

NORDIC WATER 2012 – PROGRAM

	MONDAY, AUGUST 13, 2012	TUESDAY AUGUST 14, 2012	WEDNESDAY AUGUST 15, 2012
8:00	Registration	Registration	Registration
9:00	Welcome session 9:00-9:45, Lecture Hall IT116 <i>Chair: Prof. Kari Laine, Thule Institute, University of Oulu</i> Vice-Rector Olli Silven, University of Oulu Prof. Björn Klöve, Chair of NHC2012 Scientific Committee, University of Oulu DTech Riitta Kamula, Chair of NHF, Thule Institute Prof., Head of Unit Timo Huttula, Finnish Environment Institute	Keynote Session 9:00-10:30, Lecture Hall IT116 <i>Chair: Dr(Tech) Riitta Kamula, Thule Institute, University of Oulu</i> 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 stream ecosystems in a changing climate	9:00-10:30 Room IT138 NHF general assembly (with coffee serving)
9:45	Keynote Session 9:45-10:30, Lecture Hall IT116 <i>Chair: Prof. Kari Laine, Thule Institute, University of Oulu</i> Aaron Packman Overview of surface-groundwater interactions in the context of river degradation, water quality, and ecosystem processes		
10:30	10:30-11:00 COFFEE, Lobby, Environmental Sciences Building	10:30-11:00 COFFEE, Lobby, Environmental Sciences Building	Keynote Session, IT11610:30-11:00 <i>Chair: Prof. Björn Klöve, Water Resources and Environmental Engineering Laboratory, University of Oulu</i> John Doherty Environmental modeling - encapsulating what we know and quantifying what we don't
	GROUNDWATER <i>Chair: Dirk-Ingar Müller-Wohlfel</i> Lecture Hall IT116	SEDIMENT AND NUTRIENT FLUXES <i>Chair: Dan Rosbjerg</i> Lecture Hall IT113	CLIMATE AND HYDROLOGY <i>Chair: Dan Rosbjerg</i> Lecture Hall IT113
11:00	Methods to identify groundwater interaction with river water in the catchment of the River Vantaa, southern Finland; Anna-Liisa Kivimäki, Kirsti Korhka-Niemi, Anne Rautio, Kirsti Lahti, Veli-Pekka Salonen and Heli Vahtera	Modelling water flow and soil erosion in clayey, subsurface drained agricultural fields with FLUSH model; Lassi Warsta, Tuomo Karvonen, Harri Koivusalo, Maija Paasonen-Kivekäs, Antti Taskinen and Pertti Vakkilainen	Climate Change in a Part of Northern Europe in the Context of the Spatial Differences of the Contemporary Climate; Daiga Cepite-Frišfelde, Tija Šile, Uldis Bethers, Juris Šenņikovs and Andrejs Timuhins
11:15	Investigation of stream temperature response to nonuniform groundwater discharge in a Danish lowland stream; Karthikeyan Matheswaran, Morten Blenner, Paul Thorn, Dan Rosbjerg and Eva Boegh	Analysis of water balance and subsurface drainage methods in a clayey agricultural field; Mika Turunen, Lassi Warsta, Harri Koivusalo, Jyrki Nurminen, Maija Paasonen-Kivekäs, Helena Äijö, Merja Mylly, Laura Alakukku and Markku Puustinen	Evaluation of Long-term Discharge in Swedish Rivers - In search for Decadal Oscillations and the Relation to Known Climate Patterns; Angelica Lidén, Karin Persson, Kean Foster and Cintia B. Uvo
11:30	Occurrence and water properties of groundwater outflows from porous deposits on Polish Plain, western Poland; Anna Szczucinska	Estimation of vegetative flow resistance in environmental channels: Experimental investigations with natural vegetation; Kaisa Västilä and Juha Järvelä	Long term variability of Swedish river runoff as represented by EC-EARTH in past and future climates; K Foster, O Siergiejeva, D Correl and Cintia B. Uvo
11:45	Effect of groundwater availability on riparian vegetation; Lenka Kuglerova and Roland Jansson	Empirical models for sediment transport from hillslopes in hydrological watersheds; Hafzullah Aksoy and Ebru Eris	Changes in hydrological regime of the lakes in Latvia; Elga Apsite, Andrejs Zubanics, Didzis Effer and Inese Latkovska
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	Modelling long-term patterns in suspended sediment in a mixed land use Swedish catchment; Martyn Futter, Stefan Helligren and Faruk Djodjic	On climate prediction: performance evaluation of RCMs; Arun Rana, Shilpy Madan and Lars Bengtsson
12:15	Solution of a pumping cost minimization problem for the Tahtali watershed (Izmir-Turkey) using linked simulation-optimization models; M. Tamer Ayvaz and Alper Elçi	Geomorphological-ANN Based Modeling for Estimation of Suspended Sediment Load; Vahid Nourani, Aida Hosseini Baghanam and Elnaz Sharghi	Ground frost variation in Finland; Mirjam Orvomaa and Risto Mäkinen
12:30	12:30-13:30 LUNCH, Restaurant Discus, Linnanmaa Campus		
	GROUNDWATER <i>Chair: Juhani Gustafsson</i> Lecture Hall IT116	PRECIPITATION & WATER BALANCE <i>Chair: Chong-Yu Xu</i> Lecture Hall IT115	PEATLANDS & FORESTS <i>Chair: Seppo Hellsten</i> Lecture Hall IT113
13:30	Mathematical estimation of shallow groundwater fluctuations under different aquifer characteristics; Arturs Veinbergs, Didzis Lauva, Valdis Vircavs, Kaspars Abramenko, Zane Dimanta, Ilva Vitola and Agnese Gailuma	A regionalized spatial-temporal point process model of rainfall; Paul Cowpertwait	Can temporal detention of runoff water be used as water protection method in peatland forestry? Hannu Marttila, Kari-Matti Vuori, Hannu Hökkä, Juha Jämsen and Björn Klöve
13:45	Isotopic tracers and microbial life at an artificial recharge plant in Southern Finland; Paula Niinikoski, Johanna Ojala, Nina Kortelainen and Juha Karhu	Two-way coupled atmospheric-hydrological model and its application in Rio Grande basin, Brazil; Fábio F. Pereira and Cintia B. Uvo	The effect of water table rising on DOC, N, P, and Fe release from restored peatland forests; Mika Nieminen, Annu Kaila, Sakari Sarkkola, Zaki Asam, Liwen Xiao, Ari Laurén and Hannu Hökkä
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.	Improving the accuracy of a grid-based distributed hydrological model using sub-grid scale parameterization of elevation data; Hannu Lauri, Timo Räsänen and Matti Kummu	Impact of hydrological mire restoration on spring invertebrate communities; Jari Ilmonen, Risto Virtanen, Lauri Paasivirta and Timo Muotka
14:15	Orivesi permeable reactive barrier - Remediation of contaminated groundwater in Nordic conditions; Sirku Tuominen and Taina Nystén	Frequency analysis of the daily precipitation series on Hurbanovo station (Slovakia) during 1872-2011; Dana Halmova, Pavla Pekarova, Juraj Olbrimek and Pavol Miklancik	Sustainability of land-use on peatlands; Anne Tolvanen
14:30	14:30-15:00 COFFEE, Lobby, Environmental Sciences Building		
	NUTRIENT FLUXES & WATER PROTECTION <i>Chair: Eva Skarbovik</i> Lecture Hall IT116	COLD CLIMATE HYDROLOGY <i>Chair: Esko Kuusisto</i> Lecture Hall IT115	PEATLANDS AND FORESTS <i>Chair: Anne Tolvanen</i> Lecture Hall 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	Snow water monitoring with stationary radar; Pekka Hänninen, Juha Majaniemi and Raimo Sutinen	Trends in DOC export from Finnish rivers to the Baltic Sea between 1975 and 2010; Antti Räike, Pirko Kortelainen, Tuija Mattsson, and David N. Thomas
15:15	Removing phosphorus from ditch water with Ca-Fe oxide granules; Egle Saarenmäe, Martin Liira, Morten Poolakese and Toomas Tamm	Long-term changes in discharge and ice regime in Latvian river basins and regional peculiarities; Inese Latkovska, Elga Apsite, Didzis Eferets, Liga Kurpniece and Eiza Zumbure	Assessing the origin of the acidity in a humid boreal river draining peatlands and sulfide-bearing soil materials; Saukkoripi, J., Martinmäki, K., Marttila, H., Heikkinen, K., Tammela, S., Tertsunen, J., Tolkkinen, M., Ihme, R. and Klöve, B.
15:30	Flow design of phosphorus filters; Inga Herrmann, Amir Jourak, Staffan Lundström, Annelie Hedström and Maria Viklander	On the near-bottom lake water temperatures in Finland in 1981-2010; Johanna Korhonen	Intensive biomass harvesting - leaching of nutrients and hydrological processes; Eero Kubin, Tanja Murto and Jiri Kremsa
15:45	Development of catchment scale inorganic N loading model WSFS-VEMALA-N; Inese Huttunen, Markus Huttunen, Bertel Vehviläinen and Ahti Lepistö	Lake ice time series and climate variations; Matti Leppäranta	Modelling of the nitrogen leaching from drained peat soils on the watershed scale; Anatoli Vassiljev
16:00	Ecological recycling agriculture can reduce nitrogen losses - model results from two Finnish catchments; Kirsti Granlund, Katri Rankinen, Randall Etheridge and Pentti Seuri	Current and future ice conditions and implications for infrastructure in rivers and lakes; Solomon B. Gebre and Knut T. Alfreðsen	The effect of clear-cutting and energy wood harvesting on the nitrate leaching from two spruce stands in southern Finland; Antti-Jussi Lindroos, Pekka Tamminen and Hannu Iivesniemi
16:15	Valuation of nitrogen retention as an ecosystem service at catchment scale; Katri Rankinen, Kirsti Granlund, Randall Etheridge and Pentti Seuri	Assimilation of ground penetrating radar measurements of snow water equivalent and seasonal weather forecasts for improved snow melt runoff predictions; David Gustafsson, Fredrik Wetterhall, Nils Sundström, Jesper Ahlberg and Angela Lundberg	The use of stable isotopes (d13C and d15N) in discriminating different forms of peatland use and estimating ecological impacts in stream communities; Mika L. Nieminen, Emmanuela Daza Secco and Kristian Meissner
16:30	16:30-18:00 POSTER SESSION, Lobby, Environmental Sciences Building		
19:00	WELCOME RECEPTION, Oulu City Hall		CONFERENCE DINNER, Raatti Youth Center