

8:30-10:00am KEYNOTE SPEAKER SESSION							
10:00-10:45am MORNING TEA							
STREAM 1	STREAM 2	STREAM 3	STREAM 4	STREAM 5	STREAM 6	STREAM 7	STREAM 8
EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES	ENGAGING & WORKING WITH CUSTOMERS	PUBLIC HEALTH & COMMUNITY WELLBEING	A SAFE, INCLUSIVE AND INNOVATIVE WATER SECTOR	WSAA & AWA STREAM
Asbestos Cement & Pipe	Wastewater Treatment Optimisation	Machine Learning	Servicing the Future	Project Community Engagement	Microbial & Risk Management	Upskilling & Training	
160	225	143	297	421	462	137	
<b>BOW WAVES OF RENEWAL: THE CASE OF ASBESTOS CEMENT PIPE</b> David Marlow WISER Analysis/Melbourne University	<b>LOOKING INTO THE BLACK BOX OF WASTEWATER TREATMENT USING ADVANCED BIOMONITORING TOOLS</b> Ben van den Akker SA Water	<b>MACHINE-LEARNING TO HELP WATER UTILITIES</b> Quentin Bechet Veolia Australia and New Zealand	<b>COLLABORATIVE PLANNING FOR GROWTH: POTABLE WATER MASTER PLANNING FOR SOUTH EAST WATER</b> Alana Duncker Stantec	<b>SMART'S - MANAGING GRAFFITI WITH STREET ART</b> Rachaelle Downey TasWater	<b>A MULTIFACETED APPROACH TO PREVENT CRYPTOSPORIDIUM OUTBREAKS AT PUBLIC AQUATIC FACILITIES</b> Rachael Poon Department of Health and Human Services Victoria	<b>MBNRU - ENGAGE, INNOVATE, LEARN AND GROW</b> Sven Harlos Watercare Services	
465	397	22	471	433	208	154	
<b>CURED IN PLACE PIPE LINERS - PERFORMANCE REQUIREMENTS FOR ASBESTOS CEMENT &amp; CAST IRON PIPE - A GLOBAL REVIEW</b> Frederic Blin AECOM	<b>OPERATING CAPACITY: GETTING MAXIMUM VALUE FROM WASTEWATER TREATMENT ASSETS</b> Peter Donaghy Queensland Urban Utilities	<b>UTILISING MACHINE LEARNING TO PREVENT WATER MAIN BREAKS BY UNDERSTANDING PIPELINE FAILURE DRIVERS</b> Dilusha Weeraddana DATA61/CSIRO	<b>QUANTIFYING THE HYDROLOGICAL PERFORMANCE OF INFILL DEVELOPMENT</b> Marguerite Renouf University of Queensland/CRC for Water Sensitive Cities	<b>TIME FOR CHANGE - DEMAND MANAGEMENT PROGRAM</b> Nicole Davis Mackay Regional Council Water Services Jacquiline Stewart Mackay Regional Council	<b>THERMOTOLERANT MI AGAR AND WHOLE GENOME SEQUENCING FOR DIFFERENTIATION OF FAECAL CONTAMINATION FROM BLOOM EVENTS</b> Gary Hallas SA Water, Australian Water Quality Centre	<b>COLLABORATIVE REMOTE VR TRAINING FOR HIGH RISK ISOLATIONS - INNOVATION RESULTING FROM INDUSTRY AND ACADEMIA COLLABORATION</b> Scott McMillan Melbourne Water Ben Horan Deakin University	
215	372	259	463	246	350	43	
<b>UNDERSTANDING THE CONDITION AND LIKELY REMAINING LIFE OF THEIR ASBESTOS CEMENT (AC) PRESSURE PIPELINES</b> Dr Jonathan Morris WSP Opus	<b>FORECASTING AND BENCHMARKING ENERGY AND CARBON FOR THE LOWER SOUTH CREEK TREATMENT PROGRAM</b> James Logie WSP Gill Fowler Sydney Water	<b>DOWN THE RABBIT HOLE - A MACHINE LEARNING ADVENTURE IN THE WATER SECTOR</b> Jeff Fisher GHD	<b>CAPITAL INVESTMENT PLAN FOR DRINKING WATER SERVICING OF GROWTH</b> Arash Jafari AECOM Fernando Gamboa Sydney Water	<b>A TALE OF TWO TREATMENT PLANTS: LESSONS IN COMMUNITY ENGAGEMENT</b> Kate Thomas Logan Water Infrastructure Alliance Tamara Weaver Logan City Council Tania Keelan Downer	<b>THERMOPHILIC AMOEBA - ARE WE IN HOT WATER?</b> Abigail Morrow Hunter Water Corporation	<b>AUSTRALIAN WATER INDUSTRY FRONTLINE OPERATOR TRAINING AND COMPETENCY TRENDS</b> Sallyanne Bartlett WaterQPlus	<b>TO BE ANNOUNCED</b>
24	245	71	155	72	152	18	
<b>TRIALLING REHABILITATION TECHNOLOGIES FOR ASBESTOS PIPES</b> Nick Stetter South East Water	<b>UPGRADING THE AERATION CONTROL LOGIC FOR AN IMPROVED PERFORMANCE</b> Jerome Douziech Water Corporation	<b>PUMP EFFICIENCIES USING ARTIFICIAL INTELLIGENCE</b> Russell Riding Melbourne Water	<b>DEVELOPMENT SCALE INTEGRATED WATER MANAGEMENT PLANNING ACROSS THE MELTON GROWTH REGION</b> Nigel Corby Western Water	<b>ENGAGING A COMMUNITY THAT DOESN'T EXIST</b> Sandra Glass South East Water	<b>DEVELOPING A UTILITY RESPONSE PROTOCOL FOR MANAGEMENT OF ENVIRONMENTAL E. COLI BLOOMS</b> Martha Sinclair Monash University	<b>THE TECHNICAL COMPETENCY PROJECT - PROMOTING UPSKILLING AND PROFESSIONAL DEVELOPMENT IN WATER INDUSTRY OPERATIONS</b> Kathy Northcott GHD	
365	459	405	37	174	9		
<b>DEVELOPMENT OF DURABLE, COST-EFFECTIVE FIBRE-OPTIC SENSORS TO MONITOR CONCRETE CORROSION IN SEWERS</b> Dr Martin Ams Macquarie University	<b>IMPROVING HYDRAULIC PERFORMANCE OF WASTE STABILISATION PONDS USING BAFFLES</b> Liah Coggins The University of Western Australia	<b>TEAM OF TEAMS AND CROWDSOURCING, A DISRUPTIVE APPROACH TO PRODUCT DESIGN - A SOCIAL INNOVATION EXPERIENCE</b> Raymond Llave and Sirisha Nekkhalapu Sydney Water	<b>OPPORTUNITY IN THE BURDEKIN - PLANNING FOR POSSIBLE FUTURES</b> Elaine Pang Arup Gloria Vega Sunwater	<b>AN AESTHETICALLY APPEALING ENGAGEMENT</b> Kelly Newton SA Water	<b>UNDERSTANDING NAEGLERIA FOWLER. A DIFFERENT TYPE OF PATHOGEN. AN INCREASING CLIMATE CHANGE THREAT</b> Clara Laydon Hunter H2O	<b>TO BE CONFIRMED</b>	
12:15-1:15pm LUNCH							

	STREAM 1	STREAM 2	STREAM 3	STREAM 4	STREAM 5	STREAM 6	STREAM 7	STREAM 8
	EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES	ENGAGING & WORKING WITH CUSTOMERS	PUBLIC HEALTH & COMMUNITY WELLBEING	A SAFE, INCLUSIVE AND INNOVATIVE WATER SECTOR	WSAA & AWA STREAM
	Pipeline Leakage and Monitoring	Water Reuse	Data Analytics	City Scale Planning	Community Collaboration	Public Health Management	Values & Inclusion	
	257	368	453	26	319	120	ACCENT SPEAKER TO BE ANNOUNCED	
	SMART LININGS FOR LONGER PIPE LIFE Amber Robinson Water Services Association of Australia (WSAA)	EXENO: SUSTAINABLE REMOVAL OF MICROPOLLUTANTS IN MUNICIPAL WWTP EFFLUENTS WITH MOVING BED BIOFILM REACTORS Elena Torresi Veolia Water Technologies	MAXIMISING CUSTOMER VALUE FROM PROJECTS USING A STRUCTURED APPROACH TO BUSINESS PARTNERING Bianca Galeano SA Water	GROWING PAINS - THE WESTERN WATER STORY Dan Stevens Beca	LEARNING TO LOVE WATER WITH OUR COMMUNITY Jane Blakeney Hunter Water Corporation	FACTORS INFLUENCING LOG REMOVAL OF PATHOGENS IN MEMBRANE BIOREACTORS, BEHIND THE WATERVAL GUIDELINES Amos Branch UNSW		
	415	227	ACCENT SPEAKER TO BE ANNOUNCED	ACCENT SPEAKER TO BE ANNOUNCED	165	236		
	MOBILITY MAPPING SAVING BILLIONS OF LITRES OF WATER Doug van Gelder Esri Australia	MELTON RECYCLED WATER PLANT: CHANGING PROCESS TO SUIT LOW RECYCLED WATER DEMAND Rod Curtis Western Water			EAST MEETS WEST: DEVELOPING A VALIDATION AND COMMUNITY ACCEPTANCE PROGRAM FOR INDIRECT POTABLE WATER REUSE Daniel Healy Seqwater	WATER SECTOR REGULATORY REFORM IN NEW ZEALAND John Pfahlert Water New Zealand		
1:15-3:15pm	202	357	248	130	222	330	263	TO BE ANNOUNCED
	CONSEQUENCE ASSESSMENT OF CATASTROPHIC WATER MAIN FAILURE Nicholas Deeks GHD	ULTRA LOW PRESSURE REVERSE OSMOSIS MEMBRANE PERFORMANCES FOR WATER DECONTAMINATION Julien Ogier IAB Ionenaustaucher GmbH	IOT AS A DIGITAL ENABLER OF A HYPER-CONNECTED WATER UTILITY Christoph Prackwieser and Darren Cash Sydney Water	ACHIEVING WATER SUSTAINABILITY FOR CITY OF AUSTIN, TEXAS THROUGH DECENTRALISED REUSE STRATEGIES Ryan Brotchie GHD	A LEARNING JOURNEY: HARNESSING CONSUMER INSIGHTS AND CUSTOMER BENCH MARKING CAPABILITY TO DRIVE COMMUNITY ENGAGEMENT Doug Lucas Hunter Water Corporation Paul van Veenendaal CSBA	INNOVATING AND CREATING NEW KNOWLEDGE TO SECURE WATER QUALITY AND ENSURE PUBLIC HEALTH Leah Sertorio Queensland Urban Utilities	REFRESHING OUR ORGANISATIONAL VALUES THROUGH AN INCLUSIVE COLLABORATIVE, INNOVATIVE AND FUN PROJECT Katy Jones South East Water	
	117	128	443	426	61	249	311	
	LESSONS LEARNED FROM ADVANCED PRESSURE MANAGEMENT Stuart Stapely Detection Services Sophie Wang City West Water	POTABLE REUSE: HAS IT ARRIVED IN THE U.S., AND WHEN WILL IT ARRIVE IN AUSTRALIA? Matt Winkelman GHD (Santa Rosa, CA, U.S.) Arturo Burbano GHD (Miami, FL, U.S.)	DIGITAL INTELLIGENCE ANALYTICS - TRANSFORMING DOCUMENTS, LEGACY DATA INTO DIGITAL ASSETS Michael Kolb and Alex Stanojevic AECOM	REIMAGINING WATER IN WESTERN SYDNEY Paul de Sa and Warda Anwar Sydney Water	EMBRACING GRASS-ROOTS ENGAGEMENT AND PUTTING CUSTOMERS AT THE HEART OF WATER QUALITY & SUPPLY OUTCOMES Lise Eagan Bales Central Highlands Water	TOWNSVILLE WATER SUPPLY CRYPTOSPORIDIUM ASSESSMENT AND HEALTH BASED TARGETS Laura Kuskopf GHD	CREATING PRIDE IN WATER - AN EVIDENCE BASED APPROACH TO INCREASING LGBTIQ+ STAFF REPRESENTATION Brendan Moore Yarra Valley Water	
	45	355	255	108	63	408	298	
PERFORMANCE OF THE PERMANENT ACOUSTIC MONITORING SYSTEM FOR THE ADELAIDE CBD WATER NETWORK Dr Mark Stephens SA Water	TAKING INDIRECT POTABLE REUSE FROM CONCEPT TO REALITY: CLEARWATER GROUNDWATER REPLENISHMENT APPROACHES THE CONSTRUCTION PHASE Christian Dunaway Tetra Tech	INTELLIGENT WATER NETWORKS - TRIALS OF DATA INTEGRATION, VISUALISATION AND ANALYSIS TOOLS David Bergmann South East Water	A SUSTAINABLE AND RESILIENT WATER AND USED WATER MASTERPLAN FOR THE INDIAN MEGACITY, BENGALURU Gaurav Bhatt Jacobs	SUNRAYSA MODERNISATION PROJECT 2 - COLLABORATING WITH CUSTOMERS TO BUILD RESILIENCE OF THE LOWER MURRAY WATER RURAL IRRIGATION BUSINESS Andrew Kremor Lower Murray Urban and Rural Water Corporation	TREATMENT PROCESS HEALTH CHECK FOR CONVENTIONAL WTP Antoine Chassagne and Matthew Robertson TasWater	BUSH CULTURE NO BULL Rob Lynch Queensland Urban Utilities		
333	436	460	156	329				
A REGIONAL COUNCIL'S PROACTIVE PIPELINE CONDITION ASSESSMENT PROGRAM Avneet Sethi Mackay Regional Council	IS DIRECT POTABLE REUSE A TECHNICALLY AND SOCIALLY VIABLE SAFE SOURCE OPTION FOR PERTH? Nick Turner Water Corporation	OPERATIONAL ANALYTICS - THE CALCULATIONS CAN BE COMPLEX, BUT THE EXECUTION CAN BE SO SIMPLE Patrick Bonk Innovyze	PRECINCT PLANNING ENABLING A WATER SENSITIVE CITY Andrew Chapman South East Water	HOW SA WATER TRANSFORMED CUSTOMER EXPERIENCE ALLOWING OUR CUSTOMERS TO GET ON WITH LIFE Colin Bell SA Water	TO BE CONFIRMED	TO BE CONFIRMED		
3:15-4:00pm	AFTERNOON TEA							



	STREAM 1	STREAM 2	STREAM 3	STREAM 4	STREAM 5	STREAM 6	STREAM 7	STREAM 8
4:00-5:30pm	WORKSHOP/ PANEL 8	WORKSHOP/ PANEL 9		WORKSHOP/ PANEL 10	WORKSHOP/ PANEL 11	WORKSHOP/ PANEL 12	WORKSHOP/ PANEL 13 INDUSTRY SAFETY & WELLBEING PROGRAM	WSAA & AWA STREAM
6:30-11:00pm	OZWATER'19 GALA DINNER & AUSTRALIAN WATER AWARDS (TICKET REQUIRED)							