

Queensland



**IPWEA**

INSTITUTE OF PUBLIC WORKS  
ENGINEERING AUSTRALASIA

# IPWEAQ ANNUAL CONFERENCE 2020 HANDBOOK

**IN PARTNERSHIP WITH BRISBANE CITY COUNCIL**

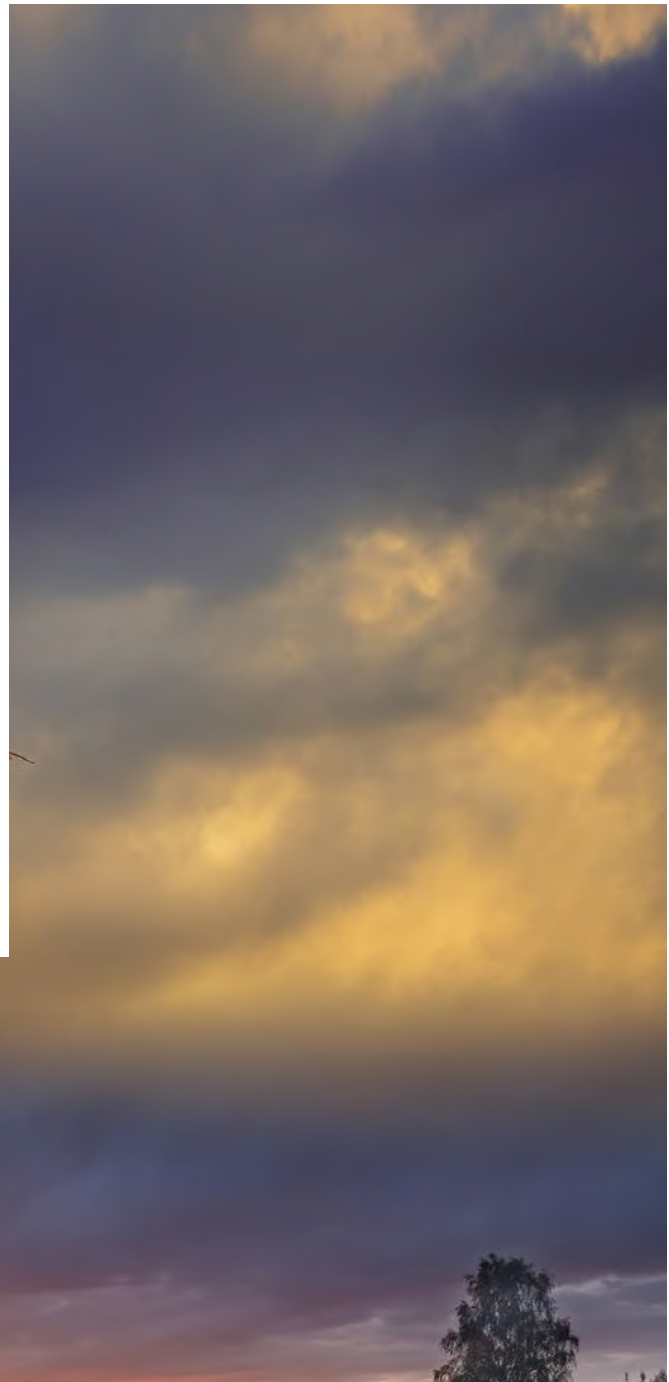
**Brisbane Convention & Exhibition Centre,  
10 – 12 November 2020**





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**IPWEA**

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ENGINEERING AUSTRALASIA



**RURAL AID**

PRESIDENT'S  
CHARITY







# Welcome

## MESSAGE FROM BRISBANE LORD MAYOR ADRIAN SCHRINNER

Welcome to Brisbane for the Institute of Public Works Engineering Australasia QLD Conference.

Despite all the challenges this year has thrown at us, I'm thrilled Brisbane is once again able to host this annual event and look forward to seeing the innovative ideas that come from the 2020 IPWEAQ Conference.

The health and economic impacts of the coronavirus pandemic have caused uncertainty not only for the public works sector, but all industries across the globe. While we don't know what the future has in store, Brisbane City Council is continuing to lay the foundations for a bold, bright and ambitious future.

As Lord Mayor of Brisbane, I remain focused on steering our city through this crisis and our Economic Recovery Taskforce is hard at work, rolling out a multi-million-dollar support package to assist struggling local businesses and create jobs by fast-tracking city-shaping infrastructure projects. Whether it's delivering new green bridges, the award-winning Brisbane Metro project, building new double-decker CityCats or the delivery of the transformative Victoria Park

Vision; job-generating projects will ensure there are jobs in the pipeline and a better, brighter future for all Brisbane residents.

Brisbane is only getting better and I hope you have a wonderful stay in our city. All the best for the 2020 IPWEAQ Conference!



**Adrian Schrinner**  
Mayor  
Brisbane City



# Welcome from the President



## We are delighted to welcome you to #IPWEAQ20 at the Brisbane Convention & Exhibition Centre (BC&EC), Brisbane, 10 – 12 November 2020

The program this year starts Tuesday 10 November with an Emerging Professionals workshop (for those under age 35), 'Communicate Confidently', facilitated by Tanya Konigsberger. The workshop will be followed by an U35s Welcome lunch and opportunity for delegates to have a professional headshot.

We have three Technical Tours this year:

- Cross River Rail and Queens Wharf Brisbane
- Historic Brisbane (Walking Tour)
- Holcim Pre-Cast Facilities Tour

This year, our IPWEAQ Excellence Awards gala dinner and ceremony, sponsored by Premise, will take place on Tuesday evening, the first night of the conference instead of the usual Welcome Function. Please note the dress code for this event. A record 86 nominations were received so please join us for a night celebrating the achievements of our sector.

We are delighted to welcome Bill McDonald as our MC this year. Bill is one of Australia's most experienced and recognised cross platform news and sport journalists. In 2018, he stepped away from the nightly news desk to develop his multi-media consultancy. Bill will also host of State of Origin Game II dinner on Wednesday night.

All delegates have been invited to this year's Women in Public Works Engineering (WPWE) Masterclass facilitated by Alison Hill. 'Work/Life Balance: can I have it all?' might generate a range of different answers at the end of 2020 than any prior year.

Our keynote speaker in the opening session on Day 2 is journalist, Peter Greste who spent 400 days in an Egyptian prison on terrorism charges having been convicted and sentenced to seven years in prison.

The 2020 Futures Challenge will include these presentations from three students – two from USQ and one from Griffith University. The winner this year will be announced at the conference close (Thursday 12 November). Delegates will be asked to vote for the best presentation using the conference app.

On Wednesday evening, we are hosting a State of Origin Game II event with footy fare. Likely to never be repeated, we encourage delegates to don their Maroons and Blues jerseys! A raffle to win a Maroons or Blues jersey will raise monies for the President's Charity, Rural Aid.

Thursday morning, we have two keynote speakers: Michael Kasprovicz and Noel Whittaker.

Michael Kasprovicz specialises in the business of sport. Following a 19-year career as a professional cricketer, Michael became a Director on the independent, skill-based Board of Cricket Australia and has been active in the governance of the national body for the past six years.

Noel Whittaker is one of the world's foremost authorities on personal finance with over four million readers each week for his columns in major Australian newspapers.

The topic for this year's Great Debate is 'Engineers are introverts and are disconnected from the world around them'. On the affirmative team: Josh Flanders (St George Project Services and IPWEAQ Ambassador), Moira Zeilinga (Clear Idea), Dr Rob Fearon (**qldwater**). On the negative team: Seren McKenzie (Southern Downs Regional Council), Trevor Dean (Fraser Coast Council) and Maddy Stahlhut (GHD and IPWEAQ Ambassador).

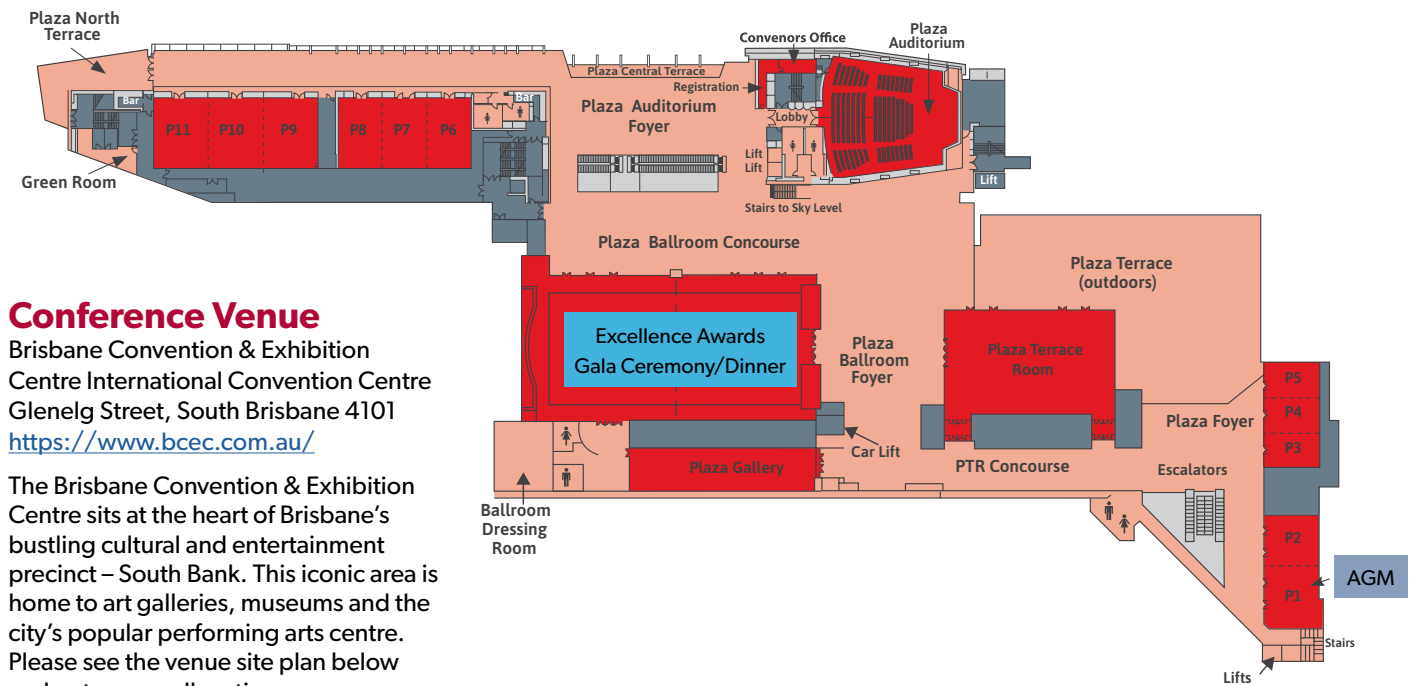
On behalf of the Board and the team at IPWEAQ, we look forward to welcoming you to Brisbane for what will be a unique and memorable IPWEAQ Annual Conference.

**Craig Murrell**  
IPWEAQ President



# General Information

We have pleasure in welcoming you to the 2020 IPWEAQ Annual Conference

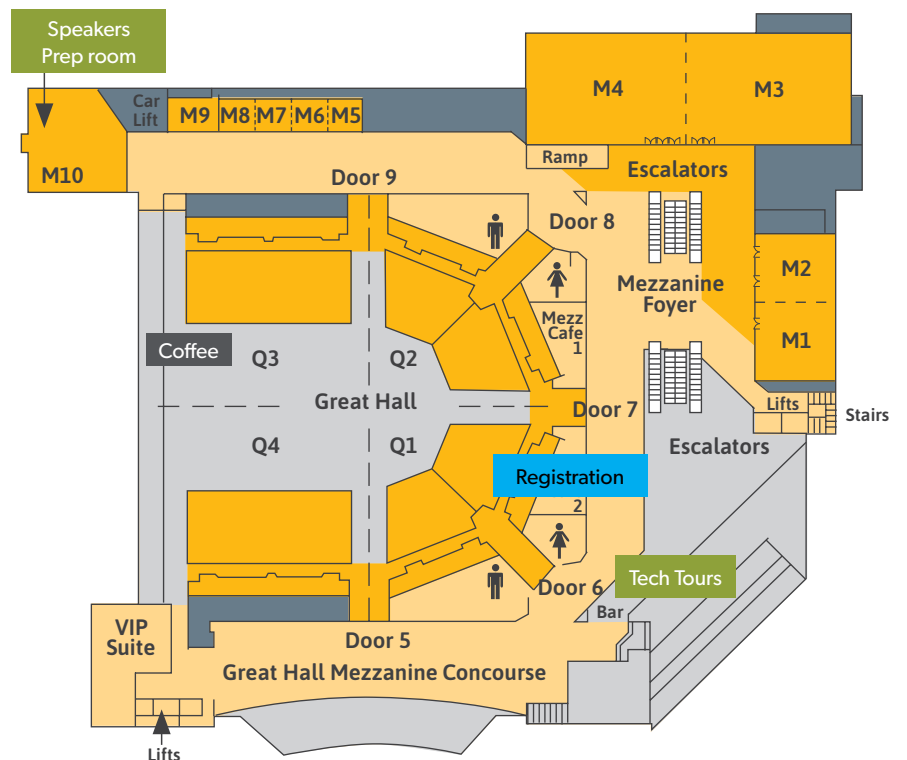


## Conference Venue

Brisbane Convention & Exhibition Centre International Convention Centre  
 Glenelg Street, South Brisbane 4101  
<https://www.bcec.com.au/>

The Brisbane Convention & Exhibition Centre sits at the heart of Brisbane’s bustling cultural and entertainment precinct – South Bank. This iconic area is home to art galleries, museums and the city’s popular performing arts centre. Please see the venue site plan below and note room allocations:

- Tech Tours (please follow signs for your tour)
  - Tech Tour 1: Foyer (depart via bus)
  - Tech Tour 2: Foyer (depart on foot)
  - Tech Tour 3: Foyer (depart via bus)
- Speakers prep room: M10
- All Plenary sessions: Great Hall Q4
- Day Two Breakout Rooms: M1 & 2, M3, M4
- Excellence Awards Gala Ceremony/ Dinner: Plaza Ballroom
- AGM Thursday 24 October (IPWEAQ members only): P1 (Plaza Level)
- Registration desk (blue)
- Futures Challenge (Great Hall)
- Exhibitors (Great Hall)
- Catering (Great Hall)
- Coffee cart (grey)



## Registration

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

Tuesday 10 November	(10:30 - 11am for Emerging Professionals Workshop) 12:30pm - 1pm
Wednesday 11 November	6:30am - 8:30am
Thursday 12 November	7:30am - 8:30am

## Dress Code

Conference program, welcome and closing functions: smart casual, no suits or ties.

Gala awards ceremony and dinner: gala or business/cocktail dress - up to you.

## APP

### Conference App:



1. Download the app: [The Event App by EventsAIR](#)
2. Enter event code **IPWEAQ20**
3. Log in using your email address and pin provided by email (and on your Lanyard)

In the app you will be able to review your agenda, search for and contact exhibitors, delegates and speakers, receive conference alerts, vote for the best paper and access the conference handbook.

## Excellence Awards

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. The Excellence Awards gala dinner will be held in the Plaza Ballroom Tuesday 10 November 2020 with pre-drinks from 6pm in the Great Hall.

## 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, Wagners and Department of Transport and Main Roads), Enterprise Partners, exhibitors and sponsors for their ongoing support and contribution to our successes. Please see page 18 for a full list of our sponsors.

## Exhibition

We are delighted to announce the #IPWEAQ20 trade exhibition is next door to the plenary space. All catering breaks will be served within the trade display area, as well as the pre-dinner drinks for the Excellence Awards gala.

## AGM

Members are invited to attend the AGM, Wednesday 11 November 3pm in P1 (Plaza Level). Please note this is a MEMBERS ONLY event and you must be a financial member to attend.

## President's Charity

You will have a chance to win a Maroons or Blues jersey signed by SOO legends. Raffle tickets will be on sale when you register and during the SOO Game II event. Tickets are \$5 each or five for \$20. Cash or EFTPOS.

## WiFi

BC&EC has WIFI available. Please visit your WIFI options and select "BCECLINK"

## Dietary Requirements

If you have informed us of any special dietary requirements (vegetarian, vegan, coeliac etc), this information has been provided to the BC&ECs 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

Please vote after each presentation you attend so that we can 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 17.



### Conference Contacts

Monica Robertson	0481 266 355
Tammi Petre	0458 573 577
Johanna Vanling	0400 622 118
Leigh Cunningham	0449 987 238
Craig Moss	0431 745 277

We look forward to welcoming you to the 2020 IPWEAQ Annual Conference!

### Social Media

We encourage exhibitors and delegates to tag us when posting on social media:

LinkedIn	@IPWEA Queensland
Facebook	@IPWEAQ
Twitter	@IPWEAQ
Instagram	@ipweaq

### Parking

Parking is available at BC&EC for \$35 per day.

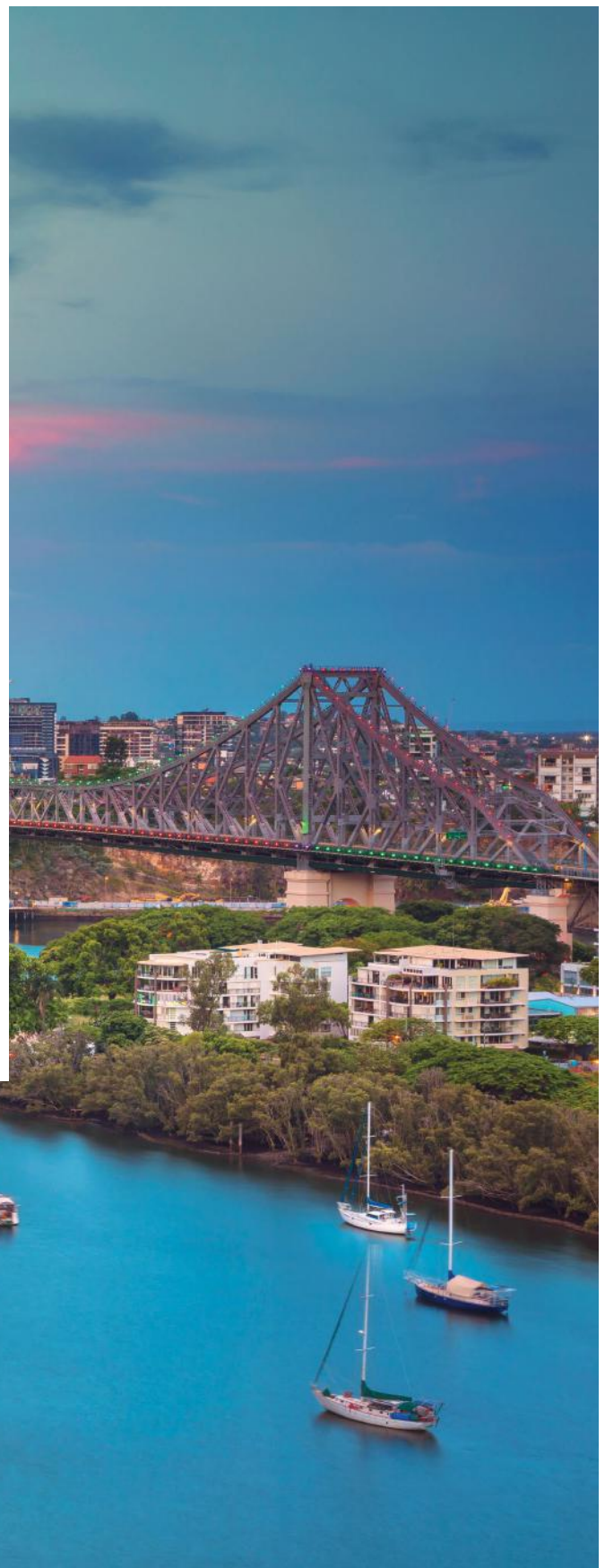
### Bike Club

Join our Bike Club! #TeamIPWEAQ was formed in March 2019 with the inaugural bike ride/Technical Tour of the multi award-winning Brisbane Valley Rail Trail. We invite you, your colleagues, partners, family and friends to join TEAM IPWEAQ.

To learn more, or to join, please visit the IPWEAQ booth.

### Business Card Draws

Business Card prizes will be drawn Thursday afternoon. Be sure to enter at all participating exhibitor booths.



# Technical Tours

<b>Date:</b>	Tuesday 10 November 2020
<b>Registration:</b>	12:30pm - 1pm
<b>Depart:</b>	1:30pm
<b>Return to Venue:</b>	4:30pm



## Tech Tour 1: Cross River Rail & Queens Wharf

Visit the Queens Wharf Brisbane visitor centre overlooking the site in Brisbane’s CBD. Inside the visitor centre, delegates will view an impressive model, VR, drawings and videos. The tour will also visit the Cross River Rail Experience Centre, a community engagement and education hub developed in partnership with Queensland Museum. This centre provides detailed project information, digital engagement experiences and learning opportunities for delegates. Both will include an on-site presentation.



## Tech Tour 2: Historic Brisbane (Walking Tour)

Looping from City Hall to the banks of the Brisbane River and back, this guided walk explores many facets of Brisbane’s history. On your way to the river, you will stop at the historic Regent Theatre and Tattersall’s Club in the Queen Street Mall, before heading to MacArthur Chambers, used by General Douglas MacArthur as his headquarters during World War II, and on to St Stephen’s Cathedral. You will also visit Brisbane’s heritage-listed City Hall, right in the heart of the city. Discover the secrets of this magnificent building which has been the setting for many cultural, social, and civic events in Brisbane. Known as the “People’s Place”, City Hall was built between 1920 and 1930 at a cost of almost 1 million pounds – at the time, the second largest construction project in Australia’s history, second only to the Sydney Harbour Bridge.

*\*Delegates must wear walking shoes as the tour consists of a total of 3 hours of walking*



## Tech Tour 3: Holcim Pre-Cast Facilities Tour

Holcim is the premier pre-casting facility in the country, and the global leader in building materials and solutions and active in four business segments: Cement, Aggregates, Ready-Mix Concrete and Solutions & Products. The tour will discuss and show three main areas: pipe manufacturing, pre-cast manufacturing, and quality processes and time frames. The tour will also include the construction processes around different products, and discuss the “no crack” policy.

*\*Delegates must wear steel cap boots and long clothing (long pants and long shirt). Hard hats and high vis will be provided on-site but you are welcome to bring your own.*



# Program Features



## Peter Greste

Professor Peter Greste is an Australian-born journalist, author, media freedom activist and academic. He is a founding member of the advocacy group, the Alliance for Journalists Freedom, and the UNESCO Chair in Journalism and Communication at the University of Queensland. He is also a regular contributor to the Australian Broadcasting Corporation, The Australian, The Sydney Morning Herald, The Conversation, and The Guardian. Before joining the university in January 2018, he spent 25 years as a foreign correspondent, starting with the civil war in Yugoslavia and elections in South Africa as a freelance reporter in the early 90's, before joining the BBC as its Afghanistan correspondent in 1995.

In 2011 he won a Peabody Award for a BBC documentary on Somalia before joining Al Jazeera as its East Africa correspondent later that year. In December 2013 he was covering Egypt on a short three-week assignment when he was arrested on terrorism charges. After a trial widely dismissed as a sham, he was convicted and sentenced to seven years in prison. In February the following year, after 400 days behind bars, and intense international campaign, he was deported under a presidential decree.



## Michael Kasprovicz

Michael Kasprovicz has uniquely established himself as a leading business professional specialising in the business of sport. Following his 19 year career as a professional cricketer, Michael completed his MBA at the University of Queensland and developed Venture India, a consulting company specialising in business with India. He is also on the DFAT appointed Board of the Australia India Council. Michael is the youngest Director on the independent, skill-based Board of Cricket Australia and has been active in the governance of the national body for the last 6 years. In 2016, Michael served as the interim Chief Executive Officer of Queensland Cricket before returning to the Cricket Australia Board.

Michael has also successfully completed a residential Australian Institute of Company Directors course and recently worked with a number of well known advisory firms in developing their sport advisory practices. Michael combines his experiences as an athlete, director and administrator of one of Australia's largest sports to bring a truly unique perspective to the challenges both sporting and non-sporting organisations.



# Program Features



## Noel Whittaker

International bestselling author, finance and investment expert, radio broadcaster, newspaper columnist and public speaker, Noel Whittaker is one of the world’s foremost authorities on personal finance. Noel reaches over four million readers each week through his columns in major Australian newspapers all over in Australia, is a regular contributor to magazines and websites, and appears on radio and television. He is one of Australia’s most successful authors, with 23 bestselling books achieving worldwide sales of more than two million copies. His book, Making Money Made Simple, set Australian sales records and was named in the 100 Most Influential Books of the Twentieth Century.

For 30 years, Noel was a Director of Whittaker Macnaught, one of Australia’s leading financial advisory companies, with more than two billion dollars under management. He relinquished all interests in that business in 2007. In 2011 he was made a Member of the Order of Australia for service to the community in raising awareness of personal finance. In 2016 he accepted a position as independent director of VGI Global Ltd which listed on the Australian Stock Exchange on 28 September 2017. He is also an executive producer of the film Think and Grow Rich – the Legacy. Which premiered in Los Angeles in 2016. He is a Chartered Tax Adviser, a member of the Australian Securities and Investment Commission Regional Liaison committee, and is an Executive in Residence and Adjunct Professor with the Faculty of Business at the Queensland University of Technology.



## Bill McDonald - Conference MC

With more than 32 years in the media, Bill is one of Australia’s most experienced and recognised cross platform news and sport journalists, commentators and presenters, primarily in television and radio. With the media landscape ever changing, in 2018 he stepped away from the nightly news desk to work more on his own multi-media consultancy.

He also entered the fast paced property industry as a licensed agent and auctioneer. Bill’s an experienced hand at moderating and hosting conferences, providing social media content, conducting media coaching sessions, hosting radio shows on ABC, anchoring online property series, generating PR and media opportunities as well as consulting on the sale and purchase of property.

## Remembrance Day Commemoration

We are delighted to be able to commemorate Remembrance Day with you at #IPWEAQ20. Winner of the SWQ Branch Conference Best Paper award, John Tannock, EJ Tannock and Associates, will deliver his award-winning presentation on the Installation of the Oivi/Gorari Battle Monument at #IPWEAQ20.

Please join us in the main plenary room at 11am for the Remembrance Day commemoration.





# Program Features

## Wednesday 11 November IPWEAQ Futures Challenge

Three students 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 main plenary, and delegates are asked to vote on the best presentation. The winner will be announced at conference close.

Participants entrants:



### Craig Van Neuren, USQ

Craig grew up in Melbourne, however, has had an 18+ year career as an architectural, structural, hydraulic and civil draftsman within the Built Environment space in Brisbane, the BENG(Civil)(Honours) at USQ seemed a natural progression to his professional career. Craig has recently been awarded through the Recognition of Prior Learning program at TAFE Qld. the Diploma of Building Design and has applied for his QBCC Building Design licence, Craig is looking forward to finishing his studies this year and having more time for his family.



### Martin Luna Juncal, Griffith University

Martin is a fifth year Civil Engineering and Science student, with aspirations to tie industry and academia together through innovative and creative research projects. Furthermore, with over a year and a half of experience as an undergraduate Research Assistant, he has had the opportunity to investigate the applications of engineering in real-world circumstances, further enhancing his knowledge of the discipline. Coupling this with a community-centred approach to engineering research, Martin has continually strived to improve his personal and professional development through his studies and extracurricular activities.



### Sally Williams, USQ

Sally Williams is a fourth year Civil Engineering Student studying at University of Southern Queensland. Her final year dissertation studies the influence of water to grout ratio and curing time on the pulling out load of rock bolt systems. She is currently participating in an internship at the department of Transport and Main Roads with the Structures Asset Management team. She has also worked at Toowoomba Regional Council for three years as an intern engineer, gaining experience in construction, water and waste management and asset management. Previous to her engineering career Sally ran her own business as a visual artist and obtained a Bachelor in Fine Arts with honours at Queensland University of Technology. Her career change is reflective of her ability to adapt, learn, think outside the box and accomplish goals beyond expectations. Sally tributes these qualities to her parents and her rural upbringing in central northern New South Wales. She has lived in many locations across Australia and Canada but now chooses to live in Brisbane Australia.

## Thursday 12 November

### The Great Debate - 'Engineers are introverts and are disconnected from the world around them'

#### Team for the Affirmative:

- Josh Flanders  
*Project Engineer, St George Project Services*
- Moira Zeilinga  
*Director, Clear Idea*
- Dr Rob Fearon  
*Director, Innovation Partnerships, qldwater*

#### Team for the Negative:

- Seren McKenzie  
*Director Infrastructure Services, Southern Downs Regional Council*
- Trevor Dean  
*Executive Manager Engineering & Technical Services, Fraser Coast Council*
- Maddy Stahlhut  
*Graduate Engineer, GHD*

# Conference Program

## Day One | Tuesday, November 10, 2020

10:30 AM - 11:00 AM	Emerging Professionals registration opens		
11:00 AM - 12:30 PM	Emerging Professionals Workshop Tanya Konigsberger, Dale Carnegie - Sponsored by Dale Carnegie		
12:30 PM - 1:00 PM	Emerging Professionals Lunch	Registrations open and Lunch	
1:00 PM - 4:30 PM	<b>Tech Tour One: Cross River Rail and Queens Wharf</b>	<b>Tech Tour Two: Historic Brisbane (Walking Tour)</b>	<b>Tech Tour Three: Holcim Pre-Cast Facilities Tour</b>
6:00 PM - 10:00 PM	Excellence Awards gala dinner and ceremony <i>Sponsored by Premise</i>		

## Day Two | Wednesday, November 11, 2020

7:00 AM - 8:30 AM	6. Women in Public Works Engineering Masterclass Breakfast Alison Hill, Pragmatic Thinking - Sponsored by Pragmatic Thinking			
7:30 AM - 8:25 AM	Registration opens (day two)			
8:30 AM - 8:50 AM	Introduction and Conference Welcome Councillor Ryan Murphy, Brisbane City Council			
8:50 AM - 9:50 AM	The Prisoner's Dilemma; Peter Greste with the inside story of time behind bars in Egypt, and how it changed his life Peter Greste - Sponsored by Komatsu			
9:50 AM - 10:30 AM	Investing for resilient communities Jimmy Scott, Queensland Reconstruction Authority			
10:30 AM - 11:00 AM	Morning Tea in Exhibition Area			
11:00 AM - 11:05 AM	Remembrance Day commemoration			
11:05 AM - 11:40 AM	Installation of the Oivi/Gorari Battle Monument John Tannock, EJ Tannock and associates			
11:40 AM - 12:10 PM	IPWEAQ Futures Challenge <i>Sponsored by Huesker Australia</i>			
12:10 PM - 1:10 PM	Lunch in Exhibition Area			
1:05 PM - 2:50 PM	<b>Stream 1: Sustainability in Pavements</b>  <b>Room: Plenary</b>	<b>Stream 2: Intelligent Asset Management</b>  <b>Room: Mezzanine M1&amp;2</b>	<b>Stream 3: Project Delivery</b>  <b>Room: Mezzanine M3</b>	<b>Stream 4: Stormwater Management</b>  <b>Room: Mezzanine M4</b>
Stream group 1-4: Wednesday 11 November 2020				



**Day Two | Wednesday, November 11, 2020**

1:10 PM - 1:35 PM	<p>Enhanced subbase stabilisation options - Triple blend selection, design and application</p> <p><b>Damian Volker</b> Department of Transport and Main Roads</p>	<p>Drones, AI and the Future of Asset Data, from Zero(s) to Hero</p> <p><b>Shelley Burchett</b> Proterra Group</p>	<p>One more hat for the Superintendent to wear: Local Government Superintendents and the position with respect to QBCC licensing</p> <p><b>Matt Bradbury and Joseph Jones</b> McCullough Robertson</p>	<p>No worsening is not a thing</p> <p><b>Tony Loveday</b> RMA Engineers</p>
1:35 PM - 2:00 PM	<p>Recycled Materials in Qld Roads</p> <p><b>Stephen Hulme</b> Department of Transport and Main Roads</p>	<p>The Big AI - Have you been Faking It</p> <p><b>Stephen Hegedus</b> Shepherd</p>	<p>Managing the impact of large resource projects on remote local government transport infrastructure</p> <p><b>Sean Robinson</b> Isaac Regional Council</p>	<p>Flood Mitigation and Feasibility: Lessons Learned Across South-East Australia</p> <p><b>Monika Balicki</b> Water Modeling Solutions</p>
2:00 PM - 2:25 PM	<p>Enhancing Sustainability and Durability in Pavement Construction/ Maintenance Using Asphalt Reinforcement Geogrid made from 100% Recycled PET: Practical Experience in Roads &amp; Airfields</p> <p><b>Zehra Kaya</b> Huesker Australia</p>	<p>Application of Advanced Algorithms to GPR data for rapid generation of detailed 3D Utility Models</p> <p><b>Bradley Keane,</b> C.R.Kennedy</p>	<p>No time to waste! Critical project delivery at Goondiwindi Regional Council</p> <p><b>Michael Shellshear</b> Proterra Group</p>	<p>Where there's a will (and water) there's a way</p> <p><b>Eoghain O'Hanlon</b> Cardno</p>
2:25 PM - 2:50 PM	<p>More sustainable polymer modified binders - meeting existing specifications</p> <p><b>Sharon Adam</b> Puma Energy</p>	<p>From Data to Information to Decision-Making</p> <p><b>Chris Campbell</b> Central Highlands Regional Council</p>	<p>Yeppoon Sewage Treatment Plant Augmentation Project</p> <p><b>Jessica O'Hare</b> Downer Group</p> <p><b>Eamonn Flynn</b> Downer Group</p>	<p>Drainage and Basin Failure Impact Modelling for Collinson-Mckinnon Catchment - Edmonton, Cairns.</p> <p><b>Mitchell Redenbach</b> Water Modelling Solutions</p>
2:50 PM - 3:20 PM	Afternoon Tea in Exhibition Area			

**Day Two | Wednesday, November 11, 2020**

3:15 PM - 5:00 PM

**Stream 5:  
Planning and Design**  
  
**Room:  
Plenary**

**Stream 6:  
Innovation in  
Structures**  
  
**Room:  
Mezzanine M1&2**

**Stream 7:  
Effective Solutions**  
  
**Room:  
Mezzanine M3**

**Stream 8:  
Sustainability in  
Practice**  
  
**Room:  
Mezzanine M4**

Stream group 5-8: Wednesday 11 November 2020

3:20 PM - 3:45 PM

Sunshine Coast Design Strategy and the importance of design in shaping the future of our towns, regions and cities  
  
**Chris Hodgson**  
*Sunshine Coast Council*

Managing Structures Assets – lessons from Dreamworld  
  
**Dr Neal Lake**  
*IPWEAQ*

Supplying over 5000 people with water when the dam runs dry - the Stanthorpe water supply story  
  
**Seren McKenzie**  
*Southern Downs Regional Council*

Engineering and Community Resilience through Sustainability  
  
**Dr Kim Polistina**  
*Eternal World*

3:45 PM - 4:10 PM

Sustainable transport – Modern design solutions, achieving safe system outcomes at intersections  
  
**Paul Cummins**  
*Department of Transport and Main Roads*

Cobbold Gorge Glass Bridge  
  
**Paul Steele**  
*Trinity Engineering*

Flood Reconstruction Works – Recover, MARS, Konect, Spreadsheets or all of the above? Untangling the software mess under the DFRA.  
  
**Eben Geldenhuis**  
*Proterra Group*

Places of Refuge - Building Resilience  
  
**Simon Martin**  
*Peak Services*

4:10 PM - 4:35 PM

Exploring driver behaviour to shape better road-user experiences  
  
**David Rankin**  
*WSP*

NSW Bushfire recovery - Rebuilding two destroyed bridges for Shoalhaven Council, using local contractors InQuik time  
  
**Logan Mullaney**  
*InQuik*

Transforming business operations: Implementing an efficient mobile solution at Mackay Regional Council  
  
**Scott Cramer**  
*Mackay Regional Council*  
**James Esson, Assetic**

Using Smart City Technology to Create a Smart Lake  
  
**Willem Rockett and Darryl Hayter**  
*Empower Engineers and Project Managers*  
  
**Justin Cronin,**  
*Moreton Bay Regional Council*

4:35 PM - 5:00 PM

Deriving better value out of our roads and bridges with ARRB's Best Practice Guides  
  
**Matthew Bereni**  
*ARRB*

Challenging the Status Quo - An innovative approach to the structural rehabilitation of an existing box culvert  
  
**Steven Latimer**  
*Interflow*  
  
**Tara Manning**  
*Brisbane City Council*

Gladstone Regional Council Gets Mobile with Online Works Program  
  
**Darren Shepherd**  
*Shepherd*  
  
**Carmen Smith**  
*Gladstone Regional Council*

Landfill Hidden Cost  
  
**Pat Pathmanathan**  
*Peak Service*

7:00 PM - 10:00 PM

State of Origin Dinner



**Day Three | Thursday, November 12, 2020**

8:30 AM - 9:00 AM	Become the fashionable bowler for unfashionable tours Michael Kasprowicz
9:00 AM - 9:45 AM	Creating wealth and saving tax in uncertain times Noel Whittaker
9:45 AM - 10:15 AM	Managing cyber security risks David Toma, Queensland Audit Office
10:15 AM - 10:45 AM	Morning Tea in Exhibition Area (day two) Sponsored by PVE Civil Solutions
10:45 AM - 11:15 AM	TMR Update Neil Scales, Transport and Main Roads
11:15 AM - 11:45 AM	Setting the standard of engineering: a national scheme for the registration of engineers Dawson Wilkie, BPEQ Chair
11:45 AM - 12:30 PM	Panel Discussion: The role of Public Works Professionals in Community Road Safety Gregory Miszkowycz, RACQ   Andrew Demack, Bicycle Qld   Seren McKenzie, Southern Downs Regional Council   Siva Jeevaratnam, Department of Transport and Main Roads
12:30 PM - 1:30 PM	Lunch in Exhibition Area (day two)
1:30 PM - 2:00 PM	New Parallel Runway Project Paul Coughlan, Brisbane Airport Corporation
2:00 PM - 2:30 PM	"Business as Unusual" - The challenges of changing our business for COVID-19 Alton Twine, City of Gold Coast
2:30 PM - 3:00 PM	Life on the inside Cr Bob Fredman, Gympie Regional Council
3:00 PM - 3:30 PM	Closing Ceremony Drinks & Canapes with Exhibitors in plenary space
3:30 PM - 4:15 PM	The Great Debate: Engineers are introverts and disconnected from the world around them
4:15 PM - 4:30 PM	IPWEAQ President's Address

# Social Program

## GALA CEREMONY AND DINNER

**Venue**  
Brisbane Convention & Exhibition Centre, Plaza Ballroom

**Date**  
Tuesday 10 November

**Time**  
6-7pm  
Pre-dinner drinks

7-10:30pm  
Dinner and Awards ceremony

3 course meal and drinks

**Dress**  
Business/Cocktail

**Sponsor**  
Premise



## STATE OF ORIGIN GAME II DINNER

**Venue**  
Brisbane Convention & Exhibition Centre, Plaza Ballroom

**Date**  
Wednesday 11 November

**Time**  
6-10pm  
Dinner and game

Dinner: footy fare!

**Dress**  
Casual - don your team's colours!

## FINAL SESSION

**Venue**  
Brisbane Convention & Exhibition Centre, Great Hall

**Date**  
Thursday 12 November

**Time**  
3pm - 3:30pm  
Canapes and drinks

**Dress**  
Conference casual





# Geoff Wilmoth Best Paper Award



## 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.

Wilmoth 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

### Clarissa Campbell

Moreton Bay Regional Council

*Stormwater pipe condition assessment – if only animals could talk*

## 2020 winner

The winner of the Geoff Wilmoth Best Paper 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 IPWEAQ NZ conference in 2021. The winner will also have an opportunity to deliver their presentation at that event.

# Our Sponsors

## PLATINUM



## GOLD

PLENARY STREAM



EXCELLENCE AWARDS GALA DINNER



Premise

## SILVER

COFFEE CART



## BRONZE

KEYNOTE PRESENTATION 1



EMERGING PROFESSIONALS WORKSHOP



WOMEN IN PUBLIC WORKS ENGINEERING MASTERCLASS



MORNING TEA



LANYARDS



FUTURES CHALLENGE



## EXCELLENCE AWARDS

INNOVATION



ENGINEER OF THE YEAR



YOUNG ENGINEER OF THE YEAR



WOMAN IN ENGINEERING



ENVIRONMENT AND SUSTAINABILITY



ASSET MANAGEMENT



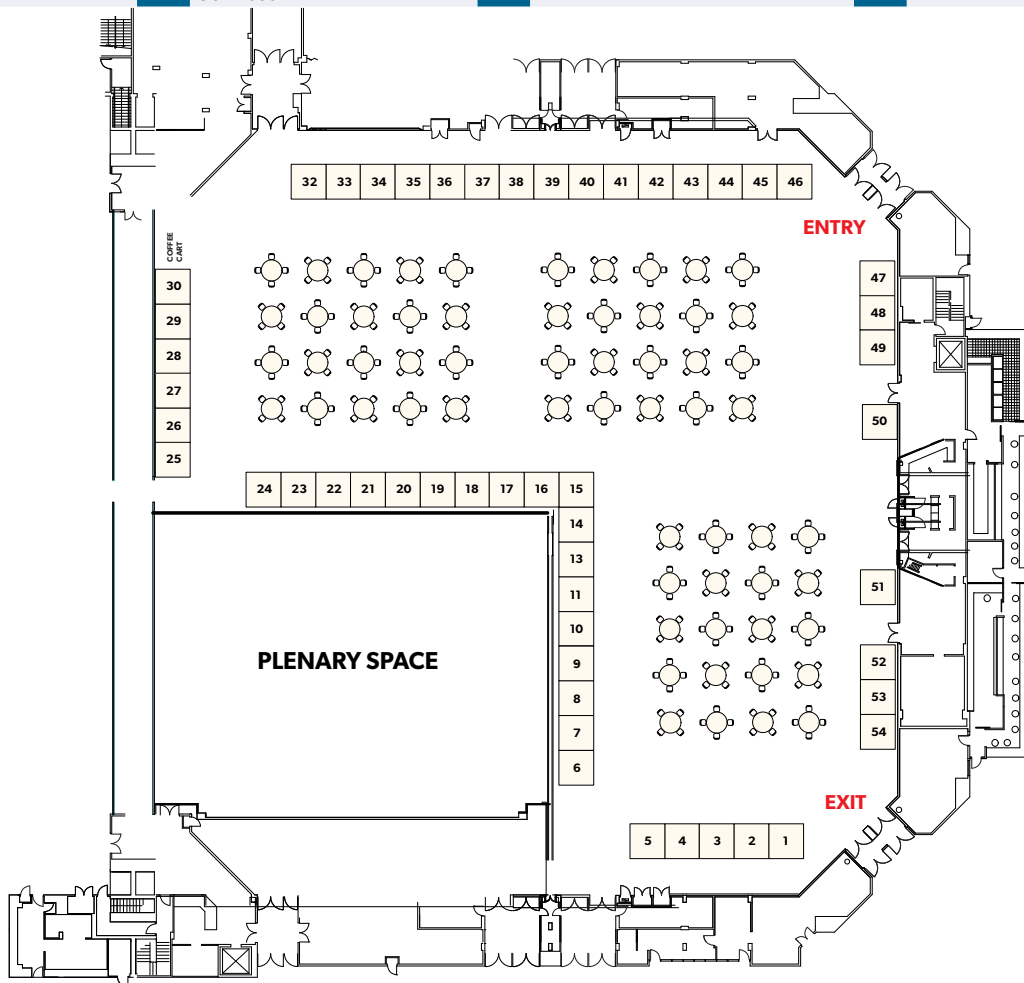
PROJECTS OVER \$10MILLION





# Our Exhibitors

1	Shepherd Services Pty Ltd	15	Wagners CFT Manufacturing Pty Ltd	28	Puma Energy Australia Bitumen	42	LO-GO Appointments
2	IPWEAQ Futures Challenge	16	Boral	29	Fulton Hogan Industries Pty Ltd	43	IPWEAQ
3		17	EJ Australia Pty Ltd	30	McArthur	44	Proterra Group Pty Ltd
4		18	Board of Professional Engineers of Queensland	32	McCullough Robertson Lawyers	45	Komatsu Australia Pty Ltd
5	Australian Concrete Mats	19	Dale Carnegie	33	LGIAsuper	46	Holcim/Humes Australia
6	Interflow	20	McBerns Innovative Solutions	34	CARDNO Ltd	47	Assetic
7	SuperSealing	21	Eroad Australia Pty Ltd	35	InQuik Pty Ltd	48	Saferoads
8	Teletrac Navman	22	Hastings Deering (Australia) Ltd	36	Joe Wagner Group	49	Dial Before You Dig
9	Rural Aid	23	Lion Systems	37	Leading Roles	50	Stabilised Pavements of Australia
10	myP3	24	Global Synthetics Pty Ltd	38	COLAS Australia Group Pty Ltd	51	Water Modelling Solutions
11	Moreton Hire	25	Pavement Management Services	39	SEALS Brisbane Pty Ltd	52	Local Buy
13	C.R Kennedy	26		40	PelicanCorp	53	Huesker Australia
14	Orion Solar	27		41		54	



# Councils and Organisations

We are pleased to welcome delegates from the following council's and organisations to #IPWEAQ20:

## Councils:

- Banana Shire Council
- Brisbane City Council
- Bundaberg Regional Council
- Burdekin Shire Council
- Central Highlands Regional Council
- Charters Towers Regional Council
- City Of Gold Coast
- City of Ipswich
- Douglas Shire Council
- Flinders Shire Council
- Fraser Coast Regional Council
- Gladstone Regional Council
- Goondiwindi Regional Council
- Gympie Regional Council
- Isaac Regional Council
- Livingstone Shire Council
- Logan City Council
- Mareeba Shire Council
- Moreton Bay Regional Council
- Noosa Council
- Redland City Council
- Rockhampton Regional Council
- Somerset Regional Council
- South Burnett Regional Council
- Southern Downs Regional Council
- Sunshine Coast Council
- Toowoomba Regional Council
- Western Downs Regional Council
- Whitsunday Regional Council
- Winton Shire Council

## Organisations:

- 12d Solutions
- Airbus Australia
- All.PM
- Allens Asphalt
- Assetic Australia Pty Ltd
- ATC Engineers & Project Managers
- Australian Concrete Mats
- Bellwether
- Bicycle Queensland
- Board of Professional Engineers of Queensland
- Boral

- Brad Finegan and Associates Pty Ltd
- Brandon & Associates
- Brisbane Airport Corporation
- C.R. Kennedy
- CARDNO Ltd
- Clear Idea
- Colas Australia Group Pty Ltd
- Construction Project Management Pty Ltd
- CPM Group
- Dale Carnegie Training
- Department of Transport and Main Roads
- Dial Before You Dig
- Downer Group
- EJ Australia
- Empower Engineers & Project Managers
- Eroad Australia Pty Ltd
- Eternal World
- Far North Queensland Regional Organisation of Councils
- Fulton Hogan Industries Pty Ltd
- GenEng Solutions Pty Ltd
- George Bourne & Associates
- GHD Pty Ltd
- Global Synthetics Pty Ltd
- Griffith University
- Grummitt Consulting Pty Ltd
- GWR Civil Engineering Management
- Harrison Infrastructure Group
- Hastings Deering (Australia) Ltd
- Holcim Australia Pty Ltd
- Huesker Australia Pty Ltd
- InQuik Pty Ltd
- Interflow Pty Limited
- IPWEAQ
- JFP Urban Consultants Pty Ltd
- Joe Wagner Group
- Komatsu Australia Pty Ltd
- Leading Roles
- LGIA Super
- Lion Systems
- Local Buy
- LO-GO Appointments
- McArthur
- McBerns Innovative Solutions
- McCullough Robertson Lawyers
- Moreton Hire
- myP3
- Orion Solar
- Pavement Management Services
- Peak Services
- PelicanCorp
- Pragmatic Thinking
- Premise
- Projex Partners Pty Ltd
- Protterra Group Pty Ltd
- Puma Bitumen
- Puma Energy
- PVE Civil Solutions
- Queensland Reconstruction Authority
- Queensland Water Directorate
- RACQ
- RCPA (Holdings) Pty Ltd
- Redfrost Pty Ltd
- RMA Engineers
- Road Information Technologies
- Rudtek
- Rural Aid
- Saferoads
- Seals Brisbane Pty Ltd
- SHEPHERD
- Solutions in Transport
- St George Project Services
- Stabilised Pavements of Australia
- Sunwater
- SuperSealing
- Swart & Associates Quantity Surveyors
- Teletrac Navman
- Tonkin Consulting Pty Ltd
- Trinity Engineering and Consulting
- University of Queensland
- University of Southern Queensland
- University of the Sunshine Coast
- Wagners CFT Manufacturing Pty Ltd
- Water Modelling Solutions
- Wave International
- Williams Infrastructure Consulting
- WR & CA Paulger
- WSP Australia



# Excellence Awards

## People Categories

Join us at the 2020 Excellence Awards as we celebrate the people who deliver the projects that make Queensland great.

**Tuesday 10 November 2020**  
**Brisbane Convention & Exhibition Centre**

Pre-dinner drinks **6pm**

Dinner and awards ceremony **7pm to 1030pm**

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)
- President's Award - chosen by the President for outstanding contributions to the Institute



2019 Engineer of the Year  
**Marie Gales**  
Brisbane City Council



2019 Woman in Engineering  
**Kym Murphy**  
Department of Transport and Main Roads



2019 Young Engineer  
**Michael Shellshear**  
Proterra Group



2019 President's Award  
**Trevor Harvey**



2019 Team Member of the Year  
**Tracy Greig**  
Trinity Engineering and Consulting

# Project Nominations

## Asset Management

<b>Bridging the Gap Between Engineering and Accounting</b>	Mareeba Shire Council
<b>Investing in Infrastructure using Innovation</b>	City of Gold Coast
<b>Footpath / Shared Path Functionality Assessment (copy)</b>	Logan City Council
<b>Asset Infrastructure Plan - Smarter, Faster &amp; Better Planning Tool</b>	Townsville City Council
<b>Brisbane City Council's proactive approach incorporating environmental sustainability and circular economy opportunities in road asset management</b>	Brisbane City Council
<b>Depot Asset Management Program</b>	Brisbane City Council
<b>Transition to LED Lighting technology</b>	Brisbane City Council
<b>Structure asset data and reporting</b>	Brisbane City Council
<b>Park Data Management Improvement</b>	Brisbane City Council

## Coastal Engineering

<b>Palm Beach Shoreline Project</b>	City of Gold Coast
<b>Kurrawa Seawall project</b>	City of Gold Coast

## Environment & Sustainability

<b>Isaac Regional Council Water &amp; Waste Directorate IMS</b>	Isaac Regional Council
<b>RAPADWSA Sewerage Treatment Plant Regulatory Investigation Project</b>	RAPAD Water & Sewerage Alliance
<b>KP McGrath Drive – Recycled Road</b>	City of Gold Coast
<b>Ipswich Motorway Upgrade: Rocklea to Darra - Stage 1 Project</b>	Department of Transport and Main Roads with Brisbane City Council embedded resource

## Innovation

<b>Emerald Airport Runway – Rehabilitation and Overlay Project</b>	Central Highlands Regional Council
<b>Water Industry Worker Regional Pilot Program</b>	Mackay Regional Council
<b>Mackay Airport - Rhinophalt - Penetrative Asphalt Preservative. A Queensland 1st!</b>	Mackay Airport & Downer
<b>Footpath / Shared Path Functionality Assessment</b>	Logan City Council
<b>Unsealed Road Network Resilience &amp; Liveability Project</b>	Western Downs Regional Council
<b>The Monitoring of Public Lighting Levels at Logan City Council.</b>	Logan City Council

# Project Nominations

<b>Elizabeth Street Drainage Rehabilitation, Woodend, Ipswich</b>	City of Ipswich/Interflow Pty Limited
<b>Asset Infrastructure Plan - Innovative Infrastructure Planning Tool</b>	Townsville City Council
<b>Givelda &amp; Electra Flood Evacuation Route &amp; Wayfinding (Burnett River)</b>	Bundaberg Regional Council & State of Queensland acting through Department of Local Government, Racing and Multicultural Affairs
<b>Brisbane Smart Poles</b>	Brisbane City Council
<b>Artificial Intelligence - Roads &amp; Footpaths</b>	Moreton Bay Regional Council

## Innovation & Sustainability in Water

<b>Cedar Grove Environmental Centre: 'On the nose' project to community showpiece</b>	Logan Water
<b>Greening &amp; Growing Bowen</b>	Whitsunday Regional Council
<b>RAPADWSA Telemetry and SCADA Project (Concept Stage)</b>	RAPAD Water and Sewerage Alliance
<b>Local Government Infrastructure Plan - Water Quality</b>	City of Gold Coast
<b>Shared Superintendency - Mirani Water Recycling Facility/Bowen Sewage Treatment Plant - Delivering Optimum Efficiencies</b>	Mackay Regional Council -Water Services/ Whitsunday Regional Council -Water Services
<b>Smart Irrigation Water Management System</b>	Sunshine Coast Council
<b>Supplying water to over 5000 people when the dam runs dry - the Stanthorpe water supply story</b>	Southern Downs Regional Council
<b>Luggage Point STP FST Distribution Channels Settlement Mitigation Project</b>	Urban Utilities & Fulton Hogan

## Projects Under 1 million

<b>Riverstage 2022 Masterplan</b>	Aurecon
<b>Noosa Botanic Shade Garden Canopy</b>	Noosa Council
<b>Learn to Ride Pathway in Australiana Park, Warwick</b>	Southern Downs Regional Council
<b>Peregian Beach Amenities Block</b>	Noosa Council
<b>Nogoa River Trail</b>	Central Highland Regional Council
<b>Bunya Mountains Lookout</b>	Western Downs Regional Council
<b>Danbulla road culvert relining</b>	Tablelands Regional Council
<b>Logan Street Pavement Rehabilitation Project</b>	Logan City Council, National Asset Centre of Excellence (NACOE), Queensland University of Technology



# Project Nominations

## Projects 1 million to 2 million

<b>Coplick Footbridge Replacement</b>	City of Gold Coast
<b>Beerwah Aquatic Centre Upgrade</b>	Sunshine Coast Council, Liquid Blu, Murphy Builders
<b>Mornington Island Places of Refuge</b>	Mornington Shire Council / Peak Services
<b>Emu Creek Hall Road Bridge - Emu Creek</b>	Toowoomba Regional Council

## Projects 2 million to 5 million

<b>Beautiful Bowen Townscape Improvement Project</b>	Whitsunday Regional Council
<b>Innisfail Intersections Safety Improvement Upgrade</b>	Queensland Department of Transport and Main Roads (TMR) - RoadTek Branch and Cassowary Coast Regional Council
<b>Kirra Boardwalk Renewal</b>	City of Gold Coast
<b>Supplying water to over 5000 people when the dam runs dry - the Stanthorpe water supply story</b>	Southern Downs Regional Council
<b>Jondaryan St Ruth Road Reconstruction</b>	Toowoomba Regional Council

## Projects 5 million to 10 million

<b>CHINCHILLA PARKLANDS</b>	Western Downs Regional Council
<b>Luggage Point STP Air Treatment Facility and Inlet Works Coating</b>	Urban Utilities & Fulton Hogan
<b>Empire Theatre Refurbishment Stage 1 and 2</b>	Toowoomba Regional Council
<b>Luggage Point STP FST Distribution Channels Settlement Mitigation Project</b>	Urban Utilities & Fulton Hogan

## Projects over 10 million

<b>Gold Coast Cultural Precinct Green Bridge</b>	The City of Gold Coast
<b>Capestone Lake</b>	Moreton Bay Regional Council
<b>Water Infrastructure Upgrade Project</b>	Charters Towers Regional Council
<b>Shared Superintendency – Mirani Water Recycling Facility/Bowen Sewage Treatment Plant - Delivering Optimum Efficiencies</b>	Mackay Regional Council
<b>Springfield Central Sports Complex</b>	Ipswich City Council / Cardno / Lendlease
<b>Sunshine Coast Airport Expansion Project</b>	Sunshine Coast Council
<b>Brisbane Bulimba Creek Trunk Sewer Stage 2 Upgrade</b>	Urban Utilities   Abergeldie   Obayashi
<b>The Toowoomba Railway Goods Shed</b>	Toowoomba Regional Council
<b>Emerald Airport Runway – Rehabilitation and Overlay Project</b>	Central Highlands Regional Council

**Road Safety**

Pearsons Road upgrade project	City of Gold Coast
Auburn Road Upgrade	Western Downs Regional Council
Learn to Ride Pathway in Australiana Park, Warwick	Southern Downs Regional Council

**Engineer of the Year**

- Andrew Breckenridge
- Garth Kath
- Tiffany Parker
- Paraic Butler
- Andrew Pine
- Wesley Davis
- Ged Brennan

**Team Member of the Year**

- Alyson O'Rourke
- Tony Hoare
- Lenny Wright
- Cameron Davidson

**Woman in Engineering**

- Johllin Lammersdorf
- Robyn Letts
- Tiffany Parker
- Michelle Stevenson

**Young Engineer of the Year**

- Matthew Brennan
- Phillip Karfs
- Reece Sainsbury
- Brianna Barnett

See all our nominees in the 2020 Excellence Awards Commemorative Book!

# 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



**Craig Murrell**  
President



**Angela Fry**  
Vice President



**Sarah Hausler**  
Board Member



**Trevor Dean**  
Board Member



**Celisa Faulkner**  
CQ Branch President



**Glenda Kirk**  
NQ Branch President



**Raad Jarjees**  
SEQ Branch President



**Andrew Johnson**  
SWQ Branch President

## 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 and sewerage 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. Craig Murrell has chosen Rural Aid Australia







# IPWEAQ Partners

## PRINCIPAL PARTNERS



## ENTERPRISE PARTNERS





# Subscribers

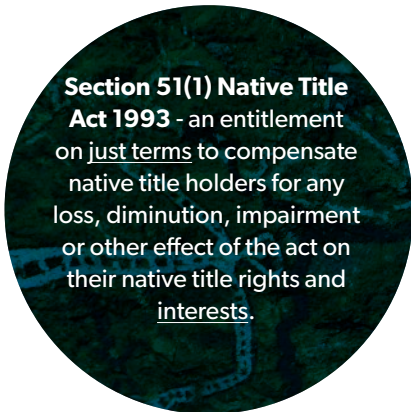




# iMPACT

## NATIVE TITLE & CULTURAL HERITAGE PORTAL AND RECORD KEEPING TOOL

IPWEAQ’s new native title and cultural heritage portals help you comply with the law and avoid acts that will impact on cultural heritage and native title including impairment and extinguishment. The portals establish a methodical, documented, robust process and establish that an appropriate level of thoroughness was applied in determining whether or not to proceed with works.



**Section 51(1) Native Title Act 1993** - an entitlement on just terms to compensate native title holders for any loss, diminution, impairment or other effect of the act on their native title rights and interests.

<b>i</b>	<b>M</b>	<b>P</b>	<b>A</b>	<b>C</b>	<b>T</b>
<b>i</b>	<b>M</b>	<b>P</b>	<b>A</b>	<b>C</b>	<b>T</b>
Integrated	Management	Portal for	Assessment of	Cultural heritage and native	Title

### SUBSCRIPTIONS

Subscriptions now open for the first year of iMPACT!

Annual Subscription	Plus GST
One-off Project Assessment	\$1,000
Councils with less than 25,000 constituents	\$3,000
All other councils, utilities, consultancies and other industry entities eg mining, pastoral.	\$5,000
Access to iMPACT including ongoing capability training to meet your changing needs.	\$10,000

**Public Works Technical Subscription** Apply a 10% discount if your council is a PTWS subscriber.

1. Resource to undertake complex assessments in a logical framework with templates, lists, registers and geo-spatial mapping.
2. Detailed record keeping system which generates a PDF documenting all elements of the assessment including text, maps and photographic evidence which supports the reason for your decision.
3. User friendly portal with a step by step process to ensure infrastructure and other projects comply with legislation which will save you time and money.
4. Interactive site which links to the latest information in government and other databases.



# Professional Development

**Continuing your professional development**

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

**Native Title and Cultural Heritage**

**Urban Planning**

**Construction Law**

**In-House Courses**

**PD packages**

**Construction Practices**

**Asset Management**

**Stormwater Drainage**

**Design Practices**

**Professional Practice**

**Traffic Engineering**

**Contract Management**

**Leadership**

**Finance for Technical Professionals**

Contact Manager, Professional Development ☎ [Kate.O'Riordan@ipweaq.com](mailto:Kate.O'Riordan@ipweaq.com) ☎ 07 3632 6807

# ADAC 5.0



**New - XML validation tool available**  
Web based XML validation tool - XML data from 'as constructed' or design data can be validated to ensure the required works have been completed and captured correctly for each council.

**ADAC is the Civil BIM (Building Information Modelling) for public works infrastructure. It is open source and adopted widely by councils and utilities across Australia.**



**ADAC (Asset Design as Constructed) is an open source data specification and transport format (XML) for the description and transmission of asset design and as constructed data.**

**Why adopt ADAC?**

ADAC enables the easy, reliable and consistent exchange of asset design and as constructed data between asset constructors and asset managers.

ADAC provides for the automation of data entry from any source (once validated via the XML validation tool). This automated process is not a function of asset management software - ADAC is required to achieve this outcome.

ADAC data can be checked for errors, transformed and loaded into asset management systems in an automated and reliable manner and then used to populate asset component registers and Geographical Information Systems (GIS).

**The ADAC framework offers consistent and accurate results saving time and costs.**

**Why is ADAC better than alternatives?**

- ✓ It has a broader scope ie more asset classes.
- ✓ It contains more detail ie more attributes defined at a greater level.

- ✓ It is open source and independent of other platforms so you are not locked into a particular software solution.
- ✓ It is a language for describing assets rather than representing them.
- ✓ It represents the collective wisdom of our community of public works professionals expert in the management of assets.

**What are the benefits of ADAC?**

- ✓ Significant time and resource savings in the electronic processing of as constructed data.
- ✓ Improved consistency and accuracy of detailed asset data.
- ✓ Quality control checks on asset data for completeness and integrity.
- ✓ Beneficial for automated uploading of asset data to GIS, asset management databases and other registers.
- ✓ Transparent asset registration and valuation processes that deliver improved corporate governance.
- ✓ Capacity to reconcile donated assets with planning scheme requirements and infrastructure agreements.
- ✓ Potential to 'round-trip' asset data and related information to external customers in a consistent format.
- ✓ Property developers and consulting engineers experience consistent requirements from councils.

**Benefits of Consortium Membership**

- ✓ XML data from 'as constructed' or design data can be quickly validated to ensure the required works have been completed and captured correctly.
- ✓ Technical support from our ADAC forums and resource centre.
- ✓ Access to the Technical Reference Group. Contribute to the expansion of ADAC.
- ✓ Network of other ADAC users and forums which offer support and value-add to asset data processes.
- ✓ National recognition as an ADAC member.

Size per constituency	Cost*
Councils with < 25,000	\$2,000
Councils with 25,000 to 100,000	\$4,000
Councils with > 100,000	\$7,000
Utility Providers	\$7,000
Other Entities	Contact IPWEAQ

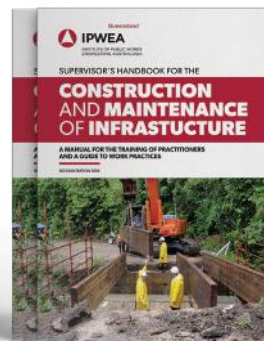
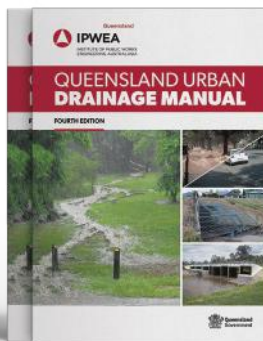
\* plus GST



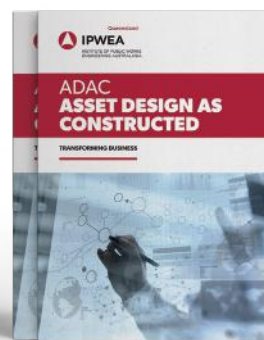
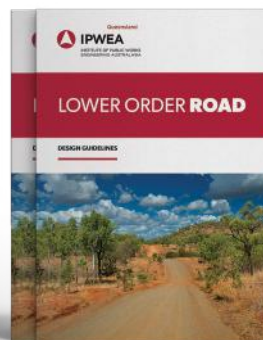
# PUBLIC WORKS TECHNICAL SUBSCRIPTION



- ✓ 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 **(value up to \$700)**
- ✓ Copy of Lower Order Road Design Guidelines, PDF **(value \$400)**
- ✓ Copy of the Supervisor's Handbook PDF **(value \$600)**
- ✓ 10% discount on all Professional Development programs for all staff
- ✓ One complimentary registration to the to the Annual Conference **(value up to \$2,000)**
- ✓ Your mayor, CEO and councillors receive a complimentary registration to the Annual Conference **(value \$2,000 per person)**
- ✓ Opportunity to include announcements and notices including job vacancies in 'Connect' our regular e-news service



**\$4,100  
plus GST**



Contact Relationship Manager 📧 [Johanna.Vanling@ipweaq.com](mailto:Johanna.Vanling@ipweaq.com) ☎ 3632 6803



# Cairns 2021



**We invite you to join us for the 2021 IPWEAQ Annual Conference to be held at the Cairns Convention Centre, 12-14 October 2021.**

The award winning Cairns Convention Centre provides highly flexible and adaptable facilities. Its state-of-the-art advanced audio visual and communications technology caters to the most demanding multimedia conference requirements.

The centre is staffed by a friendly professional team, world renowned for their tropical hospitality. Their menus feature contemporary five star cuisine with the freshest local seafood and tropical produce.

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### **Conference Loyalty Program**

Delegates who attended #IPWEAQ20 are entitled to a 10% discount on their 2021 conference registration.

Delegates who attended #IPWEAQ19 and #IPWEAQ20 are entitled to a 20% discount on their 2021 conference registration.

**Register early with Johanna or Monica.**

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 February 2021. Submit your abstract online together with your bio and photo.**

Conference papers may be selected for publication in the 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 Monica Robertson for more information on the 2021 conference program.

**We look forward to welcoming you to #IPWEAQ21 in Cairns!**



Queensland



# IPWEA

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