



UNIVERSITY OF LATVIA
**FACULTY OF
GEOGRAPHY AND
EARTH SCIENCES**



**80th International Scientific
Conference of the
University of Latvia 2022**

Applied Geology, Quaternary Geology and Geomorphology

Lietiškā ģeoloģija, kvartārģeoloģija un ģeomorfoloģija

Friday, 04 February 2022, 09.00 AM, online

ZOOM: <https://lu-lv.zoom.us/j/96660275699?pwd=OVJ0Mkh6ZldlPQnAzOUV1UHRMQTN0dz09>
Meeting ID: 966 6027 5699
Passcode: Quaternary

Programme

9.00–9.05	Opening: Kristaps Lamsters	
Quaternary geology and geomorphology. Chair: Kristaps Lamsters		
9.05–9.40	Piotr Weckwerth, Nicolaus Copernicus University in Toruń, Poland	Keynote presentation: Morphological and sedimentological responses to floodwater dynamics along glacial lake-outburst flood pathways in NE Poland
9.40–10.00	Małgorzata Frydrych, Zbigniew Rdzany, University of Łódź, Poland	Erosional and depositional structures in channels of glacial floods on the examples from central Poland
10.00–10.20	Edyta Kalińska, Nicolaus Copernicus University in Toruń, Poland	Recent advances in luminescence dating of the Late Quaternary sediments in the Baltic States, Northern Europe: a review
10.20–10.40	Karol Tylmann, University of Gdańsk, Poland	Age of the Pomeranian moraines across the European Lowlands inferred from cosmogenic ¹⁰ Be dating
10.40–11.00	Violeta Pukelytė, Nature Research Centre, Lithuania	Formation peculiarities of the North and Middle Lithuanian plains
11.00–11.20	Juris Soms, Daugavpils University, Latvia	New data on granulometric composition of Quaternary sediments and morphology of the Numernes ridge
11.20–11.30	Coffee break, discussions	
Paleoecology and environmental dynamics. Chair: Normunds Stivrīņš		
11.30–11.50	Neringa Gasteviciene, Nature Research Centre, Lithuania	The Lateglacial and early Holocene climate dynamics based on the Chironomidae study of the north Lithuania and central Belarus
11.50–12.10	Normunds Stivrins, University of Latvia	Indicative value and training-set of freshwater non-pollen palynomorphs
12.10–12.30	Agne Venckute-Aleksiene, Nature Research Centre, Lithuania	The dynamics of the microphytoplankton of the Silurian and the response of paleocommunities to ocean events

12.30–12.50	Edijs Breijers, University of Latvia	Dynamics of the shores of the ancient Ventspils lagoon in the early and middle Holocene
12.50–13.10	Dmitrijs Poršņovs, University of Latvia	Biomonitoring of Environmental Pollution Near the Acid Tar Lagoon in Inchukalns (Central Latvia)
13.10–14.00	Discussions and lunch	
Geophysics and GIS. Chair: Jānis Karušs		
14.00–14.20	Jurijs Ješkins, University of Latvia	Dynamical characteristics of Waldemaarbeen glacier, obtained from UAV surface-from-motion photogrammetry
14.20–14.40	Jānis Karušs, University of Latvia	Thermal structure of Irenebreen glacier, NW Svalbard
14.40–15.00	Kristina Kučinskaite, University of Copenhagen, Denmark	Multidepth Threshold Approach for Mapping Karst Sinkholes in Skaistkalne, Latvia
15.00–15.20	Matīss Brants, University of Latvia	Developing a geophysical model of Strenči magnetic anomaly
15.20–15.40	Pēteris Džeriņš, University of Latvia	Geophysical investigation of recent sinkhole in Salaspils
15.40–15.50	Discussions	
Master's student session (in Latvian). Chair: Pēteris Džeriņš		
15.50–16.10	Inese Grīnbauma, University of Latvia	Landforms of the Lubāns Ice Lobe in the Adzele Elevated Plain (Lubāna ledus loba veidotās reljefa formas Adzeles pacēlumā)
16.10–16.30	Līga Salmiņa, University of Latvia	Problems in the application of graphical methods for the determination of the soil consolidation coefficient (Grafisko metožu pielietojanas problemātika grunts konsolidācijas koeficienta noteikšanai)
16.30--	Final discussions	