

Program of the 5th National Colloquium of Geosciences

For those who are giving oral presentation, we have reserved 30 min before the start of the each session to download their presentations to the auditorium computers. We kindly ask you to use this opportunity in order to keep the conference in schedule. If you were planning to use your own computer, please let us know in advance.

The downloading of the oral presentation takes place at

Session 1: 9.30-10.00 (Chemicum, lecture hall A110)

Session 2: 14.00-14.30 (Exactum, lecture hall D123)

Session 3: 8.10-8.40 (Chemicum, lecture hall A110)

Special session: 12.45-13.15 (Chemicum, lecture hall A110)

Poster presentations should be hung on Wednesday lunch break latest.

Wednesday March 6th

9:15 – 10:00 Registration and morning coffee at the corridor of the Geology department, Physicum 1st floor.

10:00 – 10:10 Opening words by Annakaisa Korja (at Chemicum building, lecture hall A110)

Session I. (at Chemicum building, lecture hall A110)

10:15 – 10:35 Dozen in a pocket: Summanen, a new meteorite impact structure in Finland

Pesonen, L. J., Hietala, S, Plado, J., Kreitsmann, T., Lerssi, J., and Nenonen, J*

10:35 – 10:55 Asteroid Prospection Explorer (APEX) CubeSat for Hera mission

Tomas Kohout, Jan-Erik Wahlund, and APEX team*

10:55 – 11:15 The Earth's magnetic environment dancing in the rhythm of solar storms

*Tanskanen, E.I.**

11:15 – 11:35 From Regional Seismics to High-Resolution Resource Delineation: Example from the Outokompu Ore District, Eastern Finland

Koivisto, E.

11:35 – 11:55 Direct Mesoproterozoic connection of Congo and Kalahari cratons in proto-Africa

Salminen, J.

11:55 – 13:00 Lunch

Keynote by Masaki Hayashi, NGWA Henry Darcy Distinguished Lecture

13:00 – 14:00 Alpine hydrogeology: The critical role of groundwater in sourcing the headwaters of the world

(at Chemicum building, lecture hall A110)

14:00 – 14:30 Coffee at the corridor of the Geology department, Physicum 1st floor.

Session 2. (at Exactum building, lecture hall D123)

14:30 – 14:50 Geochemical and isotopic constrains on the origin of brackish groundwater in crystalline bedrock at Syväjärvi site

*Turunen, K. *, Pasanen, A.*

14:50 – 15:10 Geochemical processes and modelling of an unconfined esker aquifer in Karhinkangas, west Finland

*Luoma, S. *, Okkonen, J. and Hendriksson, N.*

15:10 – 15:30 Submarine groundwater discharge at the Hanko Peninsula, south Finland

*Virtasalo J. *, Schröder, J., Luoma, S., Hendriksson, N. and Scholten, J.*

Poster Presentations with snack and refreshments

15:30 – 17:30 at the corridor of the Geology department, Physicum 1st floor.

Thursday March 7th

Session 3. (at Chemicum building lecture hall A110)

8:40 – 9:00 Meso-Neoproterozoic geodynamics: examples from the Fennoscandian and Indian Shields

*Slabunov, A.I.**

9:00 – 9:20 Time-gated Raman in analysis of REE-bearing rocks

Romppanen, S. Häkkänen, H. Kekkonen, J., Nissinen, J., Nissinen I., Kostamovaara J. and Kaski, S.*

9:20 – 9:40 Constraining assimilation in magmatic systems

Fred, R., Virtanen, V.J., Heinonen, A., Heinonen, J.S. and Iles, K.*

9:40 – 10:00 Formation of sulfide melt droplets in experimentally molten black schist and its relevance to Ni-Cu-PGE mineralizations

*Virtanen, V. J. *, Heinonen, J.S., Molnár, F., Schmidt, M. W. and Marxer, F.*

10:00 – 10:20 Mafic-felsic interaction, crystallization conditions, and parental magma composition of the Ahvenisto anorthosite

Fred, R.; Ruhanen, K., Heinonen, A. and Heinonen, J.S.*

10:20 – 10:40 Nd, Sr, Pb, and Os isotopes suggest a primitive mantle source for the Luenha picrites in the Karoo large igneous province

Turunen, S.T.; Luttinen A.V., Heinonen, J.S., Carlson, R.W. and Horan, M.F.*

10:40 – 11:15 Coffee at the corridor of the Geology department, Physicum 1st floor.

Session 4. (at Chemicum building, lecture hall A110)

11:15 – 11:35 Distribution and characteristics of suspended inorganic particles in Pohjanpitäjänlahti estuary

Hjort, J.; Virtasalo, J., Jilbert, T., Asmala, E., Scheinin, M., Newton, S. and Österholm, P.*

11:35 – 11:55 Repeated relative gravity measurements in an underground structure resolve the variation in local subsurface water storage

Mäkinen, J.; Liepinš, I., Šproģis, V., Sakne, J., Salminš, K., Kaminskis, J. and Falk, R.*

11:55 – 12:15 Paleohydrogeological implications from stable isotope compositions of minerals, Kyläniemi, Finland

Seitsamo-Ryyänen, M.; Karhu J. A.*

12:15 – 13:15 Lunch

Special Session: Geosciences in the Finnish Society (at Chemicum Building room A110)

13:15 – 13:35 Geothermal energy research in Finland

Arola, T.

13:35 – 13:55 Modelling widespread geological resources

Mäkelä, S.

13:55 – 14:15 Muon radiography and muon tomography – the two common versions of muography, and their applications in geosciences

Holma, M.; Kuusiniemi, P., Aittola, M., Enqvist, T., Jalas, P., Joutsenvaara, J., Loo, K. & Virkajärvi, A.*

14:15 – 14:45 Coffee at the corridor of the Geology department, Physicum 1st floor.

14:45 – 15:05 GTK:n uusimmat digitaaliset tuotteet ja palvelut

Virkki, H.

15:05 – 15:15 International Earth Science Olympiad (IESO), Suomen osallistuminen geotieteiden olympialaisiin

Kultti, S.

Award ceremony and closing of the Colloquium

15:15 – 15:30 Award ceremony and closing of the colloquium
(at Chemicum building, lecture hall A110)

Posters

Source and extent of the late Neogene aeolian Red Clay deposits of East Asia

Bohm, K., Kaakinen, A. and Stevens, T.*

Petrographic and geochemical characterization of fenites in the northern part of the Siilinjärvi carbonatite-glimmerite complex, Central Finland

Carlsson, M., Eklund, O., Fröjdö, S. and Savolainen, M.

The Vaasa Migmatitic Complex

Chopin, F., Korja, A., Hölttä, P., Korja, T., Nikkilä, K., Zaher, M. A., Kurhila, M., Eklund, O and, Rämö, T.O.*

Southern Europe climate oscillations at marine isotope stage 5a

Chung, Y-C., Hu, H-M., Mii, H-S., Michel, V., Valensi, P., Jiang, X. and Shen, C-C.*

Characterization of lithocap related epithermal to porphyry transitional deposit at Ronaldo prospect, Huancavelica department, Peru

Georgi, J., Cernuschi, F., Ponce, M., Lappalainen, M. and Peltonen, P.*

Geology of natural stone deposits in Finland

Härmä, P. and Selonen, O.*

Auroral substorms for last 20 years

Jaakonaho, I. and Tanskanen, E. I.*

Building Digital 3D Learning Environments To Support the Teaching in Geosciences

Junna, T., Silvennoinen, S., Karme, A., Åberg, A., Åberg, S., Koivisto, E., Korkka-Niemi, K. and Kultti, S.

Geology field in The Helsinki Term Bank for The Arts and Sciences (Tieteen termipankki)

Lehtonen, E., Enqvist, J. and Onikki-Rantajääskö, T.*

Seismic properties of rocks in Kylylahti Cu-Au-Zn mine

Luhta, T., Mertanen, S., Koivisto, E., Heinonen, S. and COGITO-MIN work group

Geological and hydrogeological characteristics of a complex ice-marginal formation in Hanko, south Finland

Luoma, S., Nylander, E., Paalijärvi, M., Majaniemi, J. and Valjus, T.*

Modified-DRASTIC method for groundwater vulnerability assessment of the Finnish shallow aquifers

Luoma, S., Kaipainen, T. and Ahonen, J.*

Revisiting mafic dykes of Bornholm – implications for Baltica in supercontinent Nuna at 1.3 Ga

Luoto, T., Salminen, J. and Obst, K.*

Petrography and mineral chemistry of the Kuohenmaa orbicular rock from Kangasala

Markkanen, M. and Heinonen, A.*

Sea level changes in the Kattegat region from 18 thousand to 4 thousand years ago

Montonen, P., Hyttinen, O. and Kultti, S.*

New Paleoproterozoic Mafic-Ultramafic Rocks of the Oum Abana Suite and Elmalhat Complex of the NW Reguibat Shield (Western Sahara)

Nayem, S.L., Melgarejo, J.C., Marriott, C., Combs, J., Lyche, C.H. and Arribas Moreno, A.

New Insights on the Case of Tahmelanlähde Spring, Pispala, Tampere: Building a Hydrogeological Model

Nurmilaukas, O., Korkka-Niemi, K. and Kultti, S.*

The Environmental History of Lakes Hältingträsk and Storträsk

Orozco, L., Rantala, M. and Kultti, S.*

3D geological and groundwater modelling for the public water supply management – A case study from Karhinkangas aquifer, west Finland

Paalijärvi, M., Luoma, S., Okkonen, J. and Valjus, T.*

Composition of olivine and magma-sulfide interaction in Sakatti Ni-Cu-PGE deposit (Central Lapland)

Paltiala, M., Peltonen, P. and Kivisaari, T.

Common Mid Point (CMP) surveying for depth calibration of Ground Penetrating Radar data

Pinola, H.

Microbial ecology of surface- and groundwaters in the forefield of a rapidly retreating glacier in Iceland

Purkamo, L., ÓDochartaigh, B., MacDonald, A. and Cousins, C.*

Using aerial thermal infrared (TIR) imaging for river baseflow estimation in Lake Pyhäjärvi catchment, Southwestern Finland

Rantama, J., Korkka-Niemi, K. and Rautio, A.*

Introduction to the Laboratory Services in the Department of Geosciences and Geology at the University of Helsinki

Reijola, H. and Vaahtojärvi, T.

Modelling performance of the Topographic Wetness Index is affected by grid resolution and flow-routing algorithm

Riihimäki, H. , Kemppinen, J., Kopecký, M., and Luoto, M.*

Composition of chromite in Ni-Cu-PGE deposit in Sakatti, Central Lapland – petrogenetic implications

Silventoinen, S. , Väliheikki, T. and Peltonen, P.*

Glacial landform interpretation utilizing LiDAR DEM

Valkama, M. , Tuunainen, A. and Palmu, J.-P.*

Heat flow and heat production in relation to geoneutrino signal near Pyhäsalmi mine

Veikkolainen, T. and Kukkonen, I.T.*

Ice flow directions and DEM in Central Lapland: Evidence of Middle Weichselian deposits in Sodankylä

Åberg, A.K., Kaakinen, A., Kultti, S. and Salonen, V.-P.*

The Regulation of Kitinen river to Flood Affected Mire Viiankiaapa, Sodankylä

Åberg, S. C. , Korkka-Niemi, K., Rautio, A., Salonen, V.-P. and Åberg, A.*

