

Preliminary Program

TUESDAY, 12 MAY 2015

0830 - 1000	OPENING CEREMONY / KEYNOTE SESSION: Business of Water			
1000 - 1045	MORNING TEA			
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
1045 - 1215	<p>Asset Management</p> <p>George Charakos, Melbourne Water AUSTRALIA-WIDE PUMP ENERGY EFFICIENCY BENCHMARKING DEMONSTRATES OPPORTUNITIES FOR IMPROVEMENT</p> <p>Peter Stephens, Mott MacDonald Australia</p> <p>Susan Kitching, Aurecon Australia OPTIMISING WASTEWATER TREATMENT PLANT PERFORMANCE - SYDNEY WATER'S PROGRAM TO ASSESS PLANT CAPABILITY AND PERFORMANCE</p>	<p>Wastewater Treatment</p> <p>Michael Smith, Invent Pacific PROCESS AND AERATION OPTIMISATION USING ONLINE OFF-GAS ANALYSIS</p> <p>Jack Ryl, Organica Water UPGRADE OF A CONVENTIONAL ACTIVATED SLUDGE SYSTEM TO A BIOFILM BASED TREATMENT SYSTEM</p> <p>Marina Armiados Orts, Acciona Agua SA FULL-SCALE FEASIBILITY OF THE FO-MBR PROCESS FOR WASTEWATER RECLAMATION</p>	<p>Future Planning for Liveable Cities</p> <p>Daniel Lambert, Arup THE FUTURE OF URBAN WATER: SCENARIOS FOR URBAN WATER UTILITIES IN 2040</p> <p>Kate Lanskey, Seqwater DEVELOPING SOUTH EAST QUEENSLAND'S WATER SECURITY PROGRAM</p> <p>Nicole Sexton, Barwon Water and Shelly Taylor, City of Greater Geelong URBAN WATER CYCLE PLANNING GUIDE</p>	<p>Education - Schools, Community, Industry</p> <p>David Coombe, SA Water THE BENEFITS OF A POWERFUL COMMUNITY EDUCATION PROGRAM</p> <p>Judy Bailey, Unitywater TOILET ART CHANGING COMMUNITIES</p> <p>Les Walker, Department of Environment & Primary Industries PROGRAM - ASSESSMENT OF DATA LOGGING TECHNOLOGY IN VICTORIAN SCHOOLS</p>
1215 - 1315	LUNCH			
1315 - 1515	<p>Asset Management</p> <p>Keng Han Tng, University of NSW APPLYING RESILIENCE MODELLING TOOLS TO THE DESIGN OF MEMBRANE PLANTS FOR PATHOGEN REMOVAL</p> <p>Neil Hart, Sydney Water Corporation MODERN MOBILE WORKFORCE (MEET AND BEAT THE MARKET)</p> <p>Simon Slow, South East Water ENHANCING TREATMENT PLANT RESILIENCE USING RELIABILITY BLOCK DIAGRAM MODELLING</p> <p>JC Schrotter, Isle Utilities INNOVATIVE TECHNOLOGIES IMPLEMENTATION WITH COLLABORATIVE TRIALS: THE ELECTROSCAN PROJECT</p>	<p>Water Treatment</p> <p>Nicole Hughes, TRILITY MIXED LIQUOR SCREENING TO PREVENT FOULING IN A MEMBRANE BIOREACTOR WASTEWATER TREATMENT PLANT</p> <p>David Waite, University of NSW OPTIMISATION OF NUTRIENT REMOVAL, MEMBRANE FOULING AND RESOURCE RECOVERY IN SUBMERGED MEMBRANE BIOREACTOR TREATMENT OF WASTEWATERS</p> <p>Michael Thomas, Unitywater SONICATED SLUDGE AS CARBON SOURCE FOR DENITRIFICATION</p> <p>Monita Naicker, Aquatec Maxcon Pty Ltd AEROBIC GRANULAR SLUDGE 'NEREDA' TECHNOLOGY APPLICATIONS</p>	<p>Integrating Wastewater for Liveable Cities</p> <p>Gwyneth Elsum, Melbourne Water SHAPING THE FUTURE: A CASE STUDY IN REIMAGING WASTEWATER TREATMENT PLANTS</p> <p>Shafiqul Hassan, Sydney Water Corporation EVALUATING THE ENVIRONMENTAL BENEFITS OF NEW WASTEWATER SCHEMES ON SYDNEY'S OUTSKIRTS</p> <p>David de Haas, GHD Pty Ltd BENCHMARKING WASTEWATER TREATMENT PLANT ENERGY USE IN AUSTRALIA</p> <p>Chris O'Neill, Hydronumerics MODELLING THE FATE AND TRANSPORT OF SEWAGE DISCHARGE IN THE MARIBYRNONG RIVER, VICTORIA</p>	<p>Community Engagement</p> <p>Aaron Seaman, Allwater IMPROVING CUSTOMER SATISFACTION THROUGH DISPATCH EFFICIENCY</p> <p>Graeme Jenner, BECA USING THE RESULTS OF QUANTITATIVE MICROBIAL RISK ASSESSMENT TO GAIN COMMUNITY ACCEPTANCE FOR WASTEWATER OUTFALLS - A CASE STUDY AT PICTON NZ</p> <p>Rebecca Snell, Gippsland Water SMALL TOWNS, MAJOR PROGRESS</p> <p>Chris Young, Degremont ACHIEVING 3,000 LTI FREE DAYS AT THE PERTH SEAWATER DESALINATION PLANT</p>
1515 - 1600	AFTERNOON TEA			
	Asset Management	Water Treatment	Integrated Urban Water Management for Liveable Cities	Climate Change & Water Security
	<p>John Everton, ALS Industrial RISK BASED INSPECTION OF AGING PUMP-STATION PIPEWORK</p> <p>Yang Wang, NICTA PRIORITISING WATER PIPES FOR CONDITION ASSESSMENT WITH DATA ANALYTICS</p> <p>Alan Mackintosh, Kellogg Brown & Root Pty Ltd PMP SOLUTIONS: A CASE-STUDY OF USING A CULTURAL FRAMEWORK TO IMPROVE BUSINESS EFFICIENCY IN ASSET DELIVERY</p>	<p>Tim Muster, CSIRO PHOSPHORUS RECOVERY FROM DAIRY WASTEWATER: A PILOT TRIAL</p> <p>Rickey Donald, Unitywater PERFORMANCE TESTING OF TWO-TRAIN MBR USING UNEVEN FLOW SPLITTING</p> <p>Ben van den Akker, SA Water USE OF GRANULAR SLUDGE TO INCREASE THE CAPACITY OF SEQUENCING BATCH REACTORS</p>	<p>James Westcott, South East Water INTEGRATED WATER FOR CASEY CLYDE</p> <p>Celeste Morgan, E2Designlab and Anna May, Western Water DELIVERING INTEGRATED OUTCOMES IN PARTNERSHIP: A WHOLE-OF-WATER-CYCLE STRATEGY FOR GROWTH AREAS IN SUNBURY</p> <p>Reneae Kidson, University of California, Santa Cruz LONG-RUN PERSISTENCE IN RESERVOIR INFLOWS: EMPIRICAL MODE DECOMPOSITION IN SYDNEY AND MELBOURNE</p>	<p>Leon van der Linden, SA Water DOWNSCALED CLIMATE DATA FOR PROJECTING CLIMATE CHANGE IMPACTS ON RESERVOIRS</p> <p>Timothy Purves, ACTEW Water THE TRADE-OFF BETWEEN WATER SECURITY AND COST</p> <p>Andrew Wilkins, SA Water ASSESSING CLIMATE FUTURES: A CASE STUDY</p>
1730 - 1830	HAPPY HOUR AT THE CLUBHOUSE IN EXHIBITION HALL			

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	MORNING TEA		
	ROOM 5	ROOM 6	ROOM 7
	<p>Servicing Remote and Regional Communities</p> <p>Nanda Altavilla, NSW Office of Water MEETING THE CHALLENGES IN APPLYING THE AUSTRALIAN GUIDELINES FOR WATER RECYCLING FOR REGIONAL NSW</p> <p>Sallyanne Bartlett, Water Q Plus Pty Ltd TAKING A NEW APPROACH TO HACCPC FOR REMOTE AND REGIONAL REUSE SCHEMES</p> <p>Nicholas Milne, Victoria University DECENTRALISED TREATMENT SOLUTIONS FOR REGIONAL AND REMOTE WATER SUPPLIES AND WASTEWATER</p>	<p>Industrial Water Management & Technical Innovations</p> <p>Eamon Casey, South East Water PRESSURE SEWER VS. GRAVITY SEWER: A CASE STUDY</p> <p>Josef Cesca, CH2M Hill SOUTH AUSTRALIA WATER CORPORATION - PRO-ACTIVE SEWER CORROSION AND ODOUR MANAGEMENT STRATEGY DEVELOPMENT</p> <p>Adrian Malyon, Sydney Water Corporation TRADE WASTE COMPOUND DETECTION AND SEWER PROCESS MODELLING USING ONLINE, IN-SITU SPECTROSCOPY</p>	<p>Anaflo Pty Ltd presents:</p> <p>MONITORING DRINKING WATER DISTRIBUTION SYSTEMS FROM SOURCE TO TAP - CURRENT STATUS, PRACTICAL OPTIONS AND THE WAY FORWARD</p> <p>Chair: Roger O'Halloran, Anaflo Pty Ltd</p> <p>Recent developments in sensors and communications are transforming the way in which drinking water systems can be characterised and managed. Instead of relying on disconnected observations, an integrated approach is now possible that can look at the whole water system. The workshop will discuss current best practice and emerging technologies and involve participants in mapping out ways to implement holistically-monitored water systems.</p> <p><i>Further details available on page 14</i></p>
	LUNCH		
	<p>Servicing Remote Communities</p> <p>Cara Beal, Smart Water Research Centre, Griffith University SECURING THE ESSENTIAL: ASSISTING ISOLATED COMMUNITIES TO SUSTAINABLY MANAGE THEIR WATER AND ENERGY SUPPLIES</p> <p>Eddie Banks, Flinders University SECURING WATER SUPPLIES FOR THE REMOTE ABORIGINAL COMMUNITY OF MILINGIMBI ISLAND, NT</p> <p>Stephen Gray, Institute for Sustainability and Innovation, Victoria University ROBUST WATER RECYCLING PLANT FOR THE ANTARCTIC</p> <p>Adam Medlock, Trility SUCCESSFUL OPERATION OF VARYING TREATMENT PROCESSES WITHIN A SINGLE OPERATIONS TEAM</p>	<p>Industrial Water Management & Technical Innovations</p> <p>Romain Lemaire, Veolia Water MAINSTREAM DEAMMONIFICATION WITH ANITA MOX PROCESS</p> <p>Bruce Johnson, CH2M Hill OPERATING EXPERIENCE OF NORTH AMERICA'S FIRST POST AEROBIC DIGESTION FOR NITROGEN REMOVAL AND BIOSOLIDS REDUCTION</p> <p>Rhys Anderson, Arup FIREFIGHTING WASTEWATER TREATMENT UTILISING POWDERED ACTIVATED CARBON AND CERAMIC MEMBRANES</p> <p>Stacey Hamilton, Water Corporation OPERATIONAL LEARNINGS FROM MEMBRANE BIOFOULING OF A GROUNDWATER REPLENISHMENT SCHEME</p>	<p>Water Futures presents:</p> <p>WSAA and NHMRC GUIDELINES FOR USING HEALTH-BASED TARGETS TO SET REQUIREMENTS FOR DRINKING WATER TREATMENT</p> <p>Chair: Dan Deere, Water Futures</p> <p>The purpose of this workshop is to provide practical training and problem solving support in the use of a Healthbased Targets (HBT) approach for setting requirements for drinking water treatment. The approach has been developed by the Water Services Association of Australia (WSAA) and National Health and Medical Research Council (NHMRC) working groups over the past few years. The WSAA document provides a model for meeting HBT within water utilities and has been developed by the HBT Working Group (WG). The NHMRC document provides a discussion relating to setting treatment requirements within the Australian Drinking Water Guidelines and has been developed by the Water Quality Advisory Committee (WQAC).</p> <p><i>Further details available on page 14</i></p>
	AFTERNOON TEA		
	<p>Challenges and Opportunities for Rural, Remote & Regional Communities</p> <p>Taslam Hasan, Viridis Consultants OVERCOMING WATER SUPPLY CHALLENGES IN PARKES REGIONAL COMMUNITY</p> <p>Steven Reddington, Barwon Water SUSTAINABLE WATER SUPPLIES IN UN-SERVICED HOLIDAY HAMLETS</p> <p>Mark Williams, GWM Water SERVICING REMOTE COMMUNITIES PRICING OF WATER FOR RECREATION</p>	<p>Industrial Water Management & Technical Innovations</p> <p>Asoka Jayaratne, Yarra Valley Water REAL TIME MONITORING FOR CROSS CONNECTION DETECTION</p> <p>Emily Crosbie, Yarra Valley Water THE PERFORMANCE OF 'ICE PIGGING'</p> <p>Thomas Getting, Xylem Water Solutions USA THE SYNERGISTIC EFFECTS OF DESIGNING OZONE WITH A BIOLOGICALLY ACTIVE FILTER</p>	<p>Australian Water Recycling Centre of Excellence presents:</p> <p>AUSTRALIA'S VALIDATION FRAMEWORK; THE PATH FROM DEVELOPMENT TO IMPLEMENTATION</p> <p>Chair: Mark O'Donohue, AWRCoE</p> <p>Currently, recycled water scheme validation within Australia is slower, more complex and more costly than it needs to be. The Australian Water Recycling Centre of Excellence is working with regulators, utilities and industry to establish a nationally consistent approach to technology validation.</p> <p>The workshop will provide information on development of protocols for the validation of treatment processes and the implementation of a national framework. In conjunction with this, targeted research programs are focussing on well-known and scientifically-robust treatment technologies to develop a set of protocols that can readily gain industry acceptance.</p> <p>The workshop will bring together health regulators, policy makers, water service providers and industry participants to present an overview of the history and future of the National Validation Framework.</p> <p><i>Further details available on page 14</i></p>
	HAPPY HOUR AT THE CLUBHOUSE IN EXHIBITION HALL		

Preliminary Program

WEDNESDAY, 13 MAY 2015

0830 - 1000	KEYNOTE SESSION: Water : The Economic Driver			
1000 - 1045	MORNING TEA			
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
1045 - 1215	Wastewater Treatment Jennifer Dreyfus, Allwater ANAEROBIC DIGESTION AND POWER GENERATION: THE SUCCESS OF THE CO-DIGESTION PLANT AT GLENELG WWTP Greg Offer, BECA Pty Ltd EARTHQUAKE REPAIRS AT CHRISTCHURCH WASTEWATER TREATMENT PLANT. LESSONS FOR RESILIENCE Michael Corena, SA Water ENERGY BENCHMARKING OF WASTEWATER TREATMENT PLANTS - SA WATER'S EXPERIENCE	Water Treatment Con Pelekani, SA Water OPTIMISATION OF GRANULAR MEDIA FILTRATION: IMPACT OF SETTLED WATER QUALITY AND CHEMICAL ADDITION Aaron Canning, Seqwater VALIDATION OF FREE CHLORINE DISINFECTION STANDARD FOR DRINKING WATER TREATMENT Daniel Bonini, SA Water EVALUATION OF TECHNIQUES TO CONTROL FILTER RIPENING TURBIDITY SPIKES AT SOUTH AUSTRALIAN WATER FILTRATION PLANTS	Water Markets and Entitlements for Rural, Remote & Regional Communities Louise Barth, Aither WATER ENTITLEMENT MANAGEMENT - ADDRESSING CHALLENGES AND EXPLORING OPPORTUNITIES IN REGIONAL COMMUNITIES Nigel Binney, GWM Water WIMMERA-MALLEE BULK AND ENVIRONMENTAL ENTITLEMENTS OPERATIONS REVIEW Alister Walsh, Waterfind WATER MARKET STRATEGY: ALIGNMENT OF THE IRRIGATION UTILITIES AND THE ENVIRONMENT	Waterways - Mining, Resources, Power & Liveable Cities Dewi Tjia, Curtin University ANTS.D0 HISTORY MATCHING IN HYDROLOGY Ryan Brocthie, GHD Pty Ltd WESTERN REGIONAL WATER BALANCE Andrew O'Neill, Water by Design, Healthy Waterways LIVING WATERWAYS
1215 - 1315	LUNCH			
1315 - 1515	Asset Management Shihu Hu, The University of Queensland PILOT-SCALE DEMONSTRATION OF ANITA MOX PROCESS FOR SIDESTREAM DEAMMONIFICATION Robyn Bray, Sydney Water Corporation BIOLOGICAL AND CHEMICAL PHOSPHORUS REMOVAL - OPERATIONAL EXPERIENCE AND OPTIMISATION IN WASTEWATER TREATMENT PLANTS Peter Griffiths, CH2M HILL BIOLOGICAL PHOSPHORUS REMOVAL IN AUSTRALIA: WHERE HAS IT BEEN, WHERE IS IT GOING Hannah Walmsley, GHD Pty Ltd GOING THE DISTANCE: PRIMARY SLUDGE PUMPING	Water Treatment Emma Sawade, SA Water HOW CAN YOUR WATER QUALITY AFFECT YOUR BIOLOGICAL FILTRATION EFFICIENCY? Jesus Ortiz Mingo, Acciona Agua ADVANCED FILTRATION TREATMENT FOR DRINKING WATER Michael Holmes, SA Water AN EVALUATION OF ZETA POTENTIAL MEASUREMENT FOR WATER TREATMENT COAGULATION CONTROL	Servicing and Partnerships for Rural, Remote & Regional Communities Ros Griggs and Philippe du Plessis, South Gippsland Water PROVIDING SEWERAGE TO THREE SMALL RURAL TOWNSHIPS - A JOURNEY OVER EIGHT YEARS Amanda Caunt, Aqwest COMPARISON OF REGIONAL URBAN WATER UTILITY STRUCTURES IN SOUTH WEST WESTERN AUSTRALIA Kirsten Shelley, Department of Energy & Water Supply QUEENSLANDS NEW WATER SECURITY PARTNERSHIPS	Energy - Water for Liveable Cities Jonathan Yu, CSIRO PROTOCOLS TO INTEGRATE URBAN WATER DATA WITH ENERGY AND OTHER URBAN SECTORS WITHIN AURIN Matthew Brennan, Tenix AUSTRALIA'S FIRST INFRASTRUCTURE RATING DELIVERS REAL BENEFITS Alex Sanbrook and Greg Appleby, Sydney Water Corporation IS THERE VALUE IN COGENERATION? Corinna Doolan and Robert Crissani, Sydney Water Corporation SMART GRID SMART CITY - CHALLENGES FOR INTEGRATING SMART WATER METERS
1515 - 1600	AFTERNOON TEA			
1600 - 1730	Industrial Water Management & Technical Innovations James Howey, Viridis Consultants Pty Ltd LEAN SIX SIGMA APPLICATION TO WATER UTILITIES: GETTING VALUE FOR MONEY OUT OF WATER QUALITY MONITORING Heath Miles, South East Water PRESSURE AND FLOW REPORT AUTOMATION PROJECT Roberto Mascarenhas, Pure Technologies and Jonathan Farrell, Queensland Urban Utilities ASSESSMENT OF CRITICAL SEWER PRESSURE MAINS: A TECHNOLOGY DRIVEN APPROACH TO RISK BASED ASSET MANAGEMENT	Water Treatment Mark Crabtree and Mark Angles, Sydney Water Corporation IMPLEMENTATION OF A CATCHMENT TO TAP RISK ASSESSMENT TO ENSURE EFFECTIVE DRINKING WATER MANAGEMENT FOR SYDNEY Geoff Du Toit, Sydney South Africa BIOLOGICAL FILTRATION FOR SUSTAINABLE TREATMENT OF GROUNDWATER WITH HIGH IRON CONTENT - A CASE STUDY Antony Gibson, Orica FIRST INSTALLATIONS OF THE NOVEL MICO CO-REMOVAL WATER TREATMENT PROCESS	Climate Change and Risk Annalisa Contos, Atom Consulting HUMAN FACTORS AND PREVENTIVE RISK MANAGEMENT IN THE WATER INDUSTRY Meredith Gibbs, Ashurst Lawyers RESPONDING TO CLIMATE CHANGE: MANAGING YOUR PROFESSIONAL LIABILITY RISK JungHwa Lee, SMEC LOSS OF LIFE STUDY CAUSED BY DAM FAILURE: GLENNIES CREEK DAM CASE STUDY	Liveability Michael O'Neill, Arup PRESSURE MANAGEMENT IN ADELAIDE METROPOLITAN NETWORK - FEASIBILITY STUDY Kaia Hodge, Sydney Water Corporation THE ROLE OF THE URBAN WATER INDUSTRY IN CONTRIBUTING TO LIVEABILITY Dimitry Lynas, Seqwater COLLABORATIVE DEMAND MANAGEMENT IN SOUTH EAST QUEENSLAND

Please note: This program is preliminary and subject to change without notice. Refer to ozwater.org for program updates.

MORNING TEA			
ROOM 5	ROOM 6	ROOM 7	ROOM 8
Operations Arash Zamyadi, University of NSW FLUORESCENCE PROBES FOR REAL-TIME MANAGEMENT OF CYANOBACTERIAL BLOOMS IN DRINKING WATER SOURCES Heur Merrett, Water Corporation CATCHMENT SURVEILLANCE: USE OF THE ADWG OBSERVATIONAL MONITORING APPROACH Helen Beard, Allwater ISO 50001: SO WHAT'S IT ALL ABOUT?	Irrigation Solutions for Agriculture & Viticulture Edgar Johnson, GHD Pty Ltd. INNOVATIVE IRRIGATION PIPELINE LOSS MODEL Craig Heidenreich, Water Utilities Group SUSTAINABLE WATER SOLUTIONS IN THE MCLAREN VALE WINE REGION David Carshalton, BECA Pty Ltd A CASE STUDY OF HOW IRRIGATION SCHEMES IN NEW ZEALAND ARE EVOLVING TO MEET CHANGES IN FARMING PRACTISE AND REGULATION	BECA Pty Ltd presents: THE ROAD TO SOPHISTICATED OPERATING ENVIRONMENT THROUGH PEOPLE, PROCESSES AND SYSTEMS Chair: Paul Collier, BECA Pty Ltd The workshop will look at the lifecycle of the business operating model and discuss smart things that are happening in terms of business performance in the areas of people, processes, systems and tools. Workshop presenters will include representatives from industry, the water sector, and operations, maintenance and facilities management providers. The intended audience is those involved with, or who have an interest in, operations, management, business improvement, people and culture. <i>Further details available on page 15</i>	Australian Water Association presents: REGULATORS FORUM The Regulators Forum will bring together economic, health and environment regulators from across all states and territories to discuss the process for improved harmonisation of regulation. In this Forum the variations across each state will be outlined, with a focus on the potential ramifications of these variances. This will be followed by a session on what needs to be done to improve harmonisation to deliver better outcomes for customers. <i>Further details available on page 15</i>
LUNCH			
Operations Martin Byrnes and Andrzej Krawiec, Sydney Water Corporation OPTIMISING SEWAGE PUMPING STATION PERFORMANCE Mark McGowan, Sydney Water Corporation USING OPERATIONAL INTELLIGENCE TO MANAGE CUSTOMER WATER QUALITY IMPACTS Duncan Middleton, Seqwater COST EFFICIENCY REVIEW OF THE SEQWATER WATER QUALITY MONITORING PROGRAM Rolando Fabris, SA Water ASSESSING THE IMPACT OF TREATED WATER QUALITY ON DEPOSITION WITHIN PILOT DISTRIBUTION SYSTEMS	Management of Water in Food and Beverage Processing Bernice Chapman, ADI Systems Asia Pacific MBR AND RO TREATMENT OF DAIRY WASTEWATER: INDUSTRIAL WATER RECYCLING OPPORTUNITIES Mitchell Laginestra, GHD Pty Ltd LOW OPERATING COST WASTEWATER TREATMENT TECHNOLOGIES FOR RED MEAT AND OTHER INDUSTRIES Karen Pither, Viridis Consultants Pty Ltd INVESTIGATION OF RISK BASED RELEASE CRITERIA FOR THE REUSE OF TREATED ABATTOIR WASTEWATER WITH RESPECT TO Q FEVER Alice Antony, University of NSW RECOVERY OF POTASSIUM FROM DUNDER USING DIFFERENT MEMBRANE OPTIONS	National Centre for Groundwater Research & Training (NCGRT) presents: DRILLING INTO THE FUTURE OF UNCONVENTIONAL GAS Chair: Fiona Adamson, NCGRT This panel discussion will provide delegates with an understanding of the current state of play within the Australian Unconventional Gas industry. Current opportunities, challenges and issues will be presented by key industry experts, regulators and researchers who will address both the technical and social aspects of gas exploration and production. <i>Further details available on page 15</i>	Water Services Association of Australia (WSAA) presents: UTILITIES, CUSTOMERS AND THE DIGITAL AGE Chair: Sandi Kolbe, WSAA The challenges for urban water utilities in the digital age are many as they seek to improve service, keep costs low and keep customers satisfied. The workshop will focus on how utilities engage with their customers in the digital age, starting with the state of play in the urban water industry covering how it currently engages and measures Customer value. The stream will also include case studies from other industries that are leading customer engagement and have effectively moved with their customers into the digital age. Plus a look to the future and what could be over the horizon in terms of customer engagement and management <i>Further details available on page 16</i>
AFTERNOON TEA			
Operations Aude Fumex, Allwater JV PRESSURE MANAGEMENT IN ADELAIDE METROPOLITAN NETWORK - FEASIBILITY STUDY Haris Piniidiya, Sydney Water Corporation COST EFFECTIVE APPROACHES FOR DAM ASSET MANAGEMENT Matthew Tynkynen, Yarra Valley Water PRESSURE MONITORING IN SEWERAGE RISING MAINS	Australian Water Association presents: WATER AND AUSTRALIAN AGRICULTURES EXPORT FUTURE WORKSHOP Victorian Intelligent Water Network presents: COLLABORATING TO INNOVATE AND RISK SHARE CHANGING THE STATUS QUO OF THE WATER INDUSTRY Chair: Neil Brennan, Victorian Intelligent Water Network As technology evolves the water industry has opportunities to optimise assets to add value for customers and improve service delivery. The IWN Program continues to undertake new trials, implementing successful innovations as business as usual to obtain efficiencies. This workshop is an interactive session for participants to influence and explore key business problems the industry should target to continue to implement innovations. Case studies will be presented, highlighting how collaboration has been used in the Victorian water industry to the benefit of all businesses. <i>Further details available on page 15</i>	CSIRO & Australian Water Recycling Centre of Excellence present: ECONOMIC VIABILITY OF RECYCLED WATER FOR MANAGED AQUIFER RECHARGE Chair: Joanne Vanderzalm, CSIRO This workshop will present case studies of water recycling via managed aquifer recharge, using well injection and infiltration techniques for potable and non-potables end-uses. Participants will learn about the economics of MAR for water recycling, from trials and investigations to full-scale operation. Presentations and group discussion will discuss financial barriers and opportunities of recycled water for aquifer recharge. Participants will share experiences and contribute to a web-based practical guide to water recycling via MAR. <i>Further details available on page 16</i>	

Preliminary Program

THURSDAY, 14 MAY 2015

	ROOM 1	ROOM 2	ROOM 3
0830 – 1000	Biosolids & Residuals Management	Utilising Big Data & Analytics for Technology, Operations & Asset Management	Water Recycling
	Gokul Bharambe, CH2M HILL ANAEROBIC DIGESTION WITH RECUPERATIVE THICKENING MINIMISES BIOSOLIDS QUANTITIES AND ODOURS IN SYDNEY, AUSTRALIA	Peter Prevos, Coliban Water VISUALISING WATER QUALITY: A GRAPHICAL INDEX FOR DRINKING WATER: SYSTEM PERFORMANCE	Brendon King, SA Water INACTIVATION OF CRYPTOSPORIDIUM ACROSS THE WASTEWATER TREATMENT TRAIN: RECYCLED WATER FIT FOR PURPOSE
	Long Nghiem, University of Wollongong RECUPERATIVE THICKENING: RESEARCH ON A POSSIBLE TOOL TO IMPROVE ANAEROBIC DIGESTION OF WASTEWATER SLUDGE	Matthew Bower, Unity Water DEVELOPMENT OF A DEMAND MODELLER AND TRACKING TOOL	Amos Branch, University of NSW CHEMICAL CLEANING IN MEMBRANE BIOREACTORS, IMPLICATIONS FOR ACCREDITATION IN WATER RECYCLING.
	Sriharini Chellappan, The University of Melbourne IMPLEMENTATION OF 'DRY STACKING' OPERATION IN WASTEWATER TREATMENT SLUDGE DRYING PANS	Mary-Ellen Feeney, Jacobs Australia TREE ROOT DAMAGE RISK ON IN GROUND ASSETS - SPATIAL ANALYSIS USING TREE CANOPY MAPPING	Mayumi Allinson, University of Melbourne A SIMPLIFIED BUT EXTENSIVE ORGANIC MICRO-CONTAMINANT ASSESSMENT METHOD FOR RECYCLED WATER
1000 – 1045	MORNING TEA		
1045 – 1215	Biosolids & Residuals Management	Stormwater Management	Membranes & Desalination
	Duncan Taylor, GHD Pty Ltd OPTIMISING RECUPERATIVE THICKENING SYSTEM DESIGN: MALABAR WWTP UPGRADE	Petra Reeve, SA Water QUANTIFYING WATER QUALITY CHARACTERISTICS OF STORMWATER	Felicity Roddick, RMIT University FEEDWATER PRE-TREATMENT WITH UV/H ₂ O ₂ TO MITIGATE THE FOULING OF A CERAMIC MF MEMBRANE CAUSED BY ALGAL ORGANIC MATTER
	Rachael Aganetti, Victoria University A MATHEMATICAL MODEL OF THE SELF-HEATING OF STORED BIOSOLIDS	Luke Sutherland, DCM Process Control Ltd. THE USE OF RAIN RADAR MEASUREMENTS FOR HYDRAULIC MODELING	Yuan Wang, University of NSW APPLICATION OF COMPUTATIONAL FLUID DYNAMICS TO OPTIMISE MEMBRANE MODULE CONFIGURATIONS IN SUBMERGED MEMBRANE BIOREACTORS
	Samual Skinner, University of Melbourne QUANTITATIVE COMPARISON OF WASTEWATER SLUDGE DEWATERABILITY - A CASE STUDY	Faisal Ahammed, University of South Australia STORMWATER QUANTITY CONTROL USING RAINWATER HARVESTING SYSTEMS IN DHAKA CITY, BANGLADESH	Tim O'Connor, KBR Pty Ltd MEMBRANE BIOREACTOR TRASH CONCENTRATIONS AT CHRISTIES BEACH WASTEWATER TREATMENT PLANT
1215 – 1315	LUNCH		
1315 – 1415	PLENARY PANEL SESSION: SHAPING A CUSTOMER DRIVEN ORGANISATION IN AN ENGINEERING DOMINATED INDUSTRY Panel Speakers: <ul style="list-style-type: none"> • John Ringham, Chief Executive, SA Water Corporation • Kevin Young, Managing Director, Sydney Water Corporation • Pat McCafferty, Managing Director, Yarra Valley Water 		
1415 – 1500	CLOSING SESSION		
1500 – 1600	CLOSING DRINKS		

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ROOM 4	ROOM 5	ROOM 7
Water for Mining, Resources & Power	Private Sector Management & Operation	SA Water presents:
Veronique Bonnelly, Degremont ACID MINE DRAINAGE: CASE STUDY OF ONE OF THE LARGEST COPPER MINE SITES IN THE WORLD	Annelise Avri, Allwater and Mark Gobbie, SA Water ADELAIDE SERVICES ALLIANCE	HOW DO WE IMPROVE CUSTOMER PERCEPTIONS OF DRINKING WATER QUALITY Chair: Gayle Newcombe, SA Water The workshop will discuss public perceptions of drinking water quality within Australia and elsewhere and how they are assessed and addressed across the industry. Case studies will be presented that include online and contact phone surveys, focus groups, public and community engagement events and social media mining. An interactive session will discuss the information each method revealed, how it can be used to better understand what our customers want and to develop engagement strategies that will result in improved customer understanding of issues around water quality and safety, and ultimately an improvement in industry reputation and customer satisfaction with water quality. <i>Further details available on page 16</i>
Alex Lane, CH2M HILL INSIGHTS FOR SHALE GAS WATER MANAGEMENT IN THE COOPER BASIN: LESSONS FROM THE US, EUROPE AND ASIA PACIFIC	Michael Waymark, Programmed Facility Management and Matthew Geisemann, City West Water LONG-TERM PRIVATE SECTOR ALLIANCE IN A REGULATED WATER INDUSTRY	
Alfonso Perez, RPS Aquaterra REUSE AND DISPOSAL OPTIONS FOR CSG PRODUCED WATER: THE GLOUCESTER GAS PROJECT, NSW	Stewart Marshall, Kellogg Brown & Root PRACTICAL IMPROVEMENT IN PROCUREMENT PROGRAM DELIVERY IN THE SOUTH AUSTRALIAN WATER INDUSTRY	
MORNING TEA		
Water for Mining, Resources & Power	Governance & Water Reform	Australian Water Recycling Centre of Excellence present:
Stephanie Neitzel, WaterRich Advisors WATER QUALITY REGULATIONS FOR NATURAL GAS PRODUCTION, UNITED STATES AND AUSTRALIA COMPARISON	Phillip Dixon, Sydney Water Corporation ENHANCING INCENTIVE REGULATION IN THE NSW URBAN WATER SECTOR	MAKING INNOVATION ACCESSIBLE TO REGIONAL & REMOTE URBAN COMMUNITIES Chair: Greg Oliver, AWRCoe Barriers to greater implementation of cost effective water cycle management in regional and remote urban communities are created by the availability and affordability of new technologies, overly complex or duplicating regulatory practices and insufficient economic assessment. Specifically in regard to water recycling (of all forms) (but more widely applicable to other water solutions), the AWRCoe has invested in projects and programs of work to have impact in addressing practical solutions in these three key areas. Drawing upon real-world projects and trials, and government investment and innovation programs, this workshop will examine these three key themes and offer practical demonstration of new solutions and pathways for wider national implementation in regional and remote urban communities. <i>Further details available on page 16</i>
Brendan Murray, Orica Watercare WAIV TECHNOLOGY - ALTERNATIVE SOLUTION FOR BRINE MANAGEMENT	Melita Stevens, Melbourne Water EARNED AUTONOMY - INNOVATIVE ENVIRONMENTAL REGULATION?	
Ian Fergus, WorleyParsons DESALINATION AND THE CHALLENGE FOR THE AUSTRALIAN COAL SEAM GAS INDUSTRY DEVELOP AN INNOVATIVE, SUSTAINABLE AND HOLISTIC BRINE MANAGEMENT SOLUTION	Kate Berg, Western Water WATER QUALITY OFFSETS FRAMEWORK: AN INNOVATION IN WATERWAY REGULATION	