



Saturday

14th March 2009
9.30am – 5.00pm
\$5 Donation

Community Water Summit

University of South Australia City West Campus

Hawke Building (Ground Floor) Alan Scott Auditorium

<http://users.chariot.net.au/~littoral/fogsv/>

Time	Summit Moderator & MC – Mark Henley (Manager of Advocacy and Communication - UnitingCare Wesley)
10.00 – 10.15 AM (15 minutes)	<p>Traditional Owners Welcome – Lewis O'Brien</p> <p>"And the Clock Struck Thirteen" is the story of Kurna man Uncle Lewis O'Brien and his family, beginning with his great great grandmother Kudnartu-the first Aboriginal woman to marry a white man in South Australia. Born in the 1930s at Point Pearce, O'Brien has become an esteemed Aboriginal Elder. He has worked as a fitter and machinist for 30 years before joining the SA education department as an Aboriginal education liaison officer in 1977. His presence has made a significant impact on the number of Indigenous children completing high school.</p> <p>Summit Welcome & Introduction</p> <p>The principal objective of this first community water summit is to bring together a diverse range of community organisations who all have in common a deep concern about water and its environment and to develop mutual respect for their campaigns and understanding of what each have in common. As individual community lobbying organisations, for too long they have been ignored by most politicians and governments of the day. This summit is about making the sum greater than the individual parts for these community organisations.</p> <p>The summit itself brings together a diverse range of speakers to provide factual information about the reliability of Adelaide's water supply and the importance of the Murray to all South Australians, the sustainability of the Murray under various climate change models out to 2030, questions about the adequacy of the South Australian government's organisation for a holistic approach to water management, the consequence of brine discharge and implications of desalination on local Gulf marine life.</p> <p>John's introduction will briefly explore the question of whether there is a water fraud taking place in South Australia. For example, the Murray is far from dead. Even though CSIRO reported in 2008 that parts of the Murray Darling Basin are in a once in 300 year drought, the basin diverted close to 4,000 GL in 2007/08. This was the lowest in the last 11 years however it would have been a record diversion in the 1950s. Weaning Adelaide off the Murray is not going to save the Murray or the Lower Lakes as on average Adelaide's uses just 1% of average diversions of 11,500 GL per annum, 95% of which is used for irrigation and a significant proportion of that is used for export.</p> <p>Since 1995 through the Council of Australian Governments, governments have been focussed on privatising the economic use of water, creating a National Water Market and forcing up the price of water, so the private sector can make a profit. These are the real reasons which a Royal Commission needs to investigate as to why the Lower Lakes and Coorong are being hung out to dry like in no other time in history, Cheltenham given to developers for housing and a Desalination Plant is being built at Port Stanvac. It is also clear given the current economic conditions that there will no money left to develop a holistic approach to water resource management in South Australia and save the already endangered Adelaide Coastal Waters. Instead the government is spending billions of dollars on pipelines, weirs and desalination plant, all of which South Australia wouldn't need if the Government stood up for a fair share of the Murray provided for under section 100 of the Australian Constitution.</p> <p>John Caldecott President Friends of Gulf St Vincent Convenor Community Water Summit</p> <p>John Caldecott is a resident of Henley Beach and originally moved to Adelaide in 1970 from Port Pirie to complete an Electrical Engineering degree at SAIT, now University of SA. For a significant part of his career John worked for a number of Defence companies with operations in SA. John is Director of Consultants in Quality Pty Ltd, specialising in providing independent consulting advice in regard to quality systems, quality assurance and quality control strategies, methods and techniques.</p> <p>In the early 70's he joined the Weapons Research Establishment (WRE) Spear fishing and</p>



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	<p>Skin Diving Club. John soon learnt to scuba dive and took up underwater stills photography with a focus on Gulf waters and Kangaroo Island. As a member of the Friends of Gulf St Vincent committee, John has coordinated the last two 'Friends' forums held at West Beach and Port Wakefield in 2008. On behalf of the 'Friends' he also prepared their submission on Desalination to the ERDC committee and the submission on the SA Water EIS prepared for the Port Stanvac Desalination Plant. John is passionate about the need to conserve and better respect the Gulf of St Vincent environment which is unique and under considerable threat from stormwater, waste water discharge, dredging and hypersaline water from desalination plants.</p>
<p>10.15 – 11.05 AM (50 minutes)</p>	<p>Water Supply Options for Adelaide - Why They Need to be Adaptive</p> <p>Traditional potable water supply, wastewater and stormwater drainage infrastructure systems in Adelaide are based on European experience. These engineered water supply, wastewater and stormwater systems are efficient at collecting and transporting water, however they constitute a profound change from the natural water cycle. Being located in the driest inhabited continent, most Australian towns and cities rely on importing and storing enormous volumes of fresh water from rivers, groundwater and dams. At the same time, large volumes of stormwater and wastewater are discharged, unused, from the same urban areas. This presentation will explain why, in terms of our future water supply, Adelaide has to be smart, resilient and most of all adaptive.</p> <p>Professor Simon Beecham</p> <p>Simon Beecham is currently Professor of Sustainable Water Resources at the University of South Australia. He is also Group Head, Civil Engineering and Director of the SA Water Centre for Water Management and Reuse. His research interests include water sensitive urban design (WSUD), the effect of climate change on total water cycle management (TWCM), river modelling and siphonic roofwater harvesting and reuse.</p>
<p>11.20 – 11.55 AM (35 minutes) 11.55 to 12.05 PM</p>	<p>CSIRO Sustainability Yields Project – Water Supply Implications for SA</p> <p>The presentation is on the results and out comes of the CSIRO Murray-Darling Basin Sustainable Yields Project which summarises the assessments for all of the regions comprising the Basin. This was a world first for rigorous and detailed Basin-scale assessment, covering the impacts of climate change, catchment development and increasing groundwater development on the availability and use of water resources. It also represents the most comprehensive hydrologic modelling ever undertaken for the entire MDB – and the results provide sobering news for all Australians.</p> <p>http://www.csiro.au/org/MurrayOverviewMDBSY.html http://www.csiro.au/partnerships/MDBSY.html http://www.environment.gov.au/water/action/coag.html</p> <p>Dr Glen Walker</p> <p>Glen Walker leads the Better Basin Futures Theme of the Water for a Healthy Country Flagship. Dr Glen Walker is an experienced researcher in salinity and groundwater, and recently led the groundwater component of the Murray-Darling Basin Water Assessment. He has over 20 years research experience in groundwater hydrology, salinity and isotope hydrology. He has led major research projects for the Murray-Darling Basin Commission, Land & Water Australia, State Governments and Water for Healthy Country. Dr Walker leads a team of scientists who aim to achieve significantly greater benefits through better management of Australia's river basins and groundwater resources.</p>



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<p>12.55 – 1.30 PM (35 minutes)</p>	<p>Adelaide's Water Supply – Australia's most Reliable</p> <p>Adelaide has enjoyed one of the most reliable public water supplies in Australia. Technical studies undertaken some 20 years ago indicated that our water supply system would be able to meet the needs of the city until about 2050. In the meantime, our annual water consumption for Adelaide has declined due to water conservation and pricing measures and more recently due to water restrictions. The population has not increased substantially in that period. Why then do we seem to be in trouble now? What are the options and how important is the River Murray to Adelaide?</p> <p>Professor Don Bursill</p> <p>Don Bursill has had some 40 years experience in the water industry in Australia. For most of that time he worked for the South Australian Water Corporation stepping down at the end of 2005 as its Chief Scientist – a position he had held for 17 years. His experience was focused mainly on water quality, water treatment and water resources management. He led a national team that was successful in establishing the Co-operative Research Centre for Water Quality and Treatment under the Australian Government's CRC Program and was CEO of that Centre from its commencement in 1995 until retirement in December 2005. This CRC rapidly became Australia's principal water research centre with a focus on public water supplies.</p> <p>Don was an inaugural member of the Board of the Global Water Research Coalition and was its Deputy Chair on his retirement in December 2005. The GWRC is an international water research coalition that includes 15 national water research centres from Europe, North America and South Africa as well as Australia.</p> <p>Don chairs the Water Quality Advisory Committee of the National Health and Medical Research Council. This Committee has produced Australia's current drinking water guidelines, which included a water quality management framework that subsequently formed the basis of the Water Safety Plan feature of the current WHO Guidelines for Drinking Water. His involvement in the recent upgrade of Australia's national water recycling guidelines has seen a similar risk based framework adopted for the new guidelines.</p> <p>Don has been recognized with a number of awards including a Member of the Order of Australia, an Honorary Doctorate of the University of South Australia and the Peter Hughes Award from the Australian Water Association – all in recognition of his services to water research and water resources management in Australia.</p>
<p>1.30 – 2.05 PM (35 minutes) 2.05 to 2.15 PM</p>	<p>Organisation Reform to Achieve Democratic & Sustainable Storm & Waste Water Outcomes</p> <p>Progress in urban and regional water planning suited to a sustainable water future for South Australia is severely constrained by an inadequate organisational structure and vestige monopoly processes. Reform in these areas is urgently required to protect the public's long term interests. A more efficient and democratic water planning structure is proposed.</p> <p>Richard Clark</p> <p>Richard Clark is a Hydrologist and Water Systems Planner and uses his extensive experience in hydrology and water systems modeling in the design of 'new generation' water systems. These achieve higher efficiencies by incorporating:</p> <ul style="list-style-type: none"> • previously overlooked sources of water, including stormwater and the recycling of used water • new techniques for water storage and treatment, often at combinations of various scales • multiple system objectives, including those compatible with ecological sustainability and aesthetics. <p>He has been involved with the hydrological design of nearly all the innovative water systems established in Adelaide over the past 15 years, including New Haven Village, Mawson Lakes, and the many Council wetland systems. He has written and talked extensively on the benefits of 'alternative' water systems.</p>



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2.15 – 2.25 PM	<p>Conservation Council of South Australia – Water Update</p> <p>Julia Winefield</p>
2.40 – 3.15 PM (35 minutes)	<p>Desalination Plants - Consequences of Desalination Brine Discharge</p> <p>Demonstrate with scientific evidence that SA gulfs are highly unsuitable locations for desalination brine discharges. Key risks: dodge tide; low flushing; conservation of marine resources.</p> <p>Dr Jochen Kaempf (Flinders University)</p> <p>Dr Kaempf is a Senior Lecturer in Oceanography at Flinders University with 15 years of research experience and 10 years of teaching experience. His expertise is the hydrodynamical modelling of fluid processes including the dispersal of desalination brine. He has been actively involved in the Adelaide Coastal Water Study and he has provided scientific expert advice for both the Victorian and the Adelaide Desalination Projects.</p> <ul style="list-style-type: none"> - Kaempf, J., 2008. Review of the Environmental Impact Statement with a focus on marine modelling studies and including findings of additional independent modelling studies. Expert witness statement prepared for the Adelaide Desalination Project. 28 pp. (pdf available on request): - Kämpf, J., C. Brokensha, and T. Bolton (in press) Hindcasts of the fate of desalination brine in large inverse estuaries: Spencer Gulf and Gulf St. Vincent, South Australia. Desalination and Water Treatment. (pdf available on request). - Committee on Advancing Desalination Technology, National Research Council, 2008: Desalination: A National Perspective. National Academies Press, 312 pp.
3.15 – 3.50 PM (35 minutes) 3.50 – 4.00 PM	<p>Implications of Desalination on local Gulf marine life</p> <p>Dr Kirsten Benkendorff (Flinders University)</p> <p>Dr Benkendorff is a full-time Senior Lecturer in the School of Biological Sciences at Flinders University. She coordinates undergraduate biology topics in Animal Diversity and Disease and Immunology. She also manages a productive interdisciplinary research laboratory focused on marine biodiversity and bioresources.</p> <p>Dr Benkendorff's research has obtained National and more recently international recognition through numerous awards, invitations as key note speaker and media interviews.</p> <p>She was awarded the 2000 Young Australian of the Year Award in Science and Technology and a 2008 Young Tall Poppy Award.</p> <p>Her current research program includes intertidal biodiversity assessment and investigation of the effects of stressors, such as hypersalinity, on local marine organisms. Dr Benkendorff is strongly committed to the communication of research outcomes to both scientific audiences and the broader public.</p>
4.00 – 4.45 PM (45 minutes)	<p>Community Workshops</p> <p>(Event Moderator will distill three or four key issues for the workshops to discuss with the aim of supporting campaigns for change leading up to the 2010 South Australian election.)</p>
4.45 – 5.00 PM	<p>Community Workshop Moderator & Facilitators – Summary (15 minutes)</p>