Contents

Message from the Chair & Managing Director ........................................ 2
At a glance ............................................................................................. 4

Who we are ........................................................................................ 6
Our story .............................................................................................. 7
Shareholders ....................................................................................... 7
Partnerships ......................................................................................... 8
The Strategy ......................................................................................... 10

Our work ............................................................................................. 12
Sustainable Development Investment Portfolio ............................... 13
Secretariat for Nepal-Australia JAC .................................................. 14
Australia Awards Fellowships .......................................................... 14
Himalayan Water Leadership Programme ....................................... 16
South Australian-Rajasthan Water Management Fellowships ....... 17
RaCE WaRM ....................................................................................... 18
Gender equality, equity and social inclusion .................................. 18
Australian Water School .................................................................... 19

Highlights .......................................................................................... 20
South Australian Water Award .......................................................... 20
Smart Water Summit .......................................................................... 20
Women in Water Breakfast ............................................................... 21

Our people .......................................................................................... 22
The Board ........................................................................................... 22
Our team ............................................................................................... 23

Sponsorship ......................................................................................... 24
Watershed Art Prize ........................................................................... 24
WIA Smart Water Awards ................................................................. 25
AWA Young Water Professionals ..................................................... 25
Over the past 14 years ICE WaRM has had a positive influence on the careers and life journeys of professionals in the global water sector, many of whom now hold senior leadership roles in their home countries or internationally, in water policy, governance, regulation, service delivery or research.

We have continued to focus on providing support to countries in the Indo-Pacific region, working with governments to support inclusive economic development, equity in water resource management and to reduce transboundary and social tensions through evidence-based policy and practices in water sharing.

ICE WaRM has been a long-term partner in the Australian Government’s regional Sustainable Development Investment Portfolio initiative which seeks to improve water, food and energy security in South Asia. This initiative, the Australia Awards Fellowship programme and funding through the Australian Water Partnership, have enabled ICE WaRM to facilitate more strategic outcomes in countries in the region, in particular Bangladesh, India, Nepal and Pakistan.

The leadership by the South Australian Government in economic engagement with India has been supported by ICE WaRM in the establishment of the Rajasthan Centre of Excellence in Water Resources Management and stronger cooperation with other Indian states including Maharashtra, Andhra Pradesh and Telangana.

ICE WaRM was established as a partnership model, a portal to leading Australian expertise and a vehicle to engage with international partners to advance sustainable water resources management. We have continued to strengthen existing partnerships and establish new partnerships. A key focus has been adding value to shareholding universities and establishing new collaborative opportunities with partner universities and CSIRO.

Our free webinar programme which commenced in June 2016, presents innovative approaches and thought leadership to the global water community. Audience participation from Australia and around the world, has increased considerably, highlighting the outstanding success of the Australian Water School in providing knowledge and building confidence and understanding in the application of leading practices.

We are grateful to the very talented and dedicated ICE WaRM team who have been incredible in charting new pathways that support our alumni with opportunities for learning and the application of that learning in a rapidly changing environment.

Thank you to the Directors of the Board who have contributed so much to the strategic positioning and strong governance of ICE WaRM to maximise the value to shareholders, clients and the global water community.
"ICE WARM HAS HAD A POSITIVE INFLUENCE ON THE CAREERS AND LIFE JOURNEYS OF PROFESSIONALS IN THE GLOBAL WATER SECTOR"
Hosted three Department of Foreign Affairs and Trade (DFAT) Australia Awards Fellowship (AAF) programmes for Indian Fellows on Irrigation, Groundwater and Transboundary Water Management.


Through the Australian Government’s Australia India Council grants programme, facilitated 7 Fellows from Rajasthan, India, to participate in a 6-week intensive research programme in Adelaide.

Partnered with DFAT (SDIP) and CSIRO to lead expert advisory working group meetings in Pakistan.

Supported the Maharashtra Government’s water delegation during a 3-day programme in Adelaide.

Co-hosted a high-level delegation from China Water Exchange (CWEX), the Ministry of Water and business executives, in a 5-day study tour focused on water trading in the southern Murray-Darling Basin region.

Partnered with ICIMOD and the Himalayan University Consortium to deliver a 12-day intensive Water Leadership Programme in Australia to participants across disciplines of water studies and water resource management in the Hindu Kush Himalayan region.

Worked in partnership with TERI School of Advanced Studies in India, to deliver a Management Development Programme on Gender, Equity and Water Management in Guwahati.

Worked collaboratively with South Australia’s Department of Environment, Water and Natural Resources (DEWNR) to deliver two round table discussions to reform the state’s water register.

Attended the Australian Government Productivity Commission Inquiry into National Water Reform in Adelaide and submitted comment advocating research and capacity development, renewal of the National Water Initiative and meeting international obligations.

Appointed as Secretariat for Nepal-Australia Joint Advisory Committee on Water Resources Management in Nepal.

Assigned responsibility of the memorandum of understanding between the South Australian Government and Government of Rajasthan, to work with the Rajasthan Centre of Excellence in Water Resources Management (RaCE WaRM).

Appointed to provide strategic advice to the South Australian Government for international water engagement, trade and investment.
AROUND THE GLOBE


3rd Asia-Pacific Water Summit held in Yangon, Myanmar and launched Ayeyarwady State of the Basin Assessment (SOBA) in partnership with the Australian Water Partnership (AWP).

Presented at the Sustainable Development Goals Workshop at Ozwater 2017 in Brisbane, Australia.

Jointly hosted the 2nd Women in Water breakfast in Adelaide with local water organisations.

Presented at the 5th AWA/IWA Young Water Professionals Conference in Melbourne, Australia.


Advisory partner of the Water Innovation Lab held in Melbourne, Australia.

Presented a symposium on Climate Change and Adaptation/Mitigation to Floods/Droughts at International Commission on Irrigation and Drainage (ICID) 8th Asian Regional Conference, Irrigation in Support of an Evergreen Revolution in Nepal.


3rd Asia-Pacific Water Summit held in Yangon, Myanmar and launched Ayeyarwady State of the Basin Assessment (SOBA) in partnership with the Australian Water Partnership (AWP).

Presented at the Sustainable Development Goals Workshop at Ozwater 2017 in Brisbane, Australia.

Jointly hosted the 2nd Women in Water breakfast in Adelaide with local water organisations.

Presented at the 5th AWA/IWA Young Water Professionals Conference in Melbourne, Australia.


Advisory partner of the Water Innovation Lab held in Melbourne, Australia.

Presented a symposium on Climate Change and Adaptation/Mitigation to Floods/Droughts at International Commission on Irrigation and Drainage (ICID) 8th Asian Regional Conference, Irrigation in Support of an Evergreen Revolution in Nepal.


3rd Asia-Pacific Water Summit held in Yangon, Myanmar and launched Ayeyarwady State of the Basin Assessment (SOBA) in partnership with the Australian Water Partnership (AWP).

Presented at the Sustainable Development Goals Workshop at Ozwater 2017 in Brisbane, Australia.

Jointly hosted the 2nd Women in Water breakfast in Adelaide with local water organisations.

Presented at the 5th AWA/IWA Young Water Professionals Conference in Melbourne, Australia.


Advisory partner of the Water Innovation Lab held in Melbourne, Australia.

Presented a symposium on Climate Change and Adaptation/Mitigation to Floods/Droughts at International Commission on Irrigation and Drainage (ICID) 8th Asian Regional Conference, Irrigation in Support of an Evergreen Revolution in Nepal.

ARRANGED THE GLOBE

SPONSORSHIP

Sponsored the 2017 Water Industry Alliance Smart Water Awards, the City of Salisbury Watershed Art Prize for the 10th year running and a South Australian, Australian Water Association (AWA), Young Water Professional event.

TRAIING

Delivered 24 free webinars on water management, innovation and research across 79 countries.

Delivered 1-day workshop on Managing Your Water Assets, South Australia.

Provided 5-day face to face HEC-RAS Water Modelling training in Sydney, Australia.

Provided 2-day face to face intensive workshop and field trip on Managed Aquifer Recharge (MAR), Perth, Australia.

PARTNERSHIPS

Joined as a participant to the CRC for Water Sensitive Cities and signed a memorandum of understanding with the CRC for international collaboration.

Signed a memorandum of understanding with the University of Technology Sydney.

Signed a memorandum of understanding with Marsden Jacob Associates.

Presented at the Sustainable Development Goals Workshop at Ozwater 2017 in Brisbane, Australia.

Presented at the Sustainable Development Goals Workshop at Ozwater 2017 in Brisbane, Australia.

Presented at the Sustainable Development Goals Workshop at Ozwater 2017 in Brisbane, Australia.

Presented at the Sustainable Development Goals Workshop at Ozwater 2017 in Brisbane, Australia.
ICE WaRM is recognised globally for leadership and innovation in collaborative approaches to capacity development for water management and sustainable economic development.

Our purpose is to promote and facilitate access to Australian expertise in water resource management, training, education, research and consulting. As a result, water leaders are inspired and empowered to influence change for the sustainable management of water resources and improve livelihoods, and the health of communities and the environment.

The people we strive to benefit are current and emerging water leaders, water professionals, governments, civil society and communities, dependent on the water economy.

ICE WaRM is governed by a shareholder appointed Board of Directors and is responsible for strategy including how to best support innovation across the water sector. The Board met seven times during this financial year.

The values which define our culture, relationships and approach are:

- **Respect** – we value diversity, social inclusion and gender equity
- **Integrity** – we are honest and truthful in our relationships and actions
- **Trust** – we are reliable as a friend, mentor, partner and collaborator
- **Innovation** – we encourage innovation in our programmes and services
- **Accountable** – we are accountable for everything we say and do

**Australian Water School**

The Australian Water School (AWS) is an ICE WaRM initiative which delivers ICE WaRM’s training.

The school works with over 150 advisors and presenters who are professionals from leading industry, government, education and research organisations.

**Water Resources Management Trust**

The Water Resources Management Trust, and its public fund, the Water Training, Education and Research Fund, manages Fellowships for professional and personal development.
Our story

In December 2004, a consortium of partners including five universities (University of South Australia, Adelaide University, Flinders University, Central Queensland University and Deakin University) together with financial support from the South Australian Government, were awarded Federal Government funding from the Department of Education, Science and Training to establish an International Centre of Excellence in Water Resources Management.

WaterEd Australia Pty Ltd was incorporated with an independent Board of Directors and is governed by a Shareholders’ Agreement and Constitution.

ICE WaRM’s first initiative was developing and launching the nested Master of Water Resources Management programme delivered through partner universities. Further academic programmes followed, offering support for research students and exchange opportunities for post-graduate students with partner universities in Europe.

In line with Australia’s reputation for excellence in water resources management, ICE WaRM has gone on to develop extensive international alliances and create customised education and training courses for overseas governments and water organisations.

In 2008 an environmental trust, the Water Resources Management (WaRM Trust) was established to provide a scholarship and visits and exchange programme for water research management scholars. The trust continues to receive funding and donations for this purpose.

ICE WaRM has a long-standing partnership agreement with the Department of Foreign Affairs and Trade (DFAT) for the Sustainable Development Investment Portfolio which commenced in 2012. Phase 2 of SDIP, which seeks to improve water, energy and food security in South Asia, is funded until June 2020.

In 2013, the then South Australian Department of Environment, Water and Natural Resources and ICE WaRM established an agreement to support international water engagement. This agreement concluded in December 2017. In June 2018, the Department for Environment and Water funded ICE WaRM to support international water engagement, trade and investment and provide a resource as the Strategic Adviser.

ICE WaRM’s current shareholders are the University of South Australia, Adelaide University, Flinders University, Central Queensland University and AITEC Corporate Education and Consulting who continue to support ICE WaRM’s objectives.

Shareholders

- University of Adelaide
- Central Queensland University
- Deakin University
- Flinders University
- Adelaide University

ICE WaRM's current shareholders are the University of South Australia, Adelaide University, Flinders University, Central Queensland University and AITEC Corporate Education and Consulting who continue to support ICE WaRM’s objectives.
Partnerships

ICE WaRM has memoranda of understanding and partnership agreements with leading Australian and international experts and research and academic institutions. These partnerships contribute expertise and outstanding thought leadership to our work.

This year ICE WaRM joined as a participant of the CRC for Water Sensitive Cities and established an MoU for knowledge transfer which allows ICE WaRM to take a stronger role in the capacity development for water solutions in liveable and resilient cities and the adoption of water sensitive solutions in addition to equitable universal access to safe drinking water and sanitation.

An MoU was signed with Marsden Jacob and Associates to undertake cooperative activities in training and stakeholder engagement for the sharing of knowledge and understanding of water markets.

ICE WaRM also signed an MoU with Institute of Sustainable Futures for the University of Technology Sydney. The Director of the Institute of Sustainable Futures, Prof Stuart White, invited ICE WaRM to join the University Global Water Security Network. ISF organised a soft launch of the Network and a website at the IWA World Water Congress and Exhibition in Tokyo in September 2018 and co-ordinated a workshop at the IWA Congress on Water Urban Security. ICE WaRM is working to strengthen the collaboration with projects featured on the website.

We continue as a partner of the Commonwealth Scientific and Industrial Research Organisation (CSIRO), a keynote partnership with the National Centre for Groundwater Research and Training (NCGRT) and is a member, and host, of the Goyder Institute for Water Research collaboration.

The South Australian Department of Environment and Water appointed ICE WaRM to partner as the Strategic Adviser for International Water Opportunities with a focus on working with the Water Industry Alliance to facilitate the growth of the South Australian water sector through increased trade and investment.
The Strategy

Looking forward over the next three-years, ICE WaRM will focus on five strategic goals which will guide us to maximise the impact of our contribution to the United Nations Sustainable Development Goals.

ICE WaRM has a focus, and programmes, that support the achievement of multiple SDGs, as the goals are not separable. That is to progress SDG number 6: Ensure availability and sustainable management of water and sanitation for all; advancement is required for the interdependent SGDs, in particular SDG 17: Strengthen the means of implementation and revitalize the global partnership for sustainable development.

The strategic plan is committed to developing excellence in the strategic leadership of water management. Our specific focus is assisting leaders within Governments to develop and implement content specific water policies and the necessary governance and institutions. Our plan includes a commitment to provide access to thought leaders, innovative solutions and lessons from the practical application on new knowledge, or existing knowledge in new applications.

We are seeking to expand the work of the Australian Water School through communities of interest and working with global partners to provide an affordable portal for networking and collaboration.

Underpinning these aspirations is the requirement for ICE WaRM to remain financially sustainable and continue to be a trusted partner, coach and mentor.
### STRATEGIC GOALS

<table>
<thead>
<tr>
<th>WATER LEADERSHIP</th>
<th>DEVELOP GLOBAL EXCELLENCE IN STRATEGIC WATER LEADERSHIP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Water leaders in the Indo Pacific region have the confidence and capacity to develop and implement water policy, reflecting sustainable development principles, for shared social, ecological and economic outcomes. Centres of excellence, providing evidence-based policy and practice, for sustainable water management, are supported through collaboration with ICE WaRM. Contributed to the advancement of the Sustainable Development Goals.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INNOVATION</th>
<th>FACILITATE THE DEVELOPMENT AND ADOPTION OF INNOVATIVE PRACTICES IN WATER MANAGEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Australian expertise in water management, training, education and research is expanded and shared with the global community. Educational, training and professional development resources deliver innovative, evidenced based and contextual knowledge in water management. Partnerships and collaborations enable the application of new knowledge to improve water security and climate resilience.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVERSITY</th>
<th>SUPPORT GENDER EQUALITY, EQUITY AND SOCIAL INCLUSION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ICE WaRM programmes champion gender equality, equity and social inclusion. Organisations which embrace gender equality, equity and social inclusion programmes partner with ICE WaRM. ICE WaRM is an inclusive organisation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INNOVATION</th>
<th>DELIVER INNOVATION AND THOUGHT LEADERSHIP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The Australian Water School is the preferred learning platform for water knowledge. Tailored learning programmes fulfill partner expectations. The Australian Water School supports communities of interest for water knowledge sharing, learning and inspiration to enact change.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FINANCE</th>
<th>OPERATE AS A FINANCIALLY SUSTAINABLE ORGANISATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ICE WaRM has engaged staff, shareholders and strong partnerships. ICE WaRM has long term financial support from governments, aid agencies and donors, for our work. ICE WaRM invests in long term relationships with clients and partners.</td>
</tr>
</tbody>
</table>
ICE WaRM is passionate about being an independent, trusted and reliable partner with over a decade of experience working with the international community. We strive to develop excellence in water leadership through capacity development, mentoring, collaboration and the sharing of water knowledge.

Our work supports governments, and government agencies in their journey renewing water policies, and enabling water governance and regulation. It is critical that strong, capable and confident public sector institutions emerge, and are sustained, to manage the water security challenges required for resilient and liveable cities, productive agriculture and ecological services.

With over 500 alumni since 2004, ICE WaRM continues to support communities of interest and leaders in water. In 2017-18 our primary focus has been to work with partners and countries in South Asia on regional challenges including transboundary water management, groundwater management, river basin planning and sustainable agriculture. These countries include Bangladesh, Nepal, India and Pakistan.

ICE WaRM has also been working with the Hohai University in Nanjing and the Province of Jiangsu in China and is looking forward to increased collaboration in the next financial year on river basin management, focused initially on improving the health of the Taihu Basin. ICE WaRM is also working on supporting alumni in South East Asia, Africa and South America.

*HE Ms Harinder Sidhu, Australia’s High Commissioner to India speaking at the 3rd Water Innovation Summit 2017, held in Delhi by the Confederation of Indian Industries (CII-Triveni Water Institute)*
The Sustainable Development Investment Portfolio (SDIP) is an Australian government initiative which aims to increase water, food and energy security in South Asia, through better regional cooperation, policy reforms, technology transfer and capacity building targeting the poorest and most vulnerable, particularly women and girls.

SDIP seeks to respond to major regional development challenges, improving transboundary water resource management, increasing access to energy and energy connectivity, and increasing agricultural productivity and farm incomes. SDIP targets these three inter-related sectors where Australia is uniquely placed to contribute its expertise and technologies.

SDIP focusses on the three major Himalayan river basins, the Indus, Ganges and Brahmaputra, which span North-East India, North East Pakistan and the bordering countries of Bangladesh, Nepal and Bhutan.

SDIP Phase 1 commenced in 2012 and is designed as a 12-year programme, concluding in 2024. ICE WaRM successfully contributed to outcomes for Phase 1, and in 2016 ICE WaRM was awarded a partnership in Phase 2 until June 2020.

In Phase 2, ICE WaRM is addressing the SDIP 2020 outcomes by targeting its work towards achieving the following, under each of the three portfolio outcomes:

1. Strengthened mechanisms for regional cooperation: operating at a regional, national and/or sub-national level in the sub region.
2. Critical new knowledge generated and used: within the priorities acknowledged by regional forums, governments and national bodies and addressing knowledge gaps through science and/or well evidenced and reflective practice.
3. Improved enabling environment: within the policies, regulations, market systems and investment conditions for cross border management of shared water, food and energy resources.

SDIP Partners
- The Department of Foreign Affairs and Trade
- Australian Centre for International Agricultural Research (ACIAR)
- The Asia Foundation
- Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- International Centre of Excellence in Water Resources Management (ICE WaRM)
- International Centre for Integrated Mountain Development (ICIMOD)
- International Finance Corporation (World Bank Group)
- South Asia Water Initiative (SAWI)
Australia Awards Fellowships

The Department of Foreign Affairs and Trade (DFAT) Australia Awards Fellowship (AAF) programme provides opportunities for Australian organisations to deepen and broaden their links with leaders and professionals in developing countries by enabling Fellows to undertake short-term study and professional development.

From January 2018 until the end of June, ICE WaRM hosted three of these Fellowships from India, providing capacity development through short courses, field visits and participatory workshops.

The programmes focused on strengthening relationships with the Government of Rajasthan and the Governments of Andhra Pradesh and Telangana to share expertise on water management including transboundary management, governance, efficient irrigation and management of groundwater resources.

As regions with comparable water conditions to South Australia, water professional delegates were offered programmes that showcased technologies as well as Australian expertise and offered knowledge sharing opportunities between Indian and Australian organisations.

Advancement in irrigation technologies (11/01/2018 – 03/02/2018)

The first group of 14 Fellows, including five women, from the states of Andhra Pradesh and Telangana arrived in January. Given that the two states were newly formed, there was a need to prepare for new transboundary water management challenges.

Along with learning about the science of irrigation management, transboundary collaboration was actively promoted through the mix of states, institutions and professional backgrounds of the participants taking part.

Follow-up plans for applying and sharing the new learning gained were developed during the programme and subsequently supported by ICE WaRM. These included an Action Plan that each participant aimed to implement upon return. ICE WaRM convened a follow-up workshop in April 2017 in Hyderabad to assist in the implementation of the action plans.

Support from WALAMTARI in Hyderabad and PHED in Jaipur, is gratefully acknowledged.

Secretariat for Nepal-Australia Joint Advisory Committee on Water Resources Management in Nepal

The Nepal – Australia Joint Advisory Committee on Water Resources Management (JAC) was established to facilitate cooperation between Nepal and Australia in the water sector. ICE WaRM continues to convene the JAC under the MoU, which was renewed in November 2017, between the two governments. In this role, ICE WaRM brings together stakeholders in water management and associated agencies of both countries, acting as a broker of expertise for the improved planning and management of Nepal’s water resources.

Challenges being considered include the implementation of a new National water policy and associated legislation, the devolution of water management responsibilities to Nepal’s seven provinces, the need for basin planning, and the increased demand for hydropower infrastructure.

Within this context, ICE WaRM liaises between the Government of Nepal, with strong support from the Australian Embassy and Australian Ambassador, HE Pete Budd. ICE WaRM’s role as an SDIP partner has allowed us to greatly enhance the impact of our work in Nepal.
Enhancing effective governance in Transboundary Water Resources Management and Development  
(3/05/2018 – 26/05/2018)

Another group of 14 Fellows, including four women, from Andhra Pradesh and Telangana arrived in May for a programme that addressed transboundary water management issues which evolved from the recent division of Andhra Pradesh into two states.

ICE WaRM delivered a programme that covered state-based water management and the cultural complexities of the governance of water resources in a transboundary context.

The group was introduced to Australia’s journey in developing water policy frameworks and governance across State boundaries. Presenters and well-regarded experts in water policy, governance and water resources management, Susana Neto from the University of Lisbon and Jeff Camkin from the University of Western Australia led the second week of the programme exposing the group to Australian and international examples of transboundary water management strategies.

A key outcome for the group was creating a set of recommendations for a regional plan to share water benefits. This was inspired by previous and ongoing experiences in the two States, and other neighbour ones, and based on existing projects such as those for the Krishna and Penna rivers.

Another outcome was the development of transboundary cooperation between the participants and enhanced capacity to engage in conversations about these issues. This was highly successful given the level of positive interaction displayed, including collaboration on preparation and delivery of group presentations.

A follow up visit to support implementation of the action plans is planned for August 2018.

Integrated groundwater management  
(29/06/2018 – 21/07/2018)

14 Fellows, including two women, from the Public Health Engineering Department (PHED) and Groundwater Department in Rajasthan arrived in late June to participate in a programme which focussed on strengthening the management of groundwater resources in Rajasthan.

This programme also provided an opportunity to build on the sister state relationship between the Government of South Australia and the State of Rajasthan in India. Rajasthan is a desert state, there is a lack of basic services in its cities and many households are without piped water connections, a toilet or access to wastewater treatment facilities. Despite this, Rajasthan is a progressive state and today more than 3 million people benefit from improved drainage which has led to a decline in water-borne disease.

Dr Adam Loch from the University of Adelaide introduced water governance and Australia’s history of water policy. The course content then focussed on groundwater management in an Integrated Water Resource Management (IWRM) framework, with specialist input provided through the National Centre for Groundwater Research and Training (NCGRT), an established ICE WaRM partner.

The Fellows were also introduced to innovative approaches to project management and implementation through the New Venture Institute of Flinders University; and were shown South Australia’s infrastructures through field trips to SA Water Laboratories, Happy Valley Reservoir and the Desalination Plant.

The Hon Karlene Maywald, the Strategic Advisor, International Water Opportunities with the South Australian Government, also facilitated a workshop where the Fellows heard from key South Australian experts and discussed at length how South Australia’s water experience could inform decision making in Rajasthan.

A follow up visit to support implementation of action plans is planned for August 2018.
In April 2018 ICIMOD and ICE WaRM co-organised a 12-day intensive Water Leadership Programme in Australia for Senior and mid-level scholars and faculty members across disciplines of water studies and water resource management in the Hindu Kush Himalayan region.

The Programme provided a unique opportunity for the participants to learn from Australian experiences in water policy reform and improved use and management of water resources.

More specifically, the Programme focused on integrated river basin management (IRBM) and governance, including various aspects of the integrated water resources management (IWRM) approach, including gender, ecosystems, social inclusiveness and community engagement, public and private cooperation, and water sharing between sectors and across states.

Discussions with a panel of Riverland community and irrigation industry leaders highlighted the importance of putting community and industry first in major planning reforms. This focus complemented the preceding days of meetings along the Murray-Darling Basin with bureaucrats and scientists on River ecology, legislation, policies, planning, and environmental and infrastructure programs.

While issues of driving forces for reform and governance differed significantly between countries, the importance of organising community to provide them with a voice that is heard by reform makers was agreed by all. The industry and community panel also proved to be an extremely effective way of demonstrating the importance of community voice in the context of our Murray-Darling Basin reforms.

The visit was highly successful with Mayor Leon Stasinowski welcoming the return of this and similar delegations to the region. ICE WaRM will continue to promote the Riverland region to international delegations.
South Australia-Rajasthan Fellowship

To mark the establishment of the International Centre of Excellence in Water Resources Management in Rajasthan, (RaCE WaRM), the South Australian Government offered three Fellowships to outstanding applicants from Rajasthan to undertake a research placement at a participating South Australian research institution.

Applications were sought from highly-qualified Masters or PhD level students or Post-PhD individuals or experts wanting to participate in research and advance their scientific knowledge in water resources management.

The Selection Committee recommended that the Fellowships be awarded to not just three, but six of the candidates, with CSIRO funding a seventh fellow (under the CSIRO – ICE WaRM Collaboration Agreement).

The seven Fellows were able to undertake a 6-week intensive research program in Adelaide thanks to support from:

- The Australian Government’s Australia India Council grants program
- the WaRM Trust grant
- funding from the Department of State Development (DSD)
- CSIRO

The two research Fellows from the College of Technology and Engineering, MPUAT and Vidhya Bhawan Krishi Vigyan Kendra, undertook their programme from 1 April – 30 June 2017. Two female Masters students from Malaviya National Institute of Technology (MNIT), and three water professionals from the Public Health and Engineering Department undertook their programmes from 4 November to 18 December 2017. The remaining two water professionals from the Water Resources Department undertook their programmes from 22 November – 22 December 2017.

The Fellows shared knowledge and expertise with counterparts at the South Australian Water Corporation (SA Water), the South Australian Department of Environment, Water and Natural Resources (DEWNR), Flinders University and CSIRO.

The programme was designed to promote people-to-people links and support for the Australian Government’s international policy goals through increased understanding of the cultures and opportunities in each of these countries. ICE WaRM’s priority consideration in the programme was for the development of new innovative ventures that build on water technology and the programme included field trips showcasing South Australia’s infrastructure and technology.

Jodhpur City, the second largest city of Rajasthan State, is known for deep ground water and has no major water body due to limited rainfall. It had experienced a drinking water shortage for centuries until Himalayan water reached abundance in 1996. Some of the areas of interest for the Fellows include achieving efficient and sustainable water use and designing a Smart Water Distribution Network.

As part of this programme, the Fellows were able to present their research globally through delivery of ICE WaRM webinars showcasing their research findings. The Fellows are now extensively involved in projects for the International Centre of Excellence in Water Resources Management in Rajasthan.
The Rajasthan Centre of Excellence in Water Resource Management (RaCE WaRM) was established following a sister state agreement with the State Government of South Australia by the Government of Rajasthan, to build on mutual capabilities and meet the needs of the people in both regions.

A Memorandum of Understanding was signed by the two Governments in 2016 and the South Australian Government engaged ICE WaRM to develop a solid foundation for RaCE WaRM. This MoU committed to establishing RaCE WaRM through activities and outcomes, infrastructure and personnel. The focus of ICE WaRM’s partnership with the South Australian Government and RaCE WaRM is to support progression towards SDG6, and related SDGs in particular, the integrated management of water resources, the integrated management of urban water, improvement in the water-nutrition nexus and reduction in childhood mortality.

Inspired by ICE WaRM’s innovation in collaborative approaches to water resource management through its partnerships, a Memorandum of Understanding (MoU) was signed between RaCE WaRM and the Malaviya National Institute of Technology (MNIT), Jaipur in September 2017. It aims to support evidence-based policy and the provision of water services, aligning research and knowledge transfer with priorities for the people of Rajasthan. The MoU also connects with South Australian Government support through ICE WaRM and its shareholder universities including the University of Adelaide, Flinders University, the University of South Australia.

ICE WaRM hosted 14 engineers from the Rajasthan Public Health Engineering Department (PHED) under the Australia Award Fellowship (AAF) programme. Participants were selected by RaCE WaRM for the 3-week programme on Integrated Groundwater Management.

South Australian company Hydro-dis partnered with MNIT to evaluate a demonstration disinfection plant in a 400-student accommodation unit in Jaipur. The testing programme was designed to facilitate Indian certification of the Hydro-dis technology as a pathway for installation throughout India.

Following successful completion of the evaluation phase of the demonstration unit, Hydro-dis, in partnership with the Rajasthan PHED (who have provided suitable sites), RaCE WaRM and MNIT reconfigured the demonstration unit for two field trials sites.

ICE WaRM is looking forward to providing ongoing support to RaCE WaRM, and other strategic relations in India.

ICE WaRM is working to support gender equality, equity and social inclusion in the water sector, both in Australia and overseas.

When women are present, their voices may not be heard or may not be valued, even though they play a central part in the provision, management and safeguarding of water. To advance women’s participation in water and river management, it is crucial to bridge the existing knowledge-governance gap and this requires a paradigm shift.

ICE WaRM have been working with TERI School of Advanced Studies in India to develop and deliver a gender programme to better inform and motivate men and women, to make changes within their overall sphere of influence as well as to emerge as stronger advocates for gender equity at a personal level.

The first Management Development Programme on Gender, Equity and Water Management was held in Delhi in November 2016 and followed with a second programme held in March 2018, this time in Guwahati, Assam, in India’s northeast.

The two-day workshop was strongly engaged by the Assam Public Health and Engineering Department, as well as officers from the World Bank funded Neer Nirmal Pariyojana project for safe and clean water supply in rural Assam and the Water and Sanitation Support Organisation (WSSO).

Further programmes are anticipated for August and December 2018 and into 2019. This work is supported by the Sustainable Development Investment Portfolio (SDIP) programme funded by the Australian Department of Foreign Affairs and Trade (DFAT).

ICE WaRM also champions gender equity through our other programmes by ensuring that women are offered the same opportunities to participate. We have been extremely pleased that a number of the Australia Award Fellowship participants that came to Australia were highly qualified, female water professionals and experts in their field.
The Australian Water School (AWS) is an ICE WaRM initiative which delivers our training. In 2017-18 we had 2,459 registrations and delivered 24 webinars across 79 countries.

The school works with over 150 advisers and presenters who are professionals from leading industry, government, education and research organisations. They are highly regarded mentors who cultivate strong ties between water science, policy and practice.

This enables the AWS to deliver a comprehensive range of training, webinars and resources in water management. AWS is also positioned to design and deliver innovative short courses tailored to specific requirements.

Over the year, the demand for relevant training was evident from the increased attendance at our webinar programme. As a result, the AWS will provide online short courses in topics for which there is the most demand.
**Smart Water Summit**

ICE WaRM partnered with the Water Industry Alliance to present Adelaide’s first Smart Water Summit held on 22nd and 23rd March 2018.

The event coincided with World Water Day and featured prominent local, national and international presenters from a wide range of backgrounds in water.

The conference was designed to provide delegates with an opportunity to take charge of their experience by creating a platform for professional development in an innovative and engaging manner. It also created a supportive environment for delegates to openly share their thoughts and provide input into future directions in Australia’s water industry.

Summit delegates represented all levels of government as well as researchers, contractors, suppliers, non-government organisations and consultants.

---

**Award**

Former ICE WaRM CEO, Richard Hopkins, was awarded the Premier’s Water Medal for Water Professional of the Year at the 2017 Australian Water Association’s, South Australian Water Awards, which recognises outstanding individual contribution to the water industry, or management and conservation of water in the state.

Richard has had an extensive career in water management and is recognised as an international expert in his field, having worked for over 40 years and in more than 20 countries. In recent years, his leadership has led to the recognition of ICE WaRM as the premier water training centre in Australia—a critical factor in establishing South Australia’s reputation as a world leader in water resources management.

Through his leadership, strong links have been developed between ICE WaRM, the Water Industry Alliance, Goyder Institute for Water Research, SA Water and the three main South Australian Universities, ensuring a concerted and consistent promotion of the water resources management expertise in the State.

---

Premier’s Water Medal for Water Professional of the Year, was awarded to Richard Hopkins (accepted by son Robert)
Recognising the low representation of women, especially in leadership roles, as a concern for the future of the water sector in South Australia, ICE WaRM and several other organisations in the water sector, jointly hosted the second Women in Water breakfast series, held at the Adelaide Convention Centre.

Following on from past success, this year’s event explored science, technology, engineering and mathematics (STEM) careers within the water industry and the opportunities and challenges faced by women.

Over 100 water industry professionals attending the event heard from inspiring Australian women who have excelled in STEM careers and who are passionate about raising the profile of women in STEM. Featured speakers included Chief Scientist for South Australia, Dr Leanna Read, Karen Simpson from Australian Water Quality Centre and Dr Claudia Szabo from the University of Adelaide.

These events provide a forum for learning and an opportunity for networking with women in the water sector across the state.

Women in Water Breakfast

ATTENDEES
174
COMPANIES
81
SPEAKERS
42
ICE WaRM is governed by an independently appointed Board of Directors.

**Karlene Maywald**
Chair
FTSE GICD, DUNIV(Flin)

Karlene Maywald is the Strategic Advisor, International Water Opportunities with the South Australian Government and the Managing Director of Maywald Consultants Pty Ltd, providing water policy and government relations advisory services. Ms Maywald has been ICE WaRM’s Chair since 2016.

**Judith Bradsen**
Deputy Chair
LLB, BA, Dip T, LLM, Law, Arts, Teaching (University of Adelaide, University of Melbourne)

Judith Bradsen joined the ICE WaRM Board in 2014 and retired from her legal practice in December 2016. Judith now provides occasional consulting services relating to environmental and sustainability subjects.

**Darryl Day**
Director
BE (Civil) University of Adelaide, GAICD, Fellow IEA, Fellow International Water Association

Darryl joined the ICE WaRM board in 2014 and became Managing Director in September 2016. He Chairs the International Water Association – Australian National Committee and is Co-Chair of the Programme Committee for the Singapore International Water Week – Water Convention. Darryl is also Chair of the Industry Advisory Board of the School of Engineering and Information Technology of Charles Darwin University.

**Robert Skinner**
Director
BE (Civil), MSc, FIEAust, FIWA, MAICD

Robert Skinner is Professorial Fellow and Director of the Monash Water for Liveability Centre at Monash University in Melbourne. Chair of WaterAid Australia, Chair of WaterAid International and Deputy Chair of the Cooperative Research Centre for Water Sensitive Cities. Robert joined the ICE WaRM Board in 2014.

**Professor Cynthia Mitchell**
Director
FTSE, FIEAust, FICDA, Hon Dtech (CTH, SE), PhD, BE, Dip Bus

Cynthia Mitchell is Deputy Director of the Institute for Sustainable Futures at the University of Technology Sydney, Chair of FoodSwell Ltd, and Chair of the UKCRIC International Advisory Board. Cynthia joined the Board of ICEWARM in January 2017.

**Dr Peter Wallbrink**
Director
BSc (Hons), PhD, MAICD

Dr Peter Wallbrink is the Research Director for Basin Management Outcomes, CSIRO Land and Water and joined the ICE WaRM Board in 2017. Peter is currently a member of the International Advisory Board for Oxford University for their Managing Risks, Impacts and Uncertainties of Drought and Water Scarcity (MaRIUS) Portfolio.
Our team

Darryl Day
Managing Director

Joel Voortman
Business Development Manager

John Howard
International Water Executive Advisor

Cameron Miller
Chief Financial Officer

Molly Sng
Administration Officer

Pradeep Mathur
Partnership Support Adviser, Water Sector, Rajasthan

Ian Reid
Chief Academic Officer

Claudia Alfaro
Senior Project Coordinator

Keshab Dhoj Adhikari
Executive Sector Specialist

Trevor Pillar
National Partnerships Manager

Danielle Cooper
Executive Assistant

Risyana Sukarma
Partnership Support Adviser

Michelle Ha
Marketing Communications Manager

Madeline Ochse
Administrative Assistant

Le Van Minh
Partnership Support Adviser

Andrew Johnson PSM
Executive Sector Specialist
ICE WaRM has been an ongoing sponsor of the City of Salisbury Watershed Art Prize since 2009. This annual community event encourages the awareness of water as a precious resource and invites South Australian artists to explore water conservation and the role it plays in creating a more liveable environment.

“The Night Watch” is the title of the 2018 winning artwork painted by Gerhard Ritter.

To celebrate our principle sponsorship for the tenth year running, ICE WaRM marked the occasion with an additional 10 Year Exhibition showcasing past winners from 2009-2017.
In 2018 the Water Industry Alliance (WIA) celebrated two decades of experience in promoting the businesses of the South Australian water industry, facilitating collaboration, advancing public policy and advocating for the industry. WIA is unique in Australia, providing a connection between water services and solutions domestically and internationally. ICE WaRM has been a member of WIA since 2003 and a continuous sponsor of the WIA Smart Water Awards for the past 12 years. In July 2017 Andrew Johnson PSM, Executive Sector Specialist, was awarded the SA Water Leadership Award.

Since 2005 ICE WaRM has been a corporate member of the Australian Water Association (AWA), Australia’s largest water network promoting sustainable water management. ICE WaRM was proud to sponsor a South Australian, Australian Water Association Young Water Professional event in 2018, supporting emerging leaders in the water sector. Through the sharing of knowledge and experience The Young Water Professional Program exists to attract, engage and empower Australia’s young water professionals. The YWPs are 50/50 male and female changing the balance of what was traditionally a male dominated sector.