

# REGISTRATION CIRCULAR

## Field and drill core structural geology training

(applied to mineral exploration)

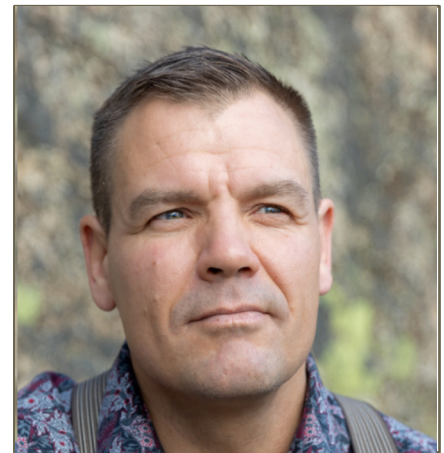
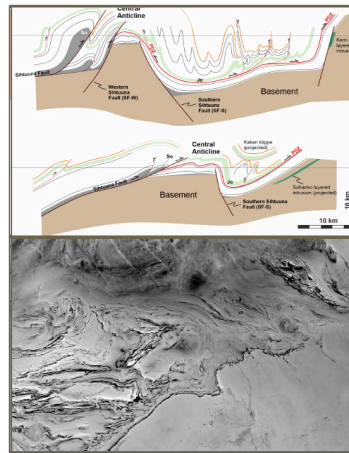
Weds 29 May to Fri 7 June inclusive, 2024

Rovaniemi and Peräpohja schist belt, northern Finland

A 10-day course mostly in the field (7 days), with additional outcrops, drill core and data fusion training at Rovaniemi (including Rajapalot Au-Co project, Mawson Resources)



Dr. Nick Oliver  
HCOVGlobal



Dr. Pietari Skyttä  
SGEO

The main aim of this course is to provide you with a new or revised set of skills, to deal with complex structural geology in rocks hosting mineral deposits. It is suitable for exploration geologists and researchers/students/survey geologists. The regular fee for the course is €2900 (+ 24% VAT) per person and the student fee (including PhD students) is €1450 (+ 24% VAT) per full time student. Places are strictly limited to 25.

Course registration is now open, use this link <https://sgeo.fi/field-course-registration/> to register!

See the following pages of this circular for further information, and send email if there are further questions.

### Course leaders:

Nick Oliver (HCOVGlobal) [nickoliver@hcovglobal.com](mailto:nickoliver@hcovglobal.com)

Pietari Skyttä (SGEO) [pietari@sgeo.fi](mailto:pietari@sgeo.fi)

# COURSE INFORMATION (1/2)

## Costs and Payment

€2900 (+ 24% VAT) per person

€1450 (+ 24% VAT) per full time student

Payment will take place via an invoice that will be e-mailed to you after completing the online registration form. Your registration will only be confirmed once your payment is received.

Discounts apply if three or more people from your employer/institution are attending, contact us for details.

If you are sole representative of your company/institution, we can offer you a place in our minibus. Spaces are limited. Please indicate in the registration form if you would like to travel in the minibus.

### Your primary payment will cover:

- *10 days of training in the field and on drill core.*
- *7 days of accommodation and food at Lohijärvi field camp, from Weds 29 May to Wed 5 June (we will arrive at the field camp in the afternoon of Weds 29 May, and check out after the breakfast on Wed 5 June; pack-lunch for 5 June is included). The accommodation is in shared two-person rooms and the food includes breakfast, pack-lunch, and dinner.*
- *Basic field guide, some mapping templates, relevant regional and some local geophysical and geological products on which your data and interpretations can be compiled. Some basic lunch and water will be provided on 29 May.*

### Your primary payment will not cover:

- *Accommodation and food from June 5 to June 7 in Rovaniemi. You will mostly need to arrange this yourselves. We will arrange for lunches to be provided at the Mawson core facility, as it is not convenient to shops, and there may be a small fee (at cost) for this.*
- *Transport (see below)*

## Deadlines and refunds

Registration after May 1 (1201 hrs Finland summer time) will incur a 10% late fee, and is subject to our discretion (if course is fully subscribed by this date). Before May 1 (midnight at end of April 30) you can withdraw and receive all your registration money back. Between May 1 (1201 hrs Finland summer time) and May 21 (midnight at end of May 21) you can withdraw but there will be a cancellation and administration fee of €580. For cancellations after May 21 (from 1201 May 22) we will not refund your registration fee.

We reserve the right to cancel the course if the minimum number of participants is not reached by May 1. In this case, the registration fee be paid back in full (If registrations are looking good already before this date, we will let everyone know). We also reserve the right to cancel or postpone the course, at our discretion, if major events prevent us from delivering the course safely (e.g. a serious further Covid outbreak or other nationally/internationally imposed travel restrictions).

## Transport

You will need to travel to Rovaniemi, and use your own company/institution vehicle, rent a car, or travel in our van, between May 29 and 5 June. The course commences 0900 on May 29 at Rovaniemi airport. If you travel in our van, we will charge you a fee that covers your proportion of the rental and fuel. If demand is high enough, we may consider renting another van. From 5 to 7 June in Rovaniemi, you could extend your rental for convenience getting to and from your accommodation to the Mawson core facility (otherwise we can provide pickup etc).

If you are renting a car and intend arriving in Rovaniemi on the afternoon of May 28, we recommend picking it up late afternoon (around 1700), and arranging to return it at a similar hour (or during lunch) on June 5. It may also be possible to rent from 0800 on May 29 and return at soon after 0800 on June 5 to save a days rental, but you will have to leave Lohijarvi early to do that (just over one hours drive to Rovaniemi). We will ideally commence the drill core exercise at Mawson core yard at 0930 or 1000 on June 5.

Although the field camp is only one hour or so from Rovaniemi, we will be conducting training and giving some short presentations at irregular times at the field base (some mornings, late afternoons, evenings) so we do not recommend that anyone consider commuting between Rovaniemi and the field camp every day – the logistics will be too difficult.

## Field and drill core structural geology training

29 May - 7 June 2024, Rovaniemi and Peräpohja schist belt, northern Finland

# COURSE INFORMATION (2/2)

## What to bring:

- Small day-pack
- Field notebook + pen
- Geologist compass (recommended: Freiberg/Brunton Geo/Breithaupt, or comparable; minimum: Suunto or Silva with dip needle) or smartphone equivalent. Our recommendations include Field Move's "Clino" for iPhone and high-level android smartphones (for a small fee you get a version that allows you to allocate rock types and edit structure types easily).
- Camera or a smartphone equipped with a camera
- Pen magnet and scribe (or knife). These will be useful particularly during the drill core days.
- Rock hammer (optional): some structures may be better revealed by careful removal of moss/ dirt and weathered rock etc
- Insect repellent and/or screening for your hat (optional, hopefully we will finish before the mosquitoes start their summer feeding festival)
- Water bottle, snack food; we will have limited access to shops 29 May to 4 June
- Laptop loaded with Excel and (ideally) QGIS. If you are an experienced ArcGIS user, this will be fine. Even if you use Mapinfo, this should be OK. Note however, this is not a GIS-training course, but we will offer some assistance and support for those of you who have little GIS experience. QGIS is free (downloads and software) with no hidden costs.
- Some stereographic projection software will be useful, either on your hand-held device, or on your laptop. Attendees that have access to ioGAS can use the stereographic projection functions within that. For stereographic projections we recommend Orient
- Software links:
  - QGIS: <https://qgis.org/en/site/>
  - Orient: <https://www.frederickvollmer.com/orient/index.html>

## What should you do now?

1. Register using the web form provided (contact us if you have issues)
2. Arrange for payment to be made
3. Book accommodation in Rovaniemi (e.g. for nights of 28th May, and for 5-6-maybe 7th June)
4. Book flights if required (note there is a Finnair flight HEL-RVN AY531 arriving Rovaniemi 0840 on May 29, and we will be commencing the fieldwork from the airport at 0900). There are flights RVN-HEL on June 7 departing at 1755 (Finnair) and 2100 (Norwegian Air Sweden), and 0725 and 1220 Finnair flights on June 8. We recommend the June 8 flights if you wish to partake in a likely social event at the end of the course on June 7.
5. Book a rental vehicle or arrange this vehicle with your company/institution. This would be from late May 28 or early May 29 to early June 5 at the minimum; extend to end June 7 for convenience

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**Pietari (Pietu) Skyttä** (PhD) is a structural geologist whose main expertise lies within the analysis and 3D modelling of structures of multiply deformed crystalline bedrock, with field geology experience primarily from the Fennoscandian region. He has 20 years of teaching and postgraduate supervision in bedrock geology, and has published several papers and delivered conference presentations on the structural geology of the Peräpohja Schist Belt. The highlights of the training are the bi-annual two-week long Fennoscandian field courses he has organised, which have included excursions, mapping exercises and industry visits (exploration, mining, engineering geology), which have received very good feedback from the participants. Pietari is taking these skills into the industry environment now with the founding of his new consulting company “Structural Geology Company” (SGEO), to meet the increasing need for training and consultancy services for the minerals industry across Fennoscandia. He worked together with Nick Oliver during his PhD and with the Finnish Universities field training program in central Finland.



**Nicholas (Nick) Oliver** (PhD, FSEG) is a mineral systems structural/hydrothermal geologist, lead consultant and director within the Australian consortium HCOVGlobal. He was Professor of Economic Geology at James Cook University (Australia) from 1997 to 2010. For the last 13 years he has been a full-time consultant to the minerals sector, focussed on fusion of structural, geochemical and geophysical data, and training. He has given field- and on-line training courses to over 6000 geologists worldwide, and has been involved in many structural consultancies and training in Finland, starting in 1998, and most recently with several junior and major companies exploring in the Peräpohja and Lapland Greenstone belts. He was a keynote speaker at FEM2019 (Levi) on basement/cover structural interaction in Paleoproterozoic gold systems. He has broad commodity experience from Au, Pb-Zn-Cu, REE, Fe and U in Precambrian poly-deformed metamorphic belts (Australia, Fennoscandia, Brazil, West Africa and the Guyana Shield) to porphyry, epithermal, skarn and other Mesozoic to Cenozoic systems in Russia, the Tethys, Mongolia, Australasia and South America.

