

NORDIC WATER 2012 – PROGRAM 30.7.2012

MONDAY, AUGUST 13, 2012				TUESDAY AUGUST 14, 2012				WEDNESDAY AUGUST 15, 2012				
8:00 Registration 9:00 Welcome session 9:00-9:45, Lecture Hall IT116 9:15 Rector Lauri Lajunen, University of Oulu, Prof. Björn Klöve, Chair of NHC2012 Scientific Committee, University of Oulu DTech Riitta Kamula, Chair of NHF, Thule Institute + speaker from a national institute 9:30 9:45 Keynote Session 9:45-10:30, Lecture Hall IT116 10:00 Aaron Packman Overview of surface-groundwater interactions in the context of river degradation, water quality, and ecosystem processes 10:30-11:00 COFFEE, Lobby, Environmental Sciences Building				Registration Keynote Session 9:00-10:30, Lecture Hall IT116 9:00-9:30 Cintia Bertacchi Uvo The interacting system of climate and hydrology 9:30-10:00 Per Gustav Stålnacke How slow can it be? Spatial and temporal considerations on nutrient retention from source to river mouth 10:00-10:30 Nikolai Friberg Restoring river ecosystems in a changing climate COFFEE, Lobby, Environmental Sciences Building				Registration Room IT138 9:00-10:30 NHF general assembly (with coffee serving) Keynote Session, IT11610:30-11:00 John Doherty Environmental modeling - encapsulating what we know and quantifying what we don't				8:00 9:00 9:15 9:30 9:45 10:00 10:30-11:00
GROUNDWATER Lecture Hall IT116 SEDIMENT FLUXES Lecture Hall IT115 CLIMATE AND HYDROLOGY Lecture Room IT113 FLOODS AND DROUGHTS Lecture Room IT113				GROUNDWATER Lecture Hall IT116 SEDIMENT AND NUTRIENT FLUXES Lecture Room IT113 URBAN HYDROLOGY Lecture Room IT113				GROUNDWATER Lecture Hall IT116 WATER PROTECTION Lecture Hall IT115 COLD CLIMATE HYDROLOGY Lecture Room IT113				
11:00 Methods to identify groundwater interaction with river water in the catchment of the River Vantaa, southern Finland; Anna-Liisa Kuimäki, Kirsti Korhonen-Niemi, Anne Rautio, Kirsti Lahti, Veli-Pekka Salonen and Heili Vahtera				11:00 Impacts of climate change on groundwater resources in Hanko coastal aquifer, south Finland; Samrit Luoma, Birgitta Backman and Johannes Klein				11:00 Impact of the climate changes to shallow groundwater in Baltic artesian basin; Didzis Lauva, Peteris Bethers, Andrejs Timuhins and Juris Sennikovs				11:00
11:15 Investigation of stream temperature response to nonuniform groundwater discharge in a Danish lowland stream; Karthikeyan Matheswaran, Morten Blemmer, Paul Thorn, Dan Rosbjerg and Eva Boegh				11:15 Flash floods trend detection in Lithuanian rivers; Diana Meilutytė-Barauskienė and Diana Sarauskienė				11:15 Riparian vegetation functioning in zones with low anthropogenic nutrient input; Jaime G. Cuevas, Christian Little, César Leiva, Leandro Paulino and José Dörner				11:15
11:30 Occurrence and water properties of groundwater outflows from porous deposits on Polish Plain, western Poland; Anna Szczuczinska				11:30 Traditional and non-traditional isotope tracers in monitoring artificial groundwater recharge: Virttaankangas aquifer in SW Finland; Nina Kortelainen, Yann Lahaye and Hugh O'Brien				11:30 Agricultural impact on groundwater quality in south west Latvia; Valdis Vircavs, Artūrs Veinbergs, Didzis Lauva, Kaspars Abramenko, Zane Dimanta, Ilva Vitola and Agnese Gailuma				11:30
11:45 Effect of groundwater availability on riparian vegetation; Lenka Kuglerova and Roland Jansson				11:45 Flood risk modelling for basin of the Daugava River; Juris Sennikovs, Aigars Valainis and Anita Pliksere				11:45 Modelling of soil water conditions as an indicator for predicting landslides in Norway; Søren Boje, Stein Beldring and Chong-Yu Xu				11:45
12:00 Regional groundwater flow modelling of aquifer-peatland interactions. A case study from the Lanoraie Peatland complex Quebec, Canada; Bourgault Marc-André, Laroque Marie and Martin Roy				12:00 High-resolution multi-temporal contiguous mapping of river bed and flood-plain by combining laser scanning with UAV-photogrammetry based bathymetry; Claude Flener, Antero Kukko, Anttoni Jaakkola, Anssi Krooks, Matti Vaaja, Elina Kasvi, Harri Kaartinen, Hannu Hyppä, Juha Hyppä and Petteri Alho				12:00 Sustainable use and protection of groundwater resources in delta areas: the fresh maker and fresh keeper; Klaasjan J. Raat, Gertjan Zwoolsman, Ate T. Oosterhof and Jan Willem Kooiman				12:00
12:15 Solution of a pumping cost minimization problem for the Tahtila watershed (Izmir-Turkey) using linked simulation-optimization models; M. Tamer Ayvaz and Alper Elçi				12:15 Managed aquifer recharge in community water supply: International and Finnish experiences; Vuokko Kurki and Tapio S. Katko				12:15 Uncertainties in estimation of water balance of the Curonian Lagoon; Jurate Kiauciuniene and Darius Jakimavičius				12:15
LUNCH, Restaurant Discus, Linnanmaa Campus				Transfer to Restaurant Lasaretti				LUNCH, Restaurant Discus, Linnanmaa Campus				12:30
GROUNDWATER Lecture Hall IT116 PRECIPITATION & WATER BALANCE Lecture Hall IT115 PEATLANDS & FOREST Lecture Room IT113 RIVER PROCESSES AND CLIMATE CHANGE Lecture Room IT113				LUNCH, Restaurant Lasaretti, Hupisaaret, Oulu				PRECIPITATION & WATER BALANCE Lecture Hall IT116 WATER QUALITY MONITORING Lecture Hall IT115 FLOODS & DROUGHTS Lecture Room IT113				
13:30 Mathematical estimation of shallow groundwater fluctuations under different aquifer characteristics; Artūrs Veinbergs, Didzis Lauva, Valdis Vircavs, Kaspars Abramenko, Zane Dimanta, Ilva Vitola and Agnese Gailuma				13:30 Fluvial processes and their future magnitudes: combined field observation and simulation approaches; Elissa Lotsari				13:30 Comparison of the trends and multi-time scale precipitation variability in Indian region derived from TRMM, WFD and rain gauge dataset; Lu Li, Chong-Yu Xu and Zengxin Zhang				13:30
13:45 Isotopic tracers and microbial life at an artificial recharge plant in Southern Finland; Paula Niinikoski, Johanna Ojala, Nina Kortelainen and Juha Karhu				13:45 Comparison of river plume models – Case study of Rhone river; Akiko Mano and Ninni Luukko				13:45 Climate change scenarios of precipitation extremes in RCM simulations over Europe evaluated by the region-of-influence method; Jan Kyseľ, Ladislav Gaal and Romana Beranova				13:45
14:00 The effect of soil type and geochemical properties on pathogen transport in an esker aquifer – A column study; Backnäs, S., Kauppinen, A., Hyvärinen, N., Pitkänen, T., Hokajärvi, A.-M. and Miettinen, I.T.				14:00 Stream flow forecast and operation of Dauting reservoir for adaptation on climate change – a case study in Vietnam; T.H. Hoang and K. Miegel Muotka				14:00 Evaluation of short-term precipitation in high-resolution RCM simulations over Sweden; Jonas Olsson, Anna-Maria Gustafsson and Magnus Persson				14:00
14:15 Orivesi permeable reactive barrier – Remediation of contaminated groundwater in Nordic conditions; Sirku Tuominen and Taina Nystén				14:15 Surface water - groundwater interaction: Hyporheic processes of a regulated river; Dmytro Sergejev, Anders Widerlund and Angela Lundberg				14:15 The impact of point pollution sources on the transport of micropollutants along the river continuum; Magdalena Urbaniak, Edyta Kiedrzyńska and Maciej Zalewski				14:15
COFFEE, Lobby, Environmental Sciences Building				COFFEE, Lobby, Environmental Sciences Building				COFFEE, Lobby, Environmental Sciences Building				14:30
NUTRIENT FLUXES & WATER PROTECTION Lecture Hall IT116 COLD CLIMATE HYDROLOGY Lecture Room IT115 PEATLANDS AND FORESTS Lecture Room IT113 HYDROPOWER & ENVIRONMENT Lecture Room IT113				PRECIPITATION & WATER BALANCE Lecture Hall IT116 WATER QUALITY MONITORING Lecture Hall IT115 FLOODS & DROUGHTS Lecture Room IT113				PRECIPITATION & WATER BALANCE Lecture Hall IT116 WATER QUALITY MONITORING Lecture Hall IT115 FLOODS & DROUGHTS Lecture Room IT113				
15:00 Analysis of nutrients' point sources of pollution in the lowland river catchment and river self-purification potential in river continuum; Edyta Kiedrzyńska, Magdalena Urbaniak, Marcin Kiedrzyński and Maciej Zalewski				15:00 Impact of climate change on water availability and hydropower production in the Swiss Alps; Manfred Stähli, Mélanie Raymond-Pralong, Massimiliano Zappa, Frank Paul, Thomas Bosshard and Christian Dupraz				15:00 Extreme rainfall events: Evaluation with different instruments and measurement reliability; Helmi Saidi, Marzia Ciampittiello, Claudia Dresti and Laura Turconi				15:00
15:15 Removing phosphorus from ditch water with Ca-Fe oxide granules; Egle Saaremäe, Martin Liira, Morten Poolakese and Toomas Tamm				15:15 Hydrologic regime restoration in the Dovinė river basin, Lithuania: modelling scenario approach; Arvydas Povilaitis				15:15 Prediction of Concentration Time in Kasilian Watersheds by Using Geomorphologic Method; Reza Mohammadpour, Tooraj Sabzevar and Ali Torabi Haghighi				15:15
15:30 Flow design of phosphorus filters; Inga Herrmann, Amir Jourak, Staffan Lundström, Annelie Hedström and Maria Viklander				15:30 Calculation methods of environmental flow for Estonian rivers, Alvena Reihan and Elna Neeme Kubin, Tanja Murto and Jiri Kremša				15:30 Rainfall intensity analysis in Central Finland; Ali Torabi Haghighi, Meseret Memberu, Hannu Marttila and Björn Klöve				15:30
15:45 Development of catchment scale inorganic N loading model WSFS-VEMALA-N; Inese Huttunen, Markus Huttunen, Bertel Vehviläinen and Ahti Lepistö				15:45 Impact of small hydropower plant on biotic environment; Saulius Vaikasas, Virginija Pluriaitė and Nijole Bastiene				15:45 Speciation of Small Aluminium Silicate Clusters in Aqueous Environment; Giorgio Lanzani, Tiina Leiviskä, Ari P. Seitsonen, Carole A. Morrison, Jaakko Rämö, Kari Laasonen and Simo O. Pehkonen				15:45
16:00 Ecological recycling agriculture can reduce nitrogen losses – model results from two Finnish catchments; Kirsti Granlund, Katri Rankinen, Randall Etheridge and Pentti Seuri				16:00 Atlantic salmon passage in the regulated River Oulujoki, northern Baltic Sea; Panu Orell, Aki Mäki-Petäys, Jaakko Erkinaro and Petri Karpinen				CLOSING SESSION, Room IT116				16:00
16:15 Valuation of nitrogen retention as an ecosystem service at catchment scale; Katri Rankinen, Kirsti Granlund, Randall Etheridge and Pentti Seuri				16:15 Effects of hydropeaking on young Atlantic salmon and competition between young Atlantic salmon and brown trout under peaking flows; Teppo Vehanen, Ari Huusko, Ole Berg, Michael Puffer and Aki Mäki-Petäys				CLOSING SESSION, Room IT116				16:15
POSTER SESSION, Lobby, Environmental Sciences Building				POSTER SESSION, Lobby, Environmental Sciences Building				POSTER SESSION, Lobby, Environmental Sciences Building				16:30-18:00
19:00 WELCOME RECEPTION, Oulu City Hall				19:00 CONFERENCE DINNER, Raatti Youth Center				19:00				

The walking tour will take conference participants into the City Park, located next to the Oulu city centre. The Park features hydrological interests such as old water powerhouses, small brooks and creeks with scenic white wooden bridges, and a fishway built not only for fish migration but also to increase detention time in the pool below. The Park is actually a part of the delta area of the River Oulujoki.