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von

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## **Early Copper Metallurgy in Ancient Egypt and Nubia**

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Akademie der bildenden Künste, 1090 Wien, Augasse 2-6

Hörsaal 4.40, Kern C, 4. Stock

## Early Copper Metallurgy in Ancient Egypt and Nubia

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### Abstract

Within the presentation will be discussed goals and current results of the PhD project focused on ancient Egyptian copper metallurgy. Set of ancient Egyptian metalwork from the Early Dynastic and Old Kingdom periods, currently in the collections of the *Egyptian Museum of Leipzig University* and *Vienna Institute for Archaeological Science of University of Vienna*, have been studied using a wide range of available archaeometallurgical methods (XRD, ED-XRF, SEM/EDS, NAA, OM, HV, MC-ICP-MS, etc.). The data were interpreted in the framework of the known and reconstructed distribution networks of ancient Egyptian society. The production technology, chemical composition, and provenance of the objects have been examined. The lead isotope analyses and analysis of trace elements have made possible to discuss the origin of the ores used for the production of Old Kingdom artefacts for the first time. A rather surprising presence in the Early Dynastic assemblage of objects similar in isotopic ratios to Anatolian Early Bronze Age metalwork will be discussed.

### CV

**2017:** Graduated in chemistry technology at the University of Chemical Technology in Prague, Czech Republic

**Since 2016** Assistant at the Department of Chemical Technology, Faculty of Restoration, University of Pardubice, Czech Republic

**2016** Honourable mention poster award by the Society for Archaeological Sciences in the occasion of the International Symposium of Archaeometry, Kalamata, Greece

**2015** Internship at the Centre de recherche et de restauration des musées de France, Paris, France

**2011 - 2016** The development project of reconstruction professional teaching of metal craft techniques in Upper Egypt - Development Project of Ministry of Foreign Affairs of the Czech Republic and the Arab Republic of Egypt