

8:30-10:00am									OPENING CEREMONY KEYNOTE ADDRESS								
10:00-10:45am									MORNING TEA								
STREAM 1		STREAM 2		STREAM 3		STREAM 4		STREAM 5		STREAM 6		STREAM 7		STREAM 8		STREAM 9	
EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT		EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT		BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES		BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES		OPPORTUNITIES AND CHALLENGES IN GOVERNANCE, POLICY, REGULATION AND STRUCTURE		ENGAGING & WORKING WITH CUSTOMERS		SERVICING & SUPPORTING RURAL, REMOTE AND REGIONAL AREAS		A SAFE, INCLUSIVE & INNOVATIVE WATER SECTOR		WATER LEADERS FORUM (INVITE ONLY) PROUDLY SPONSORED BY: 	
Sewer Condition & Rehabilitation		Environmental Compliance		Demand Forecasting & Supply		SDGs		Regulation & Pricing		Voice of the Customer		Pacific & Indigenous Water Resources		Innovative Culture			
189		96		412		27		382		232		ACCENT SPEAKER TO BE ANNOUNCED		271			
AVOIDING SPILLS - HOW TO SAFELY SHUT DOWN A PRESSURE SEWER NETWORK IN AN EMERGENCY Eamon Casey iota Services		UNDERSTANDING THE PROCESS DYNAMICS OF AN UNUSUAL HYBRID WWTP Flavia Steinauer GHD		A THIRST FOR WATER SAVINGS DRIVES NORTHERN TERRITORY UTILITY Doug van Gelder Esri Australia		RUBYANNA WWTP: A DEMONSTRATION OF SUSTAINABILITY AND A CATALYST FOR REGIONAL PROSPERITY Mark Newland Downer		THE FUTURE OF PRICE REGULATION - A FOCUS ON ENGAGEMENT AND SERVICE PERFORMANCE Tim White KPMG		INSIGHTS FROM CREATING A TRANSFORMATIONAL CUSTOMER STRATEGY Sean Hanrahan City West Water				DYNAMIC DASHBOARD: UNLOCKING THE POWER OF EMPLOYEE ENGAGEMENT Julien Anese Adelaide Services Alliance			
162		296		100		244		278		150				299			
SAPP2R - A TACTILE ROBOT FOR SAMPLING CONCRETE CORROSION DEPTH IN SEWER ACCESS POINTS Robert Ross Department of Engineering, La Trobe University Dean Barnett Intelligent Water Networks (IWN)		BEYOND COMPLIANCE: WHEN TREATED EFFLUENT QUALITY IS WITHIN LICENCE LIMITS YET CAUSES MATERIAL ENVIRONMENTAL HARM Daniel Livingston Hunter Water Corporation Margaret Balandin Hunter Water Corporation		MODELLING WESTERN AUSTRALIA'S FUTURE WATER DEMAND AND SUPPLIES Daniel Ferguson Department of Water and Environmental Regulation		PLANET, PEOPLE, PROSPERITY: TRACKING OUR JOURNEY TOWARDS SUSTAINABILITY Grace Rose-Miller Yarra Valley Water		INSIGHTS AND LESSONS FROM DEVELOPING A REGULATORY PRICE SUBMISSION UNDER THE PREMO FRAMEWORK Kanchana Karunaratna and Rob Nolan Marsden Jacob Associates		VOICE OF THE CUSTOMER: THE IMPORTANCE OF CUSTOMER INTIMACY & ORGANISATIONAL GROWTH Dawn Loh South East Water Pip Stocks BrandHook		TRANSFORMING OUR WORLD - INNOVATION INSPIRATION Emily Thomas City West Water					
450		247		455		58		351		77		35		328		WATER LEADERS FORUM	
REHABILITATION OF CENTURY OLD WILLIAMSTOWN OVOID BRICK MAIN SEWER - DESIGN CHALLENGES Malcolm Spears AECOM Chris Chan East MIEAust, CPEng, NER		JUGGLING WATER - A STORY OF A WASTEWATER SYSTEM Katherine Reid Allwater, SA Water Caroline Herman Allwater JV		IMPACT OF CLIMATE CHANGE ON WATER DEMAND Luther Uthayakumaran Sydney Water		BEYOND GOAL 6: DRIVING SUSTAINABILITY AT MELBOURNE WATER THROUGH THE UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS Tim Rowan Melbourne Water		OVERCOMING THE CHALLENGING REGULATORY FRAMEWORK TO STOP ILLEGAL STORMWATER DISCHARGE INTO SEWER Peter Smith Queensland Urban Utilities		THE CUSTOMER OF THE FUTURE IN THE URBAN WATER INDUSTRY Cassandra Hogan KPMG Evelyn Rodrigues Water Services Association of Australia (WSAA)		DEVELOPING A SUSTAINABLE WATER FUTURE FOR THE TORRES STRAIT ISLANDS Samuel Koci Arup Tom Day Torres Strait Islands Regional Council		TOOLKIT FOR AN INNOVATION JOURNEY Anna Lundmark Hunter Water Corporation			
344		136		62		317		59		188		273		406			
INVESTIGATION ON THE CHARACTERISTICS OF CORROSION IN SEWER PIPES Paritosh Giri Macquarie University		SAFESWIM - OR TROUBLED WATERS? AUCKLAND'S SMART CUSTOMER ENGAGEMENT INITIATIVE Steve Couper Mott MacDonald		THE NEW NORMAL - WATER USE TRENDS IN SOUTH AUSTRALIA AFTER THE MILLENNIUM DROUGHT Michelle Irvine SA Water		TRANSFORMING IWM FOR ISM: HOW WATER AUTHORITIES CAN LEAD THE WAY TO ACHIEVE INTEGRATED SUSTAINABLE DEVELOPMENT Paul Satur Monash Sustainable Development Institute, Monash University		MANAGING ELECTRICITY PRICE VOLATILITY TO MEET CUSTOMER AND REGULATORY EXPECTATIONS Marcus Crudden Essential Services Commission Andrew Kremor Lower Murray Urban and Rural Waste Corporation		TOMORROW'S PEOPLE - TURNING MEGATRENDS INTO CUSTOMER NARRATIVES Corrina Mercure SA Water		THE WATER RESOURCE CHALLENGES FOR TWO INDIGENOUS COMMUNITIES IN AUSTRALIA AND THE PACIFIC Russell Beatty Hydrology and Risk Consulting		DIGITAL DISRUPTION CREATING CONNECTEDNESS OF CUSTOMERS, ASSETS AND EMPLOYEES Raymond Llave, Brinda Mohan and Anthony Finn Sydney Water			
206		300		418		470		258		6		186		331			
JUSTIFYING INNOVATION: IMPLEMENTATION OF WIDE-SCALE INTERNET ENABLED VACUUM SEWER MONITORING SYSTEM Utsuk Shah Beca		EXPLORE, RESCUE, PROTECT! STRATEGIES FOR SAFELY REFURBISHING INLET STRUCTURES AT WASTEWATER TREATMENT PLANTS THAT ARE DIFFICULT TO ISOLATE Joshua Plummer Hunter H2O		HOW BAD IS THE CURRENT DROUGHT IN NSW, AUSTRALIA? Mahmudul Haque WaterNSW		TASWATER UPGRADES 15 REGIONAL TOWN WATER SUPPLY SYSTEMS TO SUPPLY CUSTOMERS WITH SAFE POTABLE WATER Robert McKaige TasWater/KBR		BOTTOM UP SYSTEMS ANALYSIS OF MARKET MECHANISMS FOR PRICING WATER AND SEWAGE SERVICES Peter Coombes Urban Water Cycle Solutions		CREATING PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT THROUGH DELIBERATIVE ENGAGEMENT: DANDENONG CREEK COMMUNITY PANEL Sarah Watkins Melbourne Water		LOW ENERGY WASTE WATER COLLECTION AND TREATMENT SYSTEM FOR REMOTE AND DEVELOPING COMMUNITIES Jason Morris iota Services Peter Harbour Reedbed Technology		IMPROVING INTEGRATED URBAN WATER MANAGEMENT USING HUMAN CENTRED DESIGN Lachlan Guthrie RMIT			
12:15-1:15pm									LUNCH								

	STREAM 1	STREAM 2	STREAM 3	STREAM 4	STREAM 5	STREAM 6	STREAM 7	STREAM 8	STREAM 9
	EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT	BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES	BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES	OPPORTUNITIES AND CHALLENGES IN GOVERNANCE, POLICY, REGULATION AND STRUCTURE	ENGAGING & WORKING WITH CUSTOMERS	SERVICING & SUPPORTING RURAL, REMOTE AND REGIONAL AREAS	STUDENT WATER PRIZE	
	Pipe Degradation & Cleaning	Piloting & Advanced Wastewater Treatment	Water Efficiency & Conservation	Water & Liveability	Planning in an Uncertain Future	Vulnerable Customers	Regional Health & Water Quality		
	428	201	145	106			146		
	MANAGING RISKS TO MAJOR PIPELINES USING SMART SENSOR NETWORK <i>Georgiana Anderson Sydney Water</i>	MEMBRANE BIOREACTOR: SINGLE DISINFECTION BARRIER FOR THE SEWAGE OF LOWOOD AND FERNVALE <i>Paul McPhee Queensland Urban Utilities</i>	AN ISO INTERNATIONAL STANDARD FOR WATER EFFICIENCY LABELLING TO SUPPORT SDG 6 <i>Carol Grossman Department of Agriculture and Water Resources</i>	PROTECTING AND ENHANCING THE CITY'S GREEN SPACES THROUGH INCREASED RECYCLED WATER USE AT THE GOLD COAST <i>Kevin Page City of Gold Coast</i>	TO BE CONFIRMED	CUSTOMER MOMENT <i>Speaker TBA</i>	THE SWARM BUOY TRIAL AT COLIBAN WATER - DETECTING ALGAE IN REAL TIME IN REMOTE LOCATIONS <i>TBA Veolia Australia and New Zealand</i>		
	359	294	322	ACCENT SPEAKER TO BE ANNOUNCED	171	390	182	SWP01	
	TALKING DIRTY (WATER) - A JOURNEY TOWARDS IMPROVED DISCOLOURED WATER PERFORMANCE IN THE LOWER HUNTER <i>John Stanmore Hunter Water Corporation</i>	A PILOT SCALE EVALUATION OF MEMBRANE AERATED BIOFILM REACTOR (MABR) TECHNOLOGY FOR BNR PROCESS INTENSIFICATION <i>Alastair McNeil Black & Veatch Australia</i>	WATER EFFICIENCY - A LONG TERM PARTNERSHIP <i>Stephen Askew Hunter Water Corporation Adam Jones BMT</i>		GUIDING INTEGRATED URBAN AND WATER PLANNING <i>Chris Chesterfield CRC for Water Sensitive Cities</i>	REDUCING THE COST OF DEBT COLLECTION: A CASE STUDY IN HUMAN CENTRED DESIGN <i>Nitzan Cohen Yarra Valley Water</i>	GROUNDWATER CONTAMINATION, REMOTE COMMUNITIES AND INDIGENOUS HEALTH <i>Nina Hall School of Public Health at The University of Queensland</i>	CONTROLLING AND MONITORING ALGAE BLOOMS IN EFFLUENT STORAGE PONDS <i>Lindsay Stafford Gladstone Regional Council (QLD)</i>	
	400	210	411	52	337	293	241	SWP02	
1:15-3:15pm	FASTER, MORE EFFICIENT WATER MAINS CLEANING AND DISINFECTION USING MOBILE OZONATION <i>Jason Brooks Grenof</i>	RESULTS AND LEARNINGS FROM PILOT TRIAL OF NEREDA® AEROBIC GRANULAR SLUDGE TECHNOLOGY AT SYDNEY WATER'S QUAKERS HILL WRP <i>Monita Naicker Aquatec Maxcon Pty Ltd</i>	WATER EFFICIENCY OPPORTUNITIES FOR MID-SIZED UTILITIES <i>Simon Fane Institute for Sustainable Futures</i>	LESSONS ON LIVEABILITY: URBAN WATER'S NEXT HORIZON? <i>Hannah Pexton Melbourne Water</i>	PLANNING URBAN WATER SYSTEM RESPONSES TO MEGA DROUGHT <i>Danielle Verdon-Kidd The University of Newcastle</i>	HOME VISITS PROGRAM FOR PENSIONERS IN DEBT <i>Vedah Panuccio and Anna Thomson Sydney Water</i>	ADDRESSING DRINKING WATER FLUORIDE LEVELS ON THE APY LANDS <i>Damian Mortimer SA Water</i>	IMPACTS OF HYBRID WATER SUPPLY SYSTEMS ON WATER RESOURCES AND INFRASTRUCTURE <i>Mukta Sapkota University of Melbourne (VIC)</i>	
	172	132	386	113	252	148	316	SWP03	
	GETTING THE CALCO CARBONIC BALANCE RIGHT TO PREVENT ASSET DEGRADATION AND IMPROVE AESTHETICS <i>Todd Lowe Allwater</i>	TAKING MAINSTREAM DEAMMONIFICATION OUT OF THE BOX AND INTO PRACTICE <i>Sandeep Sathyamoorthy Black & Veatch Australia</i>	USING AGENT BASED MODELLING TECHNIQUES TO UNDERSTAND AND PREDICT WATER CONSERVATION BEHAVIOURS <i>Magnus Moglia CSIRO Jonathan Dixon Sydney Water</i>	DELIVERING WATERWISE COMMUNITIES THROUGH LOCAL COUNCIL PARTNERSHIPS <i>Nadine Riethmuller Water Corporation</i>	LESSONS FROM THE FIRST VICTORIAN WATER SECTOR CLIMATE CHANGE ADAPTATION ACTION PLAN <i>Jill Fagan Department of Environment, Land, Water & Planning</i>	A UTILITY THAT VALUES DISABILITY - PROJECT WIDER WORLD <i>Dave Woodmore SA Water</i>	IMPROVING DRINKING WATER SAFETY IN REGIONAL NSW <i>Josh Tickell NSW Health</i>	RENEWABLE ENERGY REVERSE OSMOSIS DESALINATION IN A SMALL RURAL VILLAGE IN INDONESIA: CASE STUDY <i>Tom Wheeler Murdoch University (WA)</i>	
		362	308	234	204	149	237	SWP04	
	TO BE CONFIRMED	SIDE-STREAM ANAMMOX SCALE-UP AT THE LUGGAGE POINT SEWER TREATMENT PLANT <i>Justin Todhunter Queensland Urban Utilities</i>	SMART RAINWATER FOR HOT WATER SYSTEM AT AQUAREVO <i>Ninad Dharmadhikari South East Water</i>	UNDERSTANDING THE ROLE OF THE WATER SECTOR IN URBAN GREENING AND LIVEABILITY: A COMPARISON OF AUSTRALIA, SPAIN, NETHERLANDS AND DENMARK <i>Dr Casey Furlong GHD and Centre for Urban Research, RMIT</i>	ECONOMIC EVALUATION AND DESIGN OF A DROUGHT WATER RESTRICTIONS FRAMEWORK FOR SOUTH EAST QUEENSLAND <i>Euan Morton Synergies Economic Consulting</i>	CHW CARE PROGRAMS FOR VULNERABLE AND ISOLATED CUSTOMERS <i>Bridget Folbigg and Kaye Bilston Central Highlands Water</i>	HEALTH-BASED TARGETS IN REGIONAL DRINKING WATER SUPPLIES <i>Glen Luscombe Viridis Consultants Morris Hamill Mareeba Shire Council</i>	THE ONSHORE INFLUENCE OF OFFSHORE FRESH GROUNDWATER <i>Andrew Knight Flinders University (SA)</i>	
	212	32	320	84	377	358	284	SWP05	
	DELIVERING WELLINGTON'S EMERGENCY WATER NETWORK <i>Ashley Rideout Cardno</i>	EASTERN TREATMENT PLANT DISSOLVED AIR FLOTATION THICKENING - OPTIMISING PERFORMANCE TO ENABLE GREATER CAPACITY <i>Mukundan Devadas Melbourne Water</i>	ICON WATER CUSTOMER METERING REVIEW <i>Guy Price Icon Water</i>	DRAINAGE FOR LIVEABILITY: A NEW PARTNERING APPROACH FOR ENHANCING OUR DRAINS <i>Suzanne Brown Water Corporation</i>	MULTI-OBJECTIVE OPTIMISATION TO MEET LEVELS OF SERVICE - FISH RIVER WATER SUPPLY SCHEME <i>Kandiah Mahadeva WaterNSW</i>	A DAY AT THE ZOO - ENGAGING CULTURALLY DIVERSE COMMUNITIES <i>Anushia Bleazby City West Water</i>	WATER DIVINER OF THE 21ST CENTURY - A CASE STUDY <i>Nicholas Bates Hunter Water Corporation</i>	NSW FINALIST TO BE ANNOUNCED 8 MARCH 2019 <i>*Session to continue through Afternoon Tea</i>	
3:15-4pm	AFTERNOON TEA								



	STREAM 1	STREAM 2	STREAM 3	STREAM 4	STREAM 5	STREAM 6	STREAM 7	STREAM 8	STREAM 9
4:00-5:30pm	WORKSHOP/ PANEL 1		WORKSHOP/ PANEL 2		WORKSHOP/ PANEL 3	WORKSHOP/ PANEL 4	WORKSHOP/ PANEL 5	WORKSHOP/ PANEL 6	WORKSHOP/ PANEL 7
5:30-6:30pm	HAPPY HOUR AT THE CLUB HOUSE IN EXHIBITION HALL								
							AWA AUSTRALIA-VIETNAM WATER UTILITY IMPROVEMENT PROGRAM WORKSHOP		

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

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	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	
	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	TO BE ANNOUNCED
	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)							

	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	BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES	OPPORTUNITIES AND CHALLENGES IN GOVERNANCE, POLICY, REGULATION AND STRUCTURE	PUBLIC HEALTH & COMMUNITY WELLBEING	INDUSTRY SAFETY & WELLBEING PROGRAM
	Water Treatment, Algae & Organics	Biosolids	Asset Management Systems	Valuing Liveability Outcomes	Water Sensitive Urban Design & Hydrology	SDGs & Modern Slavery Act	THMs	
	223	352	380	466	21	86	289	
	HYDRODYNAMIC RESERVOIR MODELLING: INFORMING OPERATIONAL DECISIONS IN RESPONSE TO PATHOGEN CHALLENGES Brooke Swaffer SA Water	FROM FLUSH TO FARM; EXCELLENCE IN BIOSOLIDS PRODUCTION AND MANAGEMENT AT SYDNEY'S LARGEST WWTP Laura Roff GHD	GETTING STRATEGIES OFF THE SHELF Mark Rippon TasWater	USING A NATURAL CAPITAL FRAMEWORK TO ACHIEVE GREATER LIVEABILITY: A CASE STUDY Lili Pechey Natural Capital Economics	BALANCING AESTHETICS AND FUNCTION FOR KEY INFRASTRUCTURE Jonathan Rusterholz Unitywater	EXPLORING BLOCKCHAIN AS AN ALTERNATIVE DECENTRALISED ARCHITECTURE FOR WATER TRADING IN AUSTRALIA Jason Carr Arup	OPERATIONAL EFFICACY OF UV DISINFECTION OF WASTEWATER TREATMENT PLANTS IN THE SYDNEY DRINKING WATER CATCHMENT Lisa Hamilton WaterNSW	PERSONAL SAFETY MOMENT Speaker TBA
9:00-10:30am	28	161	253	ACCENT SPEAKER TO BE ANNOUNCED	105	235	203	ACCENT SPEAKER TO BE ANNOUNCED
	TRANSFORMING DRINKING WATER TREATMENT - MBBR FOR MIB AND GEOSMIN REMOVAL Katrin Doederer The University of Queensland	MOVING TOWARDS MAXIMUM BIOSOLIDS REDUCTION: ULTRA DEWATERING OF SLUDGE Veronique Bonnelye SUEZ	HUMAN CENTERED APPROACH TO ASSET MANAGEMENT Astrid Hartono Yarra Valley Water		REVIEW OF BASEFLOW CONTRIBUTION FROM WATER SENSITIVE URBAN DESIGN David Buck Central Queensland University	STRETCHING THE SUSTAINABLE DEVELOPMENT GOALS: CAPACITY BUILDING FOR THE AUSTRALIAN WATER PROFESSION Suzy Goldsmith Goldsmiths P/L Darryl Day ICE WaRM	RESILIENT WATER FILTRATION PLANTS FOR SYDNEY ADDRESSING CLIMATE CHANGE, DROUGHT, POPULATION GROWTH AND DISINFECTION TARGETS Darren Romain Jacobs	
	288	196	279	183	89	360	60	217
	REAL-TIME MONITORING OF CYANOBACTERIA: VALIDATION OF FLUOROMETERS AS A TOOL FOR OPTIMISING TREATMENT PROCESSES Florence Choo UNSW	THERMAL HYDROLYSIS PROCESS OPTIMISATION IN RELATION TO ANAEROBIC DIGESTION Amin Malekizadeh Queensland Urban Utilities	STREAMLINING THE PRODUCTION OF ASSET MANAGEMENT PLANS (A DATA SCIENCE APPROACH) Duncan Sinclair South East Water	COMMUNITY VALUES FOR GREEN PUBLIC OPEN SPACE IN PERTH - A CHOICE MODELLING ANALYSIS Martin van Bueren Synergies Economic Consulting	WHOLE OF THE CATCHMENT COLLABORATION TO REDUCE FLOOD IMPACTS IN THE ELSTER CREEK CATCHMENT Suresh Bajracharya Melbourne Water	IMPACT OF THE INTRODUCTION OF THE MODERN SLAVERY ACT TO ASSET SUPPLY CHAINS Tina Northcott and Leeora Black Deloitte	THE ROAD FROM CHAPEL HELL TO CHAPEL HILL HEAVEN Charlene Wong Engeny Water Management Paul Sherman Queensland Urban Utilities	INTERFLOW'S SAFETY CULTURE TRANSFORMATION - THE H2O VISION Adrian Smith Interflow
140	47	17	199	342	197	205	50	
THE EFFECT OF MILD OXIDATION ON NATURAL ORGANIC MATTER REMOVAL BY COAGULATION Xiaoran (Daisy) Chu UNSW	SA WATER'S EXPERIENCE IN REDUCING STORAGE TIMES TO ACHIEVE GRADE A AND B BIOSOLIDS Alexandra Keegan SA Water	ACHIEVING MAINTENANCE EXCELLENCE AT WANNON WATER Paul Harris Marchmont Hill Consulting Ian Bail Wannon Water	DEMONSTRATING CUSTOMER WILLINGNESS TO PAY FOR DISCRETIONARY ENVIRONMENTAL AND LIVEABILITY SERVICES Emma Turner Hunter Water Corporation Jeremy Cheesman Marsden Jacob Associates	ELIZABETH QUAY WATER AND ENVIRONMENTAL MANAGEMENT Carl Davies RPS	SOCIAL PROCUREMENT FRAMEWORK DRIVING VALUE AND CHALLENGES OF MODERN SLAVERY LEGISLATION ON THE TENDER PROCESS Leanne Hill Melbourne Water	AN INNOVATIVE APPROACH FOR TARGETED THM REDUCTION WITHIN THE DISTRIBUTION NETWORK Claire Kolokas and David Cook SA Water	COLLABORATING FOR A SAFE WORK ENVIRONMENT - HOW SOUTH EAST WATER IS WORKING WITH URBAN UTILITIES IN CREATING A SAFER WORKING ENVIRONMENT Kashif Azhar and Angela Yearsley South East Water	
385	290	458	410	91		220	85	
APPLICATION OF THE "WONDER" NEW MATERIAL GRAPHENE OXIDE IN THE WATER INDUSTRY Heriberto Bustamante Sydney Water	HYSTERESIS: THE IMPACT OF LEGACY ASSETS ON TOMORROW'S BIOSOLIDS STRATEGY Lauren Randall Hunter Water Corporation Gareth Taylor AECOM	EQUATING SERVICE LEVELS TO COST - BUILDING SUSTAINABLE FUNDING MODELS FOR POTABLE WATER MAIN SYSTEMS Frederic Blin AECOM	PATHWAYS TO A CARBON NEUTRAL WATER INDUSTRY Jurgen Thiele Calibre Professional Services	BUILDING A SUSTAINABLE CITY - INTEGRATING STORMWATER HARVESTING TO PROVIDE FLOOD PROTECTION AND WATER FOR MULTIPLE STAKEHOLDERS Michael Yule Spiire	TO BE CONFIRMED	MELBOURNE'S CHANGED DRINKING WATER QUALITY SINCE THE 1990S Carlota Rodriguez City West Water	A DEEP ISSUE: ELIMINATING CONFINED SPACE ENTRY FOR PUMP MAINTENANCE AT MAJOR PUMP STATIONS Anthony Domanti WSP/Logan Water Infrastructure Alliance	
10:30-11:15am	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	SERVICING & SUPPORTING RURAL, REMOTE AND REGIONAL AREAS	ENGAGING & WORKING WITH CUSTOMERS	PUBLIC HEALTH & COMMUNITY WELLBEING	INDUSTRY SAFETY & WELLBEING PROGRAM
	Challenges in Water Treatment	Energy Management	Asset Management Tools	Planning for an Uncertain Future	Agricultural Efficiency	Data & Smart Meters	Lead & Microplastics	
		304	230	332	228	95		
	TO BE CONFIRMED	REDUCE ELECTRICITY PRICES WITH SMARTER PLANT OPERATIONS Phillip Le RMIT University	STREAMLINED INLET WORKS PROGRAM COST ESTIMATION AND JUSTIFICATION Scott White GHD	DELIVERING WATER INFRASTRUCTURE TO MEET OUR CITIES' GROWTH: A CLASSIC CHICKEN AND EGG CONUNDRUM! Julian Briggs Aurecon	INNOVATIVE DEBRIS COLLECTION AND REMOVAL SYSTEMS FOR AN IRRIGATION CHANNEL OFFTAKE Sam Bustard GHD	LIVEABILITY, WATER CONSERVATION AND COMMUNITY BENEFIT - WATER USE IN SCHOOLS ON THE GOLD COAST Tahlia Rossi City of Gold Coast	TO BE CONFIRMED	PERSONAL SAFETY MOMENT Speaker TBA
11:15-12:45pm	276	179	114	448	452	ACCENT SPEAKER TO BE ANNOUNCED	416	ACCENT SPEAKER TO BE ANNOUNCED
	HOT STANDBY: AN OPTIMISED PRODUCTION REGIME FOR THE ADELAIDE DESALINATION PLANT Daniel Bonini SA Water Javier Artal AdelaideAqua	ACHIEVING ENERGY NEUTRALITY: SETTING A VISION AND EMPOWERING YOUR STAFF Tim Constantine Jacobs	NO MORE GUESS WORK - A RISK BASED APPROACH TO PRIORITISING SERVICE RESERVOIR INSPECTION AND MAINTENANCE Ryan Leon Yarra Valley Water	READY FOR AN UNSTEADY FUTURE - BUILDING CLIMATE RESILIENT WATER SERVICES FOR SYDNEY, AUSTRALIA Christine Turner Sydney Water	ADAPTING TECHNOLOGY TO IMPROVE FARM AUDIT OUTCOMES Cassandra Tickner-Smith Tasmanian Irrigation		THE CASE FOR CHANGE: LEAD IN DRINKING WATER FROM BRASS PLUMBING PRODUCTS Suzie Sarkis Department of Health and Human Services (VIC)	
	417	33	44	103	394	151	180	ACCENT SPEAKER TO BE ANNOUNCED
	ADDRESSING THE IMPACTS OF THE BREAKING OF THE MILLENNIUM DROUGHT ON SYDNEY'S WATER FILTRATION PLANTS A S M Mohiuddin Sydney Water	AN APPLICATION OF ENERGY SAVING OPTIMISATION TO WATER DISTRIBUTION NETWORKS Yanchang Zhao DATA61/CSIRO	POINT BREAK FOR THE WSUD ASSET WAVE Brad Dalrymple	ADAPTIVE PATHWAYS INCEPTION: ESTABLISHING CRITICAL LIMITS FOR THE MELBOURNE SEWERAGE SYSTEM Kelly Brooks and Clare McAuliffe Melbourne Water	CONNECTIONS PROJECT: ENSURING THE FUTURE PROSPERITY OF THE GOULBURN-MURRAY IRRIGATION DISTRICT (GMID) Frank Fisseler Goulburn-Murray Water Connections Project	THE NEXT GENERATION OF INTELLIGENT SYSTEM FOR URBAN WATER MANAGEMENT Khoi Nguyen Griffith University	LEAD IN THE WATER: A WATER UTILITIES RESPONSE Rachael Miller Water Corporation	
	373	265	99	387	396	163	13	473
INITIAL PERFORMANCE OF MEMBRANE AND REMINERALISATION PROCESSES FOR THE SAWS BRACKISH GROUNDWATER DESALINATION PLANT James Christopher Tetra Tech	ENERGY MANAGEMENT AT ALLWATER: OPTIMISING AND REDUCING POWER USAGE ACROSS THE BUSINESS Jennifer Dreyfus Allwater	OSDAT - OPERATIONAL SEWER DATA ANALYSIS TOOLKIT Rebecca Lockett Sydney Water Jianjia Zhang DATA61/CSIRO	SCENARIO PLANNING - TURNING SCENARIO NARRATIVES INTO AN ACTIVE PLANNING TOOL Stephen Cook CSIRO Andrew Woods Sydney Water	BOX CREEK WEIR: DRIVING EFFICIENCY FOR IRRIGATORS AND BENEFITS FOR THE ENVIRONMENT Ross Plunkett Goulburn-Murray Water Connections Project	GOING REAL TIME IN WATER CONSERVATION - OUR EXPERIENCE Sean Cohen SUEZ	LEARNINGS FROM THE FIRST DOCUMENTED DISCHARGE OF MICROPLASTIC PELLETS FROM AN AUSTRALIA SEWAGE TREATMENT PLANT Ian Bail Wannon Water	AUGMENTED REALITY - IMPROVING THE SAFETY, EFFICIENCY AND EFFECTIVENESS OF TRAINING DELIVERY Penny Griffiths IXOM	
7		272	101		73	231	376	
MT CROSBY PLANNING STRATEGY FOR A NEW COAT OF PAINT Lee Foster WSP	TO BE CONFIRMED	ADVANCED BLOKAID® - DETECTING PARTIAL BLOCKAGES AND ENABLING PROACTIVE MAINTENANCE AT SOUTH EAST WATER Charles Swain South East Water	BIG DATA AND PREDICTIVE ANALYTICS: AN INNOVATIVE APPROACH FOR THE PERTH RESIDENTIAL WATER USE STUDY Natasha Ogonowski Water Corporation	TO BE CONFIRMED	USING DATA ANALYTICS TO DRIVE CUSTOMER VALUE Paul Cranwell SA Water	CARP VIRUS RELEASE: SIMULATED IMPACTS OF DECAYING FISH ON MICROBES AND TASTE AND ODOUR COMPOUNDS Richard Carney WaterNSW	IMPROVING OPERATOR SAFETY THROUGH INNOVATIVE PRODUCT DESIGN Adrian Blinman TRILITY Group	
12:45-1:45pm	LUNCH							
1:45-2:45pm	KEYNOTE SESSION							
2:45-3:15pm	CLOSING SESSION							
3:15pm	OPTIONAL SITE TOUR							

