

# XI Baltic Stratigraphical Conference

August 19–21, 2024: Tartu and Arbavere, Estonia

## Scientific Programme

as of August 16, 2024

August 19, 2024		Scientific sessions in Tartu
9:00	9:20	<b>Opening of the conference</b> <b>SESSION 1: Devonian and Silurian, Chair: Tõnu Meidla</b>
9:20	9:40	<b>Ervīns Lukševičs</b> 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	<b>Valters Alksnītis</b> : 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	<b>Tatjana Visotina</b> and Ervīns Lukševičs: Morphometric analysis of the Late Famennian <i>Holoptychius</i> (Sarcopterygii, Porolepiformes) from the Ketleri Formation, Latvia
10:20	10:40	<b>Nurlan Talibov</b> and Donatas Kaminskas: Porosity Characterization of the Silurian Succession in Middle Lithuania: A Comparative Analysis
10:40	11:00	Donatas Kaminskas, Andrej Spiridonov and <b>Donatas Kudžma</b> : Depositional environments of the Šilalė Event (early Pridoli, Silurian) in Milaičiai 103 core section, Lithuania
11:00	11:20	COFFEE & TEA <b>SESSION 2: Silurian, Chair: Ervīns Lukševičs</b>
11:20	11:40	<b>Peep Männik</b> , Tõnu Meidla and Olle Hints: Silurian stratigraphy in Estonia: Recent developments and challenges
11:40	12:00	<b>Sigitas Radzevičius</b> , 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	<b>Adam T. Halamski</b> : Wenlock brachiopods from boreholes in eastern Poland
12:20	12:40	<b>Oliver Lehnert</b> , 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	<b>Oive Tinn</b> , Kelly Kittus, Kärt Luik and Daria Panasiuk: Kalana Lagerstätte: expansion of stratigraphic ranges and palaeobiological data
13:00	14:00	LUNCH <b>SESSION 3: Ordovician, Chair: Christian M.Ø. Rasmussen</b>
14:00	14:20	<b>Ogechukwu Ann Moghalu</b> , Olle Hints and Ursula Toom: Trace fossils from the Ordovician-Silurian boundary beds of Estonia (Baltica)
14:20	14:40	<b>Imre Andreas Martin</b> , 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	<b>Ursula Toom</b> , Björn Kröger, Dirk Knaust, Ogechukwu A. Moghalu, Dominik Vöröš and Stanislava Vodrážková: Evolution of a Katian tropical hardground
15:00	15:20	<b>Tõnn Paiste</b> , Peep Männik, Svend Stouge, Leho Ainsaar and Tõnu Meidla: Sandbian-lower Katian conodont correlation of Baltoscandian Basin
15:20	15:40	<b>Thibaud Liefroy</b> , 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
<b>SESSION 4: Ordovician, Chair: Sigitas Radzevičius</b>		
16:00	16:20	<b>Christian M.Ø. Rasmussen</b> , 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	<b>Lars Holmer</b> , 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	<b>Donatas Kudžma</b> , 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	<b>Tõnu Meidla</b> , Leho Ainsaar, Olle Hints and Sigitas Radzevičius: On the integrated regional Ordovician correlation charts of Estonia, Latvia and Lithuania
BRIEF INFORMATION		
17:20	18:00	<b>POSTER SESSION, Chair: Leho Ainsaar</b>
		<b>Jana Bruthansová</b> , Petr Kraft, Ursula Toom and Martina Havelcová: Sea grasses/meadows in the Ordovician and Silurian of Estonia
		<b>Linda Hints</b> , 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
		<b>Tomasz Janczylik</b> , Sigitas Radzevičius, Maria Wojcieszak and Bartosz Glinka: Ordovician trilobite fauna from erratic boulders from northern Poland
		<b>Reet Männik</b> , 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
		<b>Sigitas Radzevičius</b> , 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)
		<b>Simona Rinkevičiūtė</b> , Liudas Daumantas, Sigitas Radzevičius and Andrej Spiridonov: Analysing Mulde Event Dynamics with Ultra-High-Resolution Ostracod Paleocommunity Analysis
		Juwan Jeon and <b>Ursula Toom</b> : First aulaceratid stromatoporoid from Baltica
		<b>Tomas Želvys</b> , 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

<b>August 20, 2024</b>		<b>Mid-conference Excursion</b>
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

<b>August 21, 2024 Scientific session and workshop at Arbavere Research Center</b>		
<b>SESSION 5: Cambrian and Precambrian, Chair: Olle Hints</b>		
9:00	9:20	<b>Oliver Lehnert</b> , Bjarne Almqvist, 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	<b>Alla Shogenova</b> , Kazbulat Shogenov, Saulius Sliupa, Rasa Sliapiene, Argo Jõelet and Aleksandrs Zajacs: Cambrian Deimena Regional Stage sandstones – the oldest and most prospective geothermal reservoir in the Baltic Basin
9:40	10:00	<b>Helje Pärnaste</b> : The Lower Cambrian Trilobite Zonation of Estonia
10:00	10:20	<b>Dmitrijs Vorobjovs</b> 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	<b>Siim Nirgi</b> and Alvar Soesoo: Geology and geochronology of the Estonian Precambrian basement
10:40	11:00	COFFEE & TEA
<b>SESSION 6: From digital twins to practical lithostratigraphy, Chair: Ursula Toom</b>		
11:00	11:20	<b>Olle Hints</b> , Mare Isakar and Ursula Toom: Geoscience collections and data services in Estonia: current state and perspectives
11:20	11:40	<b>Ivo Sibul</b> , Andres Kasekamp and Hanno Kuus: Geo3D strategy in the Estonian Land Board: national digital twin from a geological perspective
11:40	12:00	<b>Tavo Ani</b> and Tõnu Meidla: Brief history of lithostratigraphic work at the Geological Survey of Estonia
12:00	13:00	<b>Baltic Stratigraphical Association business meeting</b>
13:00	14:00	LUNCH
14:00	17:00	<b>Tour in the Arbavere Center and Drill core workshop</b>
17:00		Departure to Tallinn / Tartu

