

First International Conference organized within the framework of PolyUrbanWaters Research and Project Network (BMBF 2019-2025)

24-25TH
MARCH 2021

POLYURBAN WATERS

ONLINE / BERLIN /
KRATIE / SLEMAN /
VIENTIANE

Polycentric management of urban waters in fast-growing cities and peri-urban areas in Southeast Asia

The first international conference within the framework of the PolyUrbanWaters research and development project will explore the political, ecological and social relevance of integrated approaches in management of urban waters on a global scale. The conference brings together international researchers, practitioners, cities and regional representatives, policy makers, and global networks to discuss diverse cases from Southeast Asia and around the globe and sheds light on current development challenges, new experimental approaches towards integrated water-sensitive urban planning, and the possibility of knowledge transfer and transnational learning

PolyUrbanWaters is a research and project network funded by the German Federal Ministry of Education and Research (BMBF) that consists of academic institutions, municipalities, local and national government agencies, civil society and private-sector stakeholders from Indonesia, Cambodia, Laos, Thailand, Vietnam and Germany. Working through this network and on the ground in three pilot cities, the PolyUrbanWaters project aims to generate comprehensive scientific knowledge that helps develop practice-relevant strategic planning models for fast-growing cities and peri-urban areas in Southeast Asia, enabling them to implement polycentric approaches for water-sensitive urban development.



Code River in Yogyakarta, Indonesia

Background

Since 2007, the majority of our global human population lives in urban environments and it is estimated that by 2050, two-thirds of all humans will live in cities. While cities are vibrant centers of growth and innovation, there are also many drawbacks associated with cities; they have an enormous resource consumption even though they only occupy two percent of the global land mass. Cities account for over 60% of global material consumption, more than two-thirds of the world's energy use and over 70% of the world's CO₂ emissions.

Growing cities heavily impact their surrounding environments with these increasing demands. An especially heavy pressure is placed on water resources within and in the proximity of cities. Intensified agriculture, domestic waste and industrial activities pollute water bodies. Increasing water demand typically leads to an unsustainable depletion of remaining unpolluted water sources. Additionally, in rapidly urbanizing areas, many cities struggle to provide service and infrastructure needs such as piped water and sanitation, thus adding pressure on publicly accessible water sources. To maintain the expected growth of cities while simultaneously increasing living standards, the question arises: how to prepare for a doubled urban population by 2050?

There exists an opportunity to rethink the current development approaches for fast-growing cities and peri-urban areas. Classical development approaches that suppose a constantly growing centralized infrastructure no longer reflect the realities, needs and capacities of modern cities. Infrastructure development in constantly transforming urban spaces requires more flexible, integrated modular approaches that can adapt to the development and needs of the cities over time.

The first international conference within the framework of the PolyUrbanWaters research and development project takes this as a starting point towards a global exploration of the political, ecological and social relevance of polycentric approaches to the management of urban waters. The conference will bring together international researchers, practitioners, cities and regional representatives, policy makers, and global networks to discuss the state of the art in this field and diverse case studies from Southeast Asia, Europe, North America and Latin America. This two-day conference will shed light on current development challenges, new experimental approaches towards polycentric water-sensitive urban planning, knowledge transfer and transnational learning.



Flooding in Kratie, Cambodia

Conference Format

Due to current Covid-19 situation, the conference cannot fully take place in Vientiane, Laos as originally planned. Instead, the event will be organized in a hybrid format with different centers of action in Vientiane, Sleman, Kratie, Berlin and online. Public sessions are accessible for external guests via Zoom or a live stream on YouTube. Speakers and participants will join digitally from around the world. For more information, please contact j.westermann@tu-berlin.de.

Day 1: Project Workshops

The first day brings together the consortium partners of PolyUrbanWaters from around the globe with representatives from the partner cities in Southeast Asia, as well as invited experts.

Participation by invitation only.

Day 2: Public Conference

The second day will be open to the public. In three sessions we will have a key note lecture and short presentations by invited experts as well as panel discussions with the speakers.

Live stream via the YouTube channel "BORDA GLOBAL TV"

<https://youtu.be/ahoBgrnTIZQ>

SESSION 1

Science-Policy Dialogue

8.00 - 10.00 (CET) / 14.00 - 16.00 (ICT)

Moderated by Jati Kusumowati and David Dietz, BORDA e.V.

Participants:

PolyUrbanWaters consortium partners and city representatives

This session creates a shared exchange platform between officials, scientists and other stakeholders from Southeast Asia and other international contexts to discuss current issues and approaches to polycentric management of urban water resources. The session will comprise a series of short presentations with a Q&A session and a panel discussion focusing on the PolyUrbanWaters project and water-sensitive polycentric urban development.

SESSION 2

Preliminary Results

10.15 - 12.15 (CET) / 16.15 - 18.15 (ICT)

Moderated by Dr. Bernd Gutterer, BORDA e.V.

Participants:

German and Southeast Asian consortium partners

This session brings together the SEA and German PolyUrbanWaters consortium partners with invited experts. After short statements by all project partners, the aim of the session will be to discuss the upcoming R&D Phase of the project.



KEYNOTE SESSION

Urban Water Resources in the World and in Southeast Asia

8.00 - 10.00 (CET) / 14.00 - 16.00 (ICT)

Moderated by Jati Kusumowati and David Dietz, BORDA e.V.



Welcome

Dr. Bernd Gutterer, BORDA e.V.;

Prof. Dr. Philipp Misselwitz, TU Berlin;

Prof. Dr. Lars Ribbe, TH Köln

Introduction to PolyUrbanWaters Project

Keynote Lecture

Prof. Renee Y. Chow, Professor, Architecture and Urban Design, Chair, Department of Architecture, Executive Associate Dean, College of Environmental Design, University of California, Berkeley, USA

Water challenges in urban centers. Need for strategic tools.

Speaker 2

Frank Fladerer, BORDA Regional Director, Bangkok Thailand

Linnea Fölster, Hamburg Wasser, Hamburg, Germany

Potential and challenges for polycentric approaches for urban water management in Southeast Asia

Speaker 3

Prof. Tony Wong, Cooperative Research Centre for Water Sensitive Cities (CRCWSC), Melbourne, Australia

Planning Water-sensitive Cities

Speaker 4

Barry Beagen, Architect, Urban Planner and Program Director at Kota Kita, Solo, Indonesia

Water challenges and participatory planning approaches in Indonesia

Roundtable Discussion

The current state of cities in Southeast Asia -

What barriers are there to achieving urban water security and the Sustainable Development Goals (SDG's)?

PUBLIC SESSION 2

Water for the Future in Southeast Asian Cities

10.15 - 11.45 (CET) / 16.15 - 17.45 (ICT)

Moderated by Prof. Dr. Lars Ribbe (ITT TH Köln) and Dr. Trinh Tran (VAWR)



Introduction

Speaker 1

Dr Nazmul Huq, ICLEI - Local Governments for Sustainability, Bonn, Germany

Moving from concepts to practice in urban resilience: Impressions from Asia

Speaker 2

Dr. Phong Tung Nguyen, Vietnam Academy for Water Resources (VAWR), Hanoi, Vietnam

Localisation of SDGs 6 and 11 in fast-growing cities of Vietnam: planning for a sustainable future

Speaker 3

Dr. Christof Vosseler, The Ministry for Climate Protection, Environment, Mobility, Urban and Housing Development, Bremen, Germany

How water-sensitive planning contributes to building resilience and climate change adaptation processes: experiences from a German case study

Speaker 4

Prof. Dr. Thammarat Koottatep, Environmental Engineering Management, Asian Institute of Technology, Bangkok, Thailand

Regulatory frameworks for (polycentric) water resources management: The case study of wastewater management in Thailand

Roundtable Discussion

What are the major obstacles to addressing water related risks in the planning of cities in Southeast Asia and how can they be overcome?

PUBLIC SESSION 3

Global Perspectives on Strategic Planning Tools and Methods for Sustainable Futures



12.00 - 13.30 (CET) / 18.00 - 19.30 (ICT)

Moderated by Prof. Dr. Bakti Setiawan, Gadjah Mada University and Anna Wilk-Pham, Habitat Unit - TU Berlin

Introduction

Speaker 1

Prof. Dr. Bakti (Bobi) Setiawan, Director - Graduate Program in Urban and Regional Planning, Gadjah Mada University, Yogyakarta, Indonesia
Challenges, potentials and emerging needs for different tools for sustainable urban planning in Sleman/Indonesia

Speaker 2

Rossana Poblet, Architect and Urban Planner, UN Habitat consultant on Integrated Regional Development Plan, Berlin, Germany
Integrated urban planning strategies and planning and design tools: When to implement them in the so-called Global South?

Speaker 3

Lukas Pappert, Urban Designer, Urban Catalyst, Berlin
Urban transformation processes - strategic planning and participatory planning tools

Speaker 4

Arlene Lusterio, TAO Pilipinas, Manila, Philippines
Planning future cities: active participation of local governments and civil society. Experiences from the Philippines.

Roundtable Discussion

Putting words into action - what is the way forward to create resilient, water secure cities in Southeast Asia?

Speakers and Moderators

Barry Beagen

PolyUrbanWaters - Yayasan Kota Kita

Barry is an architectural/urban designer and planner with a focus on building sustainable urban infrastructure and climate change resilience in developing countries. As a program director of Kota Kita, Barry developed methodologies to mainstream community-based participatory design and managed multi stakeholder co-development processes in multiple cities in Indonesia towards shared visions for informal economy (Solo), water-sensitive infrastructure planning (Semarang, Pontianak, Bima and Manado) and to inclusivity of Persons with Disability (Banjarmasin). Prior to Kota Kita, Barry worked at premier architecture firm Diller Scofidio + Renfro (NYC). At the MIT Urban Risk Lab, Barry has collaborated on design research related to urban resilience in Indonesia, San Francisco, Haiti and India. At MIT, he received the Tata Center for Design and Technology Fellowship to develop models for co-operative based incremental housing in India. Barry Beagen received his Bachelor of Science for Civil and Environmental Engineering at Cornell University, NY, USA and Master of Architecture at Massachusetts Institute of Technology, Cambridge, MA, USA.

Renee Y. Chow, Prof. Dr.

University of California / Studio URBIS, USA

Renee is Professor of Architecture and Urban Design at University of California at University of California Berkeley as well as Founding Principal of Studio URBIS. She currently serves as Chair of the Department of Architecture at UC Berkeley.

Urban challenges of the 21st century — water scarcities, resource reductions, and sustainable places -- require solutions that are locally rooted. To encode local conditions, Renee developed analytic and generative tools for integrating urban and architectural systems across sites and individual buildings. These practices can be found in her books: *Suburban Space: The Fabric of Dwelling and Changing Chinese Cities: The Potentials of Field Urbanism*.

Renee has been honored as a ACSA Distinguished Professor, the Eva Li Chair in Design Ethics, "Ten Top Architectural Educators" by Architecture magazine, as well received research and project awards from the AIA. She received her B.S.AD and M.Arch from the Massachusetts Institute of Technology where she also taught before joining the faculty at Berkeley.

Greta Dekker

PolyUrbanWaters - Institute for Technology and Resources Management in the Tropics and Subtropics (ITT), Cologne University of Applied Sciences (TH Köln)

Greta Dekker is a research associate at the ITT at the Cologne University of Applied Sciences. She studied Biology with a major in Wildlife Management (B.Sc.) and Natural Resources Management (M.Sc.), with a focus on emerging water resources conflicts. Her expertise lies in social-ecological systems research and in working with nature-based approaches for sustainable change. Greta's current work focuses on social-ecological systems, nature-based solutions, needs-based capacity building and the development of participative methods for planning with science intensive content.

David Dietz

PolyUrbanWaters - BORDA e.V.

David Dietz studied International Development at the University of Vienna. After an internship at UNIDO, he has been working with BORDA for the past seven years on various assignments in Bremen, Tanzania, Cambodia, Indonesia and Myanmar. Currently, he is the BORDA country director for Cambodia. He has expertise in the development of decentralized schemes for integrated waste and wastewater management in peri-urban areas in secondary cities in Southeast Asia.

Frank Fladerer

PolyUrbanWaters - BORDA e.V.

Frank Fladerer is a Civil Engineer with a special focus on water management. Since graduating from the Dresden University of Technology in 1991, he has worked for several international organizations such as GTZ, and has more than 25 years of experience in project management and implementation for water and sanitation issues in urban areas throughout Southeast Asia. As the BORDA regional director for SEA (Indonesia, Philippines, Laos, Cambodia, Vietnam, Myanmar, Thailand), he is responsible for the management of cooperations with partners from national and local governments, NGOs, international organizations as well as the private sector, enabling the implementation of basic needs services in the water and sanitation sector for more than 300,000 people/year in the region.

Linnéa Fölster

Hamburg Wasser

Linnéa Fölster has been working for Hamburg Wasser, Hamburgs municipal water supply and wastewater disposal company, since 1998. Currently she holds the position of senior expert for strategic infrastructure coordination. Alongside this activity she has worked as an expert and advisor for various projects in the field of water management, many focussing on the developing context. Her most recent projects include "Institutional and Organisational Strengthening of WASCO Saint Lucia and Regional Water Utilities " as senior operations and maintenance expert and "Balqa Utility Strengthening, Jordan" as senior water supply management expert.

Bernd Gutterer, Dr.

PolyUrbanWaters - BORDA e.V.

Bernd Gutterer started his professional career in Business Administration in the mechanical engineering industry. He studied sociology, economics, philosophy and environmental sciences at the University of Bremen and at the Paris Nanterre University. He received his doctorate at the Mercator University Duisburg on the subject "Sustainable Energy Supply in Rural Areas and Sustainable Technology Transfer". He has been active for thirty years in international scientific and technical cooperation projects (University Witten-Herdecke, BORDA, InWEnt, GTZ/GIZ) in Europe, Africa, Latin America, Middle East, South Asia and South-East Asia. He has expertise in the design of complex multi-stakeholder and capacity development processes and in transformation processes for sustainable water management in urban areas.

Dr. Nazmul Huq

ICLEI - Local Governments for Sustainability, Bonn, Germany

Nazmul Huq is an urban and rural planner working on the interfaces of climate change adaptation and resilience, ecosystem services, and human livelihood to promote sustainable and resilient local development. One of his major strengths is to apply transdisciplinary and data-driven approaches and methods to assist integrated decision-making to foster sustainability decision-making across spatial and temporal scales. As the head of the Resilient Development Program at ICLEI world secretariat, his mission is to mainstream resilience thinking and actions for sustainable local development.

He has a Ph.D. in spatial and environmental science from the University of Trier, Germany, an Advanced Master on Human Ecology from the Free University Brussels, Belgium, and a Bachelor of Urban and Rural Planning from Khulna University, Bangladesh.

He has 10 years of working experience as a researcher and project manager at various organizations such as the Technical University of Cologne, the United Nations University in Bonn, Bangladesh Centre for Advanced Studies (BCAS) in Bangladesh, Unnayan Onneshan (leading Bangladesh based think tank), Handicap International, and the United Nations Population Fund (UNFPA), among others. He has been regularly publishing scholarly articles on climate change adaptation, ecosystem and nature-based adaptation, ecosystem services, and sustainable livelihood in reputed scientific outlets.

Thammarat Koottatep, Dr.

PolyUrbanWaters - Asian Institute of Technology (AIT)

Dr. Thammarat Koottatep is a Professor of Environmental Engineering Management of the AIT, Thailand. He is an internationally recognized professional on fecal sludge management, sanitation systems, and wastewater treatment technology. His major scholarly contributions include publications of more than 60 refereed international journal papers, 3 books, and 9 book chapters. He has invented sanitation technologies, one of which is patented to his credit and several of which are filing. He has jointly developed a professional master degree program in Regenerative Sanitation and mentored 18 doctoral students. He has secured significant funded projects including research and training grants, and most notably, the Bill & Belinda Gates Foundation grants on “Decentralized Wastewater Management in Developing Countries: Design, Operation and Monitoring”. He has contributed significantly to capacity building in faecal sludge management and decentralized wastewater treatment systems in Thailand and abroad, including capacity strengthening for policy makers.

Jati Kusumowati

PolyUrbanWaters - BORDA e.V.

Jati Kusumowati started working with BORDA in 2009 as the project leader for a climate change prevention project from community-based sanitation waste management plants, a collaborative project between BORDA and International Development Research Center. Currently Jati Kusumowati works for BORDA as the project coordinator for PolyUrbanWaters in Southeast Asia.

Arlene Lusterio

TAO-Pilipinas, Philippines

Arlene Christy Lusterio is a licensed architect and environmental planner. She has a Master of Architecture in Human Settlements from Katholieke Universiteit Leuven Post Graduate Center Human Settlements and a BS Architecture degree from the University of the Philippines. She takes special interest in settlements in/on water and has spent a year of research in the Mekong Delta of Vietnam in 2006. She has spent twenty (20) years of her professional life working for development with organized poor communities seeking security of tenure in Metro Manila and in other disaster-affected areas in the Philippines. Her work involves promotion and practice of participatory approach to planning and design of settlements. She integrates considerations for sustainability, disaster-resilience and most recently climate change mitigation and adaptation in settlements planning and design. She is the executive director of TAO-Pilipinas, Inc. a women-led non-government organization which envisions the development of sustainable settlements.

Ian McNamara

PolyUrbanWaters - ITT, TH Köln

Ian McNamara is a research associate at the ITT at the Cologne University of Applied Sciences. He completed a Bachelor of Civil Engineering and a Master's of Integrated Water Resources Management, with a thesis topic focusing on the modelling of complex water systems. His expertise lies in hydrology, drought and flood risk analysis, water quality monitoring, the water-energy-food nexus and statistical analysis. He currently works on the physical assessment of the spatial and temporal characteristics of water resources as well as the modelling of changes under different scenarios of development.

Philipp Misselwitz, Prof. Dr.

PolyUrbanWaters - Habitat Unit, Technical University (TU) Berlin

Prof. Dr. Philipp Misselwitz is a Principal Investigator at the TU Berlin Habitat Unit. He is an architect and urban planner based in Berlin. He was educated at Cambridge University and the Architectural Association London and received his PhD from Stuttgart University in 2009. In 2013, he was appointed Chair of Habitat Unit at the Institute for Architecture of the TU Berlin - a globally networked research and teaching center focused on the study of urbanization processes in the Global South. His current research focuses on user-driven urban development processes, co-productive urban governance, translocal urbanization dynamics and tools for the localization of global sustainability agendas in urbanized regions. He is a member of DFG-funded Special Research Area 1265 "Re-figuration of Spaces" at TU Berlin and partner at the Berlin-based planning consultancy "Urban Catalyst", where he regularly advises development cooperation partners such as German Ministries, GIZ or UN agencies on sustainable urbanization challenges.

Phong Tung Nguyen, Dr.

PolyUrbanWaters - Vietnam Academy for Water Resources (VAWR)

Assoc. Prof. Dr. Phong Tung Nguyen is the Deputy Director General of VAWR with over 25 years of experience in the fields of water resources management, environmental science, disaster risk management, institutional framework for river basin planning irrigation, and hydropower. Dr. Phong has extensive work experience at the interface of water resources management and policy instruments to facilitate the adoption and transfer of research to policy and decision-making processes. He has been a frequent collaborator with international organizations such as WB, ADB, JICA, UNDP, UNESCAP, SIDA, FAO, etc.

Lukas Pappert

Urban Catalyst

Lukas Pappert (M.Sc.) studied Urban and Regional Planning at University of Kassel and Urban Design at Technische Universität Berlin. Since 2015 he has been part of the Urban Catalyst team in Berlin. His professional focus is on strategic planning, process design, participation and urban research. Lukas Pappert is co-author of the publication: Spatial Commons. Urban Open Spaces as a Resource (Berlin, 2017). He is regularly invited as a guest critic and speaker at TU Berlin, BTU Cottbus-Senftenberg or TU Dresden, among others.

Within integrated constellations Lukas Pappert develops strategic concepts on regional, city-wide and subspatial scales. He consequently pursues an integrated, process- and actor-oriented perspective on spatial development. Two frequently discussed projects in which he was involved are a concept for focus areas (Handlungsraumkonzept) for the City of Munich (2018) and an integrated urban development concept (INSEK 2040) for the City of Angermünde (2019). Currently he focuses on strategies for the Post-Corona City and spatial visions for urban-rural regions.

Rossana Poblet

UN Habitat

Architect and Urbanist working as regional and urban-environmental planner with UN-Habitat. 15+ years' experience implementing participatory planning and design strategies processes at multidisciplinary level, focusing on sustainability, ecological infrastructure, r-urban development and metropolitan and city-regions development. Actively involved with participative [in]formal urban transformation processes in neglected and contested regions in the Americas, Africa and Europe. Has joined multidisciplinary teams to co-formulate policies, plans, programs and applied-research projects integrating socio-cultural, institutional, economic aspects with environmental concepts like hydrological and hydrosocial cycles, nature-based solutions, and water sensitive urban planning and design, to build resilience and reduce climate change impacts. Her work includes cross-cutting topics addressed by the New Urban Agenda and the Agenda 2030 for Sustainable Development – SDG Goals. Currently she supports the Niger State Government to formulate the Minna and Suleja Integrated Development Plans. She also has an active role as visiting lecturer in different academic programs.

Lars Ribbe, Prof. Dr.

PolyUrbanWaters - ITT, TH Köln

Prof. Dr. Lars Ribbe is the Dean of Faculty of Spatial Development and Infrastructure Systems at the Cologne University of Applied Sciences and a Professor for Integrated Land and Water Resources Management at the ITT. He has a Master's of Engineering and a PhD in the field of hydroinformatics. His key research areas are: integrated river basin monitoring, modelling and management; strategies to cope with water scarcity, water access and pollution; and the water-energy-food nexus. He occupies a managerial role in the Polyurbwater project as well as providing expert advice on the processes and analyses undertaken by the project team.

Bakti Setiawan, Prof. Dr.

PolyUrbanWaters - Universitas Gadjah Mada (UGM)

Dr. Bakti (Bobi) Setiawan is professor in urban planning at the Gadjah Mada University, Indonesia. He graduated from the master program in Urban and Regional Planning, University of Waterloo, Canada and then completed his PhD program in Community and Regional Planning at the University of British Columbia, Canada in 1998. In 2001, he was appointed as the director for Centre for Environmental Studies, UGM – a leading research centre in the university. After four productive years in that centre, he was then elected as the director for the Graduate Program in Urban and Regional Planning, Department of Architecture and Planning. In 2010, he was promoted to the role of professor in urban planning at the UGM. In addition to teaching, he serves as adhoc-advisory board in several ministries at the central government in Indonesia, including Ministry of Public Works and Housing, Ministry of Environment and Forestry, and also Ministry of Education and Culture. His research interest covers several areas such as: urban housing, sustainable cities, urban land management, environmental management, and community development.

Trinh Tran, Dr.

PolyUrbanWaters - Vietnam Academy for Water Resources (VAWR)

Dr. Trinh Tran is a researcher of Environment and Water Resources research group at VAWR, Hanoi, Vietnam. He joined the Academy after a period of post-graduate study and research fellowship at the University of Michigan in 2014. His current research interests include water resources system analysis towards equitable water allocation among sectors, water quality modeling for waste load allocation management, and environmental flow assessment. In addition to teaching at the graduate program in Integrated Water Resources Management, he contributes to the research project under the European Horizon 2020 program to study the application of nature-based solutions to mitigate various urban challenges.

Christof Voßeler, Dr.

PolyUrbanWaters - Free Hanseatic City of Bremen

Dr. Christof Voßeler a policy advisor for climate change adaptation at The Ministry for Climate Protection, Environment, Mobility, Urban and Housing Development of the Free Hanseatic City of Bremen. He is an environmental engineer and economist and worked several years in the field of development cooperation. Since 2007, he is responsible for the development and implementation of climate change adaptation strategies in the Free Hanseatic City of Bremen. He is working in several practice-oriented research projects on climate resilience at provincial and municipality level and is a member of several national and international working groups on climate resilience. Dr. Voßeler is a contracted (Dienstfreistellung) for selected advisory services.

Anna Wilk-Pham

PolyUrbanWaters - Habitat Unit, TU Berlin

Anna Wilk-Pham has been a member of Habitat Unit team since 2015. She works at the interface of integrated planning and architecture. Her research interests combine the areas of extended urbanization, community-based, participatory planning methods and co-production processes. As a part of Polyurbwater team, she is working on her Doctoral Thesis with a focus on participatory planning tools for sustainable future transformation. She supports the project team through co-development of water-sensitive urban planning tools and methods. Anna studied architecture and urban planning at the Technical University in Berlin, Leibniz Universität in Hannover and Technical University of Poznan.

Tony Wong, Prof. Dr.

Cooperative Research Centre for Water Sensitive Cities, Australia

Tony Wong is formerly the Chief Executive of the Cooperative Research Centre for Water Sensitive Cities in Australia, and currently leads its Think Tank. He pioneered the water sensitive cities approach to integrated urban water management. He has led a large number of award-winning projects based around the adaptation of nature-based solutions for urban water management. He has advanced new understandings and enabled creative design through blending bio-mimicry with engineering and architectural knowledge and practices for delivering sustainable urban water outcomes. A sequence of his achievements in Australia over the last 30 years in research and development, technology, urban design and policy has diffused globally, and increasingly amongst developing nations. In 2010 he received the prestigious Sir John Holland Award as Australia's Civil Engineer of the Year, cited as having defined "a new paradigm for design of urban environments that blends creativity with technical and scientific rigour". He was elected fellow of the Australian Academy of Technological Sciences and Engineering in 2014, and in 2018, he received the IWA Global Water Award in recognition of his pioneering work in urban water management and water sensitive urban design.

Organised by



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