

XI Baltic Stratigraphical Conference

August 19–21, 2024

Tartu and Arbavere, Estonia

Third Circular and Scientific Programme



The 11th Baltic Stratigraphical Conference will take place in Estonia in August 2024. The scientific sessions in Tartu and Arbavere Research Centre will be complemented by geological excursions to central, northern and western Estonia. Like in the case of previous Baltic stratigraphical conferences, this meeting is not restricted to stratigraphy, but contributions on a broad range of regionally relevant geological topics will be presented.

The meeting has attracted ca 40 participants from Estonia, Lithuania, Latvia, Poland, Denmark, Sweden, UK and US.

Olle Hints and Tõnu Meidla
Estonian Commission on Stratigraphy

Schedule

Sunday, August 18	Arrival to Tartu, Registration and Icebreaker <i>Location and time:</i> Chemicum, Ravila 14A, registration desk is open from 15.00, Ice-Breaker starts 18.00 <i>Accommodation:</i> in Tartu, to be arranged personally
Monday, August 19	Conference in Tartu; for scientific programme see below <i>Location:</i> Chemicum, Ravila 14A <i>Accommodation:</i> in Tartu, to be arranged personally
Tuesday, August 20	Mid-conference field trip <i>Departure:</i> 8:45 Chemicum Parking (Ravila 14A, Tartu), 9:00 Vanemuise Parking (Vanemuise Street 15, Tartu) <i>Activities:</i> Visiting outcrops in central and NE Estonia, Conference Dinner in the evening; <i>Accommodation:</i> in Arbavere (included in the conference fee)
Wednesday, August 21	Conference and workshop in Arbavere <i>Location:</i> Arbavere Research Centre and Drill Core Repository <i>Departures:</i> to Tallinn and Tartu in the evening <i>Accommodation:</i> - to be arranged personally for those not attending post-conference excursion; - participants of the post-conference excursion have accommodation booked in Tallinn (included in the excursion fee);
Thursday, August 22	Post-conference field trip <i>Departure:</i> 8:00 from Tallinn, Academic Hostel (Akadeemia tee 11/1, Tallinn);

	<i>Focus:</i> outcrops in northern and western Estonia; <i>Accommodation:</i> University of Tartu Field station in Laelatu
Friday, August 23	Post-conference field trip <i>Focus:</i> outcrops on Saaremaa Island <i>Accommodation:</i> in Kuressaare, Saaremaa
Saturday, August 24	Post-conference field trip <i>Focus:</i> outcrops on Saaremaa Island <i>Accommodation:</i> in TalTech Särghaua education centre
Sunday, August 25	Post-conference field trip <i>Focus:</i> outcrops in central Estonia Expected time of arrival: 16:00 Tallinn, 18:30 Tartu. <i>Accommodation:</i> to be arranged personally

Conference venue

The conference will start in **Tartu**, the academic capital of Estonia. In 2024, Tartu is also the European Capital of Culture. On the first day, August 19, the scientific sessions will be hosted in the **University of Tartu Chemicum Building**, Ravila 14A, Tartu (see <https://g.co/kgs/aMiWFvw>).

The Chemicum building can be reached on foot (ca 30 min walk), public transport or taxi service such as Bolt (you need an app to order taxi) from the city center.

This will be followed by the mid-conference excursion on August 20, ending in Arbavere, North Estonia.

The second day of the sessions, August 21, will be held at the **Arbavere Research Center** and core repository (<https://egt.ee/en/organisation-news-and-contacts/contacts/arbavere-research-centre>, <https://maps.app.goo.gl/CNxUwp8ZcCy7aG2VA>).

Programme

The scientific programme is included below. For any updates, check the conference website: <https://stratigraafia.info/11bsc>.

Presentations

All **oral presentations** are scheduled for 20 minutes, including questions (17+3 min).

Presentation files should be in MS PowerPoint pptx or pdf format. The files will be collected during registration on August 18, or before the sessions on August 19.

Poster presentations should be prepared in standard A0 size (portrait). The organisers provide means for hanging the posters. NB! The corresponding authors of poster presentations are invited to introduce their work in 2 minutes during the **poster session** in the poster display area on August 19.

Field trips

One-day mid-conference excursion will take participants from Tartu to Arbavere, visiting Devonian, Silurian and Ordovician outcrops on the way.

The departure for the mid-conference excursion will be at 8:45 from the **Chemicum Building parking** (Ravila 14A, Tartu) and 9:00 from the **Vanemuise Theater parking** (Vanemuise 15, Tartu; <https://g.co/kgs/tL6EXaz>).

The **four-day post-conference trip** will take participants from Tallinn, across western Estonia, to Saaremaa Island and then back to central Estonia, ending in Tallinn. On August 21, the participants stay in Tallinn at the Academic Hostel (accommodation included in the conference fee). The departure will be from the Academic Hostel (Akadeemia tee 11/1, Tallinn) at 8:00 on August 22. The next night will be in Laelatu field station of Tartu University, Johan Spa Hotel in Kuressaare and Särghaua field station of TalTech. Breakfasts and field lunches are included and some dinners as well.

The weather conditions during the excursions may vary, both hot sunshine and cold showers should be expected. Please plan your clothing accordingly.

For excursion stops, check out the conference website: <https://stratigraafia.info/11bsc>.

Social events

Icebreaker will take place on August 18, 2024, in Chemicum Building, Ravila 14A, Tartu. Scheduled start: 18.00.

Conference Dinner will be on August 20, 2024, following the mid-conference excursion.

Tartu: European Capital of Culture 2024. There are various activities and events going on in Tartu in August, during the time of our conference. Please check the programme and other information on the [Tartu 2024 website](#).

Travel and accommodation

Tartu can be easily reached by car, bus or train. Those arriving by plane to Tallinn or Riga would take a bus to Tartu. For international bus lines check <https://eurolines.lt/en>, domestic bus tickets can be booked online at <https://www.tpilet.ee/en/>.

Booking accommodation in Tartu (and in Tallinn after the field excursion if needed) is the responsibility of the participants. A selection of hotels in the city centre: [Dorpat](#), [Lydia](#), [Antonius](#), [Barclay](#).

Budget accommodation is arranged in Tartu Downtown Hostel for two nights, from August 18-19, 2024. Price per double room (without breakfast): 30€ (single occupancy) / 35€ (double occupancy). Booking at tartuhostel.ee, using the keyword "11BSC". NB! The number of pre-booked rooms is limited.

Please note that due to the change in conference venue, the participants will stay in Tartu for two nights, **August 18 and 19**. Accommodation for **August 20** is booked by the organisers in Arbavere, North Estonia, and this is covered by the conference fee. Those not attending the post-conference excursion should arrange their accommodation individually either in Tallinn or Tartu, for **August 21**.

For participants of the post-conference excursion, accommodation for **August 21** is booked in Tallinn (Academic Hostel; included in the excursion fee). The post-conference excursion ends in Tallinn on August 25, but a minibus will take people to Tartu as well; accommodation for August 25 in Tallinn or Tartu should be arranged individually.

Contact

- Tõnn Paiste, Conference Secretary, phone: +372 5593 3950, 11bsc@ut.ee
- Olle Hints, phone: +372 513 0157, olle.hints@taltech.ee
- Tõnu Meidla, phone: +372 514 4504, tonu.meidla@ut.ee

Conference website: <https://stratigraafia.info/11bsc>

Scientific Programme

as of 2024-08-07

August 19, 2024		Scientific sessions in Tartu
9:00	9:20	Opening of the conference
9:20	9:40	Ervīns Lukševičs and Ģirts Stinkulis: The Upper Famennian Ketleri Formation of Latvia: fauna and flora from tide-dominated delta deposits in a seasonal climate
9:40	10:00	Valters Alksnītis : Traces of predator attacks, post-mortem damages, and parasite activity in the vertebrate fossils from the Baltic Middle and Upper Devonian basin deposits
10:00	10:20	Tatjana Visotina and Ervīns Lukševičs: Morphometric analysis of the Late Famennian <i>Holoptychius</i> (Sarcopterygii, <i>Porolepiformes</i>) from the Ketleri Formation, Latvia
10:20	10:40	Nurlan Talibov and Donatas Kaminskas: Porosity Characterization of the Silurian Succession in Middle Lithuania: A Comparative Analysis
10:40	11:00	Donatas Kaminskas, Andrej Spiridonov and Donatas Kudžma : Depositional environments of the Šilalė Event (early Pridoli, Silurian) in Milaičiai 103 core section, Lithuania
11:00	11:20	COFFEE & TEA
11:20	11:40	Peep Männik , Tõnu Meidla and Olle Hints: Silurian stratigraphy in Estonia: Recent developments and challenges
11:40	12:00	Sigitas Radzevičius , Wiesław Trela, Olgierd Pedrycz and Tomas Želvys: Distribution of Silurian graptolites in the Kleczanów PIG - 1 well (Holy Cross Mountains, Poland): a preliminary report
12:00	12:20	Adam T. Halamski : Wenlock brachiopods from boreholes in eastern Poland
12:20	12:40	Oliver Lehnert , Guanzhou Yan, Guido Meinhold, Michael Joachimski, Mikael Calner, Peep Männik, Jiri Fryda, Fangyi Gong and Rongchang Wu: Early Silurian climate changes on Baltica and South China – a sedimentological, bio- and chemostratigraphic framework
12:40	13:00	Oive Tinn , Kelly Kittus, Kärt Luik and Daria Panasiuk: Kalana Lagerstätte: expansion of stratigraphic ranges and palaeobiological data
13:00	14:00	LUNCH
14:00	14:20	Ogechukwu Ann Moghalu , Olle Hints and Ursula Toom: Trace fossils from the Ordovician-Silurian boundary beds of Estonia (Baltica)
14:20	14:40	Imre Andreas Martin , Leho Ainsaar and Aivo Lepland: The Late Ordovician Hirnantian isotopic carbon excursion in the Baltic Basin: relationships between sedimentary facies and magnitude of isotopic excursion
14:40	15:00	Ursula Toom , Björn Kröger, Dirk Knaust, Ogechukwu A. Moghalu, Dominik Vöröš and Stanislava Vodrážková: Evolution of a Katian tropical hardground
15:00	15:20	Tõnn Paiste , Peep Männik, Svend Stouge, Leho Ainsaar and Tõnu Meidla: Sandbian-lower Katian conodont correlation of Baltoscandian Basin
15:20	15:40	Thibaud Liefroy , Leho Ainsaar, Peep Männik, Tõnu Meidla, Jaak Nõlvak and Olle Hints: Lower and Middle Ordovician bio- and chemostratigraphy of the Aizpute-41 drill core, Latvia
15:40	16:00	COFFEE & TEA
16:00	16:20	Christian M.Ø. Rasmussen , Oliver Lehnert, Svend Stouge, Anders Lindskog, Rongchang Wu, Michael M. Joachimski and Mikael Calner: A transient Baltic extinction pulse paused the start of the Ordovician radiations regionally
16:20	16:40	Lars Holmer , Mansoureh Ghobadipour, Leonid Popov and José Javier Álvaro Blasco: Biogenic phosphate pollution inducing eutrophication as a catalyst for the decline of obolid-dominated brachiopod communities in the Early Tremadocian of East Baltica

16:40	17:00	Donatas Kudžma , Sigitas Radzevičius, Anna Cichon-Pupienis, Agnė Venckutė-Aleksienė and Donatas Pupienis: Lithofacies related changes of rock magnetic and radioactive characteristics along Ordovician sequence in Lithuania
17:00	17:20	Tõnu Meidla , Leho Ainsaar, Olle Hints and Sigitas Radzevičius: On the integrated regional Ordovician correlation charts of Estonia, Latvia and Lithuania
17:20	18:00	POSTER SESSION
		Jana Bruthansová , Petr Kraft, Ursula Toom and Martina Havelcová: Sea grasses/meadows in the Ordovician and Silurian of Estonia
		Linda Hints , Oliver Lehnert, Jaak Nõlvak, Peep Männik, Helje Pärnaste and Michael Joachimski: The late Sandbian/Early Katian carbonate succession in the eastern St. Petersburg region: the stratigraphic record in the Krapivno 21 drill core
		Tomasz Janczylik , Sigitas Radzevičius, Maria Wojcieszak and Bartosz Glinka: Ordovician trilobite fauna from erratic boulders from northern Poland
		Reet Männik , Leho Ainsaar, Peep Männik, Tõnu Meidla, Sigitas Radzevičius and Olle Hints: Microfossil response to the late Silurian Lau Event in the Bebirva-111 drill core, Lithuania
		Sigitas Radzevičius , Wojciech Kozłowski, Andrej Spiridonov, Ieva Kaminskaitė-Baranauskienė, Gailė Žalūdienė, Andrius Garbaras and Anna Cichon-Pupienis: Mid-Ludfordian carbon isotope records from open marine settings – deep-water clay-dominated and carbonate shelf (Lithuania)
		Simona Rinkevičiūtė , Liudas Daumantas, Sigitas Radzevičius and Andrej Spiridonov: Analysing Mulde Event Dynamics with Ultra-High-Resolution Ostracod Paleocommunity Analysis
		Juwan Jeon and Ursula Toom : First aulaceratid stromatoporoid from Baltica
		Tomas Želvys , Anna Cichon-Pupienis, Robertas Stankevič, Andrius Garbaras and Sigitas Radzevičius: The correlation of the carbonate facies of the Lower Silurian in Lithuania: carbon isotope and the cross-recurrence plot

August 20, 2024 Mid-conference Excursion

8:45		Departure from Tartu, Chemicum Building, Ravila 14A
9:00		Departure from Tartu, Vanemuise Theater Parking, Vanemuise 15
9:15	9:45	Tartu cemetery outcrop (Devonian)
10:45	12:00	Kalana limestone quarry (Silurian)
13:00	14:00	Porkuni quarry & lunch stop (Ordovician)
15:00	16:30	Põhja-Kiviõli oil-shale opencast mine (Ordovician)
18:00	21:00	Conference Dinner, Tulivee Restaurant
22:00		Arrival to Arbavere Puhkekeskus for accommodation

August 21, 2024 Scientific session and workshop at Arbavere Research Center

9:00	9:20	Oliver Lehnert , Bjarne Almquist, Mark Anderson, Jenny Andersson, Simon Cuthbert, Mikael Calner, Isabel Carter, Riccardo Callegari, Christopher Juhlin, Henning Lorenz, Claudio Madonna, Guido Meinhold, Luca Menegon, Iwona Klonowska, Christophe Pascal, Markus Rast, Nick N.W. Roberts, Jonas B. Ruh, Grzegorz Ziemniak: COSC-2 and its well-preserved Lower Palaeozoic sedimentary succession – an unexpected treasure beneath the Caledonian nappes
9:20	9:40	Alla Shogenova , Kazbulat Shogenov, Saulius Sliupa, Rasa Sliapiene, Argo Jõelett and Aleksandrs Zajacs: Cambrian Deimena Regional Stage sandstones – the oldest and most prospective geothermal reservoir in the Baltic Basin
9:40	10:00	Helje Pärnaste : The Lower Cambrian Trilobite Zonation of Estonia

10:00	10:20	Dmitrijs Vorobjovs and Ģirts Stinkulis: Formation and later changes of the Staicele and Gārsene Proterozoic iron ore deposits: evidence from structure, mineralogical and chemical composition
10:20	10:40	Siim Nirgi and Alvar Soesoo: Geology and geochronology of the Estonian Precambrian basement
10:40	11:00	COFFEE & TEA
11:00	11:20	Olle Hints , Mare Isakar and Ursula Toom: Geoscience collections and data services in Estonia: current state and perspectives
11:20	11:40	Ivo Sibul , Andres Kasekamp and Hanno Kuus: Geo3D strategy in the Estonian Land Board: national digital twin from a geological perspective
11:40	12:00	Tavo Ani and Tõnu Meidla: Brief history of lithostratigraphic work at the Geological Survey of Estonia
12:00	13:00	Baltic Stratigraphical Association business meeting
13:00	14:00	LUNCH
14:00	17:00	Tour in the Arbavere Center, Drill core workshop
17:00		Departure to Tallinn / Tartu