Editorial

Birgit Arrhenius, who introduced archaeometry into Sweden, established the Archaeological Research Laboratory at Stockholm University in 1976, was its first professor and remained at its head until her retirement in 1999. Without her visionary insights, this journal would not exist. She published the first issue of JONAS in 1986, at that time under the title “Laborativ Arkeologi”. Having turned 80, she is still as active and busy as ever, travelling to conferences, writing articles and working at her office at the lab. The cover picture for this issue is an act of hommage to Birgit Arrhenius, as it depicts another strong female, the Norse goddess Freya, seen here wearing the Brisingamen on the pendant from Aska in the parish of Hagebyhöga, Östergötland, in southern Sweden. Birgit used this picture in her PhD thesis “Granatschmuck und Gemmen aus nordischen Funden des frühen Mittelalters” in 1971. We dedicate this issue of JONAS to our inspiring colleague Birgit Arrhenius.

At the same time, this is the last issue of JONAS for which I will be Editor-in-chief. It has been an interesting time for me, with a lot of changes in the editorial board, a new format for the journal, new guidelines for its editorial work and new collaborators. My successor as Editor-in-chief, Gunilla Eriksson, already has plans for improving the journal still further and making it more easily accessible and better adapted to present-day standards. I would therefore like to thank all its contributors and readers for taking an interest in Nordic archeological science over the past years, and hope that you, like me, will be looking forward very much to what is to come in the future.

Kerstin Lidén
Editor-in chief
Editorial ................................................................................................................................ 1

Contents .................................................................................................................................. 2

Felix Riede, M. L. Stig Sørensen & Hans Eiberg
Using mtDNA to evaluate pioneer colonization scenarios for early prehistoric southern Scandinavia ..................................................................................................................... 3

Elin Fornander
Dietary diversity and moderate mobility – isotope evidence from Scanian Battle Axe Culture burials ............................................................................................................... 13

Katarina Botwid
Evaluation of ceramics: Professional artisanship as a tool for archaeological interpretation ...... 31

Ole Stilborg, v. Attila Rostoványi & Anders Lindh
A graphite-coated early Iron Age pot from Kristineberg, Malmö ........................................ 45

Ny Björm Gustafsson
Scrutinizing copper and bronze slag on Gotland: On the making and dismantling of a category of archaeometallurgical finds ............................................................................ 49

Laila Kitzler Åhfeldt
3D scanning of Gotland picture stones with supplementary material: Digital catalogue of 3D data .............................................................................................................................. 55

Ingunn Holm & Barbara M. Sageidet
Origin of the sandy terraces at Grundset, Elverum, south-eastern Norway: Evidence from archaeological soil micromorphology............................................................... 67