

8th Annual Meeting of **DWRIP** **14** JANUARY 30 9.00 - 18.00

Venue
KU Science
Festauditoriet (1-01)
Bülowsvej 17
1870 Frederiksberg

PROGRAMME

8.30 *Registration and coffee*

9.00 **Introduction and welcome**
B. K. Jensen, *Chairman of DWF*

Session 1: European RDI Initiatives

9.10 **Horizon 2020**
H. Poulsen, *FIVU*

9.20 **CEWP**
B.K. Jensen, *GEUS*

9.30 **EIP Water**
K.S. Dalgaard, *The Nature Agency*

9.40 **WssTP and a need for European focus in Danish RDI**
J. Prismo, *Vores Rens*

9.50 *Coffee break*



**Poster will be exposed in
the Auditorium**

Session 2: Urban Water

10.00 **Key note: Rainfall variability and change and its impact on urban water management**
Prof. Dr. Ir. P. Willems, *KU Leuven*

10.40 **Modelling the impact of implementing Water Sensitive Urban design at a catchment scale**
L. Locatelli *et al.*, *DTU Environment*

11.00 **Climate adaptation, innovative SUDs solutions and protection of Harrestrup Å**
S.L. Larsen, *Grontmij*

11.20 **Geo-smart infiltration: Improving the work efficiency of SUDs**
B. Bockhorn *et al.*, *Geoscience and Natural Resources Management, University of Copenhagen*

11.40 **Monitoring the quality of stormwater runoff when adapting cities to future climates**
K. Cederkvist *et al.*, *Geoscience and Natural Resources Management, University of Copenhagen*

Session 3: Groundwater Mapping And Modelling

10.00 **A review of large-scale airborne EM methods for hydrogeophysical purposes**
A.V. Christiansen and E. Auken, *Geoscience, Aarhus University*

10.20 **Groundwater mapping in areas influenced by glaciotectonism - choice of methods and necessary mapping scale**
F. Jørgensen *et al.*, *GEUS*

10.40 **Direct groundwater resource quantification with the MRS method prior to drilling**
M. Ryom Nielsen *et al.*, *Rambøll*

11.00 **Incorporation of Magnetic Resonance Sounding data into groundwater models through coupled and joint inversion**
T.N. Vilhelmsen *et al.*, *Geoscience, Aarhus University*

11.20 **First attempt to use UAV to localize groundwater discharge zones to lakes and test it against "lake-bed-truth" data using DTS and groundwater discharge rates from vertical heat profiles**
S. Müller *et al.*, *Geoscience and Natural Resources Management, University of Copenhagen*

Session 2: Continued

12.00 Lunch break

12.45 **Ecosystem-based approaches to climate adaptation**
M. Zandersen and A. Jensen, *Environmental Science, Aarhus University*

13.05 **Dynamics of biocide emissions from buildings in a suburban stormwater catchment**
U.E. Bollmann *et al.*, *Environmental Science, Aarhus University*

13.25 **Utilisation of road runoff - characterisation, modelling and laboratory treatment test**
B.M. Pedersen *et al.*, *DHI*

13.45 **Urban landscape as catchment: Integrating human perspectives in water supply strategies through design and multi-scale approach**
R.W. Torgard *et al.*, *Geoscience and Natural Resources Management, University of Copenhagen*

14.05 Coffe break

Session 4: Water Supply And Treatment

14.20 **Multiparameter project: Future drinking water supply**
H. Juul, *VCS*

14.40 **Searching for new functional genes involved in degradation of micropollutants**
J.L. Nielsen and P. Halkjær,
Chemistry and Environmental Engineering, Aalborg Universitet

15.00 **Sand Biofilm Reactors: a solution to remove micro-pollutants in small WWTP's effluents?**
M.E. Casas and K. Bester, *Environmental Science, Aarhus University*

15.20 **Forward osmosis biomimetic membranes in industrial and environmental applications**
N. Bajraktari *et al.*, *DTU Physics*

15.40 **Hybrid composites of nano-sized zero-valent-iron and covalent organic polymers for groundwater contaminant degradation**
P.D. Mines *et al.*, *DTU Environment*

16.00 **Highly stable and reactive nano zero-valent-iron synthesis with Mg-aminoclay and aging characteristics for practical application**
Y. Hwang *et al.* *DTU Environment*

16.20 **Photolysis and secondary formation of disinfection by-products by UV treatment of swimming pool water**
A. Spiliotopoulou *et al.*, *DTU Environment*

16.40 **Closing remarks**

17.00 **Drinks and finger food**

Session 3: Continued

11.40 **Geophysics in groundwater assessment: uncovering structural controls influencing aquifer properties**
P. Thorn, *The Nature Agency*

12.00 Lunch break

12.45 **Mapping groundwater resources in India - a pilot project covering six areas and more than 3000 km² of land**
E. Auken *et al.*, *Geoscience, Aarhus University*

13.05 **New possibilities for geophysical mapping in urban areas**
P. Thomsen, *Rambøll*

13.25 **Challenges in conditioning a stochastic geological model of a heterogeneous glacial aquifer to a comprehensive soft dataset**
J. Koch *et al.* *GEUS*

13.45 **A concept for estimating depth to redox interface in nitrate modelling in a till area**
A.L. Hansen *et al.*, *GEUS*

14.05 Coffee break

14.20 **The integrated groundwater mapping concept of Denmark transferred to Thailand**
V. Søndergaard *et al.*, *GEUS*

Session 5: Water Resources And Contamination

14.40 **Managed Aquifer Recharge (MAR) for coastal aquifer management in a changing climate**
K. Hinsby *et al.*, *GEUS*

15.00 **Microorganisms in pig slurry leach through agricultural soil to field drains**
A. Forslund *et al.*, *Veterinary Disease Biology, University of Copenhagen*

15.20 **Soil fate and leaching of the natural carcinogen ptaquiloside**
H.C.B. Hansen *et al.*, *Plant and Environmental Science, University of Copenhagen*

15.40 **Potential release of cadmium, copper and lead from urban soils of Copenhagen**
H. Marcussen *et al.*, *Plant and Environmental Science, University of Copenhagen*

16.00 **Are PAH metabolites new emerging contaminants? - Production, identification, and mobility in soil of PAH metabolites**
E.S. Boll *et al.*, *Plant and Environmental Science, University of Copenhagen*

16.20 **Soils2Sea
Reducing nutrient loadings from agricultural soils to the Baltic Sea via groundwater and streams**
K. Hinsby *et al.*, *GEUS*

16.40 **Closing remarks**

17.00 **Drinks and finger food**

Registration: Send an E-mail to Hanne Bertelsen: hab@dhigroup.com

Conference fee: 400,- dkk; Students: 200,- dkk

www.forskningsplatformen-vand.dk