Program

**Wednesday**

**Workshop for PhD-students and their supervisors**

**Linnanmaa, PR104**

The central themes of the workshop are publishing, career planning, and students view of supervision practices. The workshop is aimed at PhD-students and their supervisors.

8.30-9.00 Registration (geological museum, K-door)

9:15–9:20 *Opening of the workshop*: Tapani Rämö, Seija Kultti

9:20–10:10 *Preparing efficiently scientific publications*, Veli-Matti Kerminen, Finnish Meteorological Institute

10:10–10:40 *Coffee and discussion*

10:40–11:10 *How to reach high and long lasting impact for publication*? Wolfgang Maier, University of Oulu

11:10–12:00 *Tools for a good research plan*, Maarit Jokela, University of Oulu

12:00–13:15 *Lunch*

13:15–13:45 *Post Post-Doc*, Anu Kaakinen, University of Helsinki

13:45–14:15 *What, from Where, and When  - How to achieve finance for you research career*, Mia Kotilainen, University of Helsinki

14:15–14:45 *Coffee*

14:45–17:30 *Supervision practices – pitfalls and successes; a collective PhD student view*: Ari Brozinski, Åbo Akademi, Mimmi Oksman, Helsinki University, and Hanna Junttila, Oulu University

17:30– Informal get-together – Icebreaking in former Geological museum

Program

**Thursday**

**Scientific sessions**

**Linnanmaa, GO101**

8.30-9.00 Registration

9.00-9.05 Opening words: **Vesa Peuraniemi**, Head of the Department of Geology, OY

**9:05-10:20 Session I – Palaeoecology**

**Chair: Vesa Peuraniemi, Univeristy of Oulu**

9.05-9:20 Mira Tammelin, Tommi Kauppila: *A diatom-total phosphorus transfer function and reconstructions from the Iisalmi region, Eastern Finland*

9:20-9:35 Juha Saarinen, Aleksis Karme, Thure Cerling, Kevin Uno, Samuel Kasiki, Shadrack Ngene, Thadeus Obari, Laura Säilä-Corfe, Mikael Fortelius: *New approach to mammalian palaeoecology - occlusal wear angles of molar teeth as a measure of diet abrasiveness in elephants and their fossil relatives (Mammalia, Proboscidea)*

9:35-9:50 Samu Valpola, Asta Harju: *Peat as a resource: the future and role of geological research in the responsible use and management of peat and peatlands*

9:50-10:05 Niina Kuosmanen, Heikki Seppä, Richard Bradshaw, Jennifer Clear, Oleg Kuznetsov, Ludmila Filimonova: *The Holocene boreal forest dynamics in the modern western range limit of the Siberian larch (Larix sibirica), new insights from small hollow records*

10:05-10:20 Mimmi Oksman, Arto Miettinen, Michal Kucera: *Variability of sea surface temperatures and sea ice in Baffin Bay during the last two millennia*

10:20-10:45 *Coffee*

**10:45-12:15 Session II – Seismics and Tectonics**

**Chair: Aulis Kärki, University of Oulu**

10:45-11:15 Keynote: Jochen Kolb: *Archaean granulite-gneiss terranes of western and eastern Greenland: tectonometamorphic evolution and nickel mineralization*

11:15-11:30 Mira Markovaara-Kovisto, Eevaliisa Laine: *Fracture density on stereogram*

11:30-11:45 Suvi Heinonen, Pekka J. Heikkinen, Ilmo T. Kukkonenand David B. Snyder: *Seismic reflection profiling in ore exploration: experiences from Pyhäsalmi VHMS deposit*

11:45-12:00 Kaisa Nikkilä, Annakaisa Korja, Hemin Koyi, Olav Eklund:*Analogue Experiments of Lateral Flow in the Middle Crust*

12.00-12:15 David M. Whipp: *3D Geodynamic Numerical Modeling of Modern and Ancient Orogens*

12.15-13:15 *Lunch*

**13:15-14:30 Session III – Mine Environment**

**Chair: Eero Hanski, University of Oulu**

13:15-13:45Keynote: Veli-Pekka Salonen: *Sedimentological investigation supporting management of the mine environment*

13:45-14:00 Sonja Sjöblom, Olav Eklund: *Geological and mineralogical aspects on mineral carbonation of rocks and mine tailings in Finland*

14:00-14:15 Peter Howett, Talvikki Savolainen, Kirsti Korkka-Niemi, Julien Moreau: *Rautuvaara: An Environmental Assessment for a Proposed Tailings Facility.*

14:15-14:30 Kirsti Korkka-Niemi, Veli-Pekka Salonen, Julien Moreau, Tiina Nurminen, Anne Rautio: *Hydrogeology and groundwater - river water connections at Hannukainen mining development site in Kolari, Northern Finland*

14:30-15:00  *Coffee*

**15:00-16:30 Session IV Geokemian rengas**

**Chair: Pertti Sarala**

15:00-15:30 Keynote: Marja-Liisa Räisänen: *Geochemistry applied for supervision of metal mines*

15:30-15:45 Soile Backnäs, Antti Pasanen, Lauri Solismaa, Teemu Karlsson, Päivi Kauppila, Nina Hendriksson, Jouni Lerssi, Tommi Kauppila: *Groundwater flowpaths and contaminant geochemistry at Luikonlahti Mine*

15:45-16:00 Kaisa Turunen , Soile Backnäs, Antti Pasanen:*The effect of the anthropogenic activities on geochemical behavior of arsenic at two geologically different mine sites in Finland*

16:00-16:15 Tarja Hatakka, Timo Tarvainen, Jaana Jarva: *Geochemical baselines in the man-made fillings in Helsinki Metropolitan Area*

16:15-16:30 Pertti Sarala: *Natural geochemical characteristics of soil in northern Finland*

Award of the best MSc-theses; Renlund Foundation

Award of the best PhD thesis: Geological Society of Finland

**16:30-18:00 Poster session**

19:00- *Dinner at Vanha Paloasema (by own cost)*

Program

**Friday**

**9:00-10:30 Session V - Earth Resources session**

**Chair: Jochen Kolb, Geological survey of Denmark**

9:00-9:30 Keynote: Pär Weihed: *Metallogeny of the Fennoscandian Shield*

9:30-9:45 Toni Eerola: *The stakeholder engagement as a component of corporate social responsibility in mineral exploration in Finland – A model*

9:45-10:00 Mari Tuusjärvi, Ilmo Mäenpää, Saku Vuori, Pasi Eilu, Susanna Kihlman, Sirkka Koskela: *Scenarios of the growing metal mining in Finland – estimating the changes in economic and environmental significance*

10:00-10.15 Sofia Ziessler:*Local stakeholder engagement of mineral exploration in Finland within the Corporate Social Responsibility (CSR) framework*

10:15-10:30 Raimo Lahtinen: *Mineral potential research in the Geological Survey of Finland*

10:30-11:00  *Coffee*

11:00-12:15 **Session VI – Groundwater**

**Chair: Kirsti Korkka-Niemi, University of Helsinki**

11:00-11:15 Riikka Kietäväinen, Lasse Ahonen, Ilmo T. Kukkonen, Samuel Niedermann, Thomas Wiersberg: *Groundwater residence times of millions of years revealed by noble gases in Outokumpu, Finland*

11:15-11:30 Teppo Arola, Lari Eskola, Jukka Hellen, Kirsti Korkka-Niemi: *Groundwater as an energy source in Finland*

11:30-11:45 Anne Rautio, Anna-Liisa Kivimäki,Kirsti Korkka-Niemi, Veli-Pekka Salonen,Kirsti Lahti and Heli Vahtera: *Groundwater interaction with the River Vantaa and its tributaries, Southern Finland*

11:45-12:00 Samrit Luoma, Nina Hendriksson, Birgitta Backman,Arto Pullinen: *Groundwater recharge in shallow coastal aquifer in Hanko, south Finland: integration of stable isotopes and field investigation data to support groundwater flow modeling*

12:00-12:15 Pekka Rossi, Pertti Ala-aho, Bjørn Kløve: *Rokua esker aquifer: combining hydrological and geological data to reduce uncertainty in groundwater management*

12:15-13:15 *Lunch*

**13:30-15:00 Session VII –**

**Chair: Tobias Weisenberger, University of Oulu**

13:15-13:45 Keynote: Iain Pitcairn: *Metamorphic mobility of gold in the Dalradian of Scotland: insights into the formation of orogenic gold deposits*

13:45-14:00 Kirsi Luolavirta, Wolfgang Maier, Eero Hanski: *The dunite-wehrlite body within the ore bearing Kevitsa intrusion, northern Finland*

14:00-14:15 Ilona Romu, Matti Kurhila,Arto Luttinen: *Crustal evolution at the rifted Gondwana margin of East Antarctica: age and composition of xenoliths in Jurassic intrusions from Vestfjella, Dronning Maud Land*

14:15-14:30 Johanna Salminen, H.C. Halls, S. Mertanen, L.J. Pesonen, J. Vuollo, U. Söderlund:*Plate tectonics using paleomagnetism - Case example from Paleoproterozoic mafic dykes from Taivalkoski region, Eastern Finland*

14:30-14:45 Fangfang Guo, Wolfgang Maier, Jouni Vuollo, Hannu Huhma,Yann Lahaye, Hugh O’Brien, Hanna Junttila: *Geochemistry of ~2.45 Ga mafic dykes in Northern Finland: constraints on the origin of PGE mineralization in coeval layered intrusions*

14:45-15:00 O. Tapani Rämö, James P. Calzia, Virginia T. McLemore, Pasi A. Heikkilä, Niclas Blomqvist, Paavo Nikkola, Annukka Rintamäki, Otso Sattilainen: *Petrogenesis of mid-Proterozoic ultrapotassic magmatic suites along the southwestern margin of Laurentia: The Mountain Pass carbonatite-shonkinite (SE California) and the Jack Creek lamprophyres (SW New Mexico)*

15:00-15:05 Closure of the colloquium

**Poster presentations**

Hanna Autere, Juha Pekka Lunkka: *Sedimentology of the Oulujoki River basin during the Late-Weichselian and Holocene*

Toni Eerola, Irmeli Mänttäri,: *Detrital zircon ages of the Neoproterozoic volcano-sedimentary sandstones at Lavras do Sul region, Southern Brazil*

Tiina Eskola, Juha Pekka Lunkka: *Updates to the paleoenvironments of central western Finland based on the pollen results*

Asta Harju, Samu Valpola: *The account of peat resources in Finland: a new approach to promote policymaking and research*

Anne Huhta: *Microstructure and its Contribution to Thermal Properties of Soapstone*

Ninna Immonen: *Glacial history of the Arctic - a study of grain surface microtextures*

Hanna Junttila, Seppo Gehör, Jaakko Rämö, Erkki Eijärvi: *Removal of Phosphorus from aqueous solutions by natural adsorbents siderite and goethite*

Ekaterina Kaparulina, Kari Strand, Juha Pekka Lunkka: *Late Pleistocene Eurasian Arctic ice sheets in transitions – consequences for climate, sea-level and ocean currents*

Robert Klein, L. Pesonen, Johanna Salminen, Satu Mertanen: *A paleomagnetic study on of Mesoproterozoic Satakunta sandstone, Western Finland.*

Jukka Konnunaho, Eero H. Hanski, A. Bekker, Tapio A.A. Halkoaho, R.S. Hiebert, B.A. Wing: *Multiple sulfur isotope evidence for assimilation of external sulfur in the Archean komatiite-hosted Ni-Cu sulfide deposit at Vaara, eastern Finland*

Anna K. Kotilainen, Irmeli Mänttäri, O. Tapani Rämö*: U-Pb zircon geochronology of granitoid-xenolith pairs in the Vaasa complex, western Finland: Preliminary results*

Kirsi Larjamo, Radoslaw Michallik, O. Tapani Rämö, Aku Heinonen*: Anatomy of a rapakivi ovoid from the Wiborg rapakivi granite batholith, southeastern Finland*

Elina Lehtonen, Asko Käpyaho: *A trial to unravel the chronostratigraphy of the Archean Tipasjärvi greenstone belt, Eastern Finland*

Elina Lehtonen, Pentti Hölttä, Hugh O'Brien,Yann Lahaye: *Age of metamorphism in the Archean Ilomantsi greenstone belt – new data on monazite*

Seppo Leinonen: *P-T-XCO2 pseudosection modeling of talc-magnesite soapstone*

Paula Niinikoski, Nina Hendriksson, Juha Karhu: *The residence time of river water in small and medium sized catchments: The stable isotope approach*

Anne Peltoniemi-Taivalkoski, Timo Tarvainen, Pertti Sarala: *Geochemical baselines in the Kittilä arsenic province, Northern Finland*

Vesa Peuraniemi, Tiina Eskola: *Glacial dispersal of base metals in the Honkanen hummocky moraine, northern Ostrobothnia*

Raija Pietilä, Taina Eloranta, Marja-Liisa Räisänen, Tuomo Törmänen, Ulpu Väisänen, Hannu Hirvasniemi, Pentti Kouri: *The environmental impact assessment of sulfur compounds*

Elina Sahlstedt, Juha Karhu, Petteri Pitkänen: *Hydrogeochemical evolution at the Olkiluoto site based on fracture mineral studies*

Olli-Pekka Siira: *Geochemical gradients in the chronosequence of lake basins (Hailuoto, Finland)*

Tiina-Liisa Toivanen, Riku Raitala, Jouni Rautiainen, Jussi Leveinen: *Modelling of the groundwater level variation and deformations in clay deposits charasteristic to Helsinki metropolitan area*

Juhani Virkanen, Pasi Heikkilä, Hanna Reijola, Tuija Vaahtojärvi: *Presentation of the Laboratories of the Department of Geosciences and Geography, University of Helsinki*

Ulpu Väisänen, Peter Johansson, Janne Kivilompolo, Juho Kupila, Jouni Pihlaja, Vladimir Konukhin, Anatoly Kozyrev, Lena Alakangas: *ENVIMINE – developing environmental and geodynamical safety related to mine closure in the Barents region*

Jeremy Woodard: