

# IG16215 – ENDLESS Metal

## Workshop

### Hungarian National Museum

Budapest, Hungary

15-16 May 2023

#### Participants:

##### IG team

- Christian Degrygn - CDE (CH), chair
- Eva Menart - EME (SI), vice-chair
- Romain Jeanneret RJE (CH), member

##### Local participants

- Balazs Lencz – BLE, head of conservation
- Norbert Németh – NNE, deputy head of conservation at the Hungarian National Museum (HNM)

##### Invited Experts

- Nataša Nemeček – NNE (SI)
- Ivana Mlinarić – IML (HR)
- Damir Doračić – DDO (HR), head of the Conservation-Restoration Department, Archaeological Museum in Zagreb

The objective of these two days is to analyse the corrosion products which developed on silver-based objects from archaeological sites and dating from the 1st century A.D to the 4th century A.D (ewer of the Seuso silver hoard). Some comparison will also be made with fragments of the Vinkovci hoard, Zagreb, Croatia, also dating of the 4th century A.D.

The IG team will contribute to the setup of a full Pleco device at the Hungarian National Museum, which will be tested then on the objects mentioned above. It is expected that it will initiate some dynamic collaboration on the use of electrolytic techniques for the analysis and electrolytic cleaning of metal heritage in Central Europe.

# Programme



**Monday 15 May 2023**

**9:00 -12:00**

Assembling of Pleco and testing with just acquired potentiostat: CDE, RJE and BLE.

**13:00 – 18:00**

- CDE Lecture to local participants (6 staff members of HNM and 4 students from the National Education Centre for Conservation): Electrolytic techniques for the analysis and cleaning of silver-based artefacts (1 hour)
- Application to two objects of HNM collection with discussion with local participants and invited experts.



Left: fragment of a gilded silver cup; provenance: bank of river Danube at the Csepel island; 1<sup>st</sup> century A. D.; inv. No.: MNM-NRI RT-RO 261/1874.3; high: 5.4 cm; diameter: 10.5 cm. Right: gilded silver applique in the shape of a lion's head; provenance: Dunaújváros (Intercisa), grave find; 1<sup>st</sup> century A.D.; inv. No.: MNM-NRI RT-RO 118/1907.255 = 10/1951.57; high: 6 cm; weight: 35.3 g.

**Tuesday 16 March**  
**9:00 -12:00**

Visit of the Seuso hoard exhibition + space with live restoration on the Seuso platter.  
Presentation of the conservation issues of the ewer by BLE



Animal Ewer / Part of the so called Seuso treasure, provenance: presumably Kőszárhegy region, near lake Balaton, Hungary, Date: 4<sup>th</sup> century A. D., Inv. No.: MNM-NRI RT-RO 2017.1.3, high: 57.8 cm; diameter: 19.4 cm, weight: 3.983 kg.

Determination of the nature of the tarnishing for its possible electrolytic cleaning. Discussion with Slovenian, Croatian colleagues and further testing on fragments of the Vinkovci hoard, Zagreb, Croatia, also dating of the 4th century A.D.

**13:00 -18:00**

Continuation of the work of the morning and discussion on further collaboration.