

NORDIC WATER 2012

MONDAY, AUGUST 13, 2012

8:00	Registration				8:00
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 Silvén, 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				9:00
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				9:45
10:30	COFFEE, Lobby, Environmental Sciences Building				11:00
	GROUNDWATER <i>Chair: Dirk-Ingmar Müller-Wohlfel</i> Lecture Hall IT116	SEDIMENT FLUXES <i>Chair: Nils-Otto Kitterød</i> Lecture Hall IT115	CLIMATE AND HYDROLOGY <i>Chair: Dan Rosbjerg</i> Lecture Room IT113	FLOODS AND DROUGHTS <i>Chair: Jari Silander</i> Lecture Room IT112	
11:00	Methods to identify groundwater interaction with river water in the catchment of the River Vantaa, southern Finland; Anna-Liisa Kivimäki, Kirsti Korkka-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 Sil, Uldis Beters, Juris Senņikovs and Andrejs Timuhins	A comparison of different approaches for forecasting spring floods in Sweden and the feasibility of a multi-model forecast system; K Foster, J Olsson, C B Uvo, W Yang and J Södling	11:00
11:15	Investigation of stream temperature response to nonuniform groundwater discharge in a Danish lowland stream; Karthikeyan Matheswaran, Morten Blommer, 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 Myllys, 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	Flash floods trend detection in Lithuanian rivers; Diana Meilutytė-Barauskienė and Diana Šarauskienė	11:15
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 hillslopes in hydrological watersheds; 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	Land use as a factor affecting flood characteristics in small catchments; Vaclav David and Tereza Dvorakova	11:30
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 Eifer and Inese Latkovska	Flood risk modelling for basin of the Daugava River; Juris Senņikovs, Aigars Valainis and Anita Pliksere	11:45
12:00	Regional groundwater flow modelling of aquifer-peatland interactions. A case study from the Lanaoria Peatland complex Quebec, Canada; Bourgault Marc-André, Larocque Marie and Martin Roy	Modelling long-term patterns in suspended sediment in a mixed land use Swedish catchment; Mårten Futter, Stefan Helligren and Faruk Djodjic	On climate prediction: performance evaluation of RCMs; Arun Rana, Shilpy Madan and Lars Bengtsson	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, Elna Kasvi, Harri Kaartinen, Hannu Hyypä, Juha Hyypä and Petteri Alho	12:00
12:15	Solution of a pumping cost minimization problem for the Tahtiala 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	Multivariate analysis of the relationship between volume and time duration of the flood waves; Veronika Bačová Mitková, Dana Halmová and Pavla Pěková	12:15
12:30	12:30-13:30 LUNCH, Restaurant Discus, Linnanmaa Campus				12:30
	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 Room IT113	RIVER PROCESSES AND CLIMATE CHANGE <i>Chair: Timo Huttula</i> Lecture Room IT112	
13:30	Mathematical estimation of shallow groundwater fluctuations under different aquifer characteristics; Artūrs Veinbergs, Didzis Lauva, Valdis Virčavs, 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	Fluvial processes and their future magnitudes: combined field observation and simulation approaches; Elissa Lotsari	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	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	Comparison of river plume models – Case study of Rhone river; Akiko Mano and Ninni Luokko	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.	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 Immonen, Risto Virtanen, Lauri Paasivirta and Timo Muotka	Improving the ecological state of a large harnessed river – a case study of the River Oulujoki, Finland; Kamula Riitta & Tammela Simo	14:00
14:15	Orivesi permeable reactive barrier – Remediation of contaminated groundwater in Nordic conditions; Sirkku 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 Miklanek	Sustainability of land-use on peatlands; Anne Tolvanen		14:15
14:30	14:30-15:00 COFFEE, Lobby, Environmental Sciences Building				14:30
	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 Room IT113	HYDROPOWER & ENVIRONMENT <i>Chair: Timo Huttula</i> Lecture Room IT112	
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 Zaleski	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, Pirrko Kortelainen, Tuja Mattsson, and David N. Thomas	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
15:15	Removing phosphorus from ditch water with Ca-Fe oxide granules; Egle Saaremäe, Martin Liira, Morten Poolakese and Toomas Tamme	Long-term changes in discharge and ice regime in Latvian river basins and regional peculiarities; Inese Latkovska, Elga Apsite, Didzis Eiferts, Liga Kurpniece and Elza Zumbure	Assessing the origin of the acidity in a humid boreal river draining peatlands and sulfide-bearing soil materials; Saakkoriipi, J., Martinmäki, K., Marttila, H., Heikkinen, K., Tammela, S., Tertsunen, J., Tolkkinen, M., Ihme, R. and Klöve, B.	Hydrologic regime restoration in the Dvinė river basin, Lithuania: modelling scenario approach; Arvydas Povilaitis	15:15
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	Calculation methods of environmental flow for Estonian rivers; Alina Reihan Elina Neeme and Rain Elken	15:30
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	Impact of small hydropower plant on biotic environment; Saulius Vaikasas, Virginija Pliauraite and Nijole Bastiene	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	Current and future ice conditions and implications for infrastructure in rivers and lakes; Solomon B. Gebre and Knut T. Alfredsen	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	Atlantic salmon passage in the regulated river Oulujoki, northern Baltic Sea; Panu Orell, Aki Mäki-Petäys, Jaakko Erkinaro and Petri Karpainen	16:00
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 (δ13C and δ15N) in discriminating different forms of peatland use and estimating ecological impacts in stream communities; Mika L. Nieminen, Emmanuela Daza Secco and Kristian Meisner	Effects of hydropeaking on young Atlantic salmon and competition between young Atlantic salmon and brown trout under peaking flows; Teppo Vehanen, Ari Husko, Ole Berg, Michael Puffer and Aki Mäki-Petäys	16:15
16:30	16:30-18:00 POSTER SESSION, Lobby, Environmental Sciences Building				16:30
19:00	WELCOME RECEPTION, Oulu City Hall				19:00

NORDIC WATER 2012

TUESDAY AUGUST 14, 2012

8:00	Registration			8:00
9:00	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			
10:30	10:30-11:00 COFFEE, Lobby, Environmental Sciences Building			10:30
	GROUNDWATER <i>Chair: Björn Kløve</i> Lecture Hall IT116	SEDIMENT AND NUTRIENT FLUXES <i>Chair: Anna-Kaisa Rankanen</i> Lecture Hall IT115	URBAN HYDROLOGY <i>Chair: David Gustafsson</i> Lecture Room IT113	
11:00	Impacts of climate change on groundwater resources in Hango coastal aquifer, south Finland; Samrit Luoma, Birgitta Backman and Johannes Klein	Demonstration of web based map service to integrate data and models for participatory river basin management; Olli Malve, Anita Etholen, Sanna Helttunen, Tuomo Kauranne, Matti Lindholm, Heikki Mäkinen, Timo Pyhälähti, Pasi Roti, Matti Silvennoinen, Vincent Westberg and Sari Väisänen	New heavy rain distributions and climate change modelling in urban areas; J. Silander, J. Aaltonen and J. Koistinen	11:00
11:15	Effect of climate change on recharge and water budget in Rokua esker aquifer, Finland; Pertti Ala-aho and Björn Kløve	Sediment deposition in the floodplain areas of the Nemunas watershed and its influence on the sedimentation in the Curonian Lagoon; Saulius Vaikasas and Alfonsas Rimkus	Impact of historical and current land use on vegetation of urban river valley in a perspective of its rehabilitation plan; Marcin Kiedrzyński, Edyta Kiedrzyńska, Piotr Witosławski and Józef K. Kurowski	11:15
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	Impact of variable climate conditions on nutrient flux and erosion - five years' on-line measurements in a small agricultural river; Valkama Pasi, Lahti Kirsti and Särkelä Asko	A strategy for addressing the impacts of climate change and urbanization on storm water quality in northern Sweden; Matthias Borris, Maria Viklander, Camilla Westerlund, and Anna-Maria Gustafsson	11:30
11:45	Climate change impacts and the adaptation measures in the Finnish water industry; Jari Rintala, Sanna Vienonen and Mirjam Orvomaa	Modeling toxic metal remediation capacity in bioretention cells; Nils-Otto Kitterød, Kim Aleksander Haukeland Paus and Bertil Nistad	Stormwater Modelling of Pollutants Wash-off from Urban Area Subcatchments; Tiit Koppel, Madis Maddison, Anatoli Vassiljev, Janek Laanearu and Raido Puust	11:45
12:00	An interactive decision analysis framework for the support of groundwater management – a case study of a Finnish esker; Timo P. Karjalainen, Pekka Rossi, Pertti Ala-aho, Riku Eskelinen, Kalle Reimikainen and Björn Kløve	Implementation of the Water Framework Directive 2000/60/EC (WFD) in Lithuania: how does it work? Loreta Steponaite	Source based estimation of pollutant flushes in mixed urban catchments; Helen Galfi, Camilla Westerlund, Gilbert Svensson and Maria Viklander	12:00
12:15	Managed aquifer recharge in community water supply: International and Finnish experiences; Vuokko Kurki and Tapio S. Katko	Baseflow contribution and diurnal variation in discharge; an example for a small agricultural catchment in Norway; Johannes Deelstra		12:15
12:30	Transfer to Restaurant Lasaretti			12:30
13:00	13:00 LUNCH, Restaurant Lasaretti, Hupisaaret, Oulu			13:00
14:00	14:00-16:30 GUIDED WALKING TOUR IN THE CITY PARK 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 decrease detention time in the pool below. The Park is actually a part of the delta area of the River Oulujoki.			14:00
19:00	CONFERENCE DINNER, Raatti Youth Center			19:00

NORDIC WATER 2012

WEDNESDAY AUGUST 15, 2012

8:30	Registration			8:30
9:00	9:00-10:30 Room IT138 NHF general assembly (with coffee serving)			9:00
10:30	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			10:30
	GROUNDWATER <i>Chair: Kirsti Korkka-Niemi</i> Lecture Hall IT116	WATER PROTECTION <i>Chair: Jari Koskiahho</i> Lecture Hall IT115	COLD CLIMATE HYDROLOGY <i>Chair: Manfred Stähli</i> Lecture Room IT113	
11:00	Impact of the climate changes to shallow groundwater in Baltic artesian basin; Didzis Lauva, Peteris Bethers, Andrejs Timuhins and Juris Sennikovs	Where in a river catchment are restoration efforts most effective? Anna L. Dietrich, Christer Nilsson and Roland Jansson	Impacts of climate variability and change on snow accumulation and melt in Kajaani, Finland; Masoud Irannezhad, Anna-Kaisa Ronkanen and Björn Klöve	11:00
11:15	Agricultural impact on groundwater quality in south west Latvia; Valdis Virčavs, Artūrs Veinbergs, Didzis Lauva, Kaspars Abramenko, Zane Dimanta, Iva Vitola and Agnese Galuma	Riparian vegetation functioning in zones with low anthropogenic nutrient input; Jaime G. Cuevas, Christian Little, César Leiva, Leandro Paulino and José Dörner	Deriving snow cover related model parameters from land surface information; Ulrich Haberl and Hans-Peter Nachtnebel	11:15
11:30	Modelling of soil water conditions as an indicator for predicting landslides in Norway; Søren Boje, Stein Beldring and Chong-Yu Xu	Wetland restoration in small river catchment: Activities, results and experience; Zenonas Gulbinas	Snowmelt Modelling in Urban Areas - Sensitivity Analysis of the Energy and Mass Balance Method; Shahab Moghadas, Camilla Westerlund, Anna-Maria Gustafsson and Maria Viklander	11:30
11:45	Sustainable use and protection of groundwater resources in delta areas: the fresh maker and fresh keeper; Klaasjan J. Raat, Gertjan Zwolsman, Ate T. Oosterhof and Jan Willem Kooiman	Active wetlands: Assessments of nutrient loading and cost-effectiveness of constructed wetlands and chemical amendments; Jari Koskiahho, Markku Puustinen and Kauko Koikkalainen	Results from Filefjell and Anestølven snow research stations; Elise Trondsen and Heidi Bache Stranden	11:45
12:00	Uncertainties in estimation of water balance of the Curonian Lagoon; Jurate Kiauciuniene and Darius Jakimavičius	Explaining the recent changes in agricultural nutrient loading in Finland; Katri Rankinen, Petri Ekholm, Hannu Rita, Heidi Sjöblom, Ljudmila Vesikko	Challenges for hydrological research in cold, semi-arid environments: case study Northern Mongolia; Lucas Menzel, Benjamin Kopp and Stefanie Minderlein	12:00
12:15	Surface water - groundwater interaction: Hyporheic processes of a regulated river; Dmytro Siergieiev, Anders Widerlund and Angela Lundberg	Effect of water purification at artificial agricultural drainage in dairy farming watershed; Tadao Yamamoto, Takashi Inoue and Tetuaki Nagasawa	Effect of down-dwelling ice on lake littoral of Finnish lakes – environmental factors and ecological evidences; Seppo Hellsten, Teemu Ulvi, Mika Visuri and Antton Keto	12:15
12:30	12:30-13:30 LUNCH, Restaurant Discus, Linnanmaa Campus			12:30
	PRECIPITATION & WATER BALANCE <i>Chair: Harri Koivusalo</i> Lecture Hall IT116	WATER QUALITY MONITORING <i>Chair: Toomas Tamm</i> Lecture Hall IT115	FLOODS & DROUGHTS <i>Chair: Seppo Hellsten</i> Lecture Room IT113	
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	Experiencing community-based environmental monitoring using modern data collection systems; J. Silander, T. Toivanen and M. Lindholm	Preventive flood protection: Land use impact on the water harvest - using a modified physical based model at a catchment scale; M. Abuhashim, H. Lilienthal and E. Schnug	13:30
13:45	Climate change scenarios of precipitation extremes in RCM simulations over Europe evaluated by the region-of-influence method; Jan Kyselý, Ladislav Gaal and Romana Beranova	Twenty years of water quality monitoring in Norwegian rivers – trends, patterns and lessons learnt; Eva Skarbovik, Per Stålnacke, Øyvind Kaste and Kari Austnes	Multiple flood impact on engineering structures in river flow; B.Gjunsburgs and S.Vaikasas	13:45
14:00	Evaluation of short-term precipitation in high-resolution RCM simulations over Sweden; Jonas Olsson, Anna-Maria Gustafsson and Magnus Persson	PERSIST: The Pan European Runoff Simulator for Solute Transport; Martyn Futter, Dan Butterfield, Øyvind Kaste, Jostein Starrfelt, Martin Eriandsson and Andrew Wade	Drought and aridity challenge in arid and semi arid climates due to land and water use pressures; Pouyan Keshkaran, Ali Torabi Haghighi and Björn Klöve	14:00
14:15	Simulating the hydrological effects of changes in the precipitation regime in the Jordan River region; Tobias Törnros and Lucas Menzel	The impact of point pollution sources on the transport of micropollutants along the river continuum; Magdalena Urbaniak, Edyta Kiedrzyńska and Maciej Zalewski	Hydrological modelling of Lake Engure catchment; Liga Kurpniece, Inese Latkovska and Elga Apsite	14:15
14:30	14:30-15:00 COFFEE, Lobby, Environmental Sciences Building			14:30
	PRECIPITATION & WATER BALANCE <i>Chair: Harri Koivusalo</i> Lecture Hall IT116	WATER QUALITY MONITORING <i>Chair: Toomas Tamm</i> Lecture Hall IT115	FLOODS & DROUGHTS <i>Chair: Seppo Hellsten</i> Lecture Room IT113	
15:00	Effects of the Climate Change on Fluorescence Chlorophyll a in the coastal seas of Kumanonada and Freshwater Dam, Juichi Omote and Yousuke Hatano	Pesticide losses in a small Finnish agricultural catchment; Katri Siimes and Harri Koivusalo	Balancing water for humans and nature through 3 weirs in Geum river in South Korea; Jaekyoung Noh, Jaenam Lee and Young Dae Cho	15:00
15:15	Extreme rainfall events: Evaluation with different instruments and measurement reliability; Helmi Saidi, Marzia Ciampittiello, Claudia Dresti and Laura Turconi	Arsenic cycling in catchments with sulphidic metasediments, N. Sweden; Gunnar Jacks, Magnus Mörth, Zdenka Slejkoec and Elin Nilsson	Integrating a Typhoon Event Database with an Optimal Flood Operation Model on the Real-Time Flood Control of the Tseng-Wen Reservoir; Yu-Wen Chen and Liang-Cheng Chang	15:15
15:30	Rainfall intensity analysis in Central Finland; Ali Torabi Haghighi, Meseret Menberu, Hannu Marttila and Björn Klöve	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	Flood risk reduction benefit of water retention basins; J. Silander	15:30
15:50	15:50-16:30 CLOSING SESSION, Room IT116			15:50