

# Impact of Copper and Bronze Age Metallurgy on the Environment and Human Health

Online conference, November 16<sup>th</sup> 2023, Vilnius

Organizer: Lithuanian Institute of History



Scientific committee:

Prof. Dr. Satish C. Myneni, Department of Geosciences, Princeton University, USA  
myneni@princeton.edu

Prof. Dr. Robertas Badaras, Toxicology Center at the Republican Vilnius University Hospital,  
Lithuania, robertas.badaras@rvul.lt

Dr. Agnė Čivilytė, Lithuanian Institute of History, Lithuania, civilytea@gmail.com

Conference link: <https://us06web.zoom.us/j/88096595679>

Conference time UTC+2 Eastern European Time

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**10.00 – 10.20**

Agnė Čivilytė: **Why Should We Investigate Heavy Metals and Toxicity in  
Prehistory: Aims and Challenges**

Lithuanian Institute of History, Vilnius, Lithuania, civilytea@gmail.com

**10.20 – 10.40**

Paolo Piccardo: **Copper Based Early Alloys: Voluntary or Fortunate Event?**

University of Genoa, Italy, Paolo.Piccardo@unige.it

**10.40 – 11.00**

Miljana Radivojevic: **Fueling the Anthropocene: Impact of Bronze Age Metal  
Production in the Steppes**

UCL Institute of Archaeology, London, UK, m.radivojevic@ucl.ac.uk

### **11.00 – 11.20**

Tomáš Zachar: **Early Eneolithic (3800 cal. BC) Copper Smelting Pits, Human Health and Environment: Possibilities of Research on the Western Carpathians**

Archaeological Museum in Frankfurt am Main, Germany, [tomaszachare@gmail.com](mailto:tomaszachare@gmail.com)

### **11.20 – 11.40**

Dominica Oravkinova, Tomáš Zachar: **Metal Production in Bronze Age Slovakia: State of Research, New Data and Future Perspectives**

Institute of Archaeology of the Slovak Academy of Sciences, Nitra, Slovakia; Archaeological Museum in Frankfurt am Main, Germany

[dominika.oravkinova@savba.sk](mailto:dominika.oravkinova@savba.sk); [tomaszachare@gmail.com](mailto:tomaszachare@gmail.com);

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### **11.40 – 12.00 Coffee Break**

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### **12.00 – 12.20**

Florin Gogâltan, Victor Sava: **The Potential of the Late Bronze Age Mega-Fort at Sântana in Establishing the Impact of Metallurgy on the Environment and Human Health**

Romanian Academy Institute of Archaeology and Art History, Cluj-Napoca, Romania; [floringogaltan@gmail.com](mailto:floringogaltan@gmail.com); Complexul Museum Arad, Romania; [victor.sava.cma@gmail.com](mailto:victor.sava.cma@gmail.com)

### **12.20 – 12.40**

Mario Gavranović, Aleksandar Kapuran, Mathias Mehofer: **Urn Burials of Bronze Age Copper Producers in Eastern Serbia**

Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria, [Mario.Gavranovic@oeaw.ac.at](mailto:Mario.Gavranovic@oeaw.ac.at); Institute of Archaeology, Belgrade, Serbia, [a.kapuran@gmail.com](mailto:a.kapuran@gmail.com); Vienna Institute for Archaeological Science, University of Vienna, Austria, [mathias.mehofer@univie.ac.at](mailto:mathias.mehofer@univie.ac.at)

### **12.40 -13.00**

Giovanna Fregni: **A Long View of the Environmental Effects of Copper Production**

Independent researcher, [gfregni@comcast.net](mailto:gfregni@comcast.net)

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**13.00 – 15.00 Lunch break**

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**15.00 – 15.20**

**Daniel Veres: 7000 Years of Anthropogenic Metal Pollution in Southeastern Europe?**

Romanian Academy, Institute of Speleology, Cluj-Napoca, Romania, [dan.veres@acad-cj.ro](mailto:dan.veres@acad-cj.ro)

**15.20 – 15.40**

**Rimantas Vaisvalavičius, Virgilija Gregorauskienė: Patterns of Change in Chemical Element Levels in Lithuanian Soils**

Vytautas Magnus University, Kaunas, Lithuania, [rimantas.vaisvalavicius@vdu.lt](mailto:rimantas.vaisvalavicius@vdu.lt); Lithuanian Geological Survey, Vilnius, Lithuania, [virgilija.gregorauskiene@lgt.lt](mailto:virgilija.gregorauskiene@lgt.lt)

**15.40 – 16.00**

**Linus Zdanavičius, Robertas Badaras: Heavy Metals: A Clinical Toxicology Perspective**

Republican Vilnius University Hospital, Vilnius, Lithuania, [linas.zdanavicius@gmail.com](mailto:linas.zdanavicius@gmail.com); [robertas.badaras@rvul.lt](mailto:robertas.badaras@rvul.lt)

**16.00 – 16.20**

**Laura S. Weyrich: The Potential of Paleomicrobiology to Reconstruct Past Health**

Pennsylvania State University, USA, [lsw132@psu.edu](mailto:lsw132@psu.edu)

**16.20 – 16.40**

**Miriam Nývltová Fišáková: Bioarcheological Analyses of Bones for the Detection of Pathology**

Faculty of Medicine and Philosophy at Masaryk University in Brno, Czech Republic, [miriam.nyvltova@med.muni.cz](mailto:miriam.nyvltova@med.muni.cz)

**16.40 – 17.15 Discussions**