9th Annual Meeting of
DWF
15
January 29
2015

Venue
KU Science
Auditorium A2-70-03
Thorvaldsensvej 40
1870 Frederiksberg

Danish Groundwater-based Sustainable Drinking Water Supply

9.30 Registration and coffee

Plenary:

10.00 Welcome address and introduction.
B. K. Jensen, DWF.

10.10 Alternatives to groundwater based water supply: what are the challenges and solutions?
M. Rygaard, DTU Environment.

10.30 Experiences from and challenges in a two-string water supply system
G. O. Gunnarsson, District Heating Facilities, Reykjavik.

10.50 Opportunities for Danish companies and institutions within the China Europe Water Partnership
Hao Zao, Ministry of Water Resources, PRC.

11.00 Coffee break

Session 1: A future more diverse and optimized water supply

11.30 Mitigation of water loss at the supply side and water saving at the demand side – two sides of the same coin
H. Juul, VCS & H.-M. Friis Møller, KALFOR.

10.50 Automated and energy-optimized well field operation
O.C. Thomsen, Orbicon, & H. Juul, VCS.

12.10 Optimizing wellfield operation in a variable power price regime
P. Bauer-Gottwein et al., DTU Environment.

12.30 Effective decision-making using groundwater models
O.Z. Jessen & M.B. Butts, DHI.

Session 3: Export of Danish solution on Groundwater-based water supply

13.20-14.20: Side-event (in Danish):
Danish Water Partnerships with China:

Groundwater management, use and protection in Shandong Province.
Lars Skov Andersen,
Working Group on Groundwater
Opportunities for integrated urban water solutions in China.
Miriam Feilberg,
Working Group on Water in Cities;
Visions for 2015-2017

11.30 Barriers for selling Danish water management system solutions abroad
H. Werchmeister, VCS.

11.50 Hasselager-Kolt in China. An example of system export of a water supply solution
L. S. Andersen, COWI.

12.10 Danish technology and experience for ground-water mapping in SE Asia
J. Baadsgaard Pedersen & J.D. Nielsen, Envidan.

12.30 SkyTEM, an international success. How and why?
E. Auken, AU Geosciences.

12.50 Lunch break
Session 2: Drinking water treatment

14.00 The use of groundwater treatment in Denmark. To which extent and for what purposes have exemptions been granted?
M. Skriver, the Nature Agency.

14.20 Designed water – A challenge to the concept of simple treatments
H. T. Madsen & E. Søgaard, AAU CHEM ENG.

14.40 Treatment of pesticide contaminated groundwater in sand filters
M. Hedegaard & H.-J. Albrechtsen, DTU Environment.

15.00 Introduction of specific pesticide-degrading bacteria into waterworks sand filters
J. Aamand, GEUS.

15.20 Removal of organic micropollutants from drinking water by electrochemistry:
Experience obtained with pesticide residue BAM
J. Muff, et al., AAU CHEM ENG.

15.40 Coffee break and poster session

Session 4: Groundwater protection and quality

14.20 Danish groundwater bodies and their chemical status
L.T. Tholffing, et al., GEUS.

14.40 Spatial variation of iodine in drinking water and groundwater in Denmark
D. D. Voutchkova, et al., Geoscience AU.

15.00 Discharge of biogas effluent and microbial pollution of drinking water wells in Vietnamese pig farming households
L.Q. Huong, et al., KU HEALTH.

15.20 Detection of small organics in water – the MUSE project
K. B. Frøhling, DTU Environment.

15.40 Coffee break and poster session

Session 5: Water supply and Climate Change

16.00 Looking back to see ahead - using historic time series of ground water level to assess the impact of future climate and land use change on groundwater formation under forests
J. R. Christiansen, KU-IGN.

16.20 Possibilities to combine future drinking water supply system and cloud burst mitigation infrastructure
J.M. Thomsen, HOFOR.

16.40 Need for a hydrogeological management framework as a basis for the urban water resources.
S. Melby, GEUS, & C. Ammatsæ, VCS.

17.00 Modelling of stormwater infiltration for stream restoration.
Beder (Aarhus) case study
L. Locatelli, et al., DTU Environment.

17.20 Closing remarks (session leaders and Bjørn Knare Jensen), snacks and drinks