



# Water Industry Operators Association of Australia



# VIRTUAL WATER PROGRAM

Last Updated 22 October

**REGISTER NOW** [www.virtualwater.com.au](http://www.virtualwater.com.au)



CLARIFIER N°1

Join WIOA members and experts in our highly interactive, 3-D virtual environment featuring video streamed keynotes technical and general interest presentations with live Q&A and interactive booths within the expo floor.

“ The exhibition booths and their content will not only be available on the live days, they will stay on the Virtual Water platform for 365 days, and the sites will be accessible 24 hours a day, 7 days a week. ”

## About Virtual Water - Conference & Expo

Virtual Water is a highly interactive, 3-D virtual environment featuring video-streamed presentations with live Q&A and interaction with product and service providers on the expo floor.

Virtual Water will be used to engage members and provide our corporate suppliers an opportunity to showcase their products and services through 2020.

Virtual Water is easy to navigate and provides a captivating experience that recreates the feel of a physical event. Attendees only need access to the internet to participate and are not required to download anything or learn how to use new software. Virtual Water is mobile compatible and works on all modern browsers.

Benefits of the Virtual Water conference platform include:

- Reaching audiences from all around the country with no need for travel
- Engaging in real-time using text, audio and video chat
- Enabling speakers to share knowledge and technical experiences
- Reduced carbon footprint compared to a physical event

### Virtual Water Live Days

WIOA will host a minimum of 10 “live days” with the first day occurring on Wednesday 22 July 2020 where technical information and content will be shared with registered attendees. The Intelligent Water Network will also host 2 live days for the benefit of their members.

Live Days will include keynote and technical presentation where speakers will deliver engaging and informative content and facilitate 2-way conversations through question and answer sessions.

Virtual Water will provide a visually rich online platform that will enable members from all over the country to come together to hear the latest updates, share knowledge and technical information.

## Virtual Water Sponsors





# PROGRAM

## Day 1 Wednesday 22 July



10.30 **George Wall, WIOA**  
Welcome & opening of Virtual Water



### KEYNOTE PRESENTATION

SUPPORTED BY



10.50 **Dr. Steve E. Hrudey**  
Professor Emeritus - University of Alberta,

### Drinking water risk management: Converting hindsight into foresight

The Australian Drinking Water Guidelines were substantially upgraded in 2004 to adopt a risk management framework that was mirrored by the WHO Drinking Water Guidelines adoption of Water Safety Plans. This new risk management framework was founded on 6 guiding principles that were developed from a 2001 joint meeting of an NHMRC working group and the WHO expert microbiology group in Adelaide strongly influenced by the disastrous 2000 Walkerton, Canada outbreak that sickened over 2000 and killed 7 drinking water consumers. Fast forward to August 2016 and New Zealand had its own Walkerton-style disaster at Havelock North that sickened 5,500 and killed 4. Evidence prepared for Water New Zealand to the NZ Government Inquiry based on a review of drinking water outbreaks since Walkerton highlighted the role of complacency. This presentation will re-emphasise the ADWG risk management principles through authentic experience with international outbreaks and Australian close calls, focusing on the critical role of operators and the need for training. The presentation will demonstrate the continuing relevance of 10 commandments for ensuring safe drinking water.



12.15 **Craig Mathisen, WIOA**  
Virtual Water & Expo access & gamification explained

12.30 **BREAK - Check out the Expo**



1.30 **Jillian Busch, Aqualift Project Delivery**  
2020 PASS Award Presentation



1.45 **Dr Dan Deere, Water Futures P/L**  
ColoSSoS – Collaboration on Sewage Surveillance of SARS-COV-2 Project



2.10 **Cameron Ansell, Fraser Coast Regional Council**  
Evolving response to COVID-19 on the Fraser Coast



2.35 **Rod Moreton, Mid Western RC**  
Online Tb that saved us from a boil water notice

2.55 **WIOA - Close**



## Day 2 Wednesday 29 July

### Asset Management & Optimisation Program

- 9.00 **Dean Barnett (IWN) & Michael Welk**  
Welcome and introductions
- 9.10 **Farshad Ibrahimi (Isle Utilities) & Michael Welk**  
WSAA – AMCV Survey Project update  
The Global Asset Management Landscape - GFMAM
- 9.40 Break
- 9.50 **Oskar Casasayas (DTF)**  
Victorian Digital Asset Strategy (VDAS)  
Summarising webinar held in March
- 10.10 **Kevin Hellier (Melbourne Water) & Michael Welk**  
Workshop - What are the asset management challenges for the Victorian water industry?
- 10.30 Break
- 10.45 **Dante de Thomasis (Melbourne Water)**  
Melbourne Water's electronic asset management plan  
Proposed IWN Asset management e-library  
- Asset Strategy Plans - Asset Management Plans  
Workshop - What could be captured in the Victorian e-library?
- 11.15 Break
- 11.20 **Mark Engelhardt (Arcadis Gen)**  
SEAMS Trial. Outcomes and benefits to water corporations
- 11.35 **Richard Hughes (QUU)**  
Queensland Urban Utilities Implementation of SEAMS
- 12.15 **Chris Stecki (PHM Technology)**  
MADe Trial - PHM Technology  
Outcomes and benefits to water corporations  
Technical engineering based on risk, operational availability, cost modelling and analysis
- 12.30 WIOA - Close



# PROGRAM

## Day 3 Wednesday 12 August

- 10.20 **Alan Butler** (Port Macquarie Hastings Council)  
Welcome & Taste test judging explained  
Where's our Water?, Hunter Water
- 10.30 **Operator reflection on the bushfires**  
Reflections by 7 Operators from NSW & Victoria on the bushfires



### KEYNOTE PRESENTATION



11.20 **Michael O'Hanlon**  
Beyond Blue

#### Bushfires, floods, COVID-19. How do we maintain our mental health?

Michael is an experienced leader and engagement manager with over 20 years' corporate experience across research, sales, marketing, operations, information technology and consulting, combined with over 16 years' experience in the not for profit sector.

For the past fifteen years he has worked at Beyond Blue, an independent, not-for-profit organisation working to ensure that all Australians achieve their best mental health.

12.00 Virtual Water & Expo access explained (gamification)

12.15 BREAK - Check out the Expo



1.30 **Chris Howard**, Ixom  
What the changes to the chlorine gas standard AS 2927 mean



1.55 **Aaron Riding**, Cowra Shire Council  
First of its kind - the Wyangala STP



2.15 **Danny Roberts**, Port Macquarie Hastings Council  
Linfield Road Peat Fire



2.20 **Clara Laydon**, Hunter H2o  
Calculating Chlorine Contact Time - operational considerations

2.40 **Ixom 2020 Best Tasting Tap Water in NSW /ACT Winner**



**Brendan Guiney** - NSW Water Directorate  
**NSW Operator of the Year announcement**

2.55 WIOA Close



## Day 4 Wednesday 19 August

10.20 WIOA welcome



10.30 **Linda Nappa** (Veolia)  
High Recovery RO Treatment of Brackish Mine Water



11.00 **Luke Ayres** (Seqwater)  
Removing that dust is a must

11.20 **Paul Gregg & Philippa Childs** (Cowra Shire Council)  
Replacing corroded support posts in a tank



11.27 **David Dickson** (North East Water)  
Corryong WWTP Irrigation Upgrade



11.35 **Luisa Magalhaes** (Unity Water) & **Glenn Dale** (Verterra)  
Biosolids to bioproducts

11.55 Virtual Water & Expo access explained (gamification)

12.00 BREAK - Check out the Expo



1.30 **Dean Lambert** (Midcoast Council Water Services)  
MidCoast sewer pump stations, building resilience & adding value



1.50 **Patrick Geeves & Alex Blanch** (Toowoomba Regional Council)  
Filters and media issues at Mt Kynoch treatment plant



2.10 **Mark Tosh** (Urban Utilities)  
Gibson Island Picket Fence Thickener's (PFT's) optimisation  
polymer dosing trial



2.20 **Luke Jaworski** (Fraser Coast Regional Council)  
Wastewater Treatment sites changing from Liquid chlorine to dry  
chlorine feeder systems

2.40 **Dave Cameron** (*qldwater*) and **Justin Simonis** (AWA Qld)  
**Queensland Operator of the Year announcements**

2.55 WIOA Close



# PROGRAM

## Day 5 Wednesday 26 August

10.20 WIOA welcome & Taste Test judging explained



### KEYNOTE PRESENTATION



10.30 **Simon Derrick, Kate Sheahan & Aaron Clark**  
Richmond Football Club & AFL

It's more than a game! A look inside the programs and initiatives inside an elite sporting club

11.30 **Leah Jones** (Urban Utilities)  
The best job in the world - be part of an innovative industry



11.40 **Michael Carter** (Hunter H2O)  
Unbaffling baffle factors at Mardi WTP using tracer testing

12.00 BREAK - Check out the Expo

1.30 **Nicola Murphy** (SA Water)  
SA Water's zero cost energy future

1.50 **Billy Hajek** (Allwater, SA)  
GARWS UF upgrade: second generation tertiary treatment replacement program

2.10 **Mel Slimming** (SA Water) & **Robran Cock** (John Holland)  
New Murray Bridge WWTP commissioning in COVID times

2.25 **Michael Webber** (SA Water)  
Kangaroo Island bushfire response and WTP repairs

2.45 **Ixom 2020 Best Tasting Tap Water in South Australia Winner**



## Day 6 Wednesday 2 September

10.20 WIOA welcome & Taste Test judging explained



### KEYNOTE PRESENTATION

10.30 **Mark LeBusque**

See different, Be different, Do different  
Creator the Humannovation Challenge

Human Being creates better Human Doing, and  
Humannovation drives Innovation

11.30 **Dave Witcher** (Cowra SC)  
Purpose built - a water quality ute



11.40 **Chloe Erftemeyer** (Choose Tap)  
Australians and Tap Water - understanding attitudes  
and behaviours



12.00 BREAK - Check out the Expo



1.30 **Luc Richard** (TasWater)  
Health-Based Targets - Understanding pathogen risk



1.50 **Rennie Brown** (TasWater)  
Launceston (Ti Tree) digester refurbishment project



2.10 **Brielle Gray** (TasWater)  
My operations journey - 2019 Tasmanian Young Operator of the  
Year

2.20 **Jason Barnett** (TasWater)  
Cleaning robot in chlorine contact tank

2.40 **Ixom 2020 Best Tasting Tap Water in Tasmania Winner**  
**David Hughes-Owen** (TasWater)  
**Tasmanian Operator of the Year announcements**



# PROGRAM

## Day 7 Wednesday 9 September

10.20 WIOA welcome & Taste Test judging explained

10.30 **Roland Heatley** (Moree Plains Shire Council)  
Impacts of carp in Sewer Treatment Plant



10.50 **Brendan Guiney** (NSW Water Directorate)  
Telcos on reservoirs - the latest update



### KEYNOTE PRESENTATION

11.00 **Brett Chapman** (Hastings District Council)  
Havelock North Incident - New Zealand



11.40 **Suzy McDonald**, GWM Water  
Continuous improvement at DW plants using The Good Practice  
Guide for DW Treatment.

12.00 BREAK - Check out the Expo

1.30 **Troy Jansen** (Water Corporation)  
Hardness removal at the Neerabup GWTP



1.50 **Jill Busch** (Aqualift Project Delivery)  
Reservoir Inspections for water quality impacts

2.10 **Michael Leathersich** (Water Corporation)  
Experiences with electrochlorination in WA



2.20 **Paul Beard** (Water Corporation)  
Importance of community connections - China trip

2.40 **Kwatye Award Announcement** - sponsored by TRILITY

2.47 **Ixom 2020 Best Tasting Tap Water in Western Australia**

2.55 WIOA Close



## Day 8 Wednesday 16 September

10.20 WIOA welcome & Taste Test judging explained



### KEYNOTE PRESENTATION

10.30 **David Sheehan** (Coliban Water/Water RA)  
DALYs and HBTs – what does it all mean for drinking water quality?



11.00 **Jason Lee & Martin Cormoral** (Urban Utilities)  
Using real time cameras and headsets in operations



11.25 **Dr Karen Kennedy** (Power & Water)  
Leanyer Sanderson WWTP



11.40 **Brendan Guiney** (NSW Water Directorate)  
The Four Horsemen – Drought, Fire, Flood, Pandemic.  
What can we learn and how can we build resilience?

12.00 BREAK - Check out the Expo



1.30 **Dr Kelly Hill** (Water Research Australia)  
Water, research, and diversity “Nothing about us without us”



1.50 **Jethro Laidlaw** (Power & Water)  
Demand management across the NT



2.10 **Skefos Tsoukalis** (Power & Water)  
Drinking Water Treatment and PFAS - the Katherine community experience



2.30 **Elizabeth Gadd, Grant Walker & Eric Vanweydeveld**  
(Power & Water) Adelaide River - Australia’s first Iron and Manganese Removal Biological Water Treatment Plant

2.35 **Spirit of Australia Awards** - sponsored by TRILITY

2.55 WIOA Close



# PROGRAM

## Day 9 Wednesday 14 October

10.20 WIOA welcome & Taste Test judging explained



10.30 **John Hawkins** (Albury City Council)  
Reclaimed Water changing the floodplain landscape

11.00 **Richard Spain** (Nambucca Shire Council)  
Sewer leak repair under a river

11.30 **Maddison Hunger** (Wannon Water)  
Youth in the water industry.

11.33 **Latoya Buchanan** (Wannon Water)  
Becoming an electrician in the water industry

11.40 **Adrian Cavallaro** (AllWater)  
Leak detection from an operator's perspective

**Best Paper SA 2019**

12.00 BREAK - Check out the Expo

1.30 **Peter Field** (Central Highlands Water)  
Mapping Catchment Assets

1.50 **Isaac Greene** (Albury City Council)  
Lessons learnt from the failure of a spiral lined sewer main

2.10 **Elvis Saric** (Veolia)  
Operating PFAS treatment plant

2.20 **Kerry Matthews** (South Gippsland Water)  
First impressions of a novel copper algaecide to manage & control BGA (in small drinking water reservoirs)

2.40 **Ixom 2020 Best Tasting Tap Water in Victoria Winner**

**IWA and AWA Victoria representatives**

**Victorian Operator of the Year announcements**

2.55 Close





## Day 10 Wednesday 21 October



10.20 **Heidi Josipovic** (WIOA President)  
WIOA welcome & Taste Test judging explained

10.25 **David Kirby** (Brewarrina Shire Council)  
The Brewarrina Fish traps



10.40 **Brendan Moore & Jacqui Moon** (Yarra Valley Water)  
Pride in Water - increasing LGBTIQ+ inclusion in the Australian Water Industry



### KEYNOTE PRESENTATION

11.10 **Russell Riding** (Melbourne Water)  
Grate Blockage detection using AI



11.45 **Matt Stowe** (Central Highlands Water)  
Energy Efficiency in Sewer Pump Stations

12.00 BREAK - Check out the Expo



1.30 **Arran Canning** (Water Futures)  
WSAA Bushfire Management Guideline



1.55 **Dr Kathy Northcott** (Water RA/Veolia)  
Is potable reuse an option for drought-prone parts of Australia?



2.15 **Johanna Johnson** (Logan City Council)  
Loganholme WWTP sludge gasification project

2.35 **Tracey Carr** (Tamworth Regional Council)  
Living with the worst drought on record - the Tamworth story



**BEST TASTING  
TAP WATER IN  
AUSTRALIA**

2.55 **Louisa Graham** (Ixom)  
**Ixom 2020 Best Tasting Tap Water in Australia  
announcement**

3.10 Close



# 2020 Best Tasting Tap Water in Australia

Wednesday, 21 October 2020



**NSW/ACT**  
Wauchope WTP



**Queensland**  
Woodbury WTP



**South Australia**  
Woolpunda WTP



**Tasmania**  
Rossarden WTP



**Victoria**  
Mildura WTP



**Western Australia**  
Yalgoo WTP





# PROGRAM

# VIRTUAL WATER



**WATER INDUSTRY SAFETY EVENT**

PROUDLY SUPPORTED BY



## Day 11 Wednesday 28 October



10.20 **Kathy Northcott** (Veolia & WIOA Committee Member)  
Welcome



### KEYNOTE PRESENTATION

10.30 **Jeff Rigby** Western Water / WSAA  
WSAA Mental Health Framework & Case Studies



11.10 **Scott McMillan** (Melbourne Water)  
Virtual confined space simulator training



11.30 **Craig Piazza** (North East Water) **Best Paper Victoria 2019**  
Electrocution whilst working on water services



11.50 **Adrian Sucipto** (Melbourne Water)  
ECHO (Ergonomics in the Car, Home and Office)

12.10 BREAK - Check out the Expo



### KEYNOTE PRESENTATION

1.30 **Tara Okan** (Aquaero New Zealand)  
Dangers of infection from Wastewater Treatment Plants



2.10 **Wayne Packham** (Melbourne Water)  
Last line of defence: picking the right PPE for chlorine gas emergencies



2.30 **Eric Nielsen** (Icon Water)  
Cracker Jack maintenance access cover lifting system



2.50 **John Carr** (SA Water)  
Managing fatigue risk at SA Water



3.10 **George Wall** (WIOA)  
Gamification stage 4 presentation & closing remarks



## Virtual Water Expo

The expo will provide suppliers the opportunity to showcase their products and services in a virtual environment. The Virtual Water expo will simulate a live conference with exhibitors engaging with the attendees from their virtual exhibition booths.

Exhibitors will provide information to attendees through videos, PDF brochures and documents, by chat functions including text, audio or email.

The exhibition booths and their content will not only be available on the live days, they will stay on the Virtual Water platform for 365 days, and the sites will be accessible 24 hours a day, 7 days a week,

### Exhibitors

- **Acqua by Davey**
- **Acrodyne-Limitorque**
- **Aerofloat**
- **Alliance Automation**
- **Alternative Lining Technologies Australia**
- **Aqualift Project Delivery**
- **Bergmeier Environmental**
- **Bürkert Fluid Control Systems**
- **Denso Australia**
- **Draeger Australia**
- **EDAC Electronics Australasia**
- **Endress+Hauser Australia**
- **Envirosonic**
- **Fusion Works**
- **GEA Westfalia Separator**
- **Gemm Chemical & Coating Solutions**
- **Hach Pacific**
- **Hydroflux**
- **Independent Sewer Consulting**
- **Intelligent Water Network**
- **IXOM**
- **McBerns Innovative Solutions**
- **Merck**
- **Metaval Consolidated**
- **Monkey Media**
- **Odour Technologies**
- **Piping & Automation Systems**
- **Process Control Services**
- **Prominent**
- **Pump Systems**
- **Reece Civil & Viadux**
- **Research Laboratory Services**
- **Royce Water Technologies**
- **RSP Environmental**
- **SAFEgroup Automation**
- **Seepex Australia**
- **Sigura Water**
- **Skylotec Australia**
- **SMC Corporation**
- **Southern Divers**
- **Tank Enviro Systems**
- **Thermo Fisher Scientific Australia**
- **TracWater**
- **TRILITY**
- **viridis Consultants**
- **VoR Environmental**
- **WIOA**
- **Xylem**
- **Yokagawa**

## Awards & Recognition



**PASS Award announcement**  
Day 1 Wednesday, 22 July 2020

**New South Wales Taste Test and Operator of the Year announcements**  
Day 3 Wednesday, 12 August 2020

**Queensland Operator of the Year announcements**  
Day 4 Wednesday, 19 August 2020

**South Australia Taste Test and Operator of the Year announcements**  
Day 5 Wednesday, 26 August 2020

**Tasmanian Taste Test and Operator of the Year announcements**  
Day 6 Wednesday, 2 September 2020



**West Australia Taste Test and Kwatye Award**  
Day 7 Wednesday, 9 September 2020



**Spirit of Australia Awards**  
Day 8 Wednesday, 16 September 2020

**Victorian Taste Test and Operator of the Year announcements**  
Day 9 Wednesday, 14 October 2020

### Award Sponsors

AUSTRALIAN WATER  
ASSOCIATION

qld water

IWA

IXOM

Taswater

TRILITY

SOUTHERN DIVERS

“ WORKING SAFELY UNDER PRESSURE ”

VIRTUAL WATER

**LEADERBOARD**

ENGAGE WITH THE EXPO & EXHIBITORS TO GO INTO THE DRAW

\$500  
CHARITY DONATION  
YOUR CHOICE

### WINNERS ANNOUNCED

- 1** Day 5 - Wednesday 26 August 2020
- 2** Day 8 - Wednesday 16 September 2020
- 3** Day 9 - Wednesday 14 October 2020
- 4** Day 11 - Wednesday 28 October 2020

# VIRTUAL WATER

24/7 - 365 DAYS

EXPO OPEN

FREE ACCESS

24/7 - 365

TO EXPO FOR ALL

DAYS

## Commences 22 July 2020

### The times for the live events are not convenient for me. Can I still participate in the event?

The Virtual Water platform will remain open 24/7 for all of 2020. Therefore, you can attend whenever it is convenient for you during this period. We understand your schedule may not allow you to attend all the live sessions, but you can explore the expo at any time it is convenient for you.

### Will attendees be able to take away information or brochures from the event?

Yes. Like any physical event, we will have a briefcase available to attendees. They can download any available documents to their online briefcase and utilise them after they leave the event.

### Can I invite my colleagues to attend the event?

Absolutely. We are counting on you to invite others! Help us spread the word. You can simply share the link to this page, and they can register at their own convenience



**intelligent  
water  
networks**