

# 14<sup>th</sup> International Symposium on the Ordovician System

July 15–26, 2023; Estonia and Sweden

*in conjunction with*

**The 3<sup>rd</sup> Annual Meeting of IGCP 735 and STRATI-2023 Ordovician Excursion**



## Second Circular

The 14<sup>th</sup> International Symposium on the Ordovician System will take place in Tallinn, Estonia, with field trips in Estonia and Sweden. ISOS-14 marks the return of the major event for all friends of the Ordovician System to Baltica after 41 years. Welcome to Estonia and Sweden in July 2023!

Tõnu Meidla and Olle Hints  
on behalf of the organisers



### Schedule and deadlines

<b>April 1, 2023</b>	<b>Deadline for short papers and abstracts</b> <b>Deadline for paying the regular conference fee</b>
June 2023	Distribution of the Third Circular
July 14, 2023	Arrival in Tallinn (for pre-conference excursion)
<b>July 15-18, 2023</b>	<b>Pre-conference excursion: Ordovician of Estonia</b>
July 18, 2023	Registration and Ice Breaker in Tallinn
<b>July 19-21, 2023</b>	<b>Scientific sessions, Conference Dinner</b>
July 22, 2023	Travel from Tallinn to Stockholm for the Post-Conference Excursion
<b>July 23-26, 2023</b>	<b>Post-conference excursion: Ordovician in Sweden</b>
July 27, 2023	Departures from Stockholm



REPUBLIC OF ESTONIA  
GEOLOGICAL SURVEY



## About Estonia

Estonia is located in northern Europe between Finland, Russia, Latvia and Sweden. With an area of 45,000 km<sup>2</sup> and a population of ca 1.3 million, it is one of the smallest countries in Europe. The official language is Estonian, a Fenno-Ugric language spoken by 1.1 million people. Estonia is a member of the European Union, the Eurozone, NATO, the OECD, and the Schengen Visa Area.

Estonia is renowned for its economic and social freedom, sound education system, high level of digitisation and government e-services. The capital of Estonia is Tallinn, famous for its UNESCO World Heritage medieval old town. Tartu, the second largest city in the country, is best known for its university, established in 1632. Find out more at: <https://estonia.ee>, <https://www.visitestonia.com>.

## Travel options

Tallinn can be reached from many European cities by direct flights or via nearby larger airports, particularly Helsinki, Stockholm and Riga. From Scandinavia and Central Europe, Estonia is also reachable by car or bus. For details, please consult: <https://www.visitestonia.com/en/travel-here-around/travel-to-estonia>

Please check if you need a visa for Schengen Area and contact the organisers in advance should you need an official invitation.

## Conference venue

The scientific sessions will take place at the Astra Building of Tallinn University, located in Tallinn City Centre (address: [Narva mnt 29](#)), within walking distance from the historical Old Town, various hotels, restaurants, and the Baltic Sea.

## Accommodation

Conference participants are responsible for arranging accommodation for the entire period of stay, including the pre-conference excursion. A special price is offered for the participants in a few hotels close to the conference venue (5-10 min walk) until April, depending on availability:

- (1) [Hestia Hotel Seaport](#), book with promo code "ISOS-14" on [this link](#).
- (2) [Hestia Hotel Europa](#), book with promo code "ISOS-14" on [this link](#).
- (3) [Tallink City](#), book at <https://hotelbooking.tallink.com> and use promo code "ISOS-14".
- (4) [Nordic Hotel Forum](#), book at the hotel website with event code "ISOS-14".

Additionally, budget accommodation is available in [Academic Hostel](#). The special price for a twin room is €38 (no breakfast included). Please use the keyword "ISOS-14" during the booking via their website before April 1st, 2023. Note that the hostel is ca 30 min by public transport from the conference venue. However, it is located within the Tallinn Technical University (TalTech) campus, and during the pre-conference field trip, the bus will stop near the hostel.

Various other hotels and other types of accommodation in Tallinn are available on booking systems (such as <https://booking.com>), with the price range from €50 to above €250 per night.

## Registration fees

<b>Regular Conference Fee</b> Covers abstract volume, ice breaker, coffee-breaks and lunches. To be paid until April 1, 2023.	<b>EUR 400</b>
<b>Student Fee</b> To be paid until April 1, 2023.	<b>EUR 250</b>
<b>Late Conference Fee</b> If paid after April 1, 2023.	<b>EUR 550</b>
<b>Conference Dinner</b>	<b>EUR 75</b>
<b>Pre-conference excursion: Ordovician of Estonia (July 15-18, 2023)</b> Includes guidebook, transportation, field lunches (accommodation in Tallinn should be booked by participants separately). The number of places is limited.	<b>EUR 300</b>
<b>Post-conference excursion: Ordovician of Sweden (July 23-26, 2023)</b> Includes guidebook, lunches, and accommodation. The number of places is limited. Late price (if paid after April 1, 2023)	<b>EUR 600</b> <b>EUR 700</b>

For registration and payment, visit conference website: <https://isos14.org>

### Payment options

Credit card payments are preferred, the details are available at the conference website: <https://isos14.org>.

An invoice for bank transfer can be provided upon request. Please indicate the keyword "ISOS14" and the names of participant(s) in the payment description, and ensure that the payment will be without charges to the beneficiary.

### Cancellation

Refunds of 50% of the conference and excursion fees will be paid if the cancellation is received before July 1, 2023. No refunds are possible after this date. In case of unlikely cancellation or postponing the meeting due to global health or security crisis, the fees will be returned.

### Support

Limited support to young researchers from the IGCP 735 will be possible; please contact the conference secretary for further details. Note that only participants with presentations will be considered for support.

## On-site Registration and Icebreaker

Registration desk will be opened at the conference venue (Astra Building of Tallinn University, Narva mnt 29, Tallinn) in the afternoon of July 18, 2023. Icebreaker will take place in the same location.

## Conference dinner and spouse activities

The conference dinner will take place on July 20, 2023, in Tallinn City Center. Note that the Conference Dinner is not included in the registration fee.

Spouse activities will be organised for the period of scientific sessions if there is interest. Please indicate your interest in the registration form.

## Short papers and abstracts

The conference volume will be published in the [Estonian Journal of Earth Sciences](#), a Scopus-indexed Open Access journal. Participants are invited to submit short papers (4 printed pages) on any aspect of the Ordovician System worldwide. The manuscripts will be peer-reviewed and, upon recommendation, published as regular 'Short Communication' papers of the journal. All short papers will receive a DOI identifier, become openly accessible at the journal website according to Creative Commons Attribution (CC BY) licence. They will be indexed in Scopus, Web of Science, Google Scholar and other services.

Please prepare your manuscript using the 'short paper template' that is available on the conference website: <https://isos14.org/Presentations.html>. NB! No article processing fees apply to the conference volume contributions and colour images are printed free of charge.

Alternatively, participants may submit abstracts (1 printed page), but note that these will not be indexed in SCOPUS and other citation databases as publications. No illustrations, references and acknowledgements are allowed in abstracts. Use the 'abstract template' file to prepare your abstract: <https://isos14.org/Presentations.html>

**Short papers and abstracts should be sent by email to [isos14@ut.ee](mailto:isos14@ut.ee) by April 1, 2023.**

## Presentations

**Regular oral presentations** are limited to 15+5 minutes, and keynote talks to 35+5 minutes. Slides should be prepared in MS PowerPoint (.ppt, .pptx) or pdf formats and delivered to the organisers during on-site registration.

**Posters** will be displayed during the entire conference and presented during the poster session. Please prepare your poster in A0 format, preferably in portrait orientation. It is possible to print your poster in Tallinn and deliver it to the conference venue by the organisers. Printing usually costs ca EUR 20, depending on speed and paper type. Please contact the printing office at TalTech campus for further information and orders: [akadeemia@koopia.ee](mailto:akadeemia@koopia.ee).

## Excursions

The conference will be preceded by an excursion in Estonia introducing classic Ordovician successions in the eastern Baltic region and a post-conference field trip in Sweden.

**Please note that the number of places is limited on both excursions.** The places are reserved in the order of registration and kept only if the fee is paid before April 1, 2023. The pre-conference excursion is also an official excursion of the STRATI-2023 Conference.

## Pre-conference excursion: Ordovician of Estonia (July 15-18)

The 4-days excursion will focus on the Ordovician succession of northern and central Estonia. The fee EUR 300 includes travel, lunches and excursion guidebook. Please note that participants are responsible for arranging accommodation for the entire period of the excursion in Tallinn. The maximum number of participants is limited to 60.

The stops to be visited include coastal cliffs exposing uppermost Cambrian to Upper Ordovician siliciclastics and limestones, and active quarries and opencast mines for limestone and oil shale. Additionally, selected drill cores from central and southern Estonia piercing the entire Ordovician sequence will be shown at the Geological Survey's core study facility.

More information and map of the sites is available at <https://isos14.org/Excursions.html>

Schedule in brief (some sightseeing and cultural stops to be added):

### Day 1 (Saturday, July 15)

- Pakerort Cliff, Pakri Peninsula (mid-Cambrian to Early Ordovician siliciclastics)
- Uuga Cliff, Pakri Peninsula (Floian to Darriwilian sandstones and limestones)
- Madise escarpment (Sandbian marly limestones)
- Põõsaspea Cliff (Sandbian limestones, Kinnekulle K-bentonite)

### Day 2 (Sunday, July 16)

- Harku Quarry (Darriwilian limestones)
- Vasalemma Quarry (topmost Sandbian limestones with organic buildups)
- Sutlema Quarry (Katian lime-mudstones)
- Reinu Quarry (latest Katian to earliest Rhuddanian limestones)

### Day 3 (Monday, July 17)

- Kunda clay quarry (Terreneuvian clay)
- Kunda-Aru quarry (Darriwilian limestones)
- Põhja-Kiviõli opencast mine (Sandbian limestones and kukersite oil-shale)
- Ontika-Valaste Cliff (Mid-Cambrian to Early Ordovician siliciclastics)

### Day 4 (Tuesday, July 18)

- Ordovician drill cores at the Arbavere research centre (Full Ordovician succession from subsurface sections in central and southern Estonia)
- Nõmmeveski riverbank outcrop (Tremadocian to Darriwilian siliciclastics and carbonates)
- Jägala waterfall (Tremadocian to Darriwilian siliciclastics and carbonates)
- Iru outcrop (Tremadocian sandstones with shelly phosphorite)

## Post-conference excursion: Ordovician in Sweden (July 23-26)

### Post-conference excursion: Ordovician in Sweden (July 23-26)

The 4-days excursion will focus on the Ordovician successions of Västergötland (southwest Sweden) and the Siljan district (central Sweden). The preliminary costs are **EUR 600** (includes bus travel, four field lunches, three dinners, and accommodation for three days during the field excursion) and **EUR 700** for late registrations after 1<sup>st</sup> April.

The excursion will start from Uppsala. Please note that participants are responsible for arranging accommodation for the night before the excursion (22 to 23 July) and the day/days following the excursion (26 July onwards). A variety of hotels and other types of accommodation are available in Uppsala at <https://booking.com> with a price range from EUR 50 to EUR 200 per night.

The maximum number of participants is now limited to 18. NOTE! At the moment too few participants have indicated interest for the post-conference excursion to be feasible. A final decision regarding the realisation of the field trip will be made after 1 April. Details on payment and final schedule will be given at that stage if the excursion will still be arranged.

Schedule in brief

#### Day 1 & 2 (Sunday, July 23 and Monday, July 24)

Uppsala to Västergötland. Stops at Mt Kinnekulle with the condensed Middle Ordovician limestone succession, and the Hirnantian at Mt Billingen. Overnight at Skara and Filipstad.

#### Day 3 & 4 (Tuesday, July 25 and Wednesday, July 26)

Stops at the Kårgärde and Fjäckå localities which have several of the Swedish Ordovician type sections units. Several quarries with Boda Limestone carbonate mounds will be visited. Overnight at Siljansnäs, return to Uppsala Wednesday afternoon.

## Visit geological collections

### In Estonia

Large collections of Baltic Ordovician fossils and rocks are kept at the Department of Geology of Tallinn University of Technology, at the Estonian Museum of Natural History and at the Natural History Museum, University of Tartu (in Tartu, 180 km south of Tallinn). Participants of the conference are welcome to arrive earlier or leave later, in order to study these collections. Please contact the corresponding curators at your earliest convenience, but no later than May 1, 2023, to ensure the availability of the material. Data on many collection specimens, samples, localities etc have been digitised and made accessible online in the national geoscience data portal:

<https://geologia.info>. Contact:

- Ursula Toom, Department of Geology, Tallinn University of Technology ([ursula.toom@taltech.ee](mailto:ursula.toom@taltech.ee))
- Mare Isakar, Natural History Museum, Tartu University ([mare.isakar@ut.ee](mailto:mare.isakar@ut.ee))
- Karin Truuver, Estonian Museum of Natural History ([karin.truuver@loodusmuuseum.ee](mailto:karin.truuver@loodusmuuseum.ee))

## In Sweden

The main collections of Swedish Palaeozoic fossils and rocks are kept at the Museum of Evolution at Uppsala University, the Swedish Geological Survey (also in Uppsala) and the Swedish Museum of Natural History in Stockholm. Participants of the conference are welcome to study these collections. Please contact the corresponding curators at your earliest convenience, but no later than May 1, 2023, to ensure the availability of the material. Contact:

- Jan Ove R. Ebbestad, Museum of Evolution, Uppsala University ([jan-ove.ebbestad@em.uu.se](mailto:jan-ove.ebbestad@em.uu.se))
- Linda Wickström, Geological Survey of Sweden ([Linda.Wickstrom@sgu.se](mailto:Linda.Wickstrom@sgu.se))
- Jonas Hagström, Swedish Museum of Natural History, Stockholm ([jonas.hagstrom@nrm.se](mailto:jonas.hagstrom@nrm.se))

## Scientific committee

- David A. T. Harper (Durham University)
- Lars Holmer (Uppsala University)
- Petr Kraft (Charles University)
- Thomas Servais (CNRS-Université de Lille)
- Zhan Renbin (Nanjing Institute of Geology and Palaeontology)

## Organising committee

- Tõnu Meidla, chairman (University of Tartu)
- Olle Hints, vice chair (Tallinn University of Technology)
- Oive Tinn, secretary (University of Tartu)
- Leho Ainsaar (University of Tartu)
- Tavo Ani (Estonian Geological Survey)
- Markus Mäido (Estonian Geological Survey)
- Peep Männik (Tallinn University of Technology)
- Helje Pärnaste (Tallinn University of Technology)
- Marko Kabel (Estonian Geological Survey)
- Ursula Toom (Tallinn University of Technology)
- Karin Truuver (Estonian Museum of Natural History)
- Jan Ove R. Ebbestad (Museum of Evolution, Uppsala University, Sweden)

## Contact and further information

### E-mail and phone:

General e-mail: [isos14@ut.ee](mailto:isos14@ut.ee)

- **Oive Tinn** (conference secretary): +372 53 33 15 56, [oive.tinn@ut.ee](mailto:oive.tinn@ut.ee)
- **Tõnu Meidla** (chairman of the organising committee): +372 514 4504, [tonu.meidla@ut.ee](mailto:tonu.meidla@ut.ee)
- **Olle Hints** (pre-conference excursion): +372 51 30 157, [olle.hints@taltech.ee](mailto:olle.hints@taltech.ee)
- **Jan Ove Ebbestad** (post-conference excursion): [jan-ove.ebbestad@em.uu.se](mailto:jan-ove.ebbestad@em.uu.se)

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