

Program Tuesday 3.3.2015

Workshop for students and their supervisors

9:15-13:30: Pekka Belt: Efficient writing of the summarising report of an article-based dissertation (including coffee and lunch brake).

Kumpula Campus, Chemicum LS 1 (A110)

This lecture provides doctoral candidates with an understanding of writing a compilation dissertation effectively once the related articles have been written. The lecture will help students in understanding the role of the separate articles and the dissertation as a whole. After the lecture students will know what is required from a compilation dissertation and how to reach the goal as efficiently as possible while maintaining high standards. Students will have a good perception of dissertation requirements and structure.

Contents:

- Requirements and structure of a compilation dissertation
- Perceiving the whole created by the articles
- Publication process
- Optimal order of writing
- Schedule for writing the compilation

13:30-14:00 Coffee (Physicum)

14:00-17:00 Workshop: New tools for supervision - quality vs. quantity in PhD degree

Kumpula Campus, Exactum, lecture room CK 112

Seija Kultti: New practices in supervision: Writers' brainstorm - From draft to paper writing workshops

Veli-Pekka Salonen: The quality of the PhD-degree, not only thesis, equilibrium between quality and quantity

18:00-20:00 Bowling in Ruusulan Keilahallit (Ruusulankatu 3)

http://www.bowlcircus.com/index.php?id=103_104

Program Wednesday 4.3.2015

8:30-9:00 Registration

Session 1

Chair: Tapani Rämö

- 9:00-9:05 Opening
- 9:05-9:20 *O. Tapani Rämö*: λ_{87} and the main granite series of the Suomenniemi batholith
- 9:20-9:35 *Aku Heinonen*: Rapakivi zircon: U-Pb age patterns, chemical composition, and morphology as petrogenetic indicators
- 9:35-9:50 *Heikki Seppä*: Trees tracking a warmer climate: The Holocen range shift of hazel (*Corylus avellana*) in northern Europe
- 9:50-10:05 *Janne Rinne*: Seasonal and interannual variation in methane emission from a boreal fen- perspective from continuous ecosystem scale measurements

10:05-10:30 Coffee

Session 2

Chair: Aku Heinonen

- 10:30-10:45 *Amelie Beucher*: Spatial modeling techniques for mapping and characterization of acid sulfate soils
- 10:45-11:00 *Stefan Mattbäck*: Coarse-grained acid sulfate soil materials and their acidifying effects in a sand pit lake and groundwater area in Western Finland
- 11:00-11:15 *Ilona Romu*: Extraction of Natural Stone in Finland - The Best Environmental Practices (BEP)
- 11:15-11:30 *Miradije Rama*: Mineralogy of Sokli's vermiculite, and it ability to ammonium absorption
- 11:30-11:45 *Sonja Sjöblom*: The Mineralogical Characteristics that Influence the Process of "The ÅA Route" - Carbonation Method
- 11:45-12:00 *Toni Eerola*: The Uranium and mining disputes within the context of Finnish Environmental protest waves

12:00-13:00 Lunch

Session 3

Chair: Anu Kaakinen

- 13:00-13:15 *Sami A. Jokinen*: Formation of modern laminated sediments in coastal basins of the Northern Baltic Sea
- 13:15-13:30 *Outi Hyttinen*: Holocene sedimentation in a northern estuary of the Baltic Sea: an example from Ångermanälven River
- 13:30-13:45 *Tua Nylén*: New insights into ecogeomorphic patterns and processes of the complex beach system
- 13:45-14:00 *Elina Ahokangas*: The test survey of electromagnetic method in the detection of morphologically undetectable kettle holes (MUKH structures) at Virttaankangas plain, SW Finland
- 14:00-14:15 *Maija Taka*: Spatio-temporal variation of urban stream water quality and volume
- 14:15-14:30 *Virpi Pajunen*: Climate overrides the effect of local variables on microbial distributions
- 14:30-15:00 Coffee

Session 4**Chair: Kirsti Korkka-Niemi**

- 15:00-15:15 *Niina Kuosmanen*: Drivers of Holocene stand-scale dynamics in the unmanaged taiga forest of NW Russia
- 15:15-15:30 *Juha Aalto*: The impacts of climate change on frost-related Earth surface processes
- 15:30-15:45 *Peter Howett*: Groundwater/surface water interactions as a management issue for groundwater extraction: a detailed hydrogeological model approach, Hyvinkäänykylä, Finland
- 15:45-16:00 *Teppo Arola*: Groundwater utilisation for energy production in Nordic environment
- 16:00-16:15 *Samrit Luoma*: Groundwater intrinsic vulnerability assessment of shallow aquifer in south Finland
- 16:15-16:25 *Renlund Foundation*: M.Sc. Thesis Awards
- 16:25-16:45 *Geological Society of Finland*: Award of the best Ph.D. thesis in Geology

16:45-20:00 Poster session**Buffet (Physicum)**

- J. Ahonen* : Thickness of superficial deposits in FinlandMarjaana Ahven Mineralogy, geochemistry and geochronology of the Paleoproterozoic Kiviniemi ferromonzodiorite intrusion in Rautalampi, East Finland - a new type of Sc-Zr-Y occurrence
- Stefan Andersson*: Ore mineralogical and textural studies and their implications on the metallogenesis of the polymetallic deposit at Hornkullen, Bergslagen, Sweden
- Tobias Fusswinkel*: Introducing the new state-of-the-art Geofluids Laboratory at the University of Helsinki
- Paavo Härmä: Development of guidelines for the sustainable exploitation of aggregate resources in arsenic rich areas in Finland – ASROCKS project
- Aku Heinonen*: Geochronology and geochemistry of the 1066–1086 Ma Little Hatchet rapakivi granite – gabbro pluton, New Mexico, USA
- Niina Hellqvist*: Seismic response of the Kevitsa Ni-Cu-PGE deposit, northern Finland: new insights from data mining and seismic forward modeling
- Jenny Jyrkänkallio-Mikkola*: Within- and across-stream variation in beta diversity of diatoms
- Lars Kaislaniemi*: Dynamics of lithospheric thinning and melting by edge-driven convection
- Anu Kaskela*: Knowledge on geo-biointeractions for the sustainable use of the marine areas
- Jussi Kinnunen*: High resolution aerial photography raster overlay in terrestrial laser scan data; example from Vekara island, Uusikaupunki, Finland
- Heli Kivisaari*: Deep origin of the Proterozoic Ahvenisto anorthosite
- Robert Klein*: Refining the Paleo- to Mesoproterozoic apparent polar wander path of Baltica: Implications to a Mesoproterozoic supercontinent
- Karoliina Koho*: Benthic foraminiferal trace metal uptake: a field calibration from the Arabia Sea Oxygen Minimum Zone
- Anna K. Kotilainen*: U–Pb Zircon and Monazite Chronology of Xenoliths and their granitoid hosts in the Vaasa Complex, Western Finland: crystallization ages, inheritance and issues with protolith maximum sedimentation age
- Kirsi Larjamo*: New light on the origin of rapakivi texture in the Wiborg batholith of southeastern Finland
- Elina Lehtonen*: Multiphase volcanism revealed in the Archean Tipasjärvi greenstone belt, Karelia Province, Eastern Finland
- Seppo Leinonen*: Fluid-rock interactions of soapstone alteration -Thermodynamic modeling
- Nike Luodes*: Durability of granites in urban coastal environments (South East Finland and St. Petersburg areas)
- Samrit Luoma*: A conceptual model of groundwater flow in the Siilinjärvi Mine, east Finland - with implications for water management in mining area
- Jouni Nevalainen*: Seismic time-lapse travel-time tomography used on microseismic data of Pyhäsalmi mine, Pyhäjärvi
- Paula Niinikoski*: Investigating the effect of water pre-treatment and sediment type on the decomposition of organic matter in artificial recharge
- Kaisa Nikkilä*: Magmatism in northern part of Central Finland granitoid complex
- Hugh O'Brien*: Finland Geosciences Laboratory (SGL) - Analytical Facilities
- Virpi Pajunen*: Are diatom assemblages useful predictors of climate?
- Yuan Shang*: Spatiotemporal changes in the provenance of the Neogene red clay deposits in northern China
- Hanna Silvennoinen*: Teleseismic tomography study of upper mantle structures below POLENET/LAPNET array in northern Fennoscandian Shield
- Wang Bin*: Introduction to the “Luyang Lake Drilling” Project - Over one-km-long record from Northern China
- Yurui Zhang*: The effect of ice sheets on climate in early Holocene

Program Thursday 5.3.2015

Session 5

Chair: David Whipp

- 9:15-9:30 *Eero Hanski*: Peculiarities of the Kevitsa Ni-Cu-PGE deposit, northern Finland
 9:30-9:45 *Emilia Koivisto*: Results from 2D and 3D reflection seismic surveys at Kevitsa mining site: a 3D model of the main lithological contacts and near-mine structures
 9:45-10:00 *Olav Eklund*: Is the postorogenic magmatism in the Fennoscandian shield related to the Transcandinavian igneous belt?
 10:00-10:30 *Coffee (Physicum)*

Session 6

Chair: Hugh O'Brien

- 10:30-10:45 *Dharmindar Maharaj*: Archaean Tectonic Settings and TTG Formation
 10:45-11:00 *Riikka Kietäväinen*: Crustal methane in Finland – an oddity or commonplace?
 11:00-11:15 *Elina Sahlstedt*: Carbon isotope records of microbial processes in crystalline bedrock fractures
 11:15-11:30 *Jon Engström*: Ductile structures and study of Anisotropy of Magnetic Susceptibility (AMS) in high-grade migmatites from Olkiluoto, SW Finland
 11:30-11:45 *Jenny Palosaari*: Flake graphite in the Fennoscandian shield - project FennoFlakes
 11:45-12:45 *Lunch*

Session 7

Chair: Miska Luoto

- 12:45-13:00 *Marttiina V. Rantala*: Organic carbon variability and diatom community dynamics in relation to Holocene paleoclimate in a subarctic lake in northern Lapland
 13:00-13:15 *Annina Niskanen*: Modelling contemporary high-latitude refugia: significance of climate and local topography
 13:15-13:30 *Heidi K. Mod*: Importance and magnitude of biotic interactions in spatial models of species richness
 13:30-13:45 *Henri Riihimäki*: Modelling the distribution of arctic-alpine above ground biomass
 13:45-14:00 *J. Sakari Salonen*: Environmental reconstructions from fossil proxy data with regression-tree ensembles
 14:00-14:15 *Aleksis Karme*: Chewing machine and tooth wear: How plant materials and grit affect teeth
 14:15-14:45 *Coffee (Physicum)*

Session 8

Chair: Annakaisa Korja

- 14:45-15:00 *David Whipp*: Quantifying spatial variations in mountain erosion: An example from the Himalaya of Bhutan
 15:00-15:15 *Janne Soininen*: How well field data comply with metacommunity theory?
 15:15-15:30 *Pietari Skyttä*: Linkage between the bedrock structures and glacialfluvial deposits; example from First Salpausselkä, Hyvinkäänkylä, Finland
 15:30-15:45 *Jarmo Kohonen*: Sedimentary rocks meeting rapakivi granites; one step towards an overall tectonic model?
 15:45-16:00 Best Student Poster Award