

| 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 ventia | EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT | EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT Schneider Electric | BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES | ENGAGING & WORKING WITH CUSTOMERS | PUBLIC HEALTH & COMMUNITY WELLBEING | A SAFE, INCLUSIVE AND INNOVATIVE WATER SECTOR PROGRAMMED | 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 Scott Gould <i>WISER Analysis</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 Valentin Moreau <i>Veolia</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 and Amy Spark <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> Livia Bonazzi <i>Western Water</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 Brad Shand & Irina Mouilleron <i>Aroona Alliance, 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 Sirisha Nekkalapu and Inderjit Batra <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 FOWLERI A DIFFERENT TYPE OF PATHOGEN AN INCREASING CLIMATE CHANGE THREAT Clara Laydon <i>Hunter H2O</i> | TO BE CONFIRMED | |
| 10:45am-12:15pm LUNCH | | | | | | | |
| 12:15-1:15pm | | | | | | | |

| | STREAM 1 | STREAM 2 | STREAM 3 | STREAM 4 | STREAM 5 | STREAM 6 | STREAM 7 | STREAM 8 |
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| | EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT ventia | EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT | EXCELLENCE IN OPERATIONS AND ASSET MANAGEMENT Schneider Electric | BUILDING SUSTAINABLE CITIES AND THRIVING COMMUNITIES | ENGAGING & WORKING WITH CUSTOMERS | PUBLIC HEALTH & COMMUNITY WELLBEING | A SAFE, INCLUSIVE AND INNOVATIVE WATER SECTOR PROGRAMMED | WSAA & AWA STREAM |
| | Pipeline Leakage and Monitoring | Water Reuse | Data Analytics | City Scale Planning | Community Collaboration | Public Health Management | Values & Inclusion | |
| | 257 | | 453 | 26 | 319 | 120 | ACCENT SPEAKER TO BE ANNOUNCED | |
| | SMART LININGS FOR LONGER PIPE LIFE Amber Robinson Water Services Association of Australia (WSAA) | TO BE CONFIRMED | 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 | 368 | 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 | EXENO: SUSTAINABLE REMOVAL OF MICROPOLLUTANTS IN MUNICIPAL WWTP EFFLUENTS WITH MOVING BED BIOFILM REACTORS Brandy Nussbaum Veolia Water Technologies | | | 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 | | |
| | 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 and Portia Branton South East Water | |
| 1:15-3:15pm | 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 Dianne Sharpe 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 | 436 | 255 | 108 | 63 | 408 | 298 | |
| | PERFORMANCE OF THE PERMANENT ACOUSTIC MONITORING SYSTEM FOR THE ADELAIDE CBD WATER NETWORK Dr Mark Stephens SA Water | IS DIRECT POTABLE REUSE A TECHNICALLY AND SOCIALLY VIABLE SAFE SOURCE OPTION FOR PERTH? Nick Turner Water Corporation | 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 | SUNRAISIA 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 | | 460 | 156 | 329 | | 315 | |
| | A REGIONAL COUNCIL'S PROACTIVE PIPELINE CONDITION ASSESSMENT PROGRAM Avneet Sethi Mackay Regional Council | TO BE CONFIRMED | OPERATIONAL ANALYTICS - THE CALCULATIONS CAN BE COMPLEX, BUT THE EXECUTION CAN BE SO SIMPLE Patrick Bonk and Jonathan Klaric 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 | INCLUSION AND DIVERSITY: SHARING OUR STORIES ACROSS THE WATER INDUSTRY Sarah Hughes WSP Bronwyn Kent SA Water | |
| 3:15-4:00pm | AFTERNOON TEA | | | | | | | |



| | STREAM 1 | STREAM 2 | STREAM 3 | STREAM 4 | STREAM 5 | STREAM 6 | STREAM 7 | STREAM 8 |
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| 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 JOHN HOLLAND | WSAA & AWA STREAM |
| 6:30-11:00pm | OZWATER'19 GALA DINNER & AUSTRALIAN WATER AWARDS (TICKET REQUIRED) | | | | | | | |