

Accepted projects 2021

Amber Hood – Lund University

Project: OSL dating of museum materials using an improved LA-ICP-MS protocol for internal dose rate determination

Analytical method: trace-element mapping of clay pottery

Andreas Karlsson – Swedish Museum of Natural History

Project: Geochronology of metasomatism and metamorphic overprint of 'classic' Mn-Fe ore deposits in central Sweden

Analytical method: in situ Sr isotopes in calcite

Gunilla Eriksson – Stockholm University

Project: Sacrificed horses

Analytical method: in situ Sr isotopes in teeth

Helena Malmström – Uppsala University

Project: Tracing individual life histories as well as interaction between two Stone Age groups

Analytical method: in situ Sr isotopes in teeth

Markus Fjellström – Oulu University, Finland

Project: Mobility and migration patterns of reindeer in Sápmi. The cases of the Pite Valley from c. 1000 to 1900 CE and Krankmårtenhögen from c. 200 BCE to c. 200 CE

Analytical method: in situ Sr isotopes in teeth

Matthijs Smit – University of British Columbia Vancouver, Canada

Project: Archean crustal evolution from in-situ Sr isotopes in apatite

Analytical method: in situ Sr isotopes in apatite

Wei-Li Hong – Stockholm University

Project: Silicate alteration in marine sediments: in-situ weathering vs. reverse weathering

Analytical method: Si isotopes in solution

Åke Johansson – Swedish Museum of Natural History

Project: U-Pb dating of rocks in the Stockholm archipelago (Ornö huvud and Fjärdlång)

Analytical method: in situ Hf isotopes in zircon

Henrik Drake – Linnaeus University

Project: Using $\delta^{13}\text{C}$, $\delta^{18}\text{O}$ and $\delta^{34}\text{S}$ in vein minerals to trace ancient microbial processes in impact craters and deep mines

Analytical method: in situ Sr isotopes in calcite

Daniel Conley – Lund University

Project: Constraining past variations in the global biogeochemical silica cycle

Analytical method: Si isotopes in solution

Accepted projects 2020

Geert Cornelis – Swedish University of Agricultural Sciences

Project: Measurement of environmental concentrations of engineered nanomaterials in the Thames basin using (LA-)spICPMS for NanoFASE model validation

Analytical method: Au and Ag nanoparticle analysis

Mehis Rohtla – University of Tartu, Estonia

Project: Establishing a methodological framework to assess the functioning of fish spawning grounds

Analytical method: in situ Sr isotopes in otoliths

Rosine Cartier – Lund University

Project: Stable silica isotopes as an indicator of palaeohydrology in Lake Challa

Analytical method: Si isotopes in solution

Petra Zahajska – Lund University

Project: Silica mass balance of Yellowstone Lake, USA and Lake 850, Sweden: factors influencing the formation of diatom-rich sediment using Si isotopes

Analytical method: Si isotopes in solution

Hadi Shafaii Moghadam – GEOMAR Kiel, Germany

Project: Tethyan Subduction and Magmatic “Flare-up”: Frontal versus Back-arc Magmatism in Iran

Analytical method: in situ Hf isotopes in zircon

Henrik Drake – Linnaeus University

Project: Microscale isotope analysis of pyrite and calcite precipitated in deep bedrock fractures and cavities

Analytical method: in situ Sr isotopes in calcite

Mikko Vihtakari – Institute of Marine Research Tromsø, Norway

Project: Otolith chemistry to study ontogenetic migration patterns of Greenland halibut

Analytical method: trace-element mapping of otolith

Tobias Bauer – Luleå Technical University

Project: Time constraints on tectonic-hydrothermal events in the Kiruna area, northwestern Fennoscandian Shield

Analytical method: in situ U-Pb dating of titanite

Gbotemi Adediran – Swedish University of Agricultural Sciences

Project: Revealing the chemometrics and pedosequence of phosphorus in Quaternary forest soils by in-situ, quantitative and multi-elemental LA-ICP-MS imaging

Analytical method: trace-element mapping of soil

Thomas Stevens – Uppsala University

Project: Using zircon U-Pb ages to assess the provenance of high-resolution ¹⁴C dated loess from Dunaszekcső, Hungary

Analytical method: in situ U/Pb dating of zircon

Madeleine Bohlin – Uppsala University

Project: Biogeochemical cycling of nickel in modern and past environments

Analytical method: Ni isotopes in solution

Accepted projects 2019

Adam Boethius – Lund University

Project: Mobility and land use during the Mesolithic in southern Scandinavia

Analytical method: in situ Sr isotopes in teeth

Rosine Cartier – Lund University

Project: Stable silica isotopes as an indicator of palaeohydrology in Lake Challa

Analytical method: Si isotopes in solution

Daniel Conley – Lund University

Project: Investigation of diatom-rich sediment formation

Analytical method: Si isotopes in solution

Geert Cornelis – Swedish University of Agricultural Sciences

Project: Number concentration detection limits and aggregate size of Ag₂S and Au nanoparticles in soils using LA-single particle-ICP-MS

Analytical method: Au and Ag nanoparticle analysis

Kerstin Lidén – Stockholm University

Project: Tracing mobility with high chronologic resolution in prehistoric populations

Analytical method: in situ Sr isotopes in teeth

Matthijs Smit – University of British Columbia Vancouver, Canada

Project: Archean crustal evolution from in-situ Sr isotopes in apatite

Analytical method: in situ Sr isotopes in apatite

Jenny Andersson – Sveriges Geologiska Undersökning

Project: Probing the Precambrian crystalline basement thrust nappes of the south-central Scandinavian Caledonides

Analytical method: in situ U/Pb dating of zircon

Henrik Drake - Linnaeus University

Project: Using $\delta^{13}\text{C}$, $\delta^{18}\text{O}$ and $\delta^{34}\text{S}$ in vein minerals to trace microbial processes and chemical fluctuations in the deep continental biosphere

Analytical method: in situ Sr isotopes in calcite

Åke Johansson – Swedish Museum of Natural History

Project: Cleaning up the record – reanalyzing zircon samples from southwest Sweden and the Protogine zone for U-Pb by SIMS and analyzing them for Lu-Hf by LA-ICP-MS

Analytical method: in situ Hf isotopes in zircon

Valentin Troll – Uppsala University

Project: Characterization and economic evaluation of high Fe-Ti-P magmas of the Bushveld Complex: Implications from geochemistry, mineralogy, in-situ Fe-O isotope pairs of ilmenite and O and Sr-isotope analysis of apatite

Analytical method: in situ Sr isotopes in apatite

Zivile Zigaite – Uppsala University

Project: Palaeoenvironmental triggers of Mesozoic hybodont shark migration and evolution in their marine and non-marine habitats

Analytical method: in situ Nd isotopes in fin spine

Accepted projects 2018

Henry Holmstrand - Stockholm University

Project: S and O isotope constraints on sources of aerosol sulfate and on aerosol ageing, in East and South Asia

Analytical method: S isotopes in solution

Olof Martinsson - Luleå University of Technology

Project: Geochronology of Early Svecofennian arc related volcanic units in northern Norrbotten

Analytical method: in situ U/Pb dating of zircon

Jane Kershaw - University of Oxford, UK

Project: The Sources of Viking wealth

Analytical methods: in situ Pb isotopes and trace elements in silver

Henrik Drake - Linnaeus University

Project: Using strontium isotopes in low-temperature calcite as a tool to distinguish hydrochemical fluctuations in deep bedrock fractures

Analytical method: in situ Sr isotopes in calcite

Geert Cornelis - Swedish University of Agricultural Sciences

Project: Sizing of nanoparticles in soils using LA-single particle-HR-ICP-MS

Analytical method: gold nanoparticle analysis

Weian Sun - Uppsala University

Project: Bulk ^{56}Fe analyses of magnetite (hematite): genetic implications for the iron oxide apatite deposit in Zhonggu ore field, Eastern China

Analytical method: Fe isotopes in solution

Petra Zahajská - Lund University

Project: Mechanisms of diatomite formation in lakes

Analytical methods: Si isotopes in solution

Edward Lynch - Sveriges Geologiska Undersökning

Project: The relation between Mo-mineralised granites of GP-type (Pingstaberg) and W-Cu-F bearing exoskarn at Yxsjöberg and Barnfallet, Bergslagen

Analytical method: in situ Hf isotopes in zircon

Yvette Heimbrand - Swedish University of Agricultural Sciences

Project: Estimating salinities experienced by Baltic cod over their lifetimes using otolith chemistry

Analytical method: in situ Sr isotopes in otoliths

Xiaole Sun - Stockholm University

Project: Post-glacier silicon diagenesis in the Baltic Sea sediments

Analytical method: Si isotopes in solution

Anette Utgård Granseth - Norwegian University of Science and Technology, Trondheim, Norway

Project: Pb isotopes of Mo- and Ni-sulphides in felsic and mafic, Sveconorwegian intrusions

Analytical method: in situ Pb isotopes in sulphides

Chiara Költringer - Uppsala University

Project: Combined U-Pb age and geochemistry of rutile as a provenance tracer on late Quaternary Russian Lower Volga loess

Analytical method: in situ U-Pb dating of rutile

Accepted projects 2017

Helen Coxall - Stockholm University

Project: Mg/Ca in Arctic benthic foraminifera tests using LA-ICP-MS depth profiling

Analytical method: in situ Mg/Ca in foraminifera shells

Arne Bjørlykke - Norges geologiske undersøkelse, Trondheim

Project: The relationship between lead in the Precambrian basement and lead in the overlying Cambrian sediments - a study from the Caledonides

Analytical method: in situ Pb isotopes in feldspar

Sabina Strmic Palinkas - University of Tromsø, Norway

Project: Geodynamic setting of sedimentary exhalative (SEDEX) and volcanogenic massive sulfide (VMS) ore deposits in Nordland, Northern Norway

Analytical methods: in situ U-Pb dating of rutile, Sr isotopes in calcite, Fe isotopes in Fe-oxides and sulfides

Nils Jansson - Luleå University of Technology

Project: REE distribution in fluorapatite from Zinkgruvan, Bergslagen, Sweden

Analytical method: in situ REE in apatite

Mikael Tillberg - Linnaeus University

Project: Provenance of sandstones in the southern Baltic shield

Analytical method: in situ Hf isotopes in zircon

Thomas Stevens - Uppsala University

Project: Tackling the problem of Chinese loess-dust source using Pb-isotopes in K-feldspar

Analytical method: in situ Pb isotopes in feldspar

Karin Högdahl - Uppsala University

Project: U-Pb geochronology and Hf-isotope compositions of the volcanic succession in westernmost Bergslagen: implication for the stratigraphic position of different iron oxide mineralisations and host rock signatures

Analytical methods: in situ U-Pb dating and Hf isotopes in zircon

Edward Lynch - Sveriges Geologiska Undersökning

Project: 4D geological modelling of the Tjärrojjäcka Fe-Cu ± Au deposit, northern Sweden

Analytical methods: in situ U-Pb dating of apatite, titanite & zircon, TE analysis in apatite & magnetite

Zhouling Zhang - Lund University

Project: Processes controlling the silicon isotope distribution in the Baltic Sea - silicon isotopes of Ore River Estuary and pore water in Gotland Basin sediments

Analytical method: Si isotopes in solution

Mehis Rohtla - University of Tartu, Estonia

Project: Otolith $^{87}\text{Sr}/^{86}\text{Sr}$ analyses for fish life-history studies

Analytical method: in situ Sr isotopes in otoliths

Austin Jarl Boyd - University of Copenhagen, Denmark

Project: Zircon ages and Hf isotopic compositions from Isua Supracrustal Belt felsic formation

Analytical methods: in situ U-Pb dating and Hf isotopes in zircon

Hanne-Kristin Paulsen - University of Tromsø, Norway

Project: Metallogeny of the Vannøya island, West Troms Basement Complex (WTBC), Northern Norway

Analytical methods: in situ U-Pb dating of rutile, Sr isotopes in calcite, Fe isotopes in Fe-oxides and sulfides

Kerstin Lidén - Stockholm University

Project: Archaeological strontium analysis

Analytical method: in situ Sr isotopes in teeth

Accepted projects 2016

Ernest Chi Fru - Stockholm University

Project: Trace metal partitioning and Fe isotope fractionation by Fe(III)(oxyhydr)oxides across the Great Oxidation Event

Analytical method: Fe isotopes in solution

Henrik Drake - Linnaeus University

Project: Strontium isotope variation within zoned secondary calcite and barite as a tool to distinguish discrete low-temperature hydrochemical events in deep bedrock fractures

Analytical method: in situ Sr isotopes in calcite

Olof Martinsson - Luleå University of Technology

Project: Vein- and mineralization paragenesis of the Liikavaara Cu-(W) deposit, northern Sweden - a key to its origin

Analytical method: in situ U-Pb dating of zircon

Patrick Frings - Lund University

Project: Silicon isotopes at the Paleocene-Eocene carbon isotope excursion

Analytical method: Si isotopes in solution

Daniel Conley - Lund University

Project: Silicon isotope constraints on sources of increased dissolved silicon in hypoxic/anoxic deep waters in Baltic Proper

Analytical method: Si isotopes in solution

Magnus Mörrth - Stockholm University

Project: Weathering balances and the influence of natural sulfur sources

Analytical method: S isotopes in solution

Margareta Hansson - Stockholm University

Project: Sulphur signals in ice cores

Analytical method: S isotopes in solution

Zivile Zigaite - Uppsala University

Project: Tracing palaeoenvironmental triggers of Mesozoic hybodont shark migration and evolution of their non-marine habitats

Analytical methods: in situ Sr & Nd isotopes in shark fin spines

Accepted projects 2015

Xiaole Sun - Stockholm University

Project: The fate of dissolved silicon in Arctic rivers and sediments and insight into the global carbon cycle

Analytical method: Si isotopes in solution

Patrick Frings - Lund University

Project: Silicon and lithium isotopic tracers of weathering: What are they telling us?

Analytical method: Si isotopes in solution

Kerstin Lidén - Stockholm University

Project: Seasonality in diet in a hunter gatherer population on Gotland

Analytical method: in situ Sr isotopes in human teeth

Aikaterini Glykou - Stockholm University

Project: Seal exploitation in the Baltic Sea during the mid- and late Holocene

Analytical method: in situ Sr isotopes in seal teeth

Vicky Pease - Stockholm University

Project: Arctic Alaska and Eurasian Orogens

Analytical methods: in situ Pb isotopes in feldspar & Hf isotopes in zircon