technical Tours

**Tech Tour 1 // Oceanway (Coast Engineering & Bikeways)**
Travel from the conference venue to Narrowneck and park your bicycle along Main Beach Parade. This tour includes a commentary on:
- Northern Gold Coast Beach Protection Strategy
- Narrowneck Reef Renewal Project
- Stages of seawall construction
- Oceanway construction completed, and future stages (describing alignment with the City’s Transport Strategy and Ocean Beaches Strategy)
- Site walk between Cable Street and Higman Street with question time during the site walk

**Tech Tour 2 // Gold Coast Bridge Site Tour**
*(Maximum 40 participants)*
Depart the conference venue at 1pm by bus to arrive at the Thrower Drive Bridge for a guided tour underneath and around the bridge. After Afternoon Tea, enjoy a guided tour across the award-winning Sarawak Avenue Footbridge. The bus returns to the Marriott at 4:30pm in time for Welcome Drinks. Requires comfortable walking shoes, sun safe attire, hat and sunscreen.

**Tech Tour 3 // Gold Coast Light Rail**
*(Maximum 40 participants)*
After registration at the Marriott, delegates will walk to the Surfers Paradise North Tram Station to board the tram to travel to Helensvale Station. There we will enjoy a tour of the integrated heavy/light rail station interchange before reboarding and travelling to the Light Rail Depot facility with a potential tour of this facility (still to be confirmed). Board the tram to return to Surfers Paradise however there is an option to travel onto Broadbeach Station for inspection of the tram/bus interchange facility if time permits.

**Tech Tour 4 // Water & Waste**
*(Maximum 45 participants)*
Transfers to the Coombabah Sewage Treatment Plant (STP) will commence from the conference venue at 1pm. Features of the plant include:
- Uses biological nutrient removal activated sludge with chlorine for disinfection. There are seven parallel treatment trains.
- Coarse solids are removed through pre-treatment 3mm (effective) drum screens and grit removal systems
- Secondary clarifiers separate the activated sludge flocs and return this to the process
- The clarified effluent flows through to chlorine contact tanks for disinfection
- The biosolids waste is periodically removed from the process, referred to as waste activated sludge (WAS)
- The WAS is thickened using gravity drainage decks and further treated using mesophilic anaerobic digestion (heated to 30-35 degrees C)
- When stabilised and further reduced, the biosolids are dried using belt filter presses and drying beds to be finally trucked away and used as soil conditioner for suitable agricultural applications
- The treated recycled water is used for irrigation for public and private customers while excess is discharged to the seaway

The following PPE standards must be adhered to in order to join this tour. Delegates must:
- be at least 18 years old (unless accompanied by a supervising adult)
- wear flat, fully enclosed shoes
- wear the high visibility safety vest provided by the tour guide
- wear long pants, long sleeves and a wide brimmed hat.
- keep all electronic equipment switched off including mobile phones and cameras
- remain under the control and guidance of the treatment plant tour guide
Program Features

Keynote Speakers

Michael McQueen
Michael McQueen understands what it takes to thrive in a rapidly evolving world. Widely recognised for having his finger on the pulse of business and culture, he has helped some of the world’s best-known brands navigate change and stay ahead of the curve.
As a leading specialist in demographic shifts, change management and future trends, Michael features regularly as a commentator on TV and radio and has written five bestselling books.
His newest release, Momentum: How to Build it, Keep it or Get it Back is revealing look at how organizations and individuals can maintain a growth trajectory and ensure that a groove doesn’t become a rut.
In January 2016, Nic and Lucas were honoured as the first ever dual recipients of the Young Australian of the Year Award.
They have also been named QLD Young Achievers of the Year, and been finalists for the Telstra Business Awards, AIM Leadership Excellence Awards and Brisbane Young Entrepreneur of the Year Awards. They are currently nominated for the Professional Speakers Australia Breakthrough Speaker of the Year Award.
Lucas and Nic present their story of innovation, fast growth, social entrepreneurship, the impact of social media and how simple ideas can have an enormous impact. They speak at schools, corporates and conferences globally, and continue to inspire, motivate and do things differently!
As they continue to expand Orange Sky Laundry Australia-wide, they aim to positively connect the community and improve the lives of others.

Orange Sky Laundry
At the age of 20, best mates Nic Marchesi and Lucas Patchett built a free mobile laundry in their old van to help the homeless. Orange Sky Laundry began in October 2014 and since then, the world first idea has rapidly expanded to 11 vans in Brisbane, Melbourne, SE Melbourne, Adelaide, Sydney, Canberra, Hobart, Perth, Gold Coast, Sunshine Coast and Wollongong.
Run by more than 600 volunteers across the country, the custom-fitted vans with two commercial washing machines and two dryers service 73 locations and wash more than 7,000 kgs of laundry every week. A catalyst for conversation, Orange Sky Laundry facilitates over 1,300 hours of volunteering and conversation each week.
The organisation has also responded to natural disasters, helping cyclone-affected communities in North Queensland, residents of the Great Ocean Road Bushfires, and more recently, Adelaide flood victims. Orange Sky Laundry to date has washed over 300,000 kgs of free laundry, but most importantly, fostered over 80,000 hours of positive, genuine and non-judgemental conversation.
The organisation has also responded to natural disasters, helping cyclone-affected communities in North Queensland, residents of the Great Ocean Road Bushfires, and more recently, Adelaide flood victims. Orange Sky Laundry to date has washed over 300,000 kgs of free laundry, but most importantly, fostered over 80,000 hours of positive, genuine and non-judgemental conversation.
In January 2016, Nic and Lucas were honoured as the first ever dual recipients of the Young Australian of the Year Award.
They have also been named QLD Young Achievers of the Year, and been finalists for the Telstra Business Awards, AIM Leadership Excellence Awards and Brisbane Young Entrepreneur of the Year Awards. They are currently nominated for the Professional Speakers Australia Breakthrough Speaker of the Year Award.
Lucas and Nic present their story of innovation, fast growth, social entrepreneurship, the impact of social media and how simple ideas can have an enormous impact. They speak at schools, corporates and conferences globally, and continue to inspire, motivate and do things differently!
As they continue to expand Orange Sky Laundry Australia-wide, they aim to positively connect the community and improve the lives of others.

Michael Pascoe
Michael Pascoe is one of Australia’s most experienced and thoughtful finance and economics commentators with more than four decades in newspaper, broadcast and online journalism, covering the full gamut of economic and business issues, as well as occasionally straying into more whimsical matters of the human condition.
Despite being a reporter of the “dismal science”, he maintains a sense of humour and the ability to speak and write entertainingly about the state of the nation and world. Increasingly, Pascoe’s body of work represents a fight for keeping perspective amidst the noise and haste of a news cycle with a short attention span and sometimes questionable motives.
“There’s more data but less information, more opinion but less thought,” he says. “The low ebb of Australian politics has reduced debate to three-word chants and name calling. Both sides of politics have put the pursuit of power ahead of the best interests of the nation, ahead of being honest with the electorate. It’s never been more important to look through the headlines and political prejudices to find the facts.”
Michael Pascoe is contributing editor for The New Daily (thenewdaily.com.au), in demand as a speaker and facilitator and is regularly seen on the ABC’s The Drum, Channel 7’s Sunrise and other programs.
Program Features

Thursday 11 October
IPWEAQ Futures Challenge

Three students from QUT, CQU and USQ will prepare poster boards for display in the trade exhibition area. Delegates are asked to visit the displays and offer advice and feedback on the student’s theses. Students will then deliver a 10 minute presentation in the auditorium and delegates are asked to vote on the best presentation using the conference app. The winner will be announced at the gala awards ceremony/dinner that night.

Participating projects:

Matthew Soldatenko
Queensland University of Technology (QUT)
Double degree Civil Engineering – Business student
Safety of shear wall structures in the context of changes to the provisions of wall design in the Australian concrete structures standard (2018) and earthquake design load standard (2018 update

Madison Stahlhut
University of Southern Queensland (USQ)
Bachelor of Engineering (Civil) & Bachelor of Business (Management & Leadership)
Potential for Energy Generation using Pumped Storage Hydropower in the Toowoomba Water Supply

Lindsay Strafford
CQ University (CQU)
Bachelor of Engineering (Civil) (First Class Honours) and Diploma of Professional Practice (Co-Operative) – recently graduated
Controlling and Monitoring Algae Blooms in Effluent Ponds

Friday 12 October
The Great Debate - ‘tradition has no place in a modern workplace’

Moderator: Michael Pascoe

Team for the Affirmative:
- Ged Brennan, Managing Director, GenEng Solutions and IPWEAQ Past President.
- Cate Fennell, Cadet Engineer - Works, Parkes Shire Council (NSW) and IPWEAQ NSW Young Ambassador.
- Jimmy Scott, General Manager, Operations, Queensland Reconstruction Agency (QRA)

Team for the Negative:
- Kym Murphy, Regional Director, Downs South West Region Program Delivery And Operations Branch, Infrastructure Management and Delivery Division, TMR
- Mark Lamont, IPWEAQ Information Resources Manager
- Matthew Brennan, Civil Engineer, George Bourne & Associates

Affirmative Team
- Ged Brennan
- Cate Fennell
- Jimmy Scott

Negative Team
- Kym Murphy
- Mark Lamont
- Matthew Brennan
In 2018, a landmark case in the Northern Territory, ‘Timber Creek’, saw an appeals court uphold a lower court’s decision to award compensation to the Claim Group of $3.3 million. The Northern Territory government was held liable to pay the compensation for extinguishing the Claim Group’s rights over the land and waters around the township of Timber Creek. Despite numerous cases in the past that considered the operation of the Native Title Act, the primary judge’s decision was the first to ever consider and apply the compensation scheme under s61 of the Act. It is therefore now imperative that councils ensure they take the necessary steps to avoid extinguishing or impairing native title.

MOOT COURT
The moot court on Day 3 of the conference offers delegates a detailed understanding of the complexities of the case and an appreciation of why it is critically important to ensure they have diligent compliance processes in place for assessing native title and cultural heritage.

Participants in the moot court will deliver closing submissions which demonstrate the reasoning behind the elements of compensation awarded in this case. We are grateful to the team from Marrawah Law for their development of the moot court:

Cassie Lang  
Senior Solicitor

Thomas Cameron  
Senior Solicitor

Deanna Cartledge  
Senior Solicitor

Kylie Aldridge  
Paralegal

The team from Marrawah Law invite you to visit them at the IPWEAQ booth #17 to discuss your compliance issues. Mark will also be available to demonstrate the new IPWEAQ Native Title Governance portal to you.

IPWEAQ Native Title and Cultural Heritage Portals – LAUNCH

Mark Lamont, IPWEAQ’s Information Resources Manager, will introduce delegates to IPWEAQ’s new native title and cultural heritage governance portals which offer councils, utilities and others who must comply with native title legislation, an ‘easier’ path through the very complex process of determining what action a council should take prior to deciding on a public works.
Social Program

**YOUNG DELEGATES WELCOME**

**Venue**
Poolside
Mariott Spa & Resort, Surfers Paradise

**Date**
Wednesday 10 October

**Time**
12noon - 1pm
Lunch

**Dress**
Casual

**Sponsor**
Lion Systems

---

**WELCOME FUNCTION**

**Venue**
Poolside
Mariott Resort & Spa, Surfers Paradise

**Date**
Wednesday 10 October

**Time**
5pm-7pm
Canapes and drinks

**Dress**
Smart Casual

**Sponsor**
A2K Technologies

---

**GALA CEREMONY AND DINNER**

**Venue**
Mariott Resort & Spa, Surfers Paradise, Marriott Ballroom

**Date**
Thursday 11 October

**Time**
6pm – 7pm
Pre-dinner drinks
7pm – 11pm
Dinner and Awards Ceremony

**Dress**
Business / Cocktail attire

**Sponsor**
Premise

---

**CLOSING FUNCTION**

**Venue**
Surfers Paradise Surf Club
Cnr Hanlan Street and The Esplanade

**Date**
Friday 12 October

**Time**
5pm – 7pm
Canapes and drinks

**Dress**
Smart casual

**Sponsor**
EJ Australia
Conference Program

Wednesday, October 10, 2018

12:00 PM - 1:00 PM
Tech Tour Sign-In
YIPWEAQ Lunch

1:15 PM - 4:45 PM
Tour 1
Oceanway (Coast Engineering & Bikeways)
Tour 2
Gold Coast Bridge Site Tour
Tour 3
Gold Coast Light Rail
Tour 4
Water & Waste

5:00 PM - 7:00 PM
Welcome Function | Marriott Resort - Poolside

Thursday, October 11, 2018

7:30 AM - 8:30 AM
Registration Desk Opens - Day 2

8:30 AM - 8:45 AM
Welcome to Country

8:45 AM - 9:00 AM
Conference Welcome
Cr Tom Tate, Mayor City of Gold Coast

9:00 AM - 10:00 AM
Keynote Presentation 1
Michael McQueen

10:00 AM - 10:30 AM
Morning Tea - Day

Session Chair - Michael Pascoe

10:30 AM - 11:00 AM
Keynote Presentation 2
National Heavy Vehicle Regulator:
Jason Stewart - NHVR Stakeholder Specialist Queensland

11:00 AM - 11:30 AM
Economic Overview
Michael Pascoe

Panel Session: ‘Useful Life’ - depreciable life v serviceable life
Anthony Archie
Development & Governance Manager at Mareeba Shire Council representing the LGFP

Craig Young
Manager Civil Asset Management, Sunshine Coast Council

Patrick Flemming
Sector Director Local Government, QAO

Jan Xanthopoulo
Principal, Local Government Client Advisory, QTC
### Thursday, October 11, 2018

**12:15 PM - 1:15 PM**

**Lunch - Day 2**

<table>
<thead>
<tr>
<th>Underground infrastructure assets</th>
<th>Sustainable communities</th>
<th>Investing in safety</th>
<th>Technology &amp; Innovation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Dr Rob Fearon (Hinterland)</td>
<td>Chair: Andrew Johnson (Verandah)</td>
<td>Chair: Angela Fry (Waianbah)</td>
<td>Chair: Bruce Gardiner (Elston Room)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:15 PM - 1:45 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>How to plan for an earthquake event: Essential data collection approaches for underground infrastructure condition assessment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:45 PM - 2:15 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achieving Utility Damage Prevention through an Integrated Mapping and Data Management Program</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2:15 PM - 2:45 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geopolymer Concrete - The Future of Wastewater Infrastructure?</td>
</tr>
</tbody>
</table>

**2:45 PM - 3:15 PM**

Afternoon Tea - Day 2

**Session Chair - Michael Pascoe**

**3:15 PM - 3:45 PM**

**Plenary: What makes an engineer today?**

Cate Fennell: IPWEA NSW Young Ambassador

**3:45 PM - 4:15 PM**

**Keynote Presentation 3**

Neil Scales: Director General, Department of Transport and Main Roads

**4:15 PM - 5:00 PM**

IPWEAQ Futures Challenge

**5:00 PM - 6:00 PM**

Free Time

**6:00 PM - 7:00 PM**

Pre-Dinner Drinks

**7:00 PM - 11:00 PM**

**Excellence Awards Gala Dinner**

Marriott Resort Ballroom
### Friday, October 12, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM - 8:30 AM</td>
<td>Registration Desk Opens - Day 3</td>
</tr>
<tr>
<td>8:10 AM - 8:30 AM</td>
<td><strong>AGM</strong>&lt;br&gt;Session Chair - Michael Pascoe</td>
</tr>
<tr>
<td>8:30 AM - 9:15 AM</td>
<td><strong>Keynote Presentation 4</strong>&lt;br&gt;Nic Marchesi &amp; Lucas Patchett: Orange Sky Laundry</td>
</tr>
<tr>
<td>9:15 AM - 10:15 AM</td>
<td><strong>Native Title - Moot Court</strong>&lt;br&gt;Deanna Cartledge, Thomas Cameron, Cassie Lang: Marrawah Law</td>
</tr>
<tr>
<td>10:15 AM - 10:30 AM</td>
<td>Launch - Native Title/Cultural Heritage Portals&lt;br&gt;Mark Lamont: IPWEAQ</td>
</tr>
<tr>
<td>10:30 AM - 11:00 AM</td>
<td>Morning Tea - Day 3</td>
</tr>
</tbody>
</table>

#### Resilience & recovery<br>Chair: Seren McKenzie (Hinterland)
- Natural disaster funding reform Jimmy Scott: QRA
- Goodbye NDRRA, Hello DRFA - Preparing councils to manage asset reconstruction funding after the next natural disaster<br>Richard Hancock: Scenic Rim Regional Council
- Scenic Highway Statue Bay Cyclone Marcia restructure works<br>Dan Toon: Livingstone Shire Council

#### Network operations<br>Chair: Craig Murrell (Verandah)
- More than a sporting event: the transport legacy of GC2018<br>Matthew Tilly: City of Gold Coast
- Safety and Freight on the New England Highway - Darling Downs District’s strategic approach<br>Joseph Marstella: Department of Transport & Main Roads
- Investigating the benefits of the restricted access vehicle route assessment tool in local government’s decisionmaking process<br>Kieran Hay: Australian Road Research Board

#### Best practice for stormwater assets<br>Chair: Dave Cameron (Waianbah)
- They Might All Be Pipes, but Not All Pipes Are the Same<br>Andrew Ruffles: Concrete Pipe Association of Australia
- Data Validation & Condition Assessment of Council Stormwater Assets<br>Sean Rice: Proterra Group
- Case Study: The Importance of Adequate Development Compliance from an Asset Managers Perspective<br>Shannen Pretlove: Sunshine Coast Council

#### Connected communities<br>Chair: Gerard Read (Elston)
- Yamala Feeder Roads Options Gerhard Joubert: Central Highlands Regional Council
- How Best Practice Management of Unsealed Roads keeps the Mackay region connected with a safe and accessible rural road network<br>Darren Shepherd & Brendon Carter: Shepherd Services
- Regional airport pavement challenges, needs and innovation<br>Dr Greg White: University of the Sunshine Coast
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Chair/Location</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 PM - 2:00 PM</td>
<td>Innovative solutions Chair: Celisa Faulkner (Hinterland 1)</td>
<td></td>
<td>Mitch Bradow: City of Gold Coast</td>
</tr>
<tr>
<td></td>
<td>Construction materials Chair: Craig Young (Hinterland 2)</td>
<td></td>
<td>Use of Waste Recycled Glass in Concrete as a Partial</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cement and Fine Aggregate Replacement</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Joshua Flanders: Cairns Regional Council</td>
</tr>
<tr>
<td>2:00 PM - 2:30 PM</td>
<td>Flying Fish Point Rock Revetment Remediation &amp; the Application of Fish Friendly Features and Other Innovative Measures Justin Fischer &amp; Anthony Folan: Cassowary Coast Regional Council</td>
<td></td>
<td>Extended Stockpile Working Times: Plant Mix Foam Bitumen Paul Rhoden: Hiway Stabilizers Australia</td>
</tr>
<tr>
<td>2:30 PM - 3:00 PM</td>
<td>Learnings from the 2016 IPWEA Study Tour Gleb Kolenbet: Moreton Bay Regional Council</td>
<td></td>
<td>Implementing open graded crumb rubber &amp; crumb gapgraded asphalt technologies in Australia - performance and sustainability Dr Laszlo Petho: Fulton Hogan</td>
</tr>
<tr>
<td>3:00 PM - 3:30 PM</td>
<td>Afternoon Tea - Day 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30 PM - 4:15 PM</td>
<td>The Great Debate: Tradition has no place in a modern workplace</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Affirmative: Ged Brennan, Cate Fennell, Jimmy Scott</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Negative: Matthew Brennan, Mark Lamont, Kym Murphy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:15 PM - 4:30 PM</td>
<td>IPWEAQ President’s Address</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seren McKenzie</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00 PM - 7:00 PM</td>
<td>Closing Ceremony - Surfers Paradise Surf Club</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Who is Geoff Wilmoth?

Geoff Wilmoth was a founding member of IPWEAQ, chairing the inaugural meeting held in Rockhampton 7 October 1970 which proposed the formation of a Queensland local government engineer’s association. He was then elected onto the Institute’s governing committee at the inaugural meeting on 2 October 1972.

Mr Wilmoth graduated from the University of Melbourne in 1934 with the degree of Bachelor of Civil Engineering. He was first employed as a temporary Assistant Draftsman by the Queensland Main Roads Commission in 1934 but resigned a year later to work as the assistant to CR Tranberg, Shire Engineer of Johnstone Shire Council. After experience in road and bridge survey, design and construction, he obtained the position of Engineer in Charge of loan subsidy and Main Roads works in the Town of Roma in 1936. He resigned after a year to work as Assistant Engineer to HE MacDonnell, consulting engineer of Gayndah, whose practice provided full engineering services for nine rural shires in the Burnett area.

Wilmoth served in the Australian Army. Upon demobilisation in 1945 he was appointed City Engineer of Bundaberg and in 1948 he was appointed City Engineer in Mackay.

Wilmoth joined the Toowoomba City Council in March 1953, the organisation with which he spent the remainder of his working life until his death in 1973. Shortly after joining the council, he was appointed City Engineer and Town Planner. He continued research into potential sites for Toowoomba’s second water supply storage area. The results of stream flows and other surveys indicated Perseverance Creek was the most suitable site. Council officers proceeded with detailed surveys and design of the dam, pump tower and rising main to the Mt Kynoch reservoir. The construction of a water treatment plant at Mt Kynoch progressed after completion of the Perseverance Dam system in 1962.

The main water distribution system was augmented with steel mains and a new service reservoir at Mt Lofty, and a new mushroom shaped elevated reservoir at Picnic Point. These projects combined to form a very efficient water supply system and were constructed over many years, by which time preliminary investigations had begun into the Cressbrook Dam system, Toowoomba’s third water supply storage area.

Wilmoth encouraged major sewerage works to ensure all of Toowoomba was sewered in as short a period as finances permitted. He formulated a 10 year program of accelerated sewerage reticulation. After the 10 year program was completed, further surveying, particularly for the expansion of sewerage reticulation, was carried out using aerial photography. The sewerage reticulation program also required augmentation of existing sewers while the extended catchment areas necessitated major expansion of the Wetalla Sewage Treatment Plant.

Wilmوث also oversaw the elimination of the remaining red gravel roads and the kerbing and channelling of all new and existing bitumen roads in Toowoomba. Under his leadership stormwater and the city’s creeks also received more consideration, including the undergrounding of five year storm flows in East Creek, Lake Annand and a retention lake.

Wilmoth’s philosophy was simple: first things first. Water and sewerage was the number one priority, roads number two, stormwater and creeks number three and beautification projects as funds permitted. He devised programs for construction in sequence of needs. His well-conceived and well-presented reports resulted in Council approving most of his preferred programs. He was appointed to the National Capital Planning Committee in the late 1960s.

Mr Wilmoth passed away on 8 April 1973. He was acknowledged for his service at the first Annual General Meeting of the Institute held 1 October 1973 and it is recorded that, ‘Geoff will be long remembered and revered by all of his engineering colleagues and it would be fitting if some tangible form of recognition of his service to the community could be instigated by this Association.’

The Geoff Wilmoth award for the best paper delivered at our state conference continues 43 years later in his honour.

Last year’s winner
Mike Holeszko
Southern Downs Regional Council
Southern Downs to B Double or not to B Double

2018 winner
Delegates are invited to vote for the best paper of the conference using the conference app. The winner of the Geoff Wilmoth award will be announced during the President’s Address at the conference close on Day 3. The winner will receive a complimentary registration plus travel and accommodation to attend the IPWEA NZ conference in 2020. The winner will also have an opportunity to deliver their presentation at that event.
Our Sponsors

Conference Sponsor
(Platinum)

CITY OF GOLD COAST

YIPWEAQ Welcome Lunch

Lion Systems
Asset and Data Management Services

Welcome Function

A2K Technologies

Lanyards

NEPEAN Building & Infrastructure

Satchels

PROTERRA GROUP

Coffee Cart

McArthur

EXCELLENCE AWARDS

Gala Dinner

Premise

Engineer of the Year

WAGNERS

Woman in Engineering

GHD

Young Engineer of the Year

geneng solutions

Environment & Sustainability

KOMATSU

Innovation

C.R. Kennedy & Company Pty Ltd

Road Safety

HIG Harrison Infrastructure Group

Innovation & Sustainability
in Water

A2K Technologies

Streams

Board of Professional Engineers of Queensland

President’s Charity (MSQ)
& Col Chandler

Lawyers McCullough Robertson

Closing Ceremony

ej
Our Exhibitors

<table>
<thead>
<tr>
<th>Booth #</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Allquip Water Trucks</td>
</tr>
<tr>
<td>2</td>
<td>Instrada / PBS</td>
</tr>
<tr>
<td>3</td>
<td>Nepean Building &amp; Infrastructure</td>
</tr>
<tr>
<td>4</td>
<td>Hiway Group Ltd</td>
</tr>
<tr>
<td>5</td>
<td>Global Synthetics Pty Ltd</td>
</tr>
<tr>
<td>6</td>
<td>COLAS Australia Group Pty Ltd</td>
</tr>
<tr>
<td>7</td>
<td>Shepherd Services Pty Ltd</td>
</tr>
<tr>
<td>8</td>
<td>C.R Kennedy</td>
</tr>
<tr>
<td>9</td>
<td>Board of Professional Engineers of Queensland</td>
</tr>
<tr>
<td>10</td>
<td>Stabilised Pavements of Australia</td>
</tr>
<tr>
<td>11</td>
<td>Allroads Pty Ltd</td>
</tr>
<tr>
<td>12</td>
<td>SuperSealing</td>
</tr>
<tr>
<td>13</td>
<td>Komatsu Australia Pty Ltd</td>
</tr>
<tr>
<td>14</td>
<td>McBerns Innovative Solutions</td>
</tr>
<tr>
<td>15</td>
<td>McCullough Robertson Lawyers</td>
</tr>
<tr>
<td>16</td>
<td>Boral</td>
</tr>
<tr>
<td>17</td>
<td>IPWEAQ</td>
</tr>
<tr>
<td>18</td>
<td>Dial Before You Dig</td>
</tr>
<tr>
<td>19</td>
<td>Downer PipeTech Pty Ltd</td>
</tr>
<tr>
<td>20</td>
<td>Delnorth</td>
</tr>
<tr>
<td>21</td>
<td>Pavement Management Services</td>
</tr>
<tr>
<td>22</td>
<td>Orion Solar</td>
</tr>
<tr>
<td>23</td>
<td>Peak Services</td>
</tr>
<tr>
<td>24</td>
<td>Fulton Hogan Industries Pty Ltd</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Booth #</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>A Plus Plastics Pty Ltd</td>
</tr>
<tr>
<td>26</td>
<td>Flocon Engineering International Pty Ltd</td>
</tr>
<tr>
<td>27</td>
<td>EJ Australia Pty Ltd</td>
</tr>
<tr>
<td>28</td>
<td>Lion Systems</td>
</tr>
<tr>
<td>29</td>
<td>Five Elements International Pty Ltd</td>
</tr>
<tr>
<td>30</td>
<td>LGIAsuper</td>
</tr>
<tr>
<td>31</td>
<td>Wagners CFT Manufacturing Pty Ltd</td>
</tr>
<tr>
<td>32</td>
<td>Ingal Civil Products</td>
</tr>
<tr>
<td>33</td>
<td>Saferoads</td>
</tr>
<tr>
<td>34</td>
<td>12d Solutions Pty Ltd</td>
</tr>
<tr>
<td>35</td>
<td>Holcim/Humes Australia</td>
</tr>
<tr>
<td>36</td>
<td>Puma Bitumen</td>
</tr>
<tr>
<td>37</td>
<td>Assetic</td>
</tr>
<tr>
<td>38</td>
<td>LO-GO Appointments</td>
</tr>
<tr>
<td>39</td>
<td>Water Modelling Solutions</td>
</tr>
<tr>
<td>40</td>
<td>InQuik Pty Ltd</td>
</tr>
<tr>
<td>41</td>
<td>Yotta / RapidMap Global</td>
</tr>
<tr>
<td>42</td>
<td>Downer Group</td>
</tr>
<tr>
<td>43</td>
<td>SEALS Brisbane Pty Ltd</td>
</tr>
<tr>
<td>44</td>
<td>Turbid Water Solutions</td>
</tr>
<tr>
<td>45</td>
<td>Hastings Deering (Australia) Ltd</td>
</tr>
<tr>
<td>46</td>
<td>Vac Group</td>
</tr>
<tr>
<td>47</td>
<td>A2K Technologies</td>
</tr>
<tr>
<td>48</td>
<td>McArthur</td>
</tr>
</tbody>
</table>

- Staircase from lobby leading to conference area
- Delegates will be entering exhibition area in this direction
Councils and Organisations

We look forward to welcoming delegates from the following councils and organisations:

Councils
- Barcaldine Regional Council
- Brisbane City Council
- Bundaberg Regional Council
- Burdekin Shire Council
- Cairns Regional Council
- Cassowary Coast Regional Council
- Central Highlands Regional Council
- Christchurch City Council
- City of Gold Coast
- City of Ipswich
- City of Townsville
- Cloncurry Shire Council
- Cook Shire Council
- Douglas Shire Council
- Flinders Shire Council
- Gladstone Regional Council
- Goondiwindi Regional Council
- Gympie Regional Council
- Kowanyama Aboriginal Shire Council
- Livingstone Shire Council
- Lockyer Valley Regional Council
- Logan City Council
- Mackay Regional Council
- Mareeba Shire Council
- Moreton Bay Regional Council
- Murweh Shire Council
- Noosa Council
- North Burnett Regional Council
- Parkes Shire Council
- Redland City Council
- Rockhampton Regional Council
- Scenic Rim Regional Council
- Shoalhaven City Council
- Somerset Regional Council
- South Burnett Regional Council
- Southern Downs Regional Council
- Sunshine Coast Council
- Tablelands Regional Council
- Toowoomba Regional Council
- Western Downs Regional Council
- Whitsunday Regional Council

Organisations
- 3m
- A Plus Plastics
- A2K Technologies
- AIPM
- ARRB Group
- Aurecon Australasia
- Australian Road Research Board
- Axter Australia
- Bellwether
- BMD
- Boral Asphalt
- Brandon & Associates
- Burchills Engineering Solutions
- CARDNO Ltd
- COLAS Australia Group
- COMPLETE Urban
- CPM Group
- CQUinity
- Delnorth Roadside Products
- Department of Transport and Main Roads
- Dial Before You Dig
- Digital8
- Dileigh Consulting Engineers
- Downer PipeTech
- EJ Tannock & Associates
- Engeny Water Management
- Engineers Australia
- FNGROC
- Fred S
- GenEng Solutions
- George Bourne & Associates
- GHD
- Global Synthetics
- Griffith Chambers
- Grummitt Consulting
- GUMURRII Student Support Unit
- GWR Civil Engineering Management
- Haro Designs
- Hastings Deering (Australia) Ltd
- Hiways Stabilizers Australia
- Ingal Civil Products
- Komatsu Australia
- LGQA
- Lion Systems
- Local Buy
- LO- GO Appointments
- Marrawah Law
- McArthur
- McBerns
- McCullough Robertson Lawyers
- National Heavy Vehicle Regulator
- North Canterbury Transport and Infrastructure Recovery
- Pavement Management Services
- Peak Services
- Perriwell
- PointB
- PolyCom Stabilising Aid
- Professionals Australia
- Proterra Group
- QTC - Local Govt infrastructure Services
- Queensland Reconstruction Authority
- Queensland University of Technology
- Queensland Water Directorate
- RapidMap Global
- RCRA
- Redfrost
- Retired
- Saferoads
- SEEC
- Shepherd Services
- SLR Consulting
- Stabilised Pavements of Australia
- Steel Mains
- Supersealing
- Synapse
- TOD Consulting Engineers
- Tonkin Consulting
- TRACTO-TECHNIK Australia
- Turbid Water Solutions
- University of Southern Queensland
- University of Sunshine Coast
- Wagners CFT Manufacturing
- Wave International
- Yotta Australia
Excellence Awards

People Categories
Join us at the 2018 excellence awards as we celebrate the people who deliver the projects that make Queensland great.

Thursday 11 October 2018
Marriott Resort & Spa
Wainabah and Elston Rooms
Pre-dinner drinks 6pm
Dinner and awards ceremony 7pm to 11pm
Dress business/cocktail dress

- Engineer of the Year
- Woman in Engineering
- Young Engineer of the Year
- Team Member of the Year (non-engineers and includes Supervisors, Works Officers and other support staff) (NEW)
- President’s Award - chosen by the President for outstanding contributions to the Institute

2017 Engineer of the Year
Mike Brady
Toowoomba Regional Council

2017 Woman in Engineering
Glenda Kirk
Mareeba Shire Council

2017 Young Engineer of the Year
Aaron Meehan
Western Downs Regional Council

2017 President’s Award
Frank Scheele
South Burnett Regional Council

2017 Works Supervisor
Jeff Heit
Toowoomba Regional Council
Project Nominations

**Asset Management**
- Mackay Regional Council & Shepherd Services
  Best Practice Management of unsealed road networks
- Mackay Regional Council
  Mackay Regional Council - Mount Pleasant No.1 Reservoir Refurbishment

**Environment & Sustainability**
- Local Government Association of Queensland
  Qcoast2100 Program
- Brisbane City Council
  Kalinga Bowls Club Land Remediation Project
- Cassowary Coast Regional Council
  Flying Fish Point Green Seawall
- Brisbane City Council
  oowong Bus Depot new roof and solar system installation
- Mareeba Shire Council
  Mareeba Landfill Surface Waters Management Project

**Innovation in public works**
- Aurecon
  Marlin Coast Waste Water Treatment Plant Condition Assessment - Cairns Regional Council - Water and Waste
- Ipswich City Council & BMD Constructions
  Ipswich Cycle Park
- City of Gold Coast
  GC2018 Travel Demand Management Program
- City of Gold Coast
  Gold Coast City Freight Plan 2018-2028
- Western Downs Regional Council
  Chinchilla Works Depot Project
- Brisbane City Council - Catalina Riverwalk

**Innovation and Sustainability in Water - projects over $5 mil**
- LGAQ & DNRME
  Queensland Water Regional Alliances Program - (QWRAP 2011-2018)
- Mount Isa City Council
  Upgrade of Waste Water Treatment Plant
- Fraser Coast Regional Council
  Teddington Water Treatment Plant Raw Water Inlet Works

**Innovation and sustainability in water - projects under $5 mil**
- Central Highlands Regional Council
  Blackwater Sewage Treatment Plant Effluent Irrigation Project
- Toowoomba Regional Council
  Charlton North Catchment Stormwater Detention Basin (CNCSDB)
- Logan City Council
  Sun and Salt: Logan's water quality solution
- Flinders Shire Council
  Flinders Sewerage Treatment Plant effluent reuse project
- Mareeba Shire Council
  Mareeba Landfill Surface Waters Management Project
- Mackay Regional Council
  Mackay Regional Council - Mount Pleasant No.1 Reservoir Refurbishment
- Aurecon
  Marlin Coast Waste Water Treatment Plant Condition Assessment - Cairns Regional Council - Water and Waste

**Public works projects $2 million to $5 million**
- Logan City Council
  Chardon Road Bridge Replacement
- Somerset Regional Council
  Brisbane Valley Rail Trail (Toogoolawah to Moore)
- Cairns Regional Council
  Collins Avenue Bridge replacement
- Ipswich City Council
  Ipswich Cycle Park
- Toowoomba Regional Council
  Charlton North Catchment Stormwater Detention Basin (CNCSDB)

**Public works projects $5 million to $10 million**
- Cairns Regional Council
  Lake Street Car Park Building
- Toowoomba Regional Council
  City Hall Auditorium and Annex Refurbishment

**Public works projects over $10 million**
- City Of Gold Coast
  HOTA Stage 1a outdoor stage and concert lawn
- Bundaberg Regional Council
  Bundaberg Region Multi-use Sports and Community Centre (Multiplex)
- Toowoomba Regional Council
  Boundary Street Upgrade Project

**Public works projects under $2 million**
- Kowanyama Aboriginal Shire Council
  Kowanyama Social Precincts
- City Of Gold Coast
  GC2018 Queen’s Baton Relay Traffic Management
- City Of Gold Coast
  Installation of vehicle security retractable bollards in the Esplanade, Surfers Paradise
- Flinders Shire Council
  Flinders Sewerage Treatment Plant effluent reuse project
- City Of Gold Coast
  2018 Commonwealth Games Transport Infrastructure Works - Surf Parade and Margaret Avenue Intersection Upgrade
- Cairns Regional Council
  Babinda Boulders Improvement works
- Cairns Regional Council
  Centenary Lakes Nature Play
- Mareeba Shire Council
  Ootann Road Upgrade
- Transurban Queensland Freyssinet Australia Pty Ltd, Heywood Engineering Solutions Pty Ltd, AECOM Australia Pty Ltd, Dept TMR
  Original Gateway Bridge Bearings Replacement Project
Project Nominations

- Toowoomba Regional Council
  Toowoomba City Golf Course Cycleway

Road Safety
- Western Downs Regional Council
  Western Downs Region School Zone Pedestrian Safety and Traffic Efficiency Initiative
- Cairns Regional Council
  Road safety - suite of works
- Brisbane City Council
  LED Road Signs
- Brisbane City Council
  Speed Awareness Monitors

Who doesn’t like a bit of fun? Especially when it’s for a good cause!

Our Conference Code referees will be on the lookout for violations of the Conference Codes. Known repeat offenders may wish to simply pay in advance.

Conference Code 106 violation:
Use of a mobile phone during a session (Emergency cases and Tinder exempt)

Conference Code 403 violation:
Late arrival to session (particularly first session Friday morning – double demerit points apply)

Conference Code 663 violation:
Not having a ridiculously good time at the gala dinner (If you’re not smiling look out)

Conference Code 746 violation:
Talking during the awards ceremony – please save the chatting for breaks in proceedings and after the awards conclude. Double demerit points apply.

Conference Code 867 violation:
Daggy dance moves including signature moves from Saturday Night Fever, Gangnam Style or Michael Jackson impersonations. (Solid Gold Dancers exempt).

If you are found to be in violation of any Conference Code, our diligent, tireless referees will issue you with a $10 fine or $20 for double demerit point offences. Delegates are invited to dob in a mate; no questions asked. And all delegates are asked to report violations of Conference Code 867 while in progress. Video evidence otherwise required.

You may pay your fines in cash or we have a mobile creditcard facility available.

All proceeds go to MS Queensland.

In addition to the above fundraising activity you are invited to:

- Purchase an MS lapel pin for $5 when you register and wear it throughout the conference to show your support.
- Bid on Col Chandler’s extraordinary ocean themed artwork painted exclusively for our event. See page 5 for details.

Thank you for your continued support raising funds for this worthy cause!
About IPWEAQ

IPWEAQ is the peak body representing those actively involved in the delivery of public works and services in Queensland.

Our purpose is to enhance the quality of life for all Queensland communities by advancing the skills, knowledge and resources available to those involved in the planning and provision of public works and services.

Our History
A meeting, chaired by Geoff Wilmoth was held in Rockhampton 7 October 1970 proposing the formation of a Queensland local government engineer’s association. The inaugural meeting of the Local Government Engineers’ Association of Queensland (LGEAQ) was held at Southport, on 2 October 1972, attended by approximately 50 engineers from various local authorities. TJ (Jim) Abbiss was elected as our founding President.

The name of the association was changed in 1999 to the Institute of Public Works Engineering Australia, Queensland then again in 2015 to the Institute of Public Works Engineering Australasia, Queensland.

Our Board

President
Seren McKenzie

Vice President
Craig Murrell

Board member
Gerard Read

Board member
Andrew Ryan

NQ Branch President
Bruce Gardiner

SWQ Branch President
Angela Fry

SEQ Branch President
Raad Jarjees

CQ Branch President
Celisa Faulkner

Our Chief Executive Officer

Leigh Cunningham
07-3632 6810
Leigh.Cunningham@ipweaq.com

Queensland Water Directorate (qldwater)
In 2003, the Institute established the Queensland Water Directorate to provide services to the urban water industry. qldwater is a registered business of IPWEAQ.

Registered Charity
IPWEAQ is a registered charity with the Australian Charities and Not-for-profits Commission (ACNC)

President’s Charity
IPWEAQ presidents nominate a charity for members to support during their term. Seren McKenzie has chosen Multiple Sclerosis Queensland.
IPWEAQ Partners
Public Works Technical Subscription

- Full access to Standard Drawings which can be shared with constituents (value $800 per individual user)
- Discount for the multi-user version of the Queensland Urban Drainage Manual (QUDM) (value $140)
- 10% discount on annual ADAC subscription as a member of the consortium (value up to $700)
- Copy of Lower Order Road Design Guidelines, PDF (value $400)
- Copy of Complete Streets: Guidelines for Urban Street Design (value $400)
- One complimentary registration to the IPWEAQ annual conference for a council nominee including access to the conference proceedings (podcasts) (value up to $1,800)
- One complimentary registration to the relevant IPWEAQ branch conference for a council nominee including access to conference proceedings (podcasts) (value up to $450)
- Your mayor, CEO and councillors receive a complimentary registration to the IPWEAQ annual conference (value up to $1,800 per person)
- Your council listed on the IPWEAQ website linked to your website
- Opportunity to include notices including job vacancies in ‘Connect’ our fortnightly e-news service

$4,100 (plus GST)
Professional Development

Continuing your professional development
All programs can be customised to meet your specific needs and delivered at your preferred location.

- Critical risk management
- Basic geometric road design
- Drainage for road design
- Managing unsealed roads
- Investigation and treatment of crash locations
- Contract Management Fundamentals
- Administration of Construction Contracts
- Tender Administration
- Transition from expert to technical leader

Please contact Craig Moss for more information

REGISTER NOW!
ADAC (Asset Design as Constructed) is a non-proprietary data specification and transport format (XML) for the description and transmission of asset design and as constructed data.

Incorrect, missing or redundant data can cause your organisation significant time delays and money. ADAC is a strategic solution through quality data capture and management for government and utilities.

ADAC is available for asset owners at no cost, however we encourage you to become a member of the ADAC consortium. Benefits of membership include the ability to influence the ongoing development, governance and expansion of the specification. Consortium members also receive access to documents, tools and materials developed to support ADAC implementation and an opportunity to shape the strategic direction of ADAC in conjunction with BIM.

We have a panel of skilled providers to assist you with the implementation of ADAC.

Contact:
Craig Moss | Craig.Moss@ipweaq.com
Phone: 3632 6805

CONSORTIUM MEMBERS:
Brisbane City Council
Bundaberg Regional Council
City of Charles Sturt
City of Gold Coast
Gladstone Regional Council
Gympie Regional Council
Lockyer Valley Regional Council
Logan City Council
Mackay Regional Council
Moreton Bay Regional Council
Port Macquarie-Hastings
Queensland Urban Utilities
Redland City Council
Rockhampton Regional Council
SA Water
Sunshine Coast Council
Toowoomba Regional Council
Tweed Shire Council
Unity Water
Whitsunday Regional Council

GETTING IT RIGHT THE FIRST TIME WITH CONSISTENT DATA

Featured in the International Infrastructure Management Manual (IIMM)
We invite you to join us for the 2019 IPWEAQ Annual conference to be held at the Brisbane Showgrounds, 22-24 October 2019.

The historic Brisbane Showgrounds is a world-class events and lifestyle precinct, located on the fringe of the city’s CBD.

It’s home to the state-of-the-art Royal International Convention Centre (Royal ICC), a 4.5 star Rydges Hotel and vibrant King Street dining hub, making it a sought-after and leading events destination.

The Brisbane Showgrounds offers the largest and most versatile range of indoor and outdoor venues in Queensland.

Conference Loyalty Program

Delegates who attended #IPWEAQ18 are entitled to a 10% discount on their 2019 conference registration.

Delegates who attended #IPWEAQ18 and #IPWEAQ17 are entitled to a 20% discount on their 2019 conference registration.

Register early with Johanna or Paula.

No cancellation fees apply up to one month prior to the event and registrations are transferable to a colleague up to one week prior to the event.

Call for papers

Call for papers opens 1 February 2019. Submit your abstract online together with your bio and photo.

Conference papers may be selected for publication in the December 2019 issue of our quarterly e-Journal, Engineering for Public Works.

All conference papers will be uploaded to the IPWEAQ Knowledge Centre.

Contact Craig Moss and Paula Paul for more information on the 2019 conference program.

Branch scholarships including a complimentary conference registration are available for disadvantaged members and for YIPWEAQ members.

Please contact Leigh Cunningham for more information.

We look forward to welcoming you to #IPWEAQ19 in Brisbane!