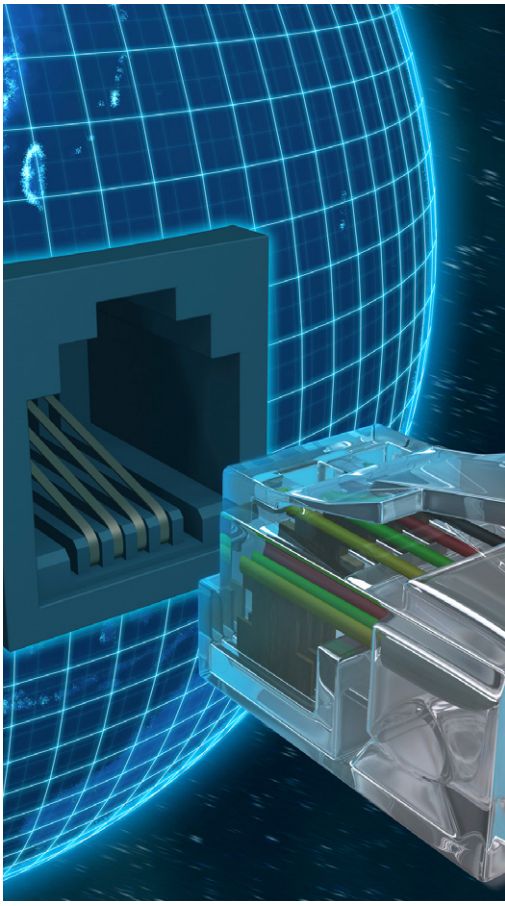
IWC
International
Water Conferences

The New Developments in IT & Water Conference
is a high-profile international event
organized by KNW, the Royal Dutch Water Association
and is supported by the International Water Association
(IWA) specialist group on Instrumentation Control
and Automation (ICA)

West-Indisch Huis Amsterdam
The Netherlands

4 – 6 November 2012



New Developments in IT & Water
Second announcement and invitation to register

SUPPORTED BY:

IWA International Water Association

IT & Water

Integration of information technology (IT) enabled solutions in the water cycle is the key to realize a significant reduction in water consumption, environmental emissions and costs, and an improvement of water quality and control of installations.

IT-enabled solutions bridge obstacles within the water sector that now hinder water organizations, technology providers and integrators to make the best use of new and available technologies to improve efficiency. IT-enabled solutions offer potential for implementation of real-time forecasting, advanced monitoring, model based control and new approaches of active consumer involvement.

The New Developments in IT & Water Conference is an international event that will include the depth and breadth of the relevant IT solutions in every aspect of the water cycle, recognizing that while IT solutions in water management are implemented locally, research and best practice are advanced through sharing results and knowledge globally.

Scope of the conference

Modeling and advanced control

Creating the possibility to predict the behavior of water processes and the interactions in the water cycle to improve operations with respect to water quality, costs and environmental emissions.

Monitoring and visualization

New technologies and management approaches to help utilities to monitor the infrastructure, improve performance and respond to current and future challenges.

Data mining, handling and integration

Developments in the processing of non-uniform datasets from the entire water cycle for detection of interaction between the different sub-sectors and as input for improved operation.

Web-based applications

Examples of the use of Internet for purposes of distant monitoring and control of the water cycle, simulations of water processes and education in water related aspects.

Customer interaction through apps

Involving customers in the management of the water cycle by information through social media and using the observations from the customers for improved operations.

Welcome by the conference president

Dear Delegates,

A warm welcome to the New Developments in IT & Water Conference held in Amsterdam, the Netherlands, organized by KNW, the Royal Dutch Water Association. We especially welcome members and leaders of the specialist group on Instrumentation Control and Automation (ICA) of the International Water Association (IWA) that supports our conference.

IT applications in the water sector cover a broad field of interest. On one hand, IT applications have the ability to integrate the water sector from a high strategic level with connections to security and energy services. On the other hand IT applications have the ability to improve the performance of a single process, or part of a process, by improving the design or control with detailed models. IT applications should lead to better water quality, lower environmental impact and more efficient management, control, monitoring and maintenance of water systems, infrastructure and water treatment processes. Due to fast communication and new ways of personal interaction with stakeholders and customers, IT applications will not only support the water sector in carrying out its primary tasks but also in its communication with customers and stakeholders.

In this conference we will discuss the new developments in IT & Water. These developments are very important for the further evolution of the water sector. I hope that you will have an interesting conference and a nice stay in Amsterdam.

Martien den Blanken,
Conference President,
CEO PWN

About IWA

The International Water Association is a global network of water professionals, spanning the continuum between research and practice and covering all facets of the water cycle. IWA members collaborate to promote the development and implementation of innovative and effective approaches to water management.

The strength of IWA lies in the professional and geographic diversity of its membership – a global mosaic of member communities – including academic researchers and research centers, utilities, consultants, regulators, industrial water users and water equipment manufacturers. IWA members from each of these communities represent the leading edge in their fields of expertise; together they are building new frontiers in the research and implementation of water and wastewater treatment technologies, within the framework of the total water cycle.

Technical tour

November 6th

15:00 - 19:00 *Remote sensing and satellite techniques for water management*

In the areas of remote sensing, geology and meteorology, Dutch scientists from various institutes (e.g. KNMI, RIVM, SRON, TNO and NLR), universities (e.g. Wageningen, Utrecht and Delft) and companies (more than 30) are active in processing satellite images. Furthermore, the Netherlands has a highly-rated sector of companies and knowledge institutes, specialized in the translation of raw data into information products and services. One of the major fields of interest is water. The availability of accurate meteorological and hydrological data plays a key-role in food production, water management and the sustainance of environmental integrity, all over the world. The excursion will visit Space Expo, which is Europe's first permanent space exhibition. Space Expo is also the visitors' centre for the European Space Agency (ESA) in the Netherlands. During the excursion you will get a glimp on the various activities of the Netherlands Space Ofice, and the use of remote sensing techniques and satellite for water management.

15:00 - 18:00 *State of the art wastewater treatment plant Amsterdam West*

Wastewater treatment plant (WWTP) Amsterdam West is a full biological treatment with a capacity of 1 million PE and is located in the Western harbor area of Amsterdam, next to Amsterdam's Waste and Energy Company. WWTP Amsterdam West has a nett production of energy due to the unique cooperation with Amsterdam's Waste and Energy Company. Sludge and biogas from wastewater are used at the waste inicineration and electricity and heat are returned to WWTP Amsterdam West. During the excursion you will be presented the state of the art in wastewater treatment and visit wastewater treatment plant Amsterdam West.

If there are too many or too few people registered for a tour, we reserve the right to limit attendance on, or cancel, a tour. In this case you will of course receive a refund of the tour fee.

Welcome reception

All delegates and accompanying persons are invited to the welcome reception on Sunday 4th November from 19.00 to21.00 hour. At the welcome reception it will be possible to register. 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 Monday 5th November 19.00– 23.00 hours. The fee for accompanying persons is € 125,-.Please mention this option on your registration form.

Registration

The conference fee covers attendance at the conference sessions, welcome reception, conference documentation, conference dinner on Monday evening 5th November 2012, morning and afternoon coffee/teas and lunch.

Categories:	*Early Bird Rate* (before September 3rd)	*Normal Rate* (after September 3rd)
• Member IWA/Waternetwork (KVWN/NVA)	€ 450,-	€ 500,-
• Non member	€ 550,-	€ 650,-
• Student (10 places)	€ 95,-	€ 125,-
• Day rate	€ 350,-	€ 350,-
• Technical tour Remote sensing and satellite techniques for water management	€ 50,-	€ 50,-
• Technical tour State of the art wastewater treatment plant Amsterdam West	€ 25,-	€ 25,-

The digital registration form is available at www.iwcconferences.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 inclusive of the prevailing Goods & Services TAX (as a guide to delegates the current exchange rate of Euro 1,– =US $ 1,25). The organizing committee of the conference will confirm registrations after receipt of the payment.

Early bird discount

For registrations confirmed and paid before the 3rd of September.

Cancellation

Before the 3rd of September 2012, a total refund minus a € 100,– administration fee will be issued.

After the 3rd of September 2012, no refund will be made for cancellation

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

FOR REGISTRATION PLEASE VISIT

www.iwcconferences.com

> CLICK HERE

Conference venue

The conference will take place in the centre of Amsterdam in the West Indisch Huys. This beautifully restored 17th century building reverberates with the atmosphere and style of what was, viewed from a Dutch perspective of world history, the Golden Century. It was here that the 'Heeren Negentien', the masters of the Dutch West India Trading Company, planned events that were to have lasting effects in what were then far-flung corners of the earth.

The West Indisch Huys was built by the Amsterdam City Council in 1617 as meat-market, with rooms above for the city militia. Just four years later, the West India Company was formed and, after two years in other offices, moved to the building that bears its name to this day. In fact, from the courtyard, the building looks very much the same as it did in 1623: only the windows have changed, which happened in the 18th century.

The West Indisch Huys has gone through a variety of fortunes and misfortunes since 1647. For almost 200 years it was Amsterdam's official guest-house for visiting dignitaries, before becoming an orphanage and retirement home and later the base for a textile firm. A fire in 1975 ended that firm's occupancy, and from 1977 to 1981 the building was transformed to its original character. Today, the West Indisch Huys is a vibrant reminder of the "golden days" of Dutch influence more than three centuries ago.

Conference dinner

The conference dinner will take place on Monday the 5th of November 19.00 – 23.00 hours. The dinner will be in the centre of Amsterdam. The dinner is included in the conference fee. More information will be available later.

Hotel reservations

For hotel reservation please click the button below and select your conference. You can find all information and bookings of the different hotels in Amsterdam near the West Indisch Huys. On the website the organizing committee made a selection of 4 hotels near the conference venue, so all delegates can stay in the vicinity.

> BOOK HOTEL RESERVATION HERE

General information

Conference venue

The conference will take place in the West Indisch Huys, Herenmarkt 99, 1013 EC Amsterdam, the Netherlands.

Transport

Transport from Amsterdam Schiphol Airport to West Indisch Huys:

- by train directly from the airport to Amsterdam Central station; every 15 minutes (transfer time 10 minutes).From Central station a 7 minute walk to the West Indisch Huys.
- of course also taxis are available at the Central station.

Visa

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

Climate

The Netherlands have a maritime climate. In November the average daily temperature is 9°C and generally mild. Wearing 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 advized to check whether they are insured during their stay in the Netherlands. Although good care will be taken of the participants, the organizing committee cannot be held responsible for any loss, damage or personal harm.

Publication

The papers and posters will be published on cd-rom. A selection of full papers will be peer reviewed for publication in IWA Publishing's journals Water Science and Technology and Water Science and Technology: Water Supply.

Surprising Amsterdam

Amsterdam is the largest and capital city of the Netherlands, situated among the river Amstel. The heart of the old city has beaten since 1275, but three centuries went by before the citizens of Amsterdam could claim to be the most prosperous of Europe. During the 17th century, the Golden Age, the famous canal system was dug around the mediaeval city walls. Among the banks of the three main canals, merchants built richly decorated houses to flaunt their wealth.

More than 7,000 historical houses and buildings have been converted. By now, this creates a fascinating contrast between the old and the new. Within this modern cosmopolitan centre you will find the Royal Palace on the Dam, the West Tower and many old churches. Amsterdam is often called the gateway to Europe, not only because it is an important commercial and industrial centre at the border of the North Sea, but also because of its rich social and cultural life. Amsterdam is a melting pot of nationalities.

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.

Outline programme
New Developments in IT & Water
4 – 6 November 2012 the Netherlands

Sunday 04-11-2012

19.00 – 21.00	*Welcome reception in the centre of Amsterdam*	

Monday 05-11-2012

08.00 – 09.00	*Registration*	
09.00 – 10.00	*Keynote presentation and opening of the conference*	
10.00 – 11.00	session 1 Customer Interaction - Developments	Room A
	session 1 Monitoring and visualization - Information portals	Room B
11.00 – 11.30	*Coffee break*	
11.30 – 13.00	session 2 Modeling and advanced control – Control	Room A
	session 2 Data mining, handling and integration – Wastewater	Room B
12.50 – 14.00	*Lunch*	
14.00 – 14.30	*Poster presentations*	
14.30 – 15.50	session 3 Modeling and advanced control - Drinking water	Room A
	session 3 Monitoring and visualization - Methods	Room B
15.50 – 16.10	*Tea break and refreshment*	
16.10 – 16.40	*Poster presentations*	
16.40 – 18.00	session 4 Modeling and advanced control – Wastewater	Room A
	session 4 Data mining, handling and integration - Drinking water	Room B
18.00 – 19.00	*Transport to conference dinner*	
19.00 – 23.00	*Conference dinner*	

Tuesday 06-11-2012

08.00 – 09.00	*Registration*	
09.00 – 10.20	session 5 Modeling and advanced control – Modeling	Room A
	session 5 Data mining, handling and integration – Methods	Room B
10.20 – 10.40	*Coffee break*	
10.40 – 11.20	*Poster presentations*	
11.20 – 12.40	session 6 Web-based applications	Room A
	session 6 Monitoring and visualization - Applications	Room B
12.40 – 13.40	*Lunch*	
13.40 – 14.20	session 7 Data mining, handling and integration - Data	Room A
	session 7 Customer Interaction - Case studies	Room B
14.20 – 14.50	*Keynote presentation*	
14.50 – 15.00	*Refreshment*	
15.00 – 18.00	*Technical tour - State of the art wastewater treatment plant Amsterdam West*	
15.00 – 19.00	*Technical tour - Remote sensing and satellite techniques for water management*	

Monday 05-11-2012

08.00 – 09.00 *Registration*

09.00 – 10.00 *Keynote presentation and opening of the conference*

Putting humans in the loop: Human computation for water resources management.

Keynote speaker Prof. Piero Fraternali, Politecnico di Milano, Italy

Room A — session 1 Customer Interaction - Developments

10.00 – 10.20 *Serious gaming and viewer applications as water – ICT hub.*

A. Loois, the Netherlands

10.20 – 10.40 *Impact of improved information flow on the monitoring of drinking water quality in rural communities in South Africa.*

U. Rivett, M. Champanis, South Africa

10.40 – 11.00 *The human sensor, real time allocation of leaks and contaminations.*

G.I.M. Worm, T. Lapikas, L.C. Rietveld, the Netherlands

Room B — session 1 Monitoring and visualisation - Information portals

10.00 – 10.20 *SUCCESS: Information management during regular and crisis situation.*

C. de Gooijer, K.S. Lam, J. Put, the Netherlands

10.20 – 10.40 *Towards a Mekong Delta Portal.*

A.J.M. Nelen, O. Rosingh, the Netherlands

10.40 – 11.00 *HydroCity - integrated water data services for city management.*

W. Dassen, A. Lobbrecht, I. Loovers, B. Havers, the Netherlands

11.00 – 11.30 *Coffee break*

Room A — session 2 Modeling and advanced control - Control

11.30 – 11.50 *Energy efficient ammonium feedback control.*

L. Åmand, B. Carlsson, Sweden

.11.50 – 12.10 *SmaRTControl prototype at the sewage system of Amsterdam-North.*

A.M. Motelica-Wagenaar, M. Oonincx, H. van der Poel,

K.F. de Korte, the Netherlands

12.10 – 12.30 *Generation NEXT.*

K.J. de Hart, K.J. van Heeringen, F. Gevers Deynoot, the Netherlands

12.30 – 12.50 *Advanced process control reduces effluent quality to the safe side of limit values.*

T.B. Önnerth, T. Munk-Nielsen, D. Halvorsen Jørgensen, J. Verkuijlen, Denmark

Room B — session 2 Data mining, handling and integration – Wastewater

11.30 – 11.50 *Knowledge extraction from the historical database of wastewater treatment plant operation using various data mining techniques.*

Y. Kim, H. S. Kim, M. S. Kim, W. Piao, D. Kang, C. Kim, Korea

11.50 – 12.10 *Influence of sampling strategies on the estimated nitrous oxide emission from wastewater treatment plants.*

M.R.J. Daelman, M.C.M. van Loosdrecht, E.I.P Volcke, Belgium

12.10 – 12.30 *Understanding the sewer network performance under wet weather conditions by using data mining techniques.*

A. Benzal, Ll. Coromina, M. Sànchez-Marrè, A. Montserrat, M. Poch, Spain

12.30 – 12.50 *Data mining for calibration of integrated models for urban water systems.*

J. Langeveld, I. Nopens, S. Weijers, the Netherlands

12.50 – 14.00 *Lunch*

14.00 – 14.30 *Poster presentations*

Improving water asset data integrity through integration of complex and different operational systems.
Z. Shariff, Malaysia

Sustainable decentralized water cycle: a smart water treatment application.
S. Sarp, J.H. Kim, South Korea

Opportunities in integrated data management: integration of asset, client and real time process data for improved utility performance.
T. Bouma, R. Knight, E.A. Trietsch, B. de Graaf, J.W. Verhoef, the Netherlands

Room A *session 3 Modeling and advanced control - Drinking water*

14.30 – 14.50 *On-line monitoring of ozonation through estimation of AOC concentration and CT value with UV/Vis-spectrometers.*
P.S. Ross, J. van den Broeke, A.W.C. van der Helm, L.C. Rietveld, the Netherlands

14.50 – 15.10 *Modeling of UV/H2O2 processes in pilot reactors with different UV lamps.*
R.C.H.M. Hofman-Caris, D.J.H. Harmsen, E.F. Beerendonk, K. Lekkerkerker-Teunissen, D.H. Metz, B.A. Wols

15.10 – 15.30 *Systemetic control of efficiency and water losses reduction for Barcelona supramunicipal distribution network for 4,5 million inhabitants.*
S. Espin, J.Roquet, Spain

15.30 – 15.50 *Information technology for intelligent decision support and holistic management of water networks.*
A. Hauser, A. Pirsing, S.K. Pattanayak, P. Jaschhof, R. Rosen, C. Schwingenschloegl, P. Mogre, C. Sladky, Singapore

Room B *session 3 Monitoring and visualization - Methods*

14.30 – 14.50 *Unraveling the spatial variability of rainfall in the RainApp.*
H. Schuurmans, J. van Vossen- van den Berg, the Netherlands

14.50 – 15.10 *Augmented reality: Interactive visualisation and communication water projects for European water managers.*
F.C. Boogaard, M. Claassen, E.G. Claessen, R. Newman, the Netherlands

15.10 – 15.30 *i^{TUW}mon – A monitoring network platform for automated data plausibility assessment and data integration.*
S. Winkler, R. Fuiko, A. Winkelbauer, Austria

15.30 – 15.50 *The future of sensor technology in water management.*
M. Buitenkamp, the Netherlands

15.50 – 16.10 *Tea break and refreshment*

16.10 – 16.40 **Poster presentations**

Water industry embraces wastewater treatment optimisation.

Erwin Poutsma, Germany

Plate aeration monitoring with soft sensors.

J.J.G. Wuister, R. Wuestman, L.C. Rietveld, F. Schoonenberg Kegel, S. Bakker, the Netherlands

Smart water grid: The future water management platform

S. Sarp, H.C. Choi, S.A. Snyder, J.H. Kim, South Korea

Room A session 4 Modeling and advanced control – Wastewater

16.40 – 17.00 *Automatic control of anaerobic treatment with B-SMART technology.*

J. van Geest, K. Cuadros Perez, the Netherlands

17.00 – 17.20 *Model based process control design of combined biological-chemical phosphorus removal at WWTP Amsterdam West.*

S.C.F. Meijer, P. Piekema, the Netherlands

17.20 – 17.40 *Evaluation of rule-based control strategies according to process state diagnosis in A^2/O process.*

H.S. Kim, Y.J. Kim, S.J. Choi, M.S. Kim, W.H. Piao, C.W. Kim, Korea

17.40 – 18.00 *Assessing new ways to manage WWTP using optimisation.*

R. Lestienne, S. Worbe, P. Mandel, P. Boisson, France

Room B session 4 Data mining, handling and integration - Drinking water

16.40 – 17.00 *Water quality monitoring using wireless sensor network technology.*

M.F. Hamoda, E. H. Hajia, N.H. Nasser, Kuwait

17.00 – 17.20 *QSAR enabled predictions in water treatment: from data to mechanisms and vice-versa.*

D. Vries, B.A. Wols, P. de Voogt, the Netherlands

17.20 – 17.40 *Data-driven water loss control in the real world: TaKaDu's experience with field deployments.*

G. Horowitz, A. Peleg, H. Scolnicov, Israel

17.40 – 18.00 *An integrated software solution for identifying, monitoring and visualising water leak incidents in Water Distribution Networks.*

A. Gagatsis, S. Kranioti, S. Christodoulou, A. Agathokleous, S. Xanthos, Cyprus

18.00 – 19.00 *Transport to conference dinner*

19.00 – 23.00 *Conference dinner*

Tuesday 06-11-2012

08.00 – 09.00 *Registration*

Room A — session 5 Modeling and advanced control – Modeling

09.00 – 09.20 *Predicting fine-screen behaviour under different water quality conditions.*
A. Aarts, M.C. ten Veldhuis, L. Rietveld, the Netherlands

09.20 – 09.40 *Comparing modeling techniques for analyzing urban pluvial flooding.*
E. van Dijk, J. van der Meulen, J. Kluck, J.H.M. Straatman, the Netherlands

09.40 – 10.00 *Modelling both the continual erosion and regeneration of discolouration material in drinking water distribution systems.*
W.R. Furnass, P.S. Husband, R.P. Collins, S.R. Mounce, J.B. Boxall, United Kingdom

10.00 – 10.20 *Implementation of CFD modeling in the performance assessment and optimization of secondary clarifiers: The PVSC case study.*
S. Xanthos, K. Ramalingam, B. McKenna, J. Fillos, USA

Room B — session 5 Data mining, handling and integration – Methods

09.00 – 09.20 *Method for outliers detection: a tool to assess the consistency between laboratory data and UV-visible absorbance spectra in wastewater samples.*
D. Zamora, A. Torres, Colombia

09.20 – 09.40 *Advanced virtual commissioning of process automation software in drinking water treatment plants.*
G.I.M. Worm, J.P. Kelderman, T. Lapikas, A.W.C. van der Helm,
K.M. van Schagen, L.C. Rietveld, the Netherlands

09.40 – 10.00 *Hydrologic Data Management: 6 essential elements that you might be forgetting.*
D. Ferguson, P. Hudson, A. Foreman, S. Hamilton, Canada

10.00 – 10.20 *Lean operations supported by technology .*
C. Scholpp, USA

10.20 – 10.40 *Coffee break*

10.40 – 11.20 *Poster presentations*

IT and Water - An African perspective: A case study of the Swaziland water services corporation (SWSC).
A. Matsenjwa, Swaziland

Single Water Permit has increased the legislative reach of the web application 'Omgevingsloket online' to reduce costs for citizens and entrepreneurs in The Netherlands.
L. Luijten, L. van der Weerd, the Netherlands

Development of diagnosis algorithm using statistic technique for water quality assessment in river state.
M. Kim, Y. Kim, H. Kim, S. Choi, W. Piao, C. Kim

Data validation and reconstruction of flowmeters to provide the annual efficiency of ATLL transport water network in Catalonia.
J.Quevedo, J.Pascual, V. Puig, J. Saludes, S. Espin, J. Roquet, Spain

Room A — session 6 Web-based applications

11.20 – 11.40 *Creation of a successful web based operational information system. For operators by operators.*
C. Laydon, J. Keary, S. Blanshard, Australia

11.40 – 12.00 *Cloud solution for monitoring and control of anaerobic fermentation tests in continuous operation mode.*
J. Liu, S. Strömberg, N. Uvelöv, M. Nistor, Sweden

12.00 – 12.20 *Information System for effective water quality management.*
J. van Vossen-van den Berg, B. van der Wal, J. Netten, the Netherlands

12.20 – 12.40 *Development of Kwater integrated design assistance system (KIDAS).*
C.M. Kim, Korea

Room B — session 6 Monitoring and visualization -Applications

11.20 – 11.40 *Monitoring of rapid sand filters using an acoustic imaging technique.*
N. Allouche, D.G. Simons, L.C. Rietveld, the Netherlands

11.40 – 12.00 *Monitoring water supply systems for anomaly detection and response.*
M. Bakker, T. Lapikas, B.H. Tangena, J.H.G. Vreeburg, the Netherlands

12.00 – 12.20 *Understanding water distribution network behavior: A case study for the island of Cyprus.*
A. Agathokleous, S. Xanthos, S. Christodoulou, A. Gagatsis, S. Kranioti, Cyprus

12.20 – 12.40 *A statistical approach for optimizing existing networks for monitoring of groundwaterlevels.*
G. Winters, G. Claessen, M. de Kuster, the Netherlands

12.40 – 13.40 *Lunch*

Room A — session 7 Data mining, handling and integration - Data

13.40 – 14.00 *Advanced monitoring of water systems using in situ measurement stations: Data validation and fault detection.*
J. Alferes, S. Tik, J. Copp, P.A. Vanrolleghem, Canada

14.00 – 14.20 *Best data handling practices in water related research.*
H. Sonnenberg, M. Rustler, M. Riechel, N. Caradot, A. Matzinger, P. Rouault, Germany

Room B — session 7 Customer interaction - Case studies

13.40 – 14.00 *Watertown – a computer game for city water planners The Egmond aan Zee case 'the bloody nose game'.*
F. Boogaard, C. Jefferies, N. Berwick, D. Cernagovs, the Netherlands

14.00 – 14.20 *Real-time prediction system of bathing water quality at Bray, Co. Wicklow, Ireland.*
Z. Bedri, J.J. O'Sullivan, A. Corkery, L. Deering, K. Demeter, W. Meijer, G. O'Hare, B. Masterson, Ireland

14.20 – 14.50 *Keynote presentation*

14.50 – 15.00 *Refreshment*

15.00 – 18.00 *Technical tour - State of the art wastewater treatment plant Amsterdam West*

15.00 – 19.00 *Technical tour - Remote sensing and satellite techniques for water management*

Organizing committee

Martien den Blanken	PWN
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Gerard Blom	Deltares
Monique Bekkenutte	KNW Royal Dutch Water Association

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