

10th Annual Meeting of **DWF** **16** January 28 2016

Venue

KU Science
Festauditoriet
Bülowsvej 17
1870 Frederiksberg

Jubilee



9.00 *Registration and coffee*

Plenary session:

- 09.30 **Welcome address and introduction.**
B. K. Jensen, *DWF*
- 09.40 **Water footprint in food production**
Ruth Mathews, *Water Footprint Network*
- 10.10 **GEUS: A new nitrogen retention map for Denmark**
Anker L. Højberg, *GEUS*
- 10.30 **The cloud burst plan for Copenhagen**
Jes Clauson-Kaas, *HOFOR*
- 10.50 **IWA World Congress 2020 in Copenhagen**
Anders Bækgaard, *IWA and VCS Denmark*
- 11.10 **Introduction to Young Water Professionals in Denmark**
Neil H. Maclean Goring, *Rambøll*

11.20 *Coffee break*

Session 1: Water and Food production

- 11.40 **New partnership working to reduce water consumption at leading Danish food companies**
Hanne S. Bengaard, *Danish Agriculture and Food Council*
- 11.55 **High resolution CWSI maps for the entire growing season of a cultivated barley field using UAV-collected surface temperatures**
Helene Hoffman, *KU IGN*
- 12.10 **Irrigation and sustainable groundwater abstraction**
Lars Trolldborg, *GEUS*
- 12.25 **Uncertainty assessment of groundwater nitrate reduction maps using multiple geological models – Results from the NiCA project**
Anne L. Hansen, *GEUS*

12.40 *Lunch break*

13.20 **Poster presentations (plenary)**

Session 2: Water and climate change

- 13.50 **Significance of hydrological model choice on climate change impact assessments for stream discharge and nitrogen load**
Ida B. Karlsson, *GEUS*
- 14.05 **Modelling of water quality and risk of infection during urban flooding. A novel flood risk management tool**
Anders Erichsen, *DHI*
- 14.20 **Environmental life cycle assessment of urban storm water management**
Sarah Brudler, *DTU Environment / VCS Denmark*

12.50
Side-event:
European and Danish Cooperation with China
Project- and export-oriented partnership

Introduction:
Henrik Dissing, *CEWP, Head of European Secretariat*

Groundwater:
Lars Skov Andersen, *ChinaRM*

Urban water:
Jesper Goodley Dannisøe, *DHI*

Wastewater:
Ilse Korsvang, *Danish Export Association*

Discussion and possibility to join the leads.

Session 5: YWP: Innovation and mindset changes

- 11.40 **Room for Rain**
Anna A. Lund, *KU IGN*
- 11.55 **Monitoring eight different SUDS solutions in Hornemanns Vænge**
Mia H. Lind, *Sweco Danmark*
- 12.10 **Benløse Bypark: A Proactive & Engaged Approach**
Neil H. Maclean Goring, *Rambøll*
- 12.25 **The role of the utility in climate adaptation planning**
Sara K. Bastholm, *HOFOR*

Session 6: Drinking water quality

- 13.50 **GISMOWA – GIS assisted monitoring of drinking water quality**
Sille L. Larsen, *DTU Environment*
- 14.05 **Early warning of unacceptable pathogen concentration in raw water intake in Götaelv, Gothenburg Sweden**
Gerald Heinicke, *DHI*
- 14.20 **Drinking water application of a real-time bacteria monitoring system**
Loren Ramsay, *VIA Engineering*

- 14.35 **Establishing best practise methods for climate adaptation project design and implementation in urban areas**
Michael F. Tengnagel, *Rambøll*
- 14.50 **Dual Porosity Filtration for treatment of stormwater runoff**
Karin Cederkvist, *KU PLEN*
- 15.05 *Coffee break and poster session*
- 14.35 **Lowering the detection limit of bacteria in drinking water, using automatic cross-flow filtration (Pansi1000)**
Søren Bastholm, *Amphi-Bac*
- 14.50 **The impact of backwashing on nitrification in biological rapid sand filters under different ammonium loading conditions**
Carson O. Lee, *DTU Environment*
- 15.05 *Coffee break and poster session*

Session 3: Waste-water

- 15.25 **MiDAS Field Guide – a comprehensive online source of information about the microbes of activated sludge**
Marta Nierychlo, *AAU Bio*
- 15.40 **Dealing with decentralized wastewater treatments using innovative wetland technology (iWetTec)**
Carlos A. Arias, *AU Biosciences*
- 15.55 **Resource efficient treatment and reuse of wastewater from a feather laundry**
Klaus Litty, *Danish Technological Institute*
- 16.10 **New and intelligent way of treating problematic wastewater**
Zhuoyan Cai, *Aquarden Technologies ApS*
- 16.25 **Understanding combined sewer overflow with Calibrated Models**
Nurudeen A. Salau, *Kalundborg Forsyning*

16.40 *Coffee break and poster session*

Session 4: Water management

- 17.00 **Use of Life-cycle assessment for including the environmental dimension in the decision making process in the water utility**
Berit Godskesen, *HOFOR*
- 17.15 **A multi-disciplinary on- and offshore case study used as background for coastal zone architecture modelling**
Jørn Bo Jensen, *GEUS*
- 17.30 **Addressing the Chinese water challenges with hydroeconomic modelling**
Claus Davidsen, *DTU Environment*
- 17.45 **Using robust decision making to support seasonal water management in the Chao Phraya River basin, Thailand**
Niels Riegels, *DTU*

Session 7: Water cycle hydrology and geochemistry

- 15.25 **Assessment of Distributed Temperature Sensing as a tool to identify the spatial variability in contaminant loading to surface waters**
Évi Sebök, *KU IGN*
- 15.40 **Detailed study of the calcium carbonate system in a calcareous fen in Vasby**
Catharina S.N. Madsen, *KU IGN*
- 15.55 **Controls on the spatial and temporal variation in $\delta^{18}\text{O}$ and $\delta^{12}\text{H}$ of water in Danish precipitation: major processes and small scale climatic influences.**
Sascha Müller, *KU IGN*
- 16.10 **Sequential Gaussian simulation of gauge-based rainfall to assess uncertainty in the spatial representation of interpolated rainfall**
Lennart B. Ehlers, *GEUS*
- 16.25 **Developing national scale real-time hydrological modelling system for both surface water and groundwater in Denmark**
Xin He, *GEUS*

16.40 *Coffee break and poster session*

Session 8: Geological modelling and geophysics

- 17.00 **30 years of geophysical data – one groundwater model structure**
Troels N. Vilhelmsen, *AU HydroGeophysics Group*
- 17.15 **Addressing structural uncertainty of groundwater model predictions with ensemble of automatically generated models from AEM geophysical data and borehole data**
Pernille A. Marker, *DTU Environment*
- 17.30 **Detailed geological modelling in urban areas focused on structures relevant to the near surface groundwater flow in the context of climatic changes**
Tom M. Pallesen, *I • GIS A/S*
- 17.45 **Smart Interpretation – A new tool for fast geological modelling of AEM data**
Torben Bach, *I • GIS A/S*

18.00 **Reward session**
18.30 **Dinner**

Registration: www.danva.dk/Arrangementer/Andre-arrangementer.aspx

Conference fee: DKK 400 (DKK 500 VAT incl.)

Students: DKK 200 (DKK 250)

Dinner: DKK 300 (DKK 300)

DWF wishes to thank Copenhagen University for hosting this conference.

Kalundborg Forsyning is thanked for providing refillable drinking water bottles for all participants.