3rd Annual Water Policies and Laws Symposium

Aiming to elucidate and define issues in MAR

6 and 7 June 2013

The Council Room, Hawke Building  UniSA City West Campus

Presented by the Centre for Comparative Water Policies and Laws and the School of Commerce, UniSA Business School.

Recognising the following organisations for their contributions in this field.
INVITED SPEAKERS/PANELLISTS

Professor Falendra Kumar Sudan
Professor in Economics
University of Jammu, Jammu
Falendra is currently working as Professor of Economics at University of Jammu, India and engaged in teaching and research in Environmental and Natural Resource Economics. He is an Adjunct Research Fellow at Centre for Comparative Water Policies and Laws, University of South Australia for collaborative research since June 2011. He has been awarded various research projects on participatory natural resource management, climate change and water governance etc. by the World Bank, Ministry of Environment and Forests, Ministry of Rural Development, etc. He has published widely in national and international journals on environment and development issues including water governance and was awarded Senior Professional Research Fellowship on ‘Groundwater Governance in Theory and Practice’ by International Water Management Institute from October 2006 to March 2007 under the supervision of Prof. Jennifer McKay on “Institutional Aspects of Groundwater Governance: Experiences from South Australia and Lessons for India” and awarded ‘Best Senior Paper Award’.

Professor Jean Fried
Department of Civil and Environmental Engineering
University Of California
Jean is a Senior Consultant at the United Nations, Scientific and Cultural Organisation, a Project Scientist at the Department of Planning, Policy and Design of the School of Social Ecology of the University of California Irvine, and a Visiting Research Scholar at the Centre for Sustainability of the California State University, Fullerton. He has developed an expertise in water sustainable management, with an emphasis on groundwater issues, and the communication between science, legislation and policy-making.

Maria Gibson
Water Resources Policy and Management
Oregon State
As a PhD student in the Geology Program within the College of Earth, Ocean, and Atmospheric Sciences at Oregon State University, her research focuses on increasing groundwater supply through artificial conveyances, especially by way of Aquifer Storage and Recovery. Maria holds a bachelor’s degree in Geology from the University of Oregon, and is currently working on a project, in cooperation with Washington State Department of Ecology to assess the suitability of Aquifer Storage and Recovery throughout Washington’s 62 Water Resource Inventory Areas.
Peter Quentin Newland  
Consulting Engineer  
Adelaide, South Australia

Peter is a civil engineer who has worked across a range of water and environmental management issues including catchment management, natural resource management, stormwater pollution prevention and groundwater protection. Peter had over 15 years in the South Australian EPA working in compliance and enforcement, change management programs and regulation development primarily based on water quality issues. His recent work has focused on urban water management including water sensitive urban design (WSUD), recycled water reuse and managed aquifer recharge (MAR). Peter has moved into the private sector and will continue to work in these areas.

Justin Foley  
Senior Manager  
(Water Industry at National Water Commission)

Justin Foley is Senior Manager, Industry and Sustainability, at Australia’s National Water Commission. Justin has a background in natural resource management and environmental policy. In his role at the Commission since 2010 Justin has led assessments and provided policy advice in the areas of water planning, urban water and water markets. Justin has played a significant role in delivering on the Commission’s primary function to provide independent, expert advice to Australian Governments on water matters, assess and report on the achievement of national water reform objectives, and help overcome impediments to reform.

www.nwc.gov.au

Dr Peter Dillon  
Stream Leader  
Sustainable Water Solutions

Peter Dillon has led CSIRO research on managed aquifer recharge with stormwater and recycled water for 20 years in Australia and internationally. He was leader of the writing team for the MAR Guidelines and with John Ward developed a policy framework for MAR in Australia for the National Water Commission. For 12 years he has chaired the International Association of Hydrogeologists Commission on Managing Aquifer Recharge, which runs symposia, workshops, an email list and disseminates information on MAR. He also leads the UNESCO MAR-NET network to facilitate uptake of safe MAR in developing countries and is currently producing guidance for India. He recently produced a GEF-FAO Thematic paper on Groundwater Governance addressing recharge, discharge and storage equilibrium.
SALISBURY COUNCIL
Technical tour of Wetlands & Harvesting Sites:

The Salisbury LGA covers an area of 161km2 and has developed 20 strategic stormwater harvesting sites and wetlands. Wetlands are used for storage in conjunction with aquifer storage and recovery technology, which allows water to be accessed during drier periods. The Salisbury LGA is now taking stormwater harvesting and recycling to the next level - developing and expanding the distribution network to provide high quality recycled stormwater (Salisbury Water) throughout the Salisbury LGA and beyond. Treated stormwater is distributed via the mains system, and sold to end users, including industrial, commercial and household facilities. Salisbury Council will be linking up about 16,000 homes in the council area with stormwater for using extensively for community facilities, and for irrigation of parks and ovals.

The Salisbury stormwater harvesting scheme is the first project of its kind in Australia, and takes about 15 billion litres of stormwater a year to households and businesses, the equivalent of 18 per cent of Adelaide’s water supply. Salisbury’s water recycling solutions also set an example and showcase best practice urban stormwater management to audiences across the globe.

Proposed Salisbury Site Tour:

Leave City: 10am
Watershed Mawson Lakes: 10.30am

Bus tour of Mawson Lakes 10.45am, passing the Bennett Road ASR and the Paddocks wetlands, stopping at the Unity Park Bio-filtration project. Commentary will be provided on the evolution of schemes within Salisbury from small local harvest and re-use schemes to larger scale interconnected schemes with a regional distribution network. The bus tour will continue past the Montague Road ASR well-field, the largest scheme in Salisbury and return to the Watershed café. If time permits, we will also include the Whites Rd project currently being commissioned. 12 -1.30pm Lunch at the Watershed café. 1.30 Walking tour of Greenfields wetlands, T1 ASR scheme for injection credit trading, and the Mawson Lakes integrated Waste Water / Stormwater facility. 3.00pm return to City.
### PROGRAM

#### Day I - Thursday 6 June 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 – 9:15am</td>
<td><strong>REGISTRATION</strong> Coffee and Tea</td>
<td>Bradley Forum Foyer</td>
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<tr>
<td>9:15 – 9:25am</td>
<td><strong>Opening Address</strong> PVC opening address. Professor Gerry Griffin (UniSA)</td>
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<tr>
<td>9:25 – 9:30am</td>
<td><strong>Welcome Address</strong></td>
<td>Andrew Speers Advisory Board Chair</td>
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<tr>
<td>9:30 – 9:50am</td>
<td><strong>Keynote Address (1)</strong> Context of Governance for Managed Aquifer Recharge</td>
<td>Professor Jennifer McKay Director, Centre for Comparative Water Policies and Law</td>
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<tr>
<td>9:50 – 10:10am</td>
<td><strong>Keynote Address (2)</strong> Managed Aquifer Recharge in the Urban Water Sector</td>
<td>Justin Foley Water Industry National Water Commission</td>
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<tr>
<td>10:10 – 10:30am</td>
<td><strong>Robust Policy for Managed Aquifer Recharge in Australia</strong></td>
<td>Peter Dillon CSIRO Land and Water</td>
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<tr>
<td>10:30 – 11:45am</td>
<td><strong>COFFEE BREAK &amp; Panel Discussion</strong></td>
<td>Paul Dalby Facilitator</td>
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<td>11:45 – 12:15pm</td>
<td><strong>Keynote Address (3)</strong> Community Managed Aquifer Recharge Under Integrated Watershed Development Project: Experiences and Lessons Learnt from Jammu and Kashmir, India.</td>
<td>Professor Falendra Sudan University Of Jammu, Jammu</td>
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<tr>
<td>12:15 – 12:35pm</td>
<td><strong>Regulatory Disparities of Aquifer Storage and Recovery Projects in the United States</strong></td>
<td>Maria Gibson Oregon State University</td>
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<tr>
<td>Time</td>
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<td>Speaker(s)</td>
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<tr>
<td>12:35 – 1:30pm</td>
<td>LUNCH</td>
<td>Bradley Forum Foyer</td>
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</table>
| 1:30 – 2:00pm | Keynote Address (4)                                                  | **Professor Jean Fried**  
University of California  
Irvine                       |
|              | *Managing Aquifer Recharge in Southern California: Groundwater Replenishment Systems (GWRS)* |                                                                            |
| 2:00 – 2:30pm | The Evolution of Managed Aquifer Recharge Regulation in South Australia | **Peter Quentin Newland**  
Newland Engineering              |
| 2:30 – 3:45pm | COFFEE BREAK & Panel Discussion                                      | **Paul Dalby**  
Facilitator                                                                   |
| 3:45 – 4:15pm | Summary of the Days Discussion                                       | **Professor Jennifer McKay**  
Director, Centre for Comparative Water Policies and Law                      |
| 4:15 – 5:00pm | DRINKS AND CANAPES                                                   | Bradley Forum Foyer                                                         |
|              | Bradley Forum Foyer Networking Session                               |                                                                            |
### Day II - Friday 7 June 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 – 9:15am</td>
<td><strong>REGISTRATION</strong></td>
<td>Bradley Forum Foyer</td>
</tr>
<tr>
<td>9:15 – 10:00am</td>
<td>Networking Session + Light Refreshments Served</td>
<td>Bradley Forum Foyer</td>
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<tr>
<td>10:00 – 10:30am</td>
<td>Bus Departs on Field Trip</td>
<td>Meeting Point: Outside Hawke Building North Terrace</td>
</tr>
<tr>
<td>10:30 – 12:00pm</td>
<td><strong>FIELD TOUR</strong> Salisbury Council PART ONE Technical tour of Wetlands &amp; Harvesting Sites. Salisbury Council</td>
<td>City of Salisbury Please refer to further details on Page 3.</td>
</tr>
<tr>
<td>12:00 – 1:30pm</td>
<td><strong>LUNCH</strong> Watershed Café Salisbury Site</td>
<td>City of Salisbury</td>
</tr>
<tr>
<td>1:30 – 3:00pm</td>
<td><strong>FIELD TOUR</strong> Salisbury Council PART TWO Technical tour of Wetlands &amp; Harvesting Sites. Salisbury Council</td>
<td>City of Salisbury Please refer to further details on Page 3.</td>
</tr>
<tr>
<td>3:00 – 3:30pm</td>
<td>Closing Address and Thank You Return City West Campus.</td>
<td>Professor Jennifer McKay University of South Australia</td>
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### RECENT ARTICLES. *Hard copies will be available at the Symposium.*


PROFESSOR JENNIFER MCKAY
Jennifer is a Professor of Business Law and CCWPL Director in the School of Commerce within UniSA Business School. She has researched, taught, consulted on water resource management and law issues throughout Australia and in India and the USA and is a Part Time Commissioner of the SA Environment, Resources and Development Court. In 2008, she worked on the United Nations Expo 2008, and held a senior Fulbright at Berkeley. She has a BA Hons (Melbourne), LLB Adelaide, PhD (Melbourne) and Diploma in Human Rights Law from an American University in 2009. Her future research will be on groundwater laws and policies for the National Centre of Excellence for Groundwater Research and Training and human rights in relation to water.

ABOUT CCWPL
The work of CCWPL aims to lead world class research, quantitative and qualitative social science, on the implementation of policies and laws concerned with sustainable development of freshwater resources.

The applied research conducted in CCWPL seeks to be acknowledged as one of the primary nodes of water research in Australia and a key contributor to a small group of global research organisations informing international best practice.

Our research is focused on business forms for water supply and we conduct research with water supply businesses and customers. CCWPL has contributed to the implementation and redesign of several state and federal and international water use policies and laws.

Our research work has reduced the risk of unsustainable urban and rural fresh water policies, laws and practices.

CCWPL CURRENT PROJECTS
National Centre for Groundwater Research and Training
Groundwater accounts for over 30 per cent of Australia’s water consumption. However, we simply do not know enough about this vital water resource, and how to manage it. Severe droughts and climate change are placing extreme pressure on existing water supplies; there is an urgent need to expand and improve water management.

National Centre of Excellence in Desalination Australia
The National Centre of Excellence in Desalination (NCEDA) leads and coordinates Australia’s research in desalination technology. Through the NCED, Australia is building national capacity and capabilities in desalination with a dual focus on breakthrough
fundamental research and applied research with a goal of delivering meaningful improvements at commercial scale.

Optimal Water Mix Adelaide- Goyder Institute for Water Research-
The Goyder Institute brings together South Australia’s leading water research capabilities, in collaboration with the Commonwealth Scientific and Industrial Research Organisation into a single, comprehensive research program aimed at providing expert, independent scientific advice that informs good policy decision-making, identifies future threats to water security and assists in an integrated approach to water management.

ABOUT UNISA BUSINESS SCHOOL
The University of South Australia Business School is the state’s largest and one of the nation’s premier business schools, internationally recognised for its achievements.

The UniSA Business School comprises the five schools of Commerce, Law, Management and Marketing, and the International Graduate School of Business (IGSB). It is home to major research groupings in marketing, the regulation of markets and the economy, human resource management, accounting and governance and tourism and leisure management. Explore further and find out how you might engage with us.

The UniSA Business School is accredited by EQUIS - the EFMD Quality Improvement System. Accreditation is awarded to business schools only after a rigorous assessment by a panel of international academics and business people by the European Foundation for Management Development. Its latest re-accreditation took place in late 2010. Notably, the Business School was the first in Australia to attain accreditation for both our onshore and offshore operations.

The UniSA Business School is one of only 8 Australian business schools accredited by EQUIS. Worldwide, there are 140 EQUIS-accredited business schools across 40 countries in Europe, North and South America, Africa, Asia and Australia. EQUIS accredited institutions must demonstrate not only high general quality in all dimensions of their activities, but also a high degree of internationalization.

The UniSA Business School is awarded a world class ranking for leading research in the broad fields of Commerce, Management Tourism and Services, and in the specific fields of Applied Economics, Business and Management, and Marketing.

TECHNICAL TOUR
Salisbury Council
CCWPL CONTACT INFORMATION

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