14th International Symposium on the Ordovician System

July 15–26, 2023; Estonia and Sweden

in conjunction with **The 3rd Annual Meeting of IGCP 735** *and* **STRATI-2023 Ordovician Excursion**



Third Circular & Programme

Project 735 IUCS Bocks and the Rise The 14th 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

General Schedule

July 14, 2023	Arrival to Tallinn
July 15-18, 2023	Pre-conference excursion: Ordovician of Estonia
July 18, 2023	Registration and Icebreaker in Tallinn
July 19-21, 2023	Conference in Tallinn
July 22, 2023	Travel from Tallinn to Uppsala, Sweden
July 23-26, 2023	Post-conference excursion: Ordovician in Sweden
July 27, 2023	Departure







Republic of Estonia Geological Survey



Programme day-by-day

Friday, July 14Arrival to Tallinn for the Pre-conference ExcursionSaturday, July 15Pre-conference Excursion: Day 1 Ordovician in NW Estonia 8:30 Departure from TalTech (Ehitajate tee 5) 9:00 Departure from Tallinn University (Uus-Sadama 5) 18:00 Return to TallinnSunday, July 16Pre-conference Excursion: Day 2 Ordovician in Noth Estonia 8:30 Departure from TalTech 9:00 Departure from Tallinn University 18:00 Return to Tallinn 9:00 Departure from TalTech 9:00 Departure from TalTech 9:00-17:20 Scientific Sessions 17:30 Ordovician Subcommission Business MeetingThursday, July 20Conference Day 1 8:30 Registration Desk open 9:00-17:40 Scientific Sessions 1Conference Day 2 8:30 Registration Desk open 9:00-18:30 Registration Desk open 9:00-18:30 Registration Desk Open 9:00-18:30 Registration Desk Open 9:00-18:30 Scientific Sessions 1Conference Day 3 8:30 Registration Desk Open 9:00-18:30 Scientific Sessions 1Conference Day 3 8:30 Registration Desk Open 9:00-18:30 Scientific Sessions 1Cosing CeremonySaturday, July 21Conference Cavrs		
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Thursday, July 27 Departure from Sweden		
	Thursday, July 27	Departure from Sweden

About Estonia

Estonia is located in northern Europe between Finland, Russia, Latvia and Sweden. With an area of 45,000 km² 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 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: <u>https://estonia.ee</u>, <u>https://www.visitestonia.com</u>.

Estonia is a member of the European Union, NATO, the OECD, and the Schengen Visa Area. We use euros (€), and card payments are accepted almost everywhere.

To Tallinn

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: <u>https://www.visitestonia.com/en/travel-here-around/travel-to-estonia</u>

Travel in Tallinn

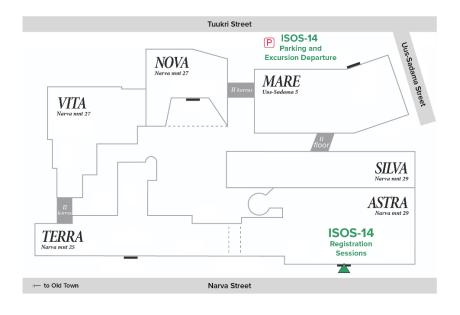
Generally, Tallinn has good public transport system (for downloadable maps, see <u>https://visittallinn.ee</u>). Bolt is a convenient taxi platform (download a mobile app: <u>https://bolt.eu/en-ee/</u>). Prices vary, but from the Airport to the City Center regular price would be 5-10 Euros.

NB! Due to road construction in the city centre, some streets are closed and traffic jams may occur.

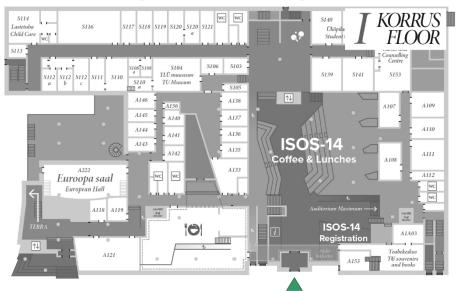
Conference venue

The scientific sessions will take place at the Astra Building of Tallinn University, located in Tallinn City Centre (address: <u>Narva mnt 29</u>), within walking distance from the historic Old Town, hotels, restaurants, and the Baltic Sea.

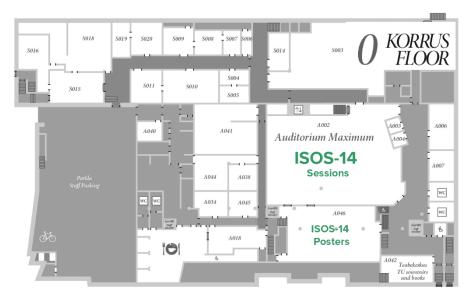




Tallinn University Astra/Silva Building, 29 Narva Street



Entrance from Narva Street



Accommodation

Various hotels and other types of accommodation are available in Tallinn, ranging from ca €50 to above €250 per room per night. Check, for instance, <u>https://booking.com</u> and <u>https://www.airbnb.com.ee</u>.

Registration and Icebreaker

The registration desk at the conference venue, <u>Astra Building, Tallinn University, Narva mnt 29</u>, Tallinn (check the maps above), will be opened at 14:00 on July 18, 2023. It will remain open throughout the scientific sessions.

The Icebreaker will take place at the same location (<u>Astra Building, Narva mnt 29</u>) from 18:00 to 21:00 on July 18, 2023.

Conference Dinner

The conference dinner will take place at 19:00 on July 20, in Restaurant Ocean 11, located in the Port of Tallinn Cruise Terminal, <u>Logi 4/2</u> (within walking distance from the Conference Venue). Those who have paid the fee will receive a Dinner Coupon.

Accompanying persons programme

Spouse activities are organised for the period of scientific sessions and, if necessary, during the field excursion. Please get in touch with Helle Pohl-Raidla (<u>helle.pohl-raidla@taltech.ee</u>) to tell her about your specific interests and wishes.

Short papers and abstracts

The conference volume of short papers and abstracts has already been published in the <u>Estonian</u> <u>Journal of Earth Sciences</u>, a Scopus-indexed Open Access journal. All contributions have a DOI identifier and are openly accessible on the journal website according to Creative Commons Attribution (CC BY) licence. Short papers are or will be, indexed in Google Scholar, Scopus and Web of Science.

The full conference volume (ca 100 MB) can be downloaded at: https://kirjandus.geoloogia.info/reference/47403

Presentations

Oral presentations are limited to 20 minutes, and **keynote talks** to 40 minutes, including questions. Slides should be prepared in MS PowerPoint (.ppt, .pptx), pdf or Apple Keynote formats. It is advisable to also bring a pdf copy just in case. **NB! Please use a widescreen format (16:9) for your slides!**

Presentation files should be delivered to the organisers during on-site registration. Alternatively, send a link to your presentation (uploaded to a file-sharing service such as Google Drive, MS OneDrive, WeTransfer etc) via e-mail to: <u>isos14@ut.ee</u>. Technical assistance will be available during

the sessions. Please let us know ASAP if you have any special needs regarding presentation software or file formats.

Posters will be displayed during the entire conference and presented during the poster session. Please prepare your poster in **A0 format**, in portrait orientation.

It is possible to have your poster printed in Tallinn and delivered to the conference venue by the organisers. Printing usually costs ca \leq 20, depending on speed and paper type. Please contact the printing office at the TalTech campus for further information and orders: <u>akadeemia@koopia.ee</u>.

NB! In case you would not like your slides or poster presentation to be photographed, please mark them clearly with the "No Photo" icon.

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

The 4-days excursion will focus on the Ordovician succession of northern and central Estonia. Please note that participants are responsible for arranging accommodation for the entire period of the excursion in Tallinn.

The stops to be visited include coastal cliffs exposing the 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 repository and study facility.

Weather conditions during the excursion may vary from rainy 15°C to sunshine 30°C. It may be windy in coastal outcrops. Moderate walking (1 km) is planned at some stops. Rigid shoes are recommended.

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

Excursion bus will depart every day at 8.30 from TalTech main building (<u>Ehitajate tee 5, Tallinn</u>) parking lot and at 9.00 from the Tallinn University Mare building (<u>Uus-Sadama 5, Tallinn</u>) parking lot, located by the Tuukri Street, next to the conference venue (see the map above).

Schedule:

Day 1 (Saturday, July 15)

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

Day 2 (Sunday, July 16)

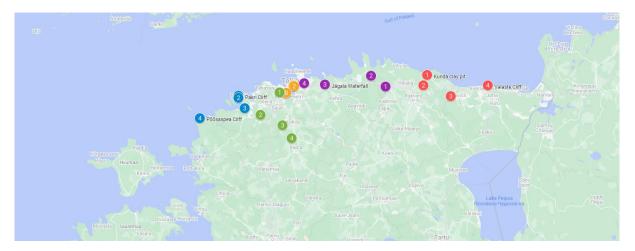
- Harku quarry (Darriwilian limestones)
- Vasalemma quarry (Sandbian-Katian limestones with organic build-ups)
- Sutlema quarry (Katian lime-mudstones)
- Reinu quarry (latest Katian to earliest Rhuddanian limestones)

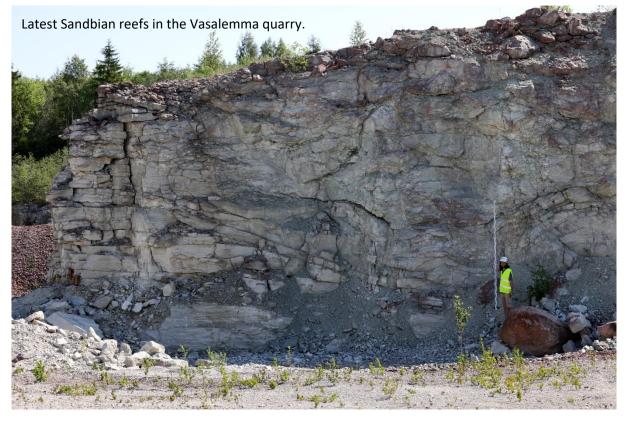
Day 3 (Monday, July 17)

- Optional: Kunda clay quarry (Terreneuvian clay)
- Kunda-Aru quarry (Darriwilian limestones)
- Põhja-Kiviõli opencast mine (Sandbian limestones and kukersite oil-shale)
- Ontika-Valaste cliff (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 NW, central and southern Estonia)
- Optional: Nõmmeveski riverbank (Tremadocian to Darriwilian siliciclastics and carbonates)
- Jägala waterfall (Tremadocian to Darriwilian siliciclastics and carbonates)
- Optional: Iru outcrop (Tremadocian sandstones with shelly phosphorite)





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

The 4-days excursion will focus on the Ordovician successions of Västergötland (southwest of Sweden) and the Siljan district (central Sweden). The excursion will start from Uppsala. Please note that participants are responsible for arranging accommodation for the night before the excursion (July 22 to 23) and the day/days following the excursion (from July 26 onwards). A variety of hotels and other types of accommodation is available at https://booking.com with a price range from €50 to €200 per night.

The field trip to Västergötland (two days) will include Mt Kinnekulle with the condensed Middle Ordovician limestone succession, and the Hirnantian at Mt Billingen. Some highlights in the Siljan District (two days) include type sections for several of the Swedish Ordovician units and the famous Boda Limestone carbonate mounds.

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 (TalTech)
- Oive Tinn, Secretary (University of Tartu)
- Leho Ainsaar (University of Tartu)
- Tavo Ani (Geological Survey of Estonia)
- Markus Maido (Geological Survey of Estonia)
- Peep Männik (TalTech)
- Helje Pärnaste (TalTech)
- Marko Kabel (Geological Survey of Estonia)
- Ursula Toom (TalTech)
- Karin Truuver (Estonian Museum of Natural History)
- Jan Ove R. Ebbestad (Museum of Evolution, Uppsala University, Sweden)

Important numbers and locations

E-mail and phone:

Website: https://isos14.org, general e-mail: isos14@ut.ee

- Oive Tinn (Conference Secretary): +372 53 33 15 56, oive.tinn@ut.ee
- Tõnu Meidla (Chairman of the Organising Committee): +372 514 4504, tonu.meidla@ut.ee
- Olle Hints (pre-conference excursion): +372 51 30 157, olle.hints@taltech.ee
- Jan Ove Ebbestad (post-conference excursion): jan-ove.ebbestad@em.uu.se

The universal emergency number in Estonia and all of Europe is 112.

The conference venue, Registration and Icebreaker:

Astra Building of Tallinn University, Narva mnt 29, Tallinn

Conference Dinner

Restaurant Ocean 11, Port of Tallinn Cruise Terminal, Logi 4/2, Tallinn

Excursion departure

- The parking lot of Mare Building of Tallinn University, Uus-Sadama 5, Tallinn
- The parking lot of TalTech Main Building, Ehitajate tee 5, Tallinn

14th International Symposium on the Ordovician System Scientific Programme



Project 735

Wednesday, July 19, 2023

8:00		Registration desk open, hanging posters, uploading presentations etc.
9:00	9:20	Opening Ceremony
		Session 1: Ordovician of the World
9:20	10:00	David A.T. Harper, Tõnu Meidla and Thomas Servais: The Ordovician System: From
		overlapping unit stratotypes to Global Stratotype Sections and Points (Keynote)
10:00	10:20	Yong Yi Zhen and Ian G. Percival: Ordovician stratigraphy of the Junee–Narromine Volcanic
		Belt in central New South Wales, Australia: conodont studies and regional correlations
10:20	10:40	Cristiana J.P. Esteves, Patrick I. McLaughlin, Alyssa M. Bancroft, Thomas W. Wong Hearing,
		Mark Williams, Jahandar Ramezani, Poul Emsbo and Thijs R.A. Vandenbroucke: Upper
		Ordovician chronostratigraphic correlation between the Appalachian and Midcontinent basins
10:40	11:00	Carolina Zabini, Lívia Rodrigues, Fernando Lavié, Ana Beatriz Furtado Carvalho, Enrique
		Alberto Randolfe, Juan José Rustán, Francisco Arouca, Ana Laura Silva Gomes, Rodrigo Adôrno,
		Matheus Denezine, Dermeval A. do Carmb and Mário L. Assine: A summary of the Brazilian
11.00	44.20	Paraná Basin Ordovician
11:00	11:30	COFFEE & TEA Session 2: Ordovician of Baltica
11:30	11:50	Tõnu Meidla, Leho Ainsaar, Olle Hints and Sigitas Radzevičius: Recent advances in the
44.50	12.10	Ordovician stratigraphy of the Baltic Palaeobasin and Tornquist margin of Baltica
11:50	12:10	Svend Stouge , Gabriella Bagnoli, Carmen Bauert, Heikki Bauert and Christian M.Ø. Rasmussen:
		The detailed Middle to early Late Ordovician faunal succession and $\delta^{13}C_{carb}$ chemistry of the
		Kårehamn drill core, offshore eastern Öland, Sweden: implications for stratigraphy and correlation
12:10	12:30	Tõnn Paiste, Peep Männik, Svend Stouge and Tõnu Meidla: Towards a revised Sandbian
12.10	12.50	conodont biozonation of Baltica
12:30	12:50	Leho Ainsaar and Tõnu Meidla: Age of the Ordovician sedimentary succession in Lumparn Bay,
12.00	12.50	Åland Islands, Finland
12:50	13:10	Andrej Ernst: Ordovician Bryozoa of Estonia
13:10	14:00	LUNCH
		Session 3: Ordovician of China
14:00	14:40	Yuandong Zhang, Renbin Zhan, Yongyi Zhen, Wenhui Wang, Yan Liang, Xiang Fang, Rongchang
		Wu, Kui Yan, Junpeng Zhang and Wenjie Li: Ordovician geology and stratigraphy of China: A
		synthesis (Keynote)
14:40	15:00	Rongchang Wu, Fangyi Gong, Mikael Calner, Jianbo Liu, Oliver Lehnert, Xiaocong Luan,
		Guanzhou Yan, Lixia Li and Renbin Zhan: High-resolution carbon isotope stratigraphy of the
		Lower and Middle Ordovician succession of the Yangtze Platform, China
15:00	15:20	Zhongyang Chen, Wenjie Li, Xiang Fang, Chao Li, Clive Burrett, Mongkol Udchachon and
		Yuandong Zhang: Ordovician conodonts from the Ban Tha Kradan area, Western Thailand
15:20	15:40	Qing Chen and Linna Zhang: Biogeographic dynamics of graptolite species during the end
		Ordovician mass extinction in South China
15:40	16:20	POSTERS, TEA & COFFEE
		Session 4: Regional aspects
16:20	16:40	J. Javier Álvaro and Blanca Martínez-Benítez: Advances in the Lower Ordovician of the western
16.40	47.00	Iberian Chain, NE Spain
16:40	17:00	Sean Davis, Frank R. Ettensohn and William M. Andrews: Using 3-D Mapping to understand an
		Upper Ordovician buildup and facies complex in the upper Lexington Limestone, central
17:00	17:20	Kentucky, U.S.A. Björn Kröger, Andrej Ernst, Amelia Penny, Hans Arne Nakrem and Ursula Toom: Diversity and
17.00	17.20	spatial turnover of bryozoan assemblages in the reefs of the Vasalemma Formation (Late
		Ordovician), Estonia
17:20		Ordovician, Estoma Ordovician Subcommission Business Meeting and book presentation
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Thursday, July 20, 2023

8:30		Registration desk open, uploading presentations etc.
		Session 5: Late Ordovician extinction
9:00	9:40	Christian M.Ø. Rasmussen: The Late Ordovician extinction conundrum (Keynote)
9:40	10:00	Audrey Morrison, Amy Lefebvre, Ariel Van Patter, Alyssa Davis, Nigel Blamey, Jisuo Jin, Sylvia
		Riechelmann and Uwe Brand: Drivers of the Late Ordovician Mass Extinction: redox, volcanism,
		atmospheric oxygen/carbon dioxide and/or glaciation
10:00	10:20	Patrick I. McLaughlin, Thijs R.A. Vandenbroucke, Cristiana J.P. Esteves, Alyssa M. Bancroft,
		Timothy R. Paton, Carlton E. Brett, Mark Williams and Poul Emsbo: The late Katian Elkhorn
		event: precursor to the Late Ordovician mass extinction
10:20	10:40	Joshua B. Zimmt, Steven M. Holland, Mariko Cappello, David S. Jones, Jisuo Jin, Jon M. Husson,
		Blair Schoene, Charles Mitchell, Michael Melchin, Seth Finnegan and André Desrochers: An
		integrative biostratigraphic, chemostratigraphic, and sequence stratigraphic perspective of the
10.40	11.00	Ordovician-Silurian boundary on Anticosti Island (Canada)
10:40	11:00	Olle Hints and Petra Tonarová : A diverse Hirnantian scolecodont assemblage from northern Estonia and resilience of polychaetes to the end-Ordovician mass extinction
11:00	11:30	COFFEE & TEA
11.00	11.50	
44.20	14 50	Session 6: Basins, palaeogeography & evolution
11:30	11:50	Frank R. Ettensohn and Gustavo Martins: Tectonic, foreland-basin origins of Upper Ordovician
11:50	12:10	black gas shales in the Appalachian Basin of eastern United States
11.50	12.10	Juwan Jeon, Jeong-Hyun Lee, Stephen Kershaw, Zhong-Yang Chen, Jun-Ye Ma, Kun Liang and Yuan-Dong Zhang: The earliest known stromatoporoid and its contribution to reef construction
12:10	12:30	Fan Liu, Christian B. Skovsted, Timothy P. Topper, Yue Liang and Zhifei Zhang : The
12.10	12.50	morphological disparity, ecological evolution and palaeobiogeography of Palaeozoic hyoliths
12:30	12:50	Yan Kui, Thomas Servais, Huang Bin, Li Jun and Shan Longlong: Global palaeogeographical
		implication of acritarchs in the Upper Ordovician
12:50	13:10	Anna McGairy, Christopher P. Stocker, Mark Williams, Phong Duc Nguyen, Thomas H. P.
		Harvey, Toshifumi Komatsu and Dayou Zhai: An Ordovician ostracod palaeopsychrosphere?
13:10	14:00	LUNCH
		Session 7: Ordovician palaeontology
14:00	14:20	Jana Bruthansová, Petr Kraft and Jirí Bruthans: Subway into the Ordovician (Prague Basin,
		Czech Republic)
14:20	14:40	Petr Kraft and Jana Bruthansová: Preservation of fossils in the Šárka Formation (Darriwilian,
		Czech Republic)
14:40	15:00	Martina Aubrechtová and Vojtech Turek: Three-dimensionally preserved siphuncle in an
		actinoceratid cephalopod from the late Katian of Bohemia
15:00	15:20	Martina Nohejlová, Christophe Dupichaud, Bertrand Lefebvre, Elise Nardin and Farid Saleh:
		Echinoderm Lagerstätten from high-latitude Gondwana – filling the gap in the Ordovician
15.20	15.40	diversification of the phylum Mile Paich: Where are all the Ordevision see sucumbers (Eshinodermata)?
15:20 15:40	15:40 16:20	Mike Reich: Where are all the Ordovician sea cucumbers (Echinodermata)? POSTERS, TEA & COFFEE
13.40	10.20	
46.00	10.10	Session 8: Ordovician brachiopods
16:20	16:40	David A.T. Harper: The Irish Ordovician brachiopod fauna: A taxonomic renaissance
16:40	17:00	Lars E. Holmer, Leonid E. Popov, Mansoureh Ghobadi Pour, Liang Yue and Zhifei Zhang:
17.00	17:20	Siphonotretoid brachiopods - a thorny problem
17:00	17:20	Yue Liang, Luke C. Strotz, Timothy P. Topper, Lars E. Holmer, Graham E. Budd, Yanlong Chen, Ruisen Fana, Yazhou Hu and Zhifei Zhang: When lingulid brachiopods become infaunal(?) –
		perspectives from the morphological and anatomical information
17:20	17:40	Jorge Colmenar, Juan Carlos Gutiérrez-Marco and César Augusto Chacaltana: Lower-Middle
_/0		Ordovician brachiopods from the Eastern Cordillera of Peru: biostratigraphical and
		palaeobiogeographical significance
17:40		IGCP 735 Business Meeting
19:00		Conference Dinner

Friday, July 21, 2023

8:30		Registration desk open, uploading presentations etc.
		Session 9: Ordovician palaeobotany and microfossils
9:00	9:40	Paul K. Strother: An evo-devo perspective on no Ordovician land plants (Keynote)
9:40	10:00	Charles H. Wellman, Cameron R. Penn-Clarke, Claire Browning: Early land plant remains from
		the uppermost Ordovician-?lowermost Silurian Cedarberg Formation of South Africa
10:00	10:20	Claudia V. Rubinstein and Vivi Vajda: Middle-Late Ordovician organic-walled phytoplankton
		from Sweden: diversity and early radiation
10:20	10:40	Yan Liang, Olle Hints, Jaak Nõlvak and Peng Tang: On future directions of Ordovician
40.40	11.00	chitinozoan research
10:40	11:00	Sonia Camina, Olle Hints and Anthony Butcher: Chitinozoan nomenclature and databases
11:00	11:30	COFFEE & TEA
		Session 10: GOBE
11:30	11:50	Birger Schmitz and Fredrik Terfelt: The breakup of the L-chondrite parent body 466 Ma and its
11.50	12.10	terrestrial effects – a search for a mid-Ordovician biodiversity event
11:50	12:10	Alycia L. Stigall, Shaolin M. Censullo, Sarah A. Hennessey, Jennifer E. Bauer, Adriane R. Lam, and David F. Wright: Diversification and speciation among Laurentian brachiopods during the
		GOBE: insights from basinal and regional analyses
12:10	12:30	M. Gabriela Mángano , Luis A. Buatois, Beatriz G. Waisfeld, Diego F. Muñoz, N. Emilio Vaccari
		and Ricardo A. Astini: Trilobite expansion into estuarine environments during the Ordovician
		radiation
12:30	12:50	Ernesto E. Vargas-Parra and Melanie J. Hopkins: Phylogeny and evolutionary modularity of a
		trilobite family over the Ordovician radiation
12:50	13:10	Luis A. Buatois, M. Gabriela Mángano, Maximiliano Paz, Nicholas J. Minter and Kai Zhou: The
		ichnologic signature of deep-sea colonization during the Ordovician radiation
13:10	14:00	
		Session 11: Isotopes and geochemistry
14:00	14:20	Peep Männik, Oliver Lehnert and Michael M. Joachimski: Ordovician climate changes in the
14.20	14.40	northern subtropics: The δ^{18} O record from the Tunguska Basin, Siberia
14:20	14:40	Alicja Wudarska, Michael Wiedenbeck, Olle Hints, Peep Männik, Aivo Lepland, Michael M. Joachimski, Frédéric Couffignal, Maria Rosa Scicchitano and Franziska D.H. Wilke: Oxygen
		isotope compositions of conodonts – analytical challenges of in situ SIMS studies
14:40	15:00	Imre Andreas Martin, Leho Ainsaar and Aivo Lepland: Palaeozoic carbon isotope excursions
	20100	and carbonate component analysis
15:00	15:20	Mawo Ndiaye, Merlin Liiv, Toivo Kallaste, Sophie Graul and Rutt Hints: Nitrogen and organic
		carbon isotope record in Tremadocian highly metalliferous black shales from Baltica
15:20	15:40	Sophie Graul, Toivo Kallaste, Marko Moilanen, Mawo Ndiaye and Rutt Hints: Early diagenetic
		transformation stages revealed by micro-analytical studies of shelly phosphorites, Rakvere
45.40	16.20	Region
15:40	16:20	POSTERS, TEA & COFFEE
		Session 12: Events, faunas and scientometrics
16:20	16:40	Timothy Paton, Patrick McLaughlin, Poul Emsbo, Thijs R.A. Vandenbroucke and Carlton Brett:
10.40	17.00	Upper Ordovician hardgrounds - from localized surfaces to global biogeochemical events
16:40	17:00	Ursula Toom , Jukka Kuva and Dirk Knaust: Ichnogenus <i>Trypanites</i> in the Ordovician of Estonia (Baltica)
17:00	17:20	Lixia Li and Joachim Reitner: A remarkable new halichondrid demosponge, <i>Ptilospongia</i>
17.00	17.20	hemisphaeroidalis, from the latest Ordovician Beigong Biota, South China
17:20	17:40	Yukio Isozaki: Coupled extinction-regression episodes revisited in mid-oceanic settings for
		comparative extinction study during the Palaeozoic in view of non-bolide extraterrestrial
		causes
17:40	18:00	Alysson Mazoni, Rodrigo Costas and Carolina Zabini: Ordovician scientometrics
18:00		Closing Ceremony

Poster Presentations

- 1. **Mariana Vilela de Andrade** and Alycia L. Stigall: Developing a phylogenetic framework for tiny Ordovician brachiopods (Atrypida: Anazyginae and Catazyginae) from the eastern United States
- 2. Galyna Anfimova and **Volodymyr Grytsenko**: The Ordovician collections stored at the National Museum of Natural History NAS of Ukraine
- 3. Jana Bruthansová and Petr Kraft: Ordovician conulariid monospecific assemblages (Czech Republic, Morocco)
- 4. Gisella M. Della Costa and Guillermo L. Albanesi: The Evae transgression: A major event?
- 5. Liting Deng, Ming Li and Mo Huang: Darriwilian (Middle Ordovician) graptolites from northern margin of the Qaidam Basin (Qinghai, China)
- 6. Christophe Dupichaud, **Bertrand Lefebvre** and Martina Nohejlová: Solutan echinoderms from the Lower Ordovician of the Montagne Noire (France): new data and palaeobiogeographic implications
- 7. **Rao Fu**, Yue Liang, Lars E. Holmer, Yutong Lu, Yi Xiang, Yazhou Hu and Zhifei Zhang: Late Ordovician gastropods from the Zhaolaoyu Formation in the southwestern margin of the North China Platform
- 8. **Pauline Guesner**, Martina Nohejlová, Elise Nardin and Bertrand Lefebvre: A methodological scheme to analyse the early Palaeozoic biodiversification with the example of echinoderms
- 9. Linda Hints and Jaak Nõlvak: Latest Sandbian brachiopods and chitinozoan biostratigraphy in North Estonia
- 10. Yazhou Hu, Luke C. Strotz, Dirk Knaust, Jiayue Wang, Yue Liang and **Zhifei Zhang**: Distinguishing borings and burrows in intraclasts
- 11. Ming Li, Pengju Liu, Lixia Li and Liting Deng: Tremadocian (Ordovician) reclined graptolites from Baishan, North China
- 12. Qijian Li, Lin Na, Shenyang Yu, **Oliver Lehnert**, Axel Munneck and Yue La: Late Ordovician beachrock as a farfield indicator for glacial meltwater pulse
- 13. **Fernando E. Lopez**, Gladys Ortega, Guillermo L. Albanesi and Aldo L. Banchig: New contributions to the Ordovician biostratigraphy of the Western Precordillera, Argentina
- 14. **Monika Luptáková** and Petr Kraft: Impoverished fossil association in the lowermost Sandbian of the Prague Basin (Czech Republic)
- 15. **Peep Männik** and Jaak Nõlvak: Boundary between the Porkuni and Juuru regional stages in the Neitla section, Estonia
- 16. **Tõnu Meidla**, Olle Hints and Leho Ainsaar: Searching for the Ordovician-Silurian boundary in Estonia, Latvia and Lithuania
- 17. Lucy A Muir and Juan Carlos Gutiérrez-Marco: A new species of the problematic organism *Webbyites* from the Early Ordovician Fezouata Biota of Morocco
- 18. Johann Müller, Michael Joachimski, **Oliver Lehnert**, Peep Männik and Yadong Sun: Changes in shelf phosphorus burial during the Hirnantian glaciation and its implications
- 19. Jaak Nõlvak, Yan Liang and Olle Hints: Latest Ordovician age of the *Spinachitina fragilis* Chitinozoan Biozone in Baltoscandia
- 20. Helje Pärnaste, Ursula Toom and Leonid Popov: The earliest Ordovician trace fossils *Cruziana* and *Rusophycus* from Baltica
- 21. Maxime Renaud, **Bertrand Lefebvre**, Denis Bailliot, Marie-Noëlle Bailliot, Sophie Coat, Christian Gaudu and Muriel Vidal: First report of the mitrate *Mitrocystella* (Echinodermata, Stylophora) in the Middle Ordovician of the Crozon Peninsula, Brittany (France)
- 22. Dulce Raquel Reyes-Montoya, Francisco Javier Cuen-Romero, Pilar Navas-Parejo, Nohemí Gámez-Meza, Juan José Palafox-Reyes and **Juan Carlos Gutiérrez-Marco**: Early Tremadocian graptolites from the Arivechi area, Sonora, northern Mexico
- 23. **Petra Tonarová**, Thomas J. Suttner, Michal Kubajko and Olle Hints: Late Ordovician jawed polychaete fauna from Spiti Valley, northern India
- 24. **Olev Vinn**, Kenneth De Baets, Mare Isakar and Ursula Toom: Parasite-induced shell damage in brachiopod *Porambonites (Porambonites) laticaudata* from the Late Ordovician (Sandbian) of Estonia
- 25. **Chuanshang Wang** and Yong Hu: Distribution pattern of the Ordovician black shale constrained by graptolite zonation in the western margin of the Ordos Block, North-West China
- 26. **Zhifei Zhang**, Yue Liang, Fan Liu and Yazhou Hu: Reconstruction of the first animal consumer-driven marine ecosystem on Earth, perspectives from early Cambrian small skeletal fossils from China