

Young Water Leaders Summit (YWLS)

1 – 5 June 2014

Singapore International Water Week's
Inaugural YWLS Report



Singapore
International
Water Week



This document was created for
PUB, Singapore's National Water Agency

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THE GLOBAL PLATFORM TO SHARE AND
CO-CREATE INNOVATIVE WATER SOLUTIONS

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The Young Water Leaders Summit was organised by:



In partnership with:



Table of Contents

Introduction	1
Opening Plenary - Key Note Speakers	2
Young Water Leaders Forum Session 1 - Water Security for the Future	3
Young Water Leaders Forum Session 2 - Sanitation for All: Empowering Youth to Improve Sanitation in Asia	5
Young Water Leaders Forum Session 3 - Water Stewardship.....	7
In Dialogue With Minister Grace Fu	9
Water Professionals Panel	12
Afterword	15
The Action Plan.....	16
Young Water Leaders Summit 2014 Programme	i

Introduction

The inaugural Young Water Leaders Summit (YWLS) is one of the flagship events under Hydro-Gen (short for “Hydro Generation”), the youth and talent development programme at the Singapore International Water Week 2014. As a pioneering initiative of SIWW, Hydro-Gen provides a series of engaging activities for a wide range of young talent from the globe to grow as the future generation of water leaders.

YWLS 2014 brought together approximately 100 young water leaders from over 30 countries. Set out to be a platform to influence, equip and transform the water leaders of the future to become effective catalysts of continuous change in the water world, YWLS provided well-structured programmes for participants to discuss water solutions with global peers at the **Young Water Leaders Forum**, interact with thought leaders at the **Water Professionals Panel**, exchange business and technical know-how with industry decision-makers and senior water experts at the **Water Leaders Summit** and **Water Convention**, and embrace career opportunities at the **Young Professionals Networking Reception**.

YWLS created diverse opportunities for young people engaged in the water sector to build new networks, develop new friendships, and to transfer their knowledge to one another. Intergenerational knowledge transfer was also featured prominently during YWLS sessions and through the participation of youth in other SIWW pillar events with water leaders, academics, and practitioners. The partnerships formed between youth groups furthered youth-driven capacity building as youth exchanged best practices and ideas. The positive impact of the network of young people, and the friendships forged during YWLS in Singapore will be felt years into the future. The dialogues initiated among this group of young leaders are also expected to continue during future global water events.

Opening Plenary - Key Note Speakers

“Recognize the power of ideas, ideals, and convictions,” and “leave this world better than you found it” are snippets of the inspirational welcoming address by Prof. Eugene Tan, Nominated Member of Parliament for Singapore. Professor Tan explained how Singapore has focused on water self-sufficiency since the independence of Singapore. Citing how Singapore turned a vulnerability into a strength, through integrated water management and technology innovation, he urged youth to be agents of change and to not underestimate the power of being young. Examples on actions youth could take included recognizing the strength in partnerships “if you go alone you go fast, if you go together you go far”; taking the room to make mistakes and learn from these; and continuing to expand upon your own knowledge beyond traditional domain boundaries. He emphasized the word resilience and being resilient in finding solutions especially as the answer to one problem would reveal another. For instance, the solutions of desalination or reverse osmosis present the challenge of being energy intensive. By anticipating rising energy prices, young water leaders “use the future as a reference” because the past is not enough to know what challenges lay ahead.

Professor Tan’s Tips for Taking Action

1. **Forge Partnerships**
2. **Make and Learn from Mistakes**
3. **Test Your Knowledge**

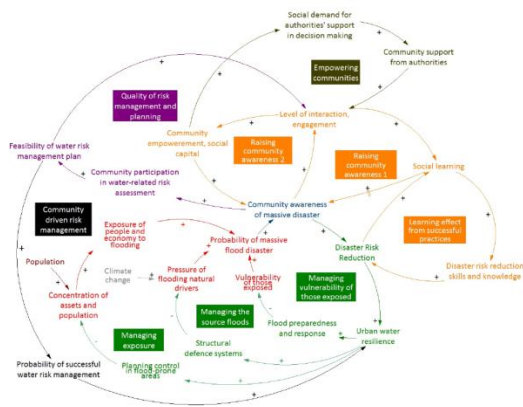
Inspired and informed, the gathering of approximately 100 international youth convened for the Social Programme through a scavenger hunt at the Marina Barrage. While learning about Singapore young people had the opportunity to get to know each other and build their trust in one another.



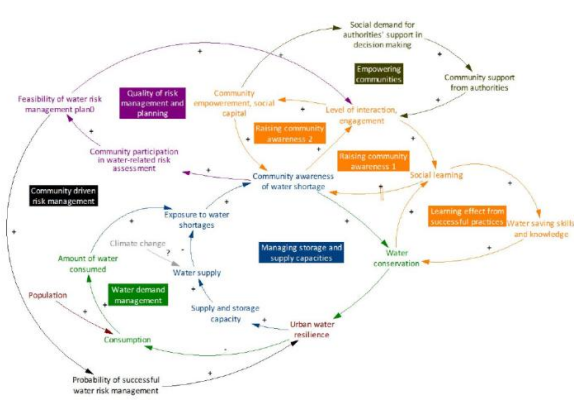
Young Water Leaders Forum Session 1 - Water Security for the Future

Recognizing that the world's population and productive activities are concentrating in cities and their peripheries the **Water Youth Network (WYN)** kicked off the Young Water Leaders forum with a session on Urban Water Security for the Future. Using principles of systems thinking, participants engaged with a holistic framework prior to the conference and built upon it during the session to discuss and develop innovative ideas on Water Scarcity, Flood Risk Management and Water Governance.

Before YWLS 2014, a common knowledge base was created using an interactive online platform (ywlsiiww2014.wordpress.com). As depicted below, two system dynamics models were co-designed and validated as part of the pre-conference activities. Group Model Building (GMB) approach to participatory modelling was used to illustrate the interrelated nature of water security challenges. Participants were asked to comment on the below models and name variables to be added, connected, or left out.



Water Scarcity model



Flood Risk Management model

During YWLS2014 an action plan was jointly designed. Youth transformed problematic variables, identified pre-conference, into concrete actions. Participants were divided into 8 groups, each of which worked on a different challenge (loops). Using the Adjusted Logical Framework Approach (ALFA) youth named responsible stakeholders, indicators for monitoring, and risks to implementing the plan. Once the groups had identified and designed feasible actions to address each challenge, the groups were merged into related sectorial groups.

Discussion groups were formed on the themes of Flood Risk Management, Water Governance and Water Security. From these emerged proposals for potential youth-led actions to manage complex urban (and peri-urban) water security challenges. The groups discussed their own experiences with the particular challenges at hand; drawing from their own experience they constructed a joint vision and action plan.

The use of the holistic framework encouraged the participants to think outside of their silos and to recognize reciprocal relationships that allowed them to connect across the different water themes. Some of these ideas emerged as a result:

Flood Risk Management

- Building off of existing discussion or moments of water awareness could have a critical impact on outreach and flood resilience.
- Using social media to share water knowledge by integrating into existing conversations

Water Governance

- Working with stakeholders in the Government and Private Sector to promote and implement academic knowledge.
- Developing sensitive solutions grounded in the local context.

Water Security

- Considering and mitigating the effect of water pricing on households



Young Water Leaders Forum Session 2 - Sanitation for All: Empowering Youth to Improve Sanitation in Asia

1.7 billion people in Asia lack access to safe sanitation
80% of raw sewage is discharged into rivers
Cell-phone ownership outnumbers toilets in India






These sobering statistics make clear why increasing wastewater coverage is a priority. In response, **ADB Youth Initiative & Asia Pacific Youth Parliament for Water** organized an action-oriented session to address sanitation challenges specifically Water, Sanitation and Health (WASH) in South East Asia (SEA). Young social entrepreneurs and fellow water leaders shared personal case studies and youth driven projects like the Open Defecation Free Asia Project and "maptivists" were introduced. By collecting data on areas still practicing open defecation maptivists can promote change and inform policies.

Mr Min Woo Kim, President of the Asian Pacific Youth Parliament for Water (APYPW) stressed water's central role in the Millennium Development Goals (MDGs), the disparity between urban and rural access to sanitation, as well as the health related and economic costs of poor sanitation. A particular challenge that was raised is the incidence of sanitation pilot projects being renewed as opposed to improved due to inadequate monitoring systems and measurements. Institutional challenges compound these operational challenges. The fragmentation of responsibility along central, provincial and local levels of government coupled with a lack of capacity can leave local communities ill-equipped to provide decentralized water and wastewater services.

Mr Prabin Rokaya, a young waterpreneur from Nepal, provided concrete examples of how youth can make a difference in WASH. With a \$5000 budget to make 10 toilets, Prabin innovated and used the money as seed funding to build 40 toilets. Another project involved raising hand-pumps in case of floods so that safe-water could be secured in a time of crisis. The challenge of flooding produces land-use problems by creating massive slums in which it is difficult to find adequate land for constructing toilets. His take home message is that in spite of financing constraints, youth should create their own opportunities by actively searching for the grants and demonstrating their effectiveness to development partners by beginning with the low-hanging fruit.

Discussion groups were once again challenged to think about what youth could do to improve sanitation in Asia and abroad. Drawing on best-practices from the presentations and their own experience youth set objectives, proposed actions, and considered potential partners and resources.

Objectives set by the youth groups included:

-  Eliminating open defecation
-  Improving sanitation by implementing strict regulations prohibiting the pollution of waterways
-  Improving access to menstrual hygiene
-  Replacing Taboos: Moving beyond technological solutions to behavioural change (teaching the value of sanitation in elementary schools).
-  Adjust sanitation projects to cultural contexts

To achieve these objectives youth can look to partners in the water sector which are ready to promote and support youth led initiatives. Ms Amy Leung from the Asian Development Bank (ADB) praised the Gates Foundation donation towards sanitation innovations, a portion of which will go towards grants for pilot projects in developing countries. Mr Chris Morris, Head of ADB's NGO and Civil Society Center, talked of partnerships with Plan International and local NGOs for launching youth led solution initiatives. He stressed the importance of taking a visionary approach, which stems from goals like seeking to extend access to poorest and most vulnerable populations, rather than taking a problem-solving approach to challenges. One of the goals of the Asian Development Bank's youth initiatives is to finance partnerships established between youth and their governments.

Following this session youth re-grouped once again to share their experiences with one another. On the Young Water Leaders Summit Facebook page you too can share:

1. What are some of the most challenging water issues faced in your home country?
2. For you personally, why are you focused on water? Share a defining experience.

Young Water Leaders Forum Session 3 - Water Stewardship

World Youth Parliament for Water facilitated a session on Water Stewardship that began by highlighting the differences between the concept of Water Stewardship and Integrated Water Resources Management (IWRM).

Water stewardship represents a new way of thinking about sustainability, one that takes on more of a win-win attitude. The old way of thinking about sustainability was that government regulated standards represent costs. Then as the importance of Corporate Social Responsibility (CSR) gained ground these standards were accepted and the new dynamic created an opportunity for innovation. Today, companies profit by finding ways to improve operational efficiency, reduce energy consumption, and by being good water stewards.

The Alliance for Water Stewardship offers the following definition:

“The use of water that is socially equitable, environmentally sustainable and economically beneficial, achieved through a stakeholder-inclusive process that involves site and catchment-based actions. Good water stewards understand their own water use, catchment context and shared risk in terms of water governance, water balance, water quality and important water-related areas; and then engage in meaningful individual and collective actions that benefit people and nature.”

The take home point is that Water Stewardship is driven by water users. This can be done locally, but also across regions and basins, with other water stewards.

More and more companies are committing to water stewardship. Is this a matter of environmental commitment of these companies, a matter of reducing costs at all costs, or just a communication strategy? What do you think?

The above pre-conference question triggered some critical thinking and helped spark lively discussion during the session.





What is a good water steward?

This question was illustrated by Mr. Norman Cheng, Deputy General Manager of Swire Waste Management. Swire Pacific Limited has produced a Zero Net impact strategy which incorporates all five legs of the company: properties, aviation, beverages, marine services and trading & industrial. Sustainable development is an

important goal for the company and this is reflected in their annual report. For instance, 1 litre of cola took 2.5 litres of water to produce until the company reduced water consumption to 1.75 litres in 2014. Guided by the reduce and reuse principle, Swire assessed its operations and took action.

Focusing on ways organizations can be good water stewards, discussion groups came up with actions and accompanying criteria for how companies can make their operations water-responsible. Breakout groups discussed the sub-topics of: Stakeholder Engagement, Social Impact, Environmental Impact and Transparency. We talked in terms of practical scenarios that a business would encounter and actions which could be taken to address these. In addition to sharing his experiences and practices, Mr. Cheng also gave feedback on the actions, criteria and outcomes of group discussions.

Some key points on stewardship best practices:

			
<p>Stakeholder Management</p> <p>Engage and build relationships with affected parties</p>	<p>Transparency</p> <p>Disclose information on an open platform Seek independent audits</p>	<p>Social Impact</p> <p>Account for SI early in the planning process Minimize negative effects with early warning systems</p>	<p>Environmental Impact</p> <p>All parts of the product lifecycle can be improved Restorative activities create future resources</p>

The discussion went beyond finding solutions within the above framework to critical reflections on some of the terms within it. One group questioned what the term "stakeholder management" would mean for the quality of the engagement with affected water users. The conversation touched upon alternative terms that showed more respect for the communities that share an interest and knowledge of topic at hand.

In Dialogue With Minister Grace Fu

Minister Grace Fu, Second Minister for the Environment and Water Resources and Second Minister for Foreign Affairs of Singapore, met with youth to share her valuable insights on the significance of water. The Minister emphasized that good water equates to good public health, life expectancy, and agriculture. Clear political direction supporting water self-sufficiency is key to Singapore's success in Water Resources Management. PUB, Singapore's National Water Agency, manages the entire life cycle of water - collection, supply, treatment, recycling, and flood alleviation. This dialogue session was opened up to an extensive Q&A where Minister Grace Fu interacted directly with the young water leaders.



Youth Based Water Action

According to the Minister, fostering understanding between people will allow for future disputes to be resolved more effectively. Technological solutions exist and are advanced via collaboration. Young people today can begin building collaborative relationships that will help address future water challenges.

We can develop an understanding of the problems and challenges between neighbouring countries, the common water resources we share, and by establishing a network because in the future we may be negotiating with one another across the table.

For more serious problems where bilateral relations are strained, and positions are locked in due to political pressure, then youth can find solutions at the NGO level. The Minister suggested that if cooperation can be fostered at this level then political obstacles could be overcome.

Young people can protect water resources by driving water consciousness in their own community. In Singapore, engaging local communities in water education creates ownership for demand management or pollution prevention. The Minister illustrated the impact water education can have on younger generations with an anecdote from her childhood in which she clearly remembers staying in a line behind water supply trucks.

NEWater

When prompted about NEWater the Minister pointed out that the entire water system is global, and that water downstream is essentially wastewater from upstream. NEWater, PUB self-branded high-grade reclaimed water, is used primarily for industrial use but it is also added into reservoirs during dry periods to blend with raw water, and it of course goes through treatment at the waterworks as part of the potable water supply. In some countries recycled water is replenished underground and mixed with natural supplies in the aquifers.



Sustainable Development Goals (SDGs)

The Minister expressed sorrow regarding communities suffering from water borne diseases and for young children and women laboring to provide clean water and

stated that Singapore endeavors to bring potable water treatment systems to nearby communities. Clarifying that this aid needs to be channeled effectively that the sharing of know-how, experiences, and technologies should be encouraged. Youth can help by applying cost-effective solutions for helping communities in need.

International Relations

When asked to comment on Foreign Affairs, the Minister began by describing how as of 1955 Singapore was part of Malaysia. When it separated in 1965 it remained linked via a pipeline and agreement to treat-wastewater from Malaysia. The negotiation of future agreements requires that constituents be made aware of the importance of water security so that citizens take ownership in the safeguarding of water. Measures proposed include citizens and the public at large taking responsibility for demand management and pollution prevention. Singapore is poised to become water self-sufficient by 2061.

Making the Environment a Priority

Singapore has demonstrated environmental leadership and SIWW represents how Singapore can be a regional hub for knowledge exchange - what the Minister called a "reservoir of knowledge and expertise in Singapore". By being willing to try something new rather than taking a protectionist approach, Singapore creates a welcoming environment in which international companies can engage in pilot studies, R&D and trials. From a disadvantage, the existential concern of water security, opportunities and an economic benefit have been derived and Singapore is gaining ground as a global hydrohub for breeding innovative water technologies.

PUB collaborates with various research institutions on joint R&D projects and opens its facilities for test-bedding projects. Of course, intellectual property is protected. Singapore does not implement every new technology sent its way but it will solicit RFPs for tech that meets its requirements.

Cost of Water Technologies in Developing Countries

The Minister pointed out that water problems are complex and localized. Stating that a cost-effective solution is needed, she suggested that a regional solution may be more appropriate than an international one particularly between countries which share common water resources. Singapore charges for water, prices water and technology correctly, this allows for water to be managed properly without government subsidies. The Minister cited the example of visiting wealthy estates abroad where the piped water arrives brown and where bottled water is used for brushing teeth, cleaning, and not just drinking. Water was being paid for but not in a way the public utility could reinvest.

Water Professionals Panel

During the Water Professional Panel, senior water leaders, entrepreneurs, and Ministers shared their experiences. The crowd of young water leaders responded well to the mentorship that was provided in the form of succinct advice on actions that could be taken to build our careers. Determination, knowing how to generate buy-in, and focusing on peak performance among the top lessons imparted.



Mr. Chew Men Leong, CE PUB, started off by sharing his affiliation with water when he was the Chief of the Republic of Singapore Navy. Mr. Chew spoke of major and growing water scarcity faced by humanity and compounded by manmade issues like poor resource management. In spite of this, he asserted that a clear vision and the implementation of innovative solutions could turn challenges into opportunities. Singapore encounters water scarcity in spite of the precipitation because it lacks the space to collect and store water. Even so, Singapore tries to harvest every drop of water that is practicable, collect every drop of used water, and to recycle every drop of water more than once. However, Mr. Chew acknowledges that managing supply is only one half of the equation. Demand management is the other side of this equation and the key to it is water pricing and public engagement. Pricing must reflect the true value of water and this measure should be coupled with public education campaigns. Here Mr. Chew emphasized on co-creating solutions because the energy and innovation of youth should not be underestimated.

Mr. Glen Daigger, IWA President and SVP, CH2M Hill touched upon some of the many "Projects of a Career" on which he worked like a biological treatment unit which allowed for fishing to resume in a particular community; a Florida reclamation plant using membrane technology; and municipal and industrial wastewater reclaimed to potable standards. Mr. Daigger spoke of three points of interest:

1. We are in the midst of one of the most significant transitions in the history of the water profession as we face the combined challenges of population growth, increased living standard, climate change, urbanization, and adherence to a "linear system".
2. The human right to water and sanitation must be extended. Currently 4 billion are without continuous access to water.
3. Water management must become much more resource efficient in order to be sustained into the future.

Challenges: biodiversity loss, nutrients, etc.

Mr. H.K. Patil, the Hon. Minister for Rural Development for the Government of Karnataka discussed the problems faced by the rural poor and expressed hope that youth will decide to focus on helping villages solve their water challenges. The Minister spoke of life in India, 70% of which is rural with more than 50% of people depending on tank water for drinking - tank water which could be either chemically or biologically contaminated. Citing the incidence of waterborne diseases worldwide the Minister showed optimism that a small investment in provide safe water and sanitation could decrease health expenditure worldwide by 80%. The Minister declared that access to drinking water must be a human right and recommended that solutions for the poor seek low-tech energy-sensitive solutions like rainwater harvesting. The Minister concluded by encouraging the youth present to make our attendance at YWLS lead to a significant contribution that extends beyond just our participation in the room.

Mr. Michael Ma, Founder of Indochine took on a light tone by bringing in stories from his youth. Mr. Ma started Indochine in 1999 when he began trading commodities. His inspiration came in unexpected places, eating out on the regular he realized he may as well open his own venue. Having done so, he strives for peak-performance which has been evidenced by several awards. The environment is considered successfully in all aspects of his establishments which only served eco-friendly cuisine and are furnished with antiques or lasting quality materials. Sustainable economic development is a term close to Mr. Ma's heart. His lasting message was that green business is possible and that more people can and should adopt eco-friendly business practices.

Ms. Anna-Sofia Winroth, Founder of Gefle Chocolateria in Sweden made the switch from engineering to becoming an award winning chocolatier. She spoke to youth of following their passions and the turns ones career could take. Ms. Winroth

spoke of acting on her passion for chocolate by directly calling an acclaimed pastry chef and requesting that she be taught everything he knew about chocolate making. By taking such bold initiatives and seeking help along the way she formed a successful brand. Her quest for knowledge did not end there, she wanted to learn about coco plantations. Disheartened by what she saw, she purchased her own Caribbean plantations to ensure fair labor practices. Business ought to consider social impacts according to Ms. Winroth, whose campaign for human rights frames these problems as business opportunities.

The audience posed questions about the true nature of water security, the challenges of affordability in addition to availability, running a business exposed to short term volatility and what can be done to meaningfully engage youth. In response to engaging youth, the Mr. Daigger stated IWA's objectives are informing youth about the culture and practices of the water profession and helping youth build the networks and intergenerational bridges integral to their careers. The panelists solicited career advice, tips like linking up with the best and most able person to move forward, networking, being likeable, and seeking out experience. The lasting piece of advice was that there are many paths to a good and successful life but the key is determination and patience. By staying analytical and making good decisions we are bound to succeed.



Afterword

During YWLS, and for the remainder of the summit as well as during the convention, youth had the opportunity to mingle and meet with senior water professionals including high-level decision-makers in industry and government. Being present ensured that inter-generational dialogue and knowledge sharing would take place. Meaningful engagement with senior water professionals was made possible by the opportunity to attend discussions concerning the development of the post-2015 sustainable development goals (SDGs) and the upcoming 7th World Water Forum in Daegu and Geongbuk. The young water leaders present at YWLS Singapore have collaborated to produce action items that youth can pilot and which could be used to inform the post-2015 SDGs.

The value of youth driven networks was stressed during the Summit for having the potential to shaping future water diplomacy, for opening up career opportunities, for strengthening the links between different part of the water sector, creating a common (water sector) language, and for helping to forge partnerships that amplify youth driven initiatives.

Perhaps most importantly, YWLS helped solidify old friendships and forge new ones between future water leaders who may one day meet each other across the negotiation table.



The Action Plan



Currently, the Water Youth Network in collaboration with PUB and the other organizing partners is designing the joint action plan based on the outcomes of each of the sessions held at the Young Water Leaders' Summit. The lessons learned and the joint action plan will serve for the preparation of coming projects for the WYN including organizing other sessions in Stockholm World Water Week, World Water Forum 7 and Amsterdam International Water Week.

Young Water Leaders Summit 2014

Programme

31 May 2014, Saturday	
Marina Barrage, Gallery Cafe	
0800 hrs	Breakfast and Registration
0900 hrs	Opening and Introduction by PUB
0910 hrs	Social Programme Get to know inspirational peers in tightly-knit groups and learn about Singapore water story <ul style="list-style-type: none"> • Icebreaker • Treasure hunt
1110 hrs	Break/Freshen up
1120 hrs	Talk by Prof Eugene Tan , Nominated Member of Parliament
1200 hrs	Lunch
1300 hrs	Young Water Leaders Forum <u>Session on Water Security for the Future</u> (Co-organised with Water Youth Network) Design action plans for building future through urban water security
1500 hrs	Tea break
1515 hrs	Young Water Leaders Forum <u>Session on Empowering Youth to Improve Water Security in Asia through Sanitation</u> (Co-organised with Asian Development Bank) Identify case studies and best practices across integrated water management programmes for improving sanitation in Asia and the Pacific.
1715 hrs	Reflection & Briefing of next day programme
1800 hrs	End of the day
1810 hrs	Departure of the shuttle bus
1 June 2014	
Marina Barrage, Gallery Cafe	
0800 hrs	Breakfast
0830 hrs	Young Water Leaders Forum <u>Dialogue</u> Guest speaker HE Grace Fu , 2 nd Minister for the Environment and Water

	Resources and 2 nd Minister for Foreign Affairs, Singapore Moderator Mr Bart Devos , President of World Youth Parliament for Water (WYPW)
0930 hrs	Break
1000 hrs	Water Professionals Panel (Co-organized with International Water Association) Ever wondered what it was like to be in the water sector? Hear from both senior water leaders and mid-career water professionals. There will be sharing and Q&A between the panellists and young professionals. Panellists <ul style="list-style-type: none"> • Mr Chew Men Leong, CE PUB • Mr Glen Daigger, IWA President, and SVP, CH2M Hill • Ms Anna-Sofia Winroth, Founder of Gefle Chokolaterie in Sweden • Mr Michael Ma, Founder of Indochine • Mr H.K. Patil, Hon. Minister for Rural Development, Government of Karnataka, India Moderator <ul style="list-style-type: none"> • Mr Ganesh Pangare, Regional Director, Asia-Pacific, International Water Association (IWA) • Dr Norhayati Abdullah, member of IWA Young Water Professional Committee for East Asia & Pacific Region
1140 hrs	Introduction of International Desalination Association Young Leaders Programme
1200 hrs	Lunch
1300 hrs	Young Water Leaders Forum <u>Session on Water Stewardship</u> (Co-organised with WYPW) Define sustainable criteria for companies to achieve water stewardship Guest speaker <ul style="list-style-type: none"> • Mr Norman Cheng, Deputy General Manager of Swire Waste Management
1500 hrs	Tea Break
1515 hrs	Reflection & briefing of next day programme
1615 hrs	Side event by International Youth Steering Committee
1745 hrs	SIWW Opening Ceremony & Welcome Reception

	<p>GOH: HE Lee Hsien Loong, Prime Minister, Singapore</p> <p>Venue: Opening Ceremony – Ballroom A-H, Level 5 Welcome Reception – Expo Hall A-C, Level 1&Hall D-F, Basement 2</p>
2100 hrs	End of the day
<p>2 June 2014, Monday Marina Bay Sands</p>	
0830 hrs	Morning Coffee & Tea
0900 hrs	<p>In-Conversation (Joint SIWW-WCS-CESS) Venue: Sands Grand Ballroom L, Level 5 Jointly organised by the Singapore International Water Week (SIWW), World Cities Summit (WCS) and CleanEnviro Summit Singapore (CESS), the In-Conversation session provides a unique opportunity to delegates to hear from distinguished world leaders who are active in shaping the global landscape of cities, water, environment and sustainable development today against a backdrop of dynamic and complex forces of change.</p> <p>Speakers</p> <ul style="list-style-type: none"> • HE Khaw Boon Wan, Minister for National Development, Singapore • HE Angel Gurría, Secretary-General, Organisation for Economic Co-operation and Development • Mr Jean-Louis Chaussade, Chief Executive Officer, Suez Environnement Company <p>Moderator</p> <ul style="list-style-type: none"> • Prof Tommy Koh, Ambassador-at-Large, Ministry of Foreign Affairs, Singapore; and Chairperson, Water Leaders Summit
1015 hrs	Tea Break
1030 hrs	<p>Opening Plenary (Joint SIWW-WCS-CESS) <i>"Shaping our Cities, Water and Environment for a Liveable and Sustainable Future"</i> Venue: Sands Grand Ballroom L, Level 5 By 2040, two-thirds of the global population would be living in urban areas. Whilst cities, are engines of growth, for many countries, the increased concentration of industrial, transport and agricultural activities places enormous pressures on urban environments and their hinterlands. Existing infrastructure for water, sanitation and housing is strained and environmental problems are exacerbated. With rising expectations of public service delivery and demand from</p>

	<p>citizens for a liveable and sustainable city, good leadership and governance are critical to achieve a clean environment, ensure the supply of clean, affordable drinking water, safe sanitation for all, and build urban resilience through climate-change adaptation and mitigation measures.</p> <p>At the Opening Plenary, high-level speakers from government, industry and international organisation sectors will share insights on cross-disciplinary urban, water and environment policy issues, highlighting the new challenges in the respective roles of city officials, business leaders, and civil society in co-creating liveable and sustainable cities.</p> <p>Speakers</p> <ul style="list-style-type: none"> • HE Chen Lei, Minister of Water Resources, China • HE Kirsten Brosbøl, Minister for the Environment, Denmark • HE Melanie Schultz van Haegen-Maas Geesteranus, Minister for Infrastructure and Environment, The Netherlands • The Right Honourable Greg Clark MP, Minister of State for Cabinet (Cities and Constitution), United Kingdom • The Honourable Gotabaya Rajapaksa, Secretary of Defence and Urban Development, Sri Lanka • HE Dr Rashid Ahmed bin Fahad, Minister of Environment and Water, United Arab Emirates • Ms Helen Clark, Administrator, United Nations Development Programme • Mr Peter Bakker, President, World Business Council for Sustainable Development <p>Moderator</p> <ul style="list-style-type: none"> • Prof Tommy Koh, Ambassador-at-Large, Ministry of Foreign Affairs, Singapore; and Chairperson, Water Leaders Summit
1230 hrs	<p>Networking Lunch Venue: Heliconia 3401A, Level 3</p>
1330 hrs	<p>Lee Kuan Yew World City Prize and Singapore Water Lecture (Joint SIWW-WCS-CESS) Venue: Sands Grand Ballroom L, Level 5</p> <p>This session will feature lectures delivered by the Lee Kuan Yew Water Prize and World City Prize laureates, followed by a question-and-answer session. Topics would cover the challenges and issues associated with cities, environment and water.</p> <p>Speakers</p> <ul style="list-style-type: none"> • Lee Kuan Yew Water Prize Winner - Ms Cathy Green, Board Member, Orange County Water District

	<ul style="list-style-type: none"> Lee Kuan Yew World City Prize Winner -Mr Zhou Naixiang, Mayor of Suzhou, China <p>Moderator</p> <ul style="list-style-type: none"> Professor Kishore Mahbubani, Dean, Lee Kuan Yew School of Public Policy
1500 hrs	<p>Hydro Pitch Day Venue: 3211 and 3212, Level 3</p> <p>The best and the brightest from the inaugural HydroPreneur Programme will take centre stage, and pitch to an audience of top water companies, venture capitalists, and potential clients. Gain first-to-contact access to entrepreneurial water talents and their innovations.</p> <p>Exploring other SIWW events</p> <ul style="list-style-type: none"> UNSGAB Meeting (3812 and 3813, level 3) <ul style="list-style-type: none"> ✓ 22nd UNSGAB Meeting Opening ✓ Ministerial Dialogue - Expectations for UNSGAB through 2015 ✓ GWP - OECD Global Dialogue on Water Security and Sustainable Growth
1715 hrs	<p>Reflection of the day Venue: 3211 and 3212, Level 3</p>
1815 hrs	<p>Departure of the shuttle bus Pick-up point: Porte Cochere (driveway in front of the glass door of level 1 convention halls)</p>
<p>3 June 2014, Tuesday Marina Bay Sands</p>	
<p>Track 1: Water Leaders Summit (please refer to SIWW programme book for more details)</p>	
0815 hrs	<p>Water Leaders at the Breakfast Table Venue: Jasmine 3801A, Level 3</p>
0930 hrs	<p>Water Leaders Roundtable Venue: Jasmine 3801A, Level 3</p>
1115 hrs	<p>Water Leaders Dialogue 1 and 2 Venue: Hibiscus 3701A, 3704, Level 3</p>
<p>Track 2: Water Convention (please refer to SIWW programme book for more details)</p>	
0900 hrs	<p>Water Convention Keynote Plenary Venue: Begonia 3001B, Level 3</p>
1100 hrs	<p>Water Convention Parallel Tracks 1-7</p>
<p>Common Track</p>	
1430 hrs	<p>Young Water Leaders Summit Final Discussion Session Venue: Ballroom L, level 5</p>

1530 hrs	End of the Session
1600 hrs	<p>Young Professionals Networking Reception Venue: Ballroom L, level 5 A platform for young professionals to network with industry leaders, investors and recruiters. The Singapore Junior Water Prize, Sembcorp Water Tech Prize and the Humanitarian Water Filtration System Engineering Design Challenge prize-winners will be awarded during the Reception.</p>
1815 hrs	<p>Departure of the shuttle bus Pick-up point: Porte Cochere (driveway in front of the glass door of level 1 convention halls)</p>
4 June 2014, Wednesday	
Morning and Afternoon	Free activity
1730 hrs	<p>SIWW Closing Dinner Venue: S.E.A Aquarium, Resorts World Sentosa</p>
2100 hrs	End of the day