



The Scandinavian Ice Sheet during MIS 3 – a sedimentological journey through Sweden, with a detour into Norway



by **Prof. Helena Alexanderson**
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Helena Alexanderson is a professor at Department of Geology, Lund University, Sweden. As a Quaternary geologist she uses geological archives such as sediment, stratigraphies and landforms to reconstruct the ice age environments and use dating methods such as luminescence dating to find out when different events took place. Her main current research projects concern glacial history and ice age environments in northern Sweden and on Svalbard, and aeolian sand, wind activity and storm surges in Sweden. As head of the Lund Luminescence Laboratory she also does research within luminescence dating and is collaborator in several projects from around the world that use luminescence dating.

Abstract

Our knowledge of the extent of the Scandinavian Ice Sheet during the last glacial cycle has been greatly expanded in the last decades, with improved dating, new mapping and stratigraphic investigations. However, data from the Middle Weichselian Marine Isotope Stage (MIS) 3 interstadial are partly contradictory – indicating both a very small and quite extensive ice sheet. In this talk we will look at some of the evidence from the core area of the ice sheet and what they tell us about the extent and dynamics of the ice sheet: from a former ice margin in northernmost Sweden, through till-covered lake sediments in central Sweden and Norway to thick drumlinised and reworked deposits in southern Sweden.

**The lecture will be given on Thursday, 6th March 2025, at 11:30 am (CET)
Nicolaus Copernicus University in Toruń
Faculty of Earth Sciences and Spatial Management (room III)
Lwowska 1, Toruń, Poland**

This open lecture is a scientific meeting of the Faculty of Earth Sciences and Spatial Management, organised under the IDUB Programme*, Research University, Nicolaus Copernicus University in Toruń.

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