

WATER CITIES IN TRANSITION

Inspiring solutions in integrating
urban design and water challenges

31 OCTOBER - 1 NOVEMBER 2011
AMSTERDAM, THE NETHERLANDS

Second announcement and invitation to register

INTRODUCTION

From October 29 to November 4, the city of Amsterdam will host the first International Water Week in the Netherlands (IWW). The IWW highlights integrated solutions covering the entire water cycle. One of the conferences that will be organized during the week of the event is the conference Water Cities in Transition, Inspiring solutions in integrating urban design and water challenges.

Cities dominate the world: politically, economically and ecologically. Cities cope with a broad spectrum of challenges to maintain a good quality of life for residents, be an appealing and economically healthy place and deal with demographic changes. Cities are also where a wide range of water challenges converge: flood defenses, management of storm water and groundwater, an aging infrastructure and ecological stress. At the scale and in the context of the city, we can share, compare and learn from each other about strategies and solutions to take an integrated approach to these challenges.

In August 2010 the first international conference on Water Cities in Transition has been organized during the Amsterdam Sail event. Examples from Hamburg, Tokyo, Barcelona and Stockholm have been presented and compared with Dutch practice.

During IWW 2011 Amsterdam, the Water Cities in Transition conference will serve as a platform where urban planners and water managers together focus on the latest developments in water city transitions: coping with climate change-related challenges, linking them with socio economic issues and inspiring integrated solutions in urban design and practice. For this conference, we invite parties from round the world to share their secrets for success in linking or attempting to link water challenges to sustainable urban development, smart financial concepts and/or local governance solutions.



WELCOME BY THE CONFERENCE PRESIDENT

Dear Delegates,

On behalf of the Organizing Committee of the KNW conferences during the International Water Week I would like to invite the urban planners and water professionals from around the world to attend the conference Water Cities in Transition. This conference is a 2-days event in Amsterdam, staged by the Royal Netherlands Waternetwork (KNW) in cooperation with the city of Amsterdam (both Waternet and the Physical Planning Department), the province of Noord-Holland, Tauw, Grontmij, Deltares and the municipality of Almere. The focus is on lessons learned about the transitions in interconnecting urban planning, water or climate challenges and governance in cities worldwide. Water Cities in Transition is one of the conferences during the water week in which new ideas will be presented that contribute to integrated solutions.

The conference will attract a multidisciplinary audience and will form an interface between science and urban practice: urban planners and designers, urban water managers, scientists, students and consultants. It will offer a platform for discussions and will provide ample opportunities to learn and network with professionals in your fields of interest.

During the International Water Week you have the possibility to attend many conferences, to take part in events and to visit the Aquatech, a thriving international trade exhibition for the global water industry.

I look forward to meeting you in Amsterdam during the International Water Week and to seeing you at the conference Water Cities in Transition.



Conference President,
Roelof Kruize

Chair KNW and CEO
Waternet Amsterdam
region

SCOPE OF THE CONFERENCE:

The conference will focus on lessons learned about the transitions in interconnecting urban planning, water or climate challenges and governance in cities worldwide, both on metropolitan and project level. It will form an inspiring interface between science and practice.

Metropolitan strategies for water cities of the future:

- water as an urban quality: dilemma's and opportunities for climate proofing
- long term water ambitions connected to present urban dynamics
- waterfront development, sustainable planning and flood protection
- designing water infrastructure as an green energy source
- integration of urban drainage challenges in (re)construction plans
- water shortage and droughts: strategies for transitions in the urban context

Building integrated urban solutions:

- New innovations of water and energy related to urban planning
- Case studies of water neutral building: efficiency, use and reuse
- Sustainable floating urbanization
- Development by management in the dynamic existing city

Connecting water with social and economic issues

- Sustainable governance concepts
- Public private cooperation
- Innovative financial concepts or business cases

OUTLINE PROGRAMME

“WATER CITIES IN TRANSITION ”

31 OCTOBER – 1 NOVEMBER 2011

Monday 31-10-2011

09.00 – 09.15	Welcome
09.15 – 10.15	Keynote speeches
10.15 – 10.45	Coffee break
10.45 – 12.15	Keynote speeches
12.15 – 14.00	Open space and lunch: short presentations, demonstrations and discussions
14.00 – 14.45	Introduction to the design workshops
14.45 – 18.00	Excursion: Almere Excursion: Zaan-IJ Excursion: Watergraafsmeer Excursion: Waterlandse Zeedijk

Tuesday 1-11-2011

9.00 – 12.00	Design workshop: Almere Design workshop: Zaan-IJ Design workshop: Watergraafsmeer Field workshop: Flood control and spatial planning
12.00 – 14.00	Field workshop continues! Open space and lunch: short presentations, demonstrations and discussions
14.00 – 15.30	Design workshop: Almere Design workshop: Zaan-IJ Design workshop: Watergraafsmeer Field workshop: Flood control and spatial planning
10.15 – 10.45	Coffee break
16.00 – 17.30	Plenary closing session
17.30 – 18.00	Closing of the conference

MONDAY 31-10-2011

08.00 – 09.00	Registration
09.00 – 09.15	Welcome by Joke Geldhof (Vice Governor Province of Noord-Holland) Opening of the conference by the plenary chair, Bert Satijn .
9.15 - 10.15	Mark Fletcher , Water Leader for Arup across UKMEA. Experiences from Water Resilient Cities around the world The UrbanLife report “Water Resilience for Cities” was recently published by Arup as recommendations for increasing urban resilience to water-related issues around the world. In his speech he will talk about this and other recent experiences from working in cities as Ho Chi Minh City, Manila, Bradford and Sheffield. Christian Günner , head of basic system development division at HAMBURG WASSER, Germany. Strategies for dealing with stormwater Hamburg is searching for a better relation between spatial planning, traffic planning, river management and stormwater management. His speech will focus on the challenges of the transition process by means of the Project RISA (Rainwater Infrastructure Adaption) in Hamburg.

10.15 - 10.45	<p>Coffee break</p>
10.45 - 12.15	<p>Phil Askew, Landscape Designer and Urban Architect, Project Director Parklands and Public Realm for the London Olympic Delivery Authority 2012</p> <p>Olympic Games as a trigger for long term water resilience</p> <p>What are the long term gains for water and sustainability in Eastern London after the Olympic Games in 2012?</p> <p>Barbara Anton, Project Coordinator, Water; ICLEI - Local Governments for Sustainability, European Secretariat</p> <p>Best practices of local governments as key players in water governance</p> <p>Water in the city has many masters. The urban water cycle in all its dimensions reveals the weaknesses or absence of good communication between them quite tangibly. Based on practical examples, this key note will demonstrate what local governments do in different cities in the world to bring the relevant actors around the same table.</p> <p>Wolfgang Rauch, Professor of Environmental Engineering, University of Innsbrück, Austria</p> <p>Transition in urban water infrastructure, an integrated modelling approach</p> <p>The transition of present urban water infrastructure requires to take into account not only technical issues but also urban development and the social-political environment. DANCE4Water is an integrated model concept to predict the evolution of the total system towards innovative urban water management.</p>
12.15 - 14.00	<p>Open space and lunch</p> <p>Contributions from the open call will be discussed in five corners:</p> <p>a. Flood control concepts and design in Spain, Ghana and the Netherlands (moderator Enrico Moens, Grontmij)</p> <p>b. Governance challenges and opportunities in India, New Orleans and Dutch cities (moderator Frans van der Ven, Deltares)</p> <p>c. Water Sensitive Urban Design, worldwide inspiration from architects and discussion about using it in practice (moderator Rutger de Graaf, Deltasync)</p> <p>d. Dealing with stormwater (urban drainage), transition processes and tools (moderators Axel Waldhoff, Hamburg Wasser and Floris Boogaard, TU Delft/Tauw)</p> <p>e. Opportunities for a sustainable urban water cycle, lessons from transitions in Germany, South Africa, Turkey and the Netherlands (moderator Jeroen Kluck, Tauw)</p>
14.00 - 14.45	<p>Plenary introduction to the design workshops</p> <p>(description see under Tuesday, please give your preference in registration).</p>
14.45 - 18.00	<p>Excursions to the workshop study areas</p> <ol style="list-style-type: none"> 1. Almere 2. Zaan-IJ 3. Watergraafsmeer 4. Waterlandse Zeedijk (Lake Markermeer)
Evening	<p>Opening IWW in RAI, Amsterdam</p>

For registration please visit
www.internationalwaterweek.com

TUESDAY 01-11-2011

09.00 - 12.00

Parallel design workshops:

1. Almere (Nemo)
2. Zaan-IJ (Nemo)
3. Watergraafsmeer (Nemo)
4. Field design workshop North Sea coast and Afsluitdijk (on the road, 9.00 – 15.30 u)

1. Design workshop Almere: Sustainable Greenfield Development

Almere, a city close to Amsterdam, has about 200.000 inhabitants. The city is getting ready for a “scale jump” to double in size by 2030. Seeking guidelines to renew and transform itself, the municipality of Almere developed principles by which the city could grow sustainably in balance with its unique polder environment and with its challenge to settle people and grow jobs that contribute to an ecologically, socially and economically sustainable future.

Because of the uncertainty of the housing market, the city of Almere has chosen for a stepwise, flexible approach. In the field workshop we will visit the implementation of different new concepts for urban development. The design workshop will be a creative and inspiring interactive session in which participants and representatives of the city of Almere develop ideas and show their best practices.

2. Design workshop Zaan-IJ: Sustainable Waterfront Development Amsterdam

Over the past 20 years Amsterdam has developed a strong tradition in waterfront development along the east side of the IJ banks. Old harbour industries were replaced by new housing environments in different densities and different mixed programs.

The next phase in development will be a transformation process that deals with smaller steps, richer cultural diversity and freedom in housing and working spaces and a harbour that still functions well. What will this new water city in transition look like and how can this process be guided into the right proportions. Can sustainable solutions on a local level of building block be part of integrated strategies?

3. Design workshop Watergraafsmeer: Innovative Living with Water in the existing city, Amsterdam

Watergraafsmeer is the lowest district of Amsterdam, built in a polder 5 meters below sea level, with 25.000 inhabitants. It's an area that suffers from groundwater problems and urban floods, and climate change and urban densification will only make things worse. Smarter governance is possible through the establishment of innovative alliances. A big challenge at this moment is gradually implementing more sustainable urban drainage systems in existing buildings and streets. How can we create value by connecting liveability for local stakeholders and innovative solutions for dealing with water?

Augmented reality will help us to experience the problems during the excursion. More inspiration: check <http://www.watergraafsmeer.org/iwww/watercities-in-transition>

4. Field design workshop flood control and spatial planning: innovative integrated solutions and new (coastal) safety concepts for climate adaptation and revival of existing levee infrastructure

Worldwide the need for integrated innovative solutions and new safety concepts increases. In the province of Noord-Holland several (integral and innovative) concepts to reinforce levees and dikes are being used. These field workshop will visit three different concepts to reinforce levees that protect our region, cities and villages: broad multi functional levee near urban areas (safety, nature, recreation), reinforcement of 'weak links' in the North Sea coast with sand and reinforcement of existing levee combining flood control with innovative energy concepts (levee with solar panels, wind turbines, tidal power plant). The field workshops consist of a creative part where scenarios are worked up (how will it look like) and international experiences will be exchanged, and of excursions to the locations where the levees are located or are being planned. For these field workshops we are looking for reflection and best practices from other international deltas.

- 12.00 - 14.00 **Open space and lunch**
(see Monday programme, opportunity to join different discussions)
- 14.00 - 15.30 **Parallel design workshops continued**
- 15.30 - 16.00 **Tea break**
- 16.00 - 17.30 **Plenary closing session**, chaired by Bert Satijn.
Short and interactive presentation of the results of design workshops and discussion.
- 17.30 - 18.00 **Closing of the conference**

REGISTRATION VIA WWW.INTERNATIONALWATERWEEK.COM

The conference fee covers attendance at the conference sessions, conference documentation, conference dinner on Tuesday 1 November or Thursday 3 November, morning and afternoon coffee/teas and lunch, attendance at RAI exhibition. Below prices are excl. of 19% VAT.

Categories	Early bird rate (before 1st September)	Normal rate (after 1st September)
Member KNW	€ 545,-	€ 595,-
Non member	€ 565,-	€ 595,-
Student	€ 150,-	€ 200,-
RAI exhibitor (5 places)	€ 365,-	€ 415,-
Day rate	€ 356,-	€ 395,-
Passe-partout for all conferences	€ 896,-	€ 995,-
KNW Excursions	€ 60,-	€ 60,-
Conference dinner ticket	€ 100,-	€ 100,-

The online registration form is available at www.internationalwaterweek.com. After we have received your registration we will send you an invoice with the information how to pay the fee. All remittances should be made in Euro's. Above prices are exclusive of the prevailing Goods & Services TAX (as a guide to delegates the current exchange rate of Euro € 1,- = US \$ 1,28). The organising committee of the conference will confirm registrations after receipt of the payment.

Early Bird Discount:

For registrations confirmed and paid before the 1th of September.

Cancellation:

Before the 1st September 2011, a total refund minus a € 100,- administration fee will be issued. Between the 1st September – 15th September 2011 a 50% refund will be issued.

After the 15th September 2011, no refund will be made for cancellation.

Refunds of registration after must be applied for in writing and will be settled after the conference.

EXCURSIONS

During the International Waterweek there will be several excursions. The costs are € 60,- per excursion. Please mention this on your registration form. On the website www.internationalwaterweek.com you can find information about all the excursions and more information.

WATERgraafsmeer; urban water challenge Wednesday 2 November

Watergraafsmeer is the lowest district of Amsterdam, built in a polder 5.5 meters below sea level. It's an area that suffers from water nuisance - like flooded roads and properties - and climate change and urban densification will only make things worse. Transition to a sustainable and climate-proof future is highly complex, so the local governments initiated the programme WATERgraafsmeer. During the excursion you will see the first results of the programme. By use of augmented reality it is also possible to see the future

plans.

Zuid-As, Amsterdam: urban densification related to all the major watertemes

Wednesday 2 November

The urban densification of the Zuidas development is related to all the major watertemes. You 'll hear and see about a flexible approach towards embedding the transforming waterstructure, (alternative) waterstorage, groundwatermanagement and the integration of precipitation management with the sketching of public and private spaces on different scales.

Lake Ouderkerkerplas: cold retrieval and water-quality improvement

Thursday 3 November

This excursions shows a win-win situation in South-east Amsterdam. Energy company Nuon retrieves since 2009 cold water from the 40 meter deep lake Ouderkerkerplas. A communal surface water cooling-system, reduces up to 80% energy-consumption and CO2-emission compared to the traditional situation of individual air-conditioning. An innovative technique is introduced to reduce the negative effects on water quality, ecology and recreation possibilities. You 'll hear the results of an extensive research, supported by the EU, that gives insight into the development of the lake and the effects of cold retrieval and oxygenation.

IJburg: building in lake IJmeer a new neighbourhood for 45.000 people in Amsterdam

Friday 4 November

IJburg is a new waterproof and sustainable neighbourhood currently under construction in lake IJmeer, northeast of the city of Amsterdam. When finished, it will consist of several man-made islands, all protected by primary dykes. Eventually, 45.000 people will be living, working and recreating at IJburg. Initiatives and ideas concerning water management were incorporated in the early stages of the urban development plans. In our excursion we will elaborate on how the relevant aspects of water management - safety, water quality, water quantity, sewage systems, groundwater and ecology - are integrated in the spatial design and planning of the islands.

Amsterdam Water Management: a glance behind the stages

Wednesday 2 November, Thursday 3 November

Over more than 750 years the city has developed at the interface of land and water. The constant flow of drinking water, waste water, river water, see water and storm water merged into a system that 'works' on a daily basis. In a half a day excursion we will visit some 'hidden places' behind and under the streets and canals of Amsterdam.

Flood protection in Amsterdam, a multi layer safety approach

Wednesday 2 November, Friday 4 November

During the bicycle tour several flood prone areas in the city will be visited. Guides will explain the different flood protection systems and possible multi layer safety measures related to new developments and the historical perspective. This from a multi layer safety approach. In this approach the focus is not only on prevention (levees), but also on diminishing effects by spatial measures, damage control and evacuation.

History of the Amsterdam Water cycle: a boat tour

Friday 4 November

The history of the Amsterdam water cycle is fascinating: How has the robust canal city risen from the swamp? What was the origin of the current NAP level? How did the city get their drinking water? What is the relation between jerry-building in the 19th century and current groundwater problems? Why has Amsterdam built separate sewer since 1924? During a boat tour through the canals we share our stories with you.

CONFERENCE VENUE

The conference will take place in NEMO, Oosterdok 2, 1011 VX Amsterdam, the Netherlands.

Science Center NEMO is the place to discover science and technology in a fun and educational way. NEMO is the largest science centre in the Netherlands. With five floors full of exciting things to do and discover, it is the perfect place for anyone with an inquiring mind. You will smell, hear, feel and see how the world works. This immense green building is located about 15 minutes walk from Amsterdam Central Station. The fascinating construction – often compared to a ship – is located above the IJ Tunnel. The building was designed by the renowned Italian architect Renzo Piano.

CONFERENCE DINNER

There will be 2 conference dinners during the International Waterweek. The conference dinners will take place on Tuesday 1 November and Thursday 3 November. The dinners will be in the centre of Amsterdam. You can join one of the dinners. This is included in the fee. Please mention the date you prefer on the registration form. More information will be available later.

ACCOMPANYING PERSONS

Through the hotels a variety of touristic tours in Amsterdam and the surrounding cities are organized every day. accompanying persons are welcome to attend the conference dinner on Thursday 3 November. The fee for accompanying persons is € 100,-. Please mention this option on your registration form.

HOTEL RESERVATIONS

For hotel reservation please visit www.moorga.com and select your conference. You can find all information and bookings of the different hotels in Amsterdam near the RAI conference centre. On the website the organising committee made a selection of 4 hotels near the conference venue, so all delegates can stay in vicinity.

GENERAL INFORMATION

Transport

Transport from Amsterdam Schiphol Airport to NEMO:

- by train directly from the airport to Amsterdam Central station; every 15 minutes (transfer time 10 minutes). From Central station a 10 minute walk to NEMO.
- of course also taxi's are available at the airport and Central station of Amsterdam.

Visa

Delegates should check if they require visa for entry to the Netherlands. If any delegate experiences difficulty obtaining a visa please contact the secretariat.

Climate

The Netherlands have a maritime climate. In November the average daily temperature is 9 degrees Celsius and generally mild. A raincoat is advisable.

Conference language

The conference language is English. Therefore, all papers and posters are written and presented in English. There will be no translation facilities.

Insurance

Participants are advised to check whether they are insured during their stay in the Netherlands. Although good care will be taken of the participants, the organisers cannot be held responsible for any loss, damage or personal harm.

SURPRISING AMSTERDAM

Unique city of water

Amsterdam's ties to water are inextricable. The city was not only founded on water, it continues to play a significant role. The Amsterdam Metropolitan Area is renowned for the major role water plays in daily life. It was during the Golden Age that Amsterdam developed into the most prosperous city in Europe on the heels of thriving transoceanic trade. The Dutch have also had to battle against – and ultimately prevailed over – water. With this rich tradition of working together to live with water, Amsterdam has developed into a bustling commercial centre, tourist destination and cultural stronghold.

Things to do and see in Amsterdam

A canal trip is the best way to see the most characteristic parts of Amsterdam. In November the canals are illuminated with thousands of lights. In the Vincent van Gogh museum, the Historic museum or the Municipal museum you will find a great collection of classic and modern art. The house where Rembrandt lived and worked is open to visitors.

Public events

During the week public events will be staged on different locations throughout the city of Amsterdam. These public events should increase the familiarity of residents and visitors with the various stories and images that are part of the unique features of this water city. It also highlights Amsterdam as an appealing economic, tourist and cultural destination and as a unique city with a rich history in which its people live on and near the water.

ORGANISING COMMITTEE

Roelof Kruize	Waternet, the Netherlands
Gerard Blom	Deltares, the Netherlands
Martien den Blanken	PWN, the Netherlands
Peter de Jong	Witteveen + Bos, the Netherlands
Monique Bekkenutte	Royal Netherlands Water Network (KNW), the Netherlands

PROGRAMME COMMITTEE

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Fleur Hol	Nirov/Netherlands Institute for Planning and Housing, the Netherlands
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Lilian Bernhardt	Province of Noord-Holland, the Netherlands
Frans van de Ven	Deltares, the Netherlands
Barbara Anton	ICLEI, Local Governments for Sustainability
Leendert van Bree	Dutch Society of Environmental Professionals (VVM), PBL Netherlands Environmental Assessment Agency, the Netherlands
Floris Boogaard	Tauw, the Netherlands

All information can be obtained from:

Conference secretariat Moorga

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or www.moorga.com (latest news)

Conference location:

NEMO

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Partners conferences:



Almere

