

Efficient2009 Conference Program - Monday 26 October 2009

0900-1030	Opening Ceremony and Keynote Session (AUDITORIUM) - Chair: Stuart White			
0900-0910	Welcome to country			
0910-0920	Welcome address - Francisco Cubillo Canal de Isabel II SPAIN			
0920-0930	Opening address - Stuart White Institute of Sustainable Futures, AUSTRALIA			
0930-1000	K01 Kerry Schott - Managing Director Sydney Water, AUSTRALIA			
1000-1030	K02 Mary Ann Dickinson - Alliance for Water Efficiency, USA			
1030-1100	Morning Tea			
	AUDITORIUM	PARKSIDE 110A	PARKSIDE 110B	G04
1100-1300	Session 1: Integrated resource planning and best practice decision making Chair: Russell Beatty	Session 2: Demand management program design and implementation Chair: John Brennan	Session 3: Education, community engagement and behavioural change Chair: Julian Gray	Session 4: Non revenue water management Chair: Kelvin O'Halloran
	001 Thomas Chesnutt, A & N Technical Services, ENCINITAS, USA. TRANSFORMING WATER: WATER EFFICIENCY AS STIMULUS AND LONG-TERM INVESTMENT	005 John Eames, Sydney Water, SYDNEY, AUSTRALIA. ENSURING WATER DEMAND MANAGEMENT PROGRAMS FOR BUSINESS ARE RELEVANT, FLEXIBLE AND EFFECTIVE	009 Setta Tutundjian, United States, Agency for International Development, AMMAN, JORDAN. ENGAGING COMMUNITY ACTION FOR EFFICIENT WATER MANAGEMENT	013 Roland Liemberger, Miya, MANILLA, PHILIPPINES. EMBARCKING ON THE WORLD'S LARGEST NON-REVENUE WATER MANAGEMENT PROJECT
	002 Simon Fane, Institute For Sustainable Futures, BROADWAY, AUSTRALIA. INTEGRATED RESOURCE PLANNING IN THE CONTEXT OF CLIMATE UNCERTAINTY	006 Francisco Cubillo, Canal de Isabel II, MADRID, SPAIN. RESEARCH ON POTENTIAL WATER EFFICIENCY WITH THE USE OF HOUSEHOLD DISHWASHERS	010 Peter Guttmann, Department of Sustainability and Environment, EAST MELBOURNE, AUSTRALIA. WATERSMART-GOVERNMENT, WATER CORPORATIONS AND HOUSEHOLDERS WORKING TOGETHER TO BE SMARTER WITH WATER	014 Jim Boubouras, LGIS (Local Government Infrastructure Services), BRISBANE, AUSTRALIA. PRESSURE AND LEAKAGE MANAGEMENT IN SE QUEENSLAND – AN OVERVIEW OF THE LESSONS LEARNED FROM A REGION-WIDE IMPLEMENTATION PROGRAM
	003 Mary Ann Dickinson, Alliance for Water Efficiency, CHICAGO, USA. RACKING UP THE SAVINGS: A MODEL FOR PLANNING AND EVALUATING COST-BENEFICIAL WATER CONSERVATION PROGRAMS	007 Keith Johnson, South East Water Limited, MELBOURNE, AUSTRALIA. FIRE SERVICE MANAGEMENT - THE NEW WATER CONSERVATION FRONTIER	011 Gerald Tooth, Queensland Water Commission, CITY EAST, AUSTRALIA. TRANSFORMING SOUTH EAST QUEENSLAND INTO WORLD CLASS WATER SAVERS	015 Reg Bailey, Logan Water, LOGAN CITY, AUSTRALIA. MANAGING THE RISK OF CONSTRUCTING DISTRICT METERED AREAS IN THE IMPLEMENTATION A LARGE SCALE PRESSURE AND LEAKAGE MANAGEMENT PROGRAM
	004 Ashley Roberts, GHD, MELBOURNE, AUSTRALIA. APPLICATION OF AN INTEGRATED WATER MANAGEMENT ASSESSMENT TOOL: KALKALLO INDUSTRIAL DEVELOPMENT	008 Nicole Jones, Sydney Water, PARRAMATTA, AUSTRALIA. WHAT PROGRAMS SHOULD WE DO? ASSESSING AND RANKING DEMAND MANAGEMENT PROGRAMS FOR IMPLEMENTATION	012 Michelle Graymore, Deakin University WARRNAMBOOL, AUSTRALIA. UNDERSTANDING DRIVERS AND BARRIERS: THE KEY TO WATER USE BEHAVIOUR CHANGE	016 Sharon Yaniv A.R.I. Flow Control Accessories, KIBUTZ KFAR CHARUV, ISRAEL. REDUCTION OF APPARENT LOSSES USING UFR (UNMEASURED - FLOW REDUCER) – CASE STUDIES
1300-1400	Lunch			
1400-1530	Session 5: Developing countries/Water efficiency in arid climates Chair: Tony Gregg	Session 6: Emerging Technology Chair: Andrea Turner	Session 7: Education, community engagement and behavioural change Chair: Grant Leslie	Session 8: Non revenue water management Chair: Roland Liemberger
	017 Jim Knopf, Landscape Architect BOULDER, USA. WATERBUDGETS...WOW! ...MAKING & MAINTAINING WONDERFUL WATERWISE LANDSCAPES	020 Steve Cummings, CaromaDorf, EPPING, AUSTRALIA. DRAINLINE SYSTEM PERFORMANCE IMPLICATIONS FOR WATER EFFICIENT FIXTURES	023 Bevan Smith, Department of Natural Resources and Water, BRISBANE, AUSTRALIA. WATER: LEARN IT FOR LIFE!	026 Francisco Cubillo, Canal de Isabel II MADRID, SPAIN. PRESSURE MANAGEMENT IN A HOLISTIC APPROACH IN MADRID REGION
	018 Charlie Pike, Charlie Pike & Associates, NEWCASTLE, USA. EXPANDING PLUMBING CODES TO IMPLEMENT WATER EFFICIENCY MEASURES	021 John Koeller, Koeller and Company MISSISSAUGA, CANADA. TOP 5 NEW AND INNOVATIVE WATER-EFFICIENT PRODUCTS IN 2009	024 Nicole Button, Yarra Valley Water, MELBOURNE, AUSTRALIA. FROM ADVICE TO SOLUTIONS - INFLUENCING BEHAVIOUR CHANGE WITHIN THE RESIDENTIAL SEGMENT	027 Mutikanga Harrison, National Water and Sewerage Corporation KAMPALA, UGANDA. ASSESSING METER ACCURACY AS A TOOL FOR REDUCTION OF NON-REVENUE WATER: A CASE STUDY OF KAMPALA CITY, UGANDA
	019 Jamal Hijazi, Ministry of Water and Irrigation, JORDON BEST MANAGEMENT PRACTICES FOR HIGH RISE AND HIGH DENSITY DEVELOPMENTS IN JORDAN	022 Reid Butler, BMT WBM Pty Ltd LEICHHARDT, AUSTRALIA. SMARTANKS – MAXIMISING THE EFFICIENCY OF RAINWATER STORAGES TO ACTUALLY USE THE RAIN	025 Julien Gray, Smart Approved Water Mark, SYDNEY, AUSTRALIA EVERY BUCKET COUNTS - ENGAGING WITH PEOPLE ON OUTDOOR WATER CONSERVATION	028 Carlos Mariano, Mexican, Institute of Water Technology, JUITEPEC, MEXICO. LESSONS LEARNED IN THE IDENTIFICATION OF WATER LOSSES IN THE STATE OF BAJA CALIFORNIA MEXICO
1530-1600	Afternoon Tea			
1600-1730	Session 9: Benchmarking/emerging technology Chair: Enrique Cabrera Jr	Session 10: Commercial, industrial and institutional water use efficiency Chair: Larry Farwell	Session 11: Education, community engagement and behavioural change Chair: Anthony Coates	Session 12: Non revenue water management Chair: Ella Patterson
	029 Lyndall Pickering, Sydney Water, SYDNEY, AUSTRALIA. BENCHMARKING TO DRIVE IMPROVED WATER EFFICIENCY IN BUSINESS	032 Matthew Green, SA Water Corporation, ADELAIDE, AUSTRALIA. SOUTH AUSTRALIAN WATER CORPORATION NON RESIDENTIAL WATER EFFICIENCY MEASURES	035 J.C. Davis, Southern Nevada Water Authority, LAS VEGAS, USA. DO WE HAVE YOUR ATTENTION NOW?: APPLYING MARKETING STRATEGIES TO CONSERVATION OUTREACH	038 Taeho Choi, Department of Environmental Engineering, University of Seoul SEOUL, REPUBLIC OF KOREA. DEVELOPMENT OF A PROBABILITY MODEL FOR BURST RISKS OF WATER MAIN USING THE ANALYSIS METHODS OF LEAKAGE TYPE
	030 Graham Watkins - MidCoast Water, AUSTRALIA. SMART METERS, A TOOL FOR WATER EFFICIENCY	033 Adam Jones, BMT WBM, SYDNEY, AUSTRALIA. THE WASHUP - WHICH INDUSTRIES ARE REALLY LEADING THE WAY IN WATER EFFICIENT CLEANING?	036 John Brennan Water Corporation LEEDERVILLE, AUSTRALIA. WATERSMART BEHAVIOUR CHANGE PROGRAM: ACHIEVING BEHAVIOUR CHANGE WITH COMMUNITY BASED SOCIAL MARKETING	039 Assaf Heimann, Dorot Control Valves / Miya Group, DN LACHISH DAROM, ISRAEL. TAILORING THE SPECIFICATIONS FOR PRESSURE REDUCING VALVES
	031 Chris Hare and Austin Goodfellow, ACTEW Corporation, CANBERRA, AUSTRALIA. LEARNING TO SPREAD LESS WATER FURTHER: GRASS ROOTS – THE TURF AND IRRIGATION RESEARCH PROJECT	034 Rohan Barron, City West Water, MELBOURNE, AUSTRALIA. PRACTICAL INDUSTRIAL APPLICATIONS OF THE VICTORIAN GOVERNMENTS WATERMAP PROGRAM IN MELBOURNE'S WESTERN SUBURBS BY THE CITY WEST WATER CLEANER PRODUCTION TEAM – WITH CASE STUDIES FROM THE MEAT, FOOD, BEVERAGE AND MARKET GARDEN INDUSTRIES	037 Reid McNamara, Department of Water and Energy, SYDNEY, AUSTRALIA. ENGAGING CALD COMMUNITIES IN WATER 4 LIFE	040 Aditya Alexander Lukas, Institute of Sanitary Engineering, BOKU, VIENNA WIEN, AUSTRIA. IDENTIFYING CONSTRAINTS TO EFFECTIVE NON-REVENUE WATER (NRW) REDUCTION: CASE STUDIES FROM WATER UTILITIES IN SERBIA AND INDONESIA

Efficient2009 Conference Program - Tuesday 27 October 2009

0900-1030	Keynote Session 2 (AUDITORIUM) - Chair: Enrique Cabrera Jr			
0900-0930	K03 Tony Kelly - Yarry Valley Water, AUSTRALIA			
0930-1000	K04 Robyn Mcleod - Office of Water Security, AUSTRALIA			
1000-1030	K05 Tim Waldron - Wide Bay Water Corporation, AUSTRALIA			
1030-1100	Morning Tea			
	AUDITORIUM	PARKSIDE 110A	PARKSIDE 110B	G04
1100-1300	Session 13: Water demand forecasting and analysis Chair: Grant Lesley	Session 14: Demand management program design and implementation Chair: Anthony Coates	Session 15: Innovative pricing, billing and smart metering Chair: Francisco Cubillo	Session 16 Water and energy linkages Chair: Andrea Turner
	041 Russell Beatty, MWH, SYDNEY, AUSTRALIA. WHY DEMAND MANAGEMENT HAS FAILED TO STEM THE SUPPLY INFRASTRUCTURE TIDE IN AUSTRALIA	045 John Porter & Garry McGraw, MWH New Zealand Ltd, CHRISTCHURCH, NEW ZEALAND. QUEENSTOWN TACKLES HIGH WATER DEMANDS - OBSERVATIONS ONE YEAR ON	049 Corinna Doolan, Sydney Water, SYDNEY, AUSTRALIA. SMART METERING RESIDENTIAL PROJECT	053 Monique Retamal, Institute for Sustainable Futures, SYDNEY, AUSTRALIA. UNPACKING THE ENERGY IMPLICATIONS OF DISTRIBUTED WATER INFRASTRUCTURE: HOW ARE RAINWATER SYSTEMS PERFORMING
	042 James Skene - GHD, BRISBANE, AUSTRALIA. GOLD COAST WATER SUPPLY DEMANDS UNDER PERMANENT LOW-LEVEL RESTRICTIONS	046 Cameron FitzGerald, City West Water, SUNSHINE, AUSTRALIA. IMPLEMENTING RESIDENTIAL WATER USE TARGETS - A MELBOURNE PERSPECTIVE	050 Jaime Flores, Canal de Isabel II MADRID, SPAIN. ACCURATE ASSESSMENT OF UNDER METERING IN MADRID WATER SUPPLY	054 Steve Conrad & Murray Hall, Junxion Strategy, VANCOUVER, CANADA. KEY DECISIONS FOR SUSTAINABLE UTILITY ENERGY MANAGEMENT
	043 Grant Gabriel, MWH Australia, TOOWONG, AUSTRALIA. HOW LOW CAN WE GO? OR SETTING REALISTIC WATER DEMAND TARGETS FOR THE WHOLE OF QUEENSLAND	047 Michelle Maddaus, Maddaus Water Management, DANVILLE, USA. COLLABORATIVE IMPLEMENTATION PLANNING: A REGIONAL WATER CONSERVATION PROGRAM IN THE SAN FRANCISCO BAY AREA	051 James Robinson, University of Waterloo, WATERLOO, CANADA. ARE YOU AFRAID OF THE BIG BAD WOLF: IMPLEMENTING TRIALS OF PRICING TO REDUCE PEAK SEASON DEMANDS	055 Peter Holt, Energetics, NORTH SYDNEY, AUSTRALIA. THE WATER AND ENERGY EFFICIENCY BALANCE
1230-1250	044 Tony Cartwright, Sydney Water, WEST RYDE, AUSTRALIA. DEMAND DATA CAPTURE PROGRAM FOR WATER EFFICIENT MULTIHUNITS	048 Sonia Simard, URS, NORTH SYDNEY, AUSTRALIA. WATER SAVINGS USING THE WEB - THE DEVELOPMENT ON AN ONLINE GARDEN WATERING TOOL	052 Edgar Johnson, GHD, ADELAIDE, AUSTRALIA. RELIANCE UPON REGULATIONS TO DEFINE WATER METER ACCURACY	056 Ricardo Cobacho, ITA - Polytechnic University of Valencia, VALENCIA, SPAIN. ENERGY EFFICIENCY LINKED TO WATER EFFICIENCY: PIPES LEAKAGE REDUCTION OR END-USES CONSERVATION - WHAT'S BETTER?
1300-1400	Lunch			
1400- 1530	Session 17: Water demand forecasting and analysis/water supply demand planning Chair: Russell Beatty	Session 18: Monitoring and evaluation of water efficiency programs Chair: Julian Gray	Session 19: The role of regulation for water efficiency Chair: John Brennan	Session 20: Commercial, industrial and institutional water use efficiency Chair: Enrique Cabrera Jr
	057 Susan Ireland - Sydney Water, AUSTRALIA. DETECTING LEAKS IN RESIDENTIAL PROPERTIES	060 Tracy Britton, Griffith University, HERVEY BAY, AUSTRALIA. SMART METERING: PROVIDING THE FOUNDATION FOR POST METER LEAKAGE MANAGEMENT	063 Craig Walton, Department of Natural Resources and Water, BRISBANE AUSTRALIA. QUEENSLAND'S DEMAND MANAGEMENT REGULATORY PACKAGE	066 Harvey Lane, Eurobodalla Shire Council, MORUYA, AUSTRALIA. A DEMAND MANAGEMENT PROGRAM FOR NON-RESIDENTIAL USERS - A REGIONAL WATER AUTHORITY'S APPROACH
	058 George Zukovs, XCG Consultants OAKVILLE, CANADA. TOWN OF EAST GWILLIMBURY WATER CONSERVATION STRATEGY	061 Andrea Turner, Institute for Sustainable Futures, SYDNEY, AUSTRALIA and Anthony Coates, Local Government Infrastructure Services, BRISBANE, AUSTRALIA. THE ONE TO ONE WATER SAVINGS PROGRAM - UNPACKING RESIDENTIAL HIGH WATER USAGE	064 William Maddaus, Maddaus Water Management, ALAMO, USA. WATER CONSERVATION ENSURES SUSTAINABLE HOUSING DEVELOPMENTS	067 Guenter Hauber-Davidson, Water Conservation Group PYMBLE, AUSTRALIA. AIRPORT WATER EFFICIENCY IMPROVEMENTS IN AUSTRALIA
	059 Marcelo Libânio, Federal University of Minas Gerais, BELO HORIZONTE, BRAZIL. ASSESSING THE IMPACT OF INCOME VARIATION ON HOUSEHOLD WATER CONSUMPTION IN BELO HORIZONTE URBAN AREA (BRAZIL)	062 Jessica Sullivan, Sydney Water, SYDNEY, AUSTRALIA. BASIX: BUILDING WATER EFFICIENCY IN NSW	065 Anntonette Joseph, Department of Environment, Water, Heritage and the Arts, CANBERRA, AUSTRALIA. WATER EFFICIENCY OPPORTUNITIES PROGRAM	068 Anthony Brown, Yarra Valley Water, MITCHAM, AUSTRALIA. IMPROVING WATER EFFICIENCY IN NON-RESIDENTIAL LAUNDRIES
1530-1600	Afternoon Tea			
1600-1730	Session 21: Drought response and climate change Chair: Stuart White	Session 22: Monitoring and evaluation of water efficiency programs Chair: Larry Farwell	Session 23: The role of regulation for water efficiency Chair: Mary Ann Dickinson	Session 24: Water and energy linkages Chair: Tony Cartwright
	069 Andrew Watt, Seqwater, BRISBANE, AUSTRALIA . CLIMATE VARIABILITY AND SEQWATER'S WATER FUTURE	072 Kylie Yeend, Sydney Water, SYDNEY SOUTH, AUSTRALIA. MEASURING BEHAVIOUR CHANGE TO EVALUATE DEMAND MANAGEMENT AND EDUCATION PROGRAMS	075 Julian Fyfe, Institute for Sustainable Futures, University of Technology Sydney, SYDNEY, AUSTRALIA. ESTIMATING THE SUSTAINABILITY BENEFITS OF WATER EFFICIENCY LABELLING AND MINIMUM STANDARDS	078 Hossein Ashktorab, Santa Clara Valley Water District, SAN JOSE, USA. WATER SAVINGS, ENERGY SAVINGS AND AIR POLLUTANT EMISSIONS REDUCTIONS FROM THE SANTA CLARA VALLEY WATER DISTRICT'S WATER USE EFFICIENCY PROGRAMS
	070 Bruce Rhodes, Melbourne Water, MELBOURNE, AUSTRALIA. RESPONDING TO A CHANGING CLIMATE AND DROUGHT IN MELBOURNE, AUSTRALIA	073 Vanessa Lenihan, South East Water Limited, MELBOURNE, AUSTRALIA. CLEANER PRODUCTION TO DRIVE WATER EFFICIENCY	076 John Koeller, Koeller and Company, YORBA LINDA, USA. BRIEF OVERVIEW OF NORTH AMERICAN GREEN BUILDING PROGRAMS AND WATER USE EFFICIENCY	079 Michael Harrison Smith, ANU, CANBERRA, AUSTRALIA. ENHANCING THE BUSINESS CASE FOR WATER EFFICIENCY - NEW INSIGHTS ON ACHIEVING LARGE WATER AND ENERGY EFFICIENCY IMPROVEMENTS
	071 John Stanmore, NSW Department of Commerce, SYDNEY, AUSTRALIA. QUANTIFYING THE IMPACTS OF CLIMATE CHANGE ON THE URBAN WATER CYCLE	074 Rachelle Willis, Griffith University, NATHAN, AUSTRALIA. REVEALING THE IMPACT OF SOCIO-DEMOGRAPHIC FACTORS AND EFFICIENT DEVICES ON END USE WATER CONSUMPTION: CASE OF GOLD COAST, AUSTRALIA	077 Tiffany Dickinson, Department of the Environment, Water, Heritage and the Arts, CANBERRA, AUSTRALIA. THE WATER EFFICIENCY LABELLING AND STANDARDS (WELS) SCHEME	080 Claire Hammond - Sydney Water, AUSTRALIA. THE URBAN WATER-ENERGY NEXUS - SUSTAINING SAVINGS USING A HOLISTIC MANAGEMENT APPROACH
1845-2300	Conference Dinner			

Efficient2009 Conference Program - Wednesday 28 October 2009

0900-1030	Keynote Session 3 (AUDITORIUM) - Chair: Francisco Cubillo			
0900-0930	K06 Sue Murphy - Water Corporation, AUSTRALIA			
0930-1000	K07 Carol Howe - EU SWITCH, THE NETHERLANDS			
1000-1030	K08 Tony Gregg - USA			
1030-1100	Morning Tea			
	AUDITORIUM	PARKSIDE 110A	PARKSIDE 110B	G04
1100-1300	Session 25: Developing countries/Water efficiency in arid climates <i>Chair: Tony Gregg</i>	Session 26: Demand management program design and implementation <i>Chair: Mary Ann Dickinson</i>	Session 27: Commercial, industrial and institutional water use efficiency <i>Chair: Tony Cartwright</i>	Session 28: Innovative pricing, billing and smart metering/non revenue water management <i>Chair: Kelvin O'halloran</i>
	081 Mohamed Chebaane and Setta Tutundjian, USAID-IDARA Project, AMMAN, JORDAN. INSTITUTING WATER DEMAND MANAGEMENT IN JORDAN	085 Glenn Goldsmith, South East Water, HEATHERTON, AUSTRALIA. SHOWER POWER: LEARNINGS AND OUTCOMES OF A SHOWERHEAD EXCHANGE PROGRAM	089 Natalie Atkins, Yarra Valley Water, MITCHAM, AUSTRALIA. WATER MANAGEMENT ONLINE	093 Thomas Chestnutt - A&N Technical Services, Inc. USA. DROUGHT PRICING AS A PART OF DROUGHT RESPONSE PLANNING - LESSONS FROM DROUGHT PRONE US
	082 Peter Macy, CDM Intl. ARLINGTON, USA. A BOLD APPROACH TOWARD WATER EFFICIENCY IN THE DEVELOPING WORLD	086 Graeme Watkins, MidCoast Water, TAREE, AUSTRALIA. WHAT'S THE VALUE OF WATER EFFICIENCY?	090 Andrew Cowley Lincolne Scott NORTH SYDNEY, AUSTRALIA. SYDNEY WATER HEADQUARTERS - A CASE STUDY IN INNOVATIVE WATER MANAGEMENT	094 Pank Mistry - Wide Bay Water Corporation, AUSTRALIA. TO BOLDLY GO TO A NEW WAY OF OPERATING WATER SUPPLY NETWORKS - SOUTH EAST QUEENSLAND EXPERIENCE
	083 Karl-Ulrich Rudolph, Institute of Environmental Engineering and Management at the University of Witte, WITTEN, GERMANY. WITTEN SEWAGE HARVESTING FOR URBAN GREEN IRRIGATION	087 Matthew Ferguson, Sydney Water, SYDNEY SOUTH, AUSTRALIA. TOILET REPLACEMENT IN SYDNEY	091 Lorraine Nelson, South East Water HEATHERTON, AUSTRALIA. WORKING WITH BUSINESS TO ACHIEVE WATER EFFICIENCIES.	095 Roland Liemberger - Miya, MANILLA, PHILIPPINES. DESIGN CRITERIA FOR PERFORMANCE BASED CONTRACTS FOR NON-REVENUE WATER MANAGEMENT
	084 Francisco Cubillo, Canal de Isabel II, MADRID, SPAIN. LOOKING FOR EFFICIENCY THROUGH INTEGRATED WATER MANAGEMENT BETWEEN AGRICULTURE AND URBAN USES	088 Melaine Schwewe - Sydney Water, SYDNEY, AUSTRALIA. OPTIMISING POTABLE WATER USE FOR OPEN SPACE IRRIGATION THROUGH A HOLISTIC MANAGEMENT APPROACH	092 Mohan Seneviratne, Mohan Seneviratne Consulting Pty Ltd, BEECROFT, AUSTRALIA. PORT KEMBLA STEEL WORKS ON THE PATH TOWARDS THE WORLD'S MOST WATER EFFICIENT STEEL MILL	096 James Robinson - Uni of Waterloo, CANADA. WESSEX WATER TARIFF TRIAL: HOW DO DIFFERENT TARIFFS AFFECT WATER USE?
1300-1400	Lunch			
1400 - 1500	Session 29: Integrated resource planning and best practice decision making <i>Chair: Stuart White</i>	Session 30: Distributed and emerging water systems <i>Chair: Francisco Cubillo</i>	Session 31: Monitoring and evaluation of water efficiency programs/benchmarking <i>Chair: Ella Patterson</i>	Session 32: economic/drought response and climate change <i>Chair: Roland Liemberger</i>
	097 Rick Soehren, California Department of Water Resources, SACRAMENTO, USA. BEYOND CONSERVATION: APPLYING ALL THE SUSTAINABILITY LESSONS	099 Ben Pohlner, Wannon Regional Water Corporation, WARRNAMBOOL, AUSTRALIA. "TAPPING THE URBAN CATCHMENT" REGIONAL ROOF WATER HARVESTING FOR RETICULATED SUPPLY	101 Mathew Ferguson - SYDNEY WATER, AUSTRALIA. CHANGING MARKETS WITH REBATES - A WASHING MACHINE CASE STUDY	103 Victor Lara Labra , SA DE CV SILAO, MEXICO. TARIFF REFORM IN THE QUERETARO STATE
	098 Andrew Porter , URS, NORTH SYDNEY, AUSTRALIA. SOIL SOLUTIONS - IMPROVING WATER MANAGEMENT IN SYDNEY PUBLIC OPEN SPACES	100 Guenter Hauber-Davidson, Water Conservation Group, PYMBLE, AUSTRALIA. COST EFFECTIVE AND SUSTAINABLE DESIGN OF LARGE RAINWATER AND STORMWATER HARVESTING SCHEMES	102 Fernando Flores-Prior, Mexican Water Technology Institute, JUITEPEC, MEXICO. CONFIDENCE RATINGS FOR BENCHMARKING ON PERFORMANCE INDICATORS FOR MEXICAN WATER UNDERTAKINGS	104 Sattar Mahmoudi, Iran water resource management, TEHRAN, IRAN. DROUGHT AND WATER RESOURCES MANAGEMENT IN IRAN .
1500-1600	Closing plenary and panel discussion (AUDITORIUM)			
1500-1510	Closing plenary overview			
1510-1550	Panel			
1550-1600	Thank you & close			
1600	Close			

Poster Program

Poster Number	Name	Organisation	Country	Theme	Paper Title
P01	Dana Hallet	Ipswich Water	AUSTRALIA	Commercial, industrial and institutional water use	GUIDING BUSINESS THROUGH WATER EFFICIENCY MANAGEMENT PLANS (WEMPS) - BEYOND COMPLIANCE AND ONWARDS TO BEST PRACTICE
P02	Chang Log Choi	Busan National University	SOUTH KOREA	Cost-effectiveness of leakage and pressure management	ESTABLISHING MAINTENANCE PRIORITY OF SUBAREAS IN A WATER DISTRIBUTION SYSTEM USING THE HIERARCHICAL CLUSTERING ANALYSIS OF WATER MAIN LEAK LOCATION DATA
P03	Kate Harriden	Australian National University	AUSTRALIA	Water forecasting and analysis	WATER DIARIES: EXPLORING INTRA-HOUSEHOLD WATER USE
P04	Melanie Schwecke	Sydney Water	AUSTRALIA	Demand management program design and implementation	BENEFITS OF A HOLISTIC APPROACH TO BALANCE ESSENTIAL COMPONENTS OF OPEN SPACE MANAGEMENT TO ACHIEVE MAXIMUM WATER EFFICIENCY WITHIN GREATER SYDNEY
P05	Craig Walton	Department of Environment Resource Management	AUSTRALIA	Demand management program design and implementation	HOW MUCH WATER EFFICIENCY DOES \$321 MILLION BUY?
P06	Andy Moore	Sydney Water	AUSTRALIA	Education, community engagement and behavioural change	MARKETING TO CULTURALLY AND LINGUISTICALLY DIVERSE GROUPS
P07	Tom Patterson	BMT WBM Pty Ltd	AUSTRALIA	Education, community engagement and behavioural change	STARS IN THEIR EYES - COMMUNICATING WATER EFFICIENCY
P08	Graeme Watkins	MidCoast Water	AUSTRALIA	Emerging technologies for water efficiency	SMART METERS, A TOOL FOR WATER EFFICIENCY
P09	Guenter Hauber-Davidson	Water Conservation Group	AUSTRALIA	Innovative pricing, billing and smart metering	HOW SMART METERING WORKS – AND WHAT'S APPROPRIATE FOR WHOM, WHY AND WHEN
P10	John McKibbin	Institute for Sustainable Futures, UTS	AUSTRALIA	Integrated resource planning and best practice decision making	NEXT GENERATION IRP: EXTENDING WATER PLANNING PROCESSES AND TOOLS TO ASSESS DISTRIBUTED WATER FUTURES
P11	Matthew Ferguson	Sydney Water	AUSTRALIA	Monitoring and evaluation of water efficiency programs	CHANGING MARKETS WITH REBATES – A WASHING MACHINE CASE STUDY
P12	Edgar Johnson	GHD Pty Ltd	AUSTRALIA	Monitoring and evaluation of water efficiency programs	ESTABLISHING THE EFFICIENCY OF A WATER METER FLEET
P13	Ja Yong Koo	University of Seoul	KOREA	Non revenue water	A STUDY ON LEAKAGE CONTROL BY WATER-PRESSURE REGULATION IN A WATER DISTRIBUTION SYSTEM
P14	Kim MinCheol	Department of Environmental Engineering, University of Seoul	KOREA	Non revenue water	STUDY ON THE CHARACTERISTICS OF NIGHT FLOW COMPONENTS FOR LEAKAGE MANAGEMENT IN DISTRICT METERED AREAS
P15	Pankaj Mistry	Wide Bay Water Corporation	AUSTRALIA	Non revenue water	TO BOLDLY GO TO A NEW WAY OF OPERATING WATER SUPPLY NETWORKS - SOUTH EAST QUEENSLAND EXPERIENCE
P16	Sharon Yaniv	A.R.I. Flow Control Accessories	ISRAEL	Non revenue water	REDUCTION OF WATER LOSSES CAUSED BY PRESSURE TRANSIENTS USING AIR VALVES
P17	Victor Lara	Labra SA DE CV	MÉXICO	Training and capacity building for water efficiency	TRAINING - KEY OF THE SUCCESS
P18	Reid McNamara	Department of Water and Energy	AUSTRALIA	Training and capacity building for water efficiency	WATER FOR LIFE ADVANCING LEADERS
P19	John Schlafrig	Energy & Water Services	AUSTRALIA	Training and capacity building for water efficiency	WEP REGULATION IN WA INTERSTATE AND NATIONALLY; EDUCATION AND TRAINING IMPLICATIONS
P20	Claire Hammond	Sydney Water	AUSTRALIA	Water and energy linkages	THE URBAN WATER-ENERGY NEXUS - SUSTAINING SAVINGS USING A HOLISTIC MANAGEMENT APPROACH
P21	Susan Ireland	Sydney Water	AUSTRALIA	Water demand forecasting and analysis	DETECTING LEAKS IN RESIDENTIAL PROPERTIES
P22	Ja Yong Koo	University of Seoul	KOREA	Water demand forecasting and analysis	A STUDY ON ESTIMATION OF DOMESTIC WATER DEMAND BY ACTUAL ESTIMATE DATA
P23	Jamal Hijazi	Ministry of Water and Irrigation	JORDAN	Water efficiency in arid climates	BEST MANAGEMENT PRACTICES FOR HIGH RISE AND HIGH DENSITY DEVELOPMENTS IN JORDAN
P24	Mohand Amghar	PB	AUSTRALIA	Water supply-demand planning	WATER AVAILABILITY UNDER CLIMATE CHANGE IN MARYBOROUGH, QLD, AUSTRALIA
P25	Camelia Gavrila	Technical University of Civil Engineering Bucharest	ROMANIA	Water supply-demand planning	A METHODOLOGY FOR RELIABILITY-ANALYSIS OF WATER DISTRIBUTION NETWORKS
P26	Hyun Dong Lee	Korea Institute of Construction Technology(KICT)	REPUBLIC OF KOREA	Water supply-demand planning	ANALYSIS OF IMPROVEMENT ON EMERGENCY FACILITIES OF WATER SUPPLY BY BLOCK SYSTEM