



# NEWSLETTER

Here's ENDLESS Metal's third and final newsletter!

As usual, it's for you who showed interest in our project but don't have much time to follow us through our website and social networks. It considers the most relevant activities in the period from July to October!

We took a summer break to recharge but soon returned to work in a season of nature's transformation. We enjoy working with and for cultural heritage and its professionals! We hope to contribute to professionals' performance transformation!

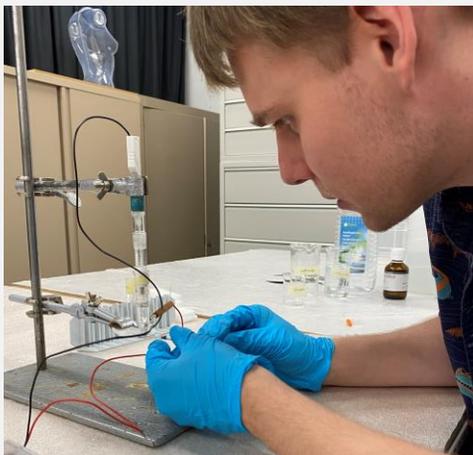
May you enjoy reading!

## ENRICHING DATABASES

*To optimise and make MiCorr and Discovery Mat more relevant, meeting different needs and contexts!*



At the [Château de Germolles](#), France, Christian Degriigny tested [MiCorr](#) search engine to identify the families of metal objects. Thirty-five entries were added to better support the decision chain.



At the [Olympic Museum](#), after testing [MiCorr](#) to identify aluminium alloys on objects, Rayan Ammon, bachelor student at the [Haute École Arc Conservation-restauration](#), used [Discovery Mat](#) to specify the composition of these alloys. Additional X-ray Fluorescence analyses of the objects studied enabled Rayan to enrich the application's aluminium database.



## ORAL PRESENTATIONS

*To share experiences, and results and to promote debate, for improvement!*

### 4.<sup>E</sup> COLLOQUE DE LA COMMUNAUTÉ DU SAVOIR.

FORMATION SUPÉRIEURE ET DIGITALISATION. MISE EN DIALOGUE DES ACTEURS DE LA GOUVERNANCE, DE L'ENSEIGNEMENT ET DE L'APPRENTISSAGE

HAUTE ÉCOLE PÉDAGOGIQUE BEJUNE, SWITZERLAND

CHRISTIAN DEGRIGNY

SEPTEMBER 7<sup>TH</sup>

#### Programme

|                                  |   |
|----------------------------------|---|
| <b>9h-10h</b><br>MENSA           | <b>Accueil, café-croissants</b>   |
| <b>10h-10h30</b><br>AULA         | <b>Allocutions officielles</b><br>Maxime Zuber, recteur de la Haute Ecole Pédagogique BEJUNE, Delémont<br>Brigitte Bachelard, directrice générale de la Haute Ecole Arc, coprésidente de la Communauté du savoir, Neuchâtel<br>Pascal Vairac, directeur de l'École Nationale Supérieure de Mécanique et des Microtechniques, coprésidente de la Communauté du savoir, Besançon  |
| <b>10h30-12h</b><br>AULA         | <b>Conférence plénière</b><br>Prof. Dr Marcel Lebrun, Université Catholique de Louvain, Belgique<br>Une humanité numérique à construire entre promesses et nécessités, entre urgence et patience<br>Introduction et modération des échanges: Pascal Carron, HEP-BEJUNE  |
| <b>12h-13h30</b><br>MENSA        | <b>Pause repas</b>  |
| <b>13h30-15h30</b><br>SALLE D100 | <b>Communications individuelles - Session A</b><br>Modération: Giuseppe Melù, HEP-BEJUNE<br><ul style="list-style-type: none"> <li>• <b>Christian Degrigny, HE-Arc</b><br/>Des outils participatifs en libre accès pour le diagnostic des métaux patrimoniaux: un challenge pour les utilisateurs et les décideurs</li> <li>• <b>Ana-Vanessa Lucena, HEP-BEJUNE</b><br/>Les tablettes tactiles au Musée. Pour une utilisation réfléchie</li> <li>• <b>Anis Tadjoual-Bratemi, HEP-FR</b><br/>Questionner un modèle d'éducation à la citoyenneté numérique grâce aux vidéos démocratiques rapportées par les enseignant-e-s. Un pas de plus pour l'éducation numérique?</li> <li>• <b>Lamia Ben Hamida, HE-Arc</b><br/>Compétences globales pour une employabilité durable - Étude comparative de la mobilité des étudiant-e-s nord-sud de la Méditerranée</li> </ul> |



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**Colloque international**

## Architecture, aluminium et patrimoine XX<sup>e</sup>. XXI<sup>e</sup> s.

entre innovation, patrimoine et environnement

23 et 24 octobre 2023

 Centre de Recherche et de Restauration des Musées de France  
Palais du Louvre - porte des Lions, 14, quai F. Mitterrand, 75001 PARIS  
Inscription obligatoire : <https://archi-alum-patrs.ciencessconf.org/>  
Colloque accessible en mode hybride



AURÉLIA AZEMA  
CHRISTIAN DEGRIGNY  
LÉOPOLD REMY



DES ALLIAGES ET DES CORROSIONS: QUE DISENT LES ANALYSES?

OCTOBER 24<sup>TH</sup>



## CASE STUDY

*To apply the three tools, in combination, to a real collection!*

*A success case!*

At the [National Museum of Banat, Maria Theresia Bastion](#), Timisoara, Romania, from September 19 to 21, 2023, the team, together with local professionals, applied the tools to objects from the collection of the [Museum of the Roman Catholic Diocese of Timisoara](#). Objects were characterised by articulating technological evidence, such as their hallmarks, and non-invasive analyses, through portable X-ray Fluorescence. [MiCorr](#) was empowered with more data, both the search engine that allows the identification of metal families through visual inspection and the search engine that allows it to be done through corrosion structures. More copper-based objects enriched the [Discovery Mat](#) database, and we pursued our efforts to make [Pleco](#) cheaper by replacing the glassy carbon reference with a graphite rod and the KNF diaphragm pumps with Intllab peristaltic pumps.





## IMPROVING KNOWLEDGE AND EXPLORING FIELDS OF APPLICATION

*Thanks to your help!*



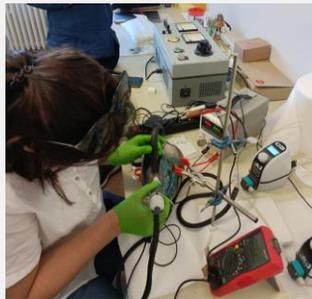
Valentina Ljubic Tobisch, a trainee at [Training School in Ljubljana, Slovenia](#), and recipient of an [STSM in Neuchâtel](#), organised the training course under the responsibility of Christian Degryny, and as part of her interdisciplinary project "The impact of early photography and electrotyping media on the creation of images and contemporary art", in short [PHELETYPIA](#), funded by the [Austrian Academy of Sciences](#). Participants were from the [Technisches Museum Wien](#), [Universität für Angewandte Kunst](#), [Naturhistorisches Museum](#) and freelance conservation professionals. They were introduced to [MiCorr](#), [Discovery Mat](#) and [Pleco](#).

### TRAINING COURSE

INTRODUCTION TO THE USE  
OF ELECTROCHEMICAL  
/ELECTROLYTIC TECHNIQUES  
IN METAL CONSERVATION

THE FEDERAL MONUMENTS  
OFFICE  
VIENNA, AUSTRIA

SEPTEMBER 25<sup>TH</sup> - 29<sup>TH</sup>



### THE CORONATION MANTLE OF CHARLES X

CLEANING WITH PLECO.  
MOVING FORWARD...

CONSERVATION STUDIO,  
FRANCE



After using [Pleco](#) for the identification of the tarnishing layers, the cleaning of the gilt silver decorations of [Charles X's](#) coronation mantle is evolving, with [Pleco](#) and as planned. Slowly, the golden appearance is being recovered.



## PUBLICATIONS

*To support you, also in the long run!*

As a final balance, it is important to highlight that, during 2022-23, the development year of the [COST Innovators Grant ENDLESS Metal](#) (CIG16215), [six references were published](#). In addition to the intention of sharing, we believe that the written word will contribute to the consolidation of knowledge and the retention/reactivation of memory.

## EXTRA TRAINING SCHOOL

*Thanks to good management!*

PROMOTING SYNERGIES  
BETWEEN YOUNG AND  
EXPERIENCED  
PROFESSIONALS

THE NATIONAL MUSEUM  
SOARES DOS REIS (MNSR)  
PORTO, PORTUGAL

OCTOBER 9<sup>TH</sup> & 10<sup>TH</sup>, MORNING

This extra Training School was co-organised by the [Faculty of Arts and Humanities of the University of Porto](#) (FLUP) and the [National Museum Soares dos Reis](#) (MNSR). It was developed on MNSR's premises and used its collections. It aimed at updating the participants on the use of [ENDLESS Metal tools](#). Most trainees were Portuguese, from North to South of Continental Portugal, conservators in private and public cultural institutions, museum curators, and museology students from FLUP. Others were trainees from past training schools who had already acquired additional knowledge on [ENDLESS Metal tools](#).



## THE FINAL MEETING

*To share and be accountable!*

The final meeting of the [COST Innovators Grant ENDLESS Metal](#) (CIG16215) associated a previous scientific meeting, in a Workshop format, to the team's final meeting with [COST Association](#)'s Scientific Officer.



### WORKSHOP

IDENTIFYING METAL ARTEFACTS'  
FAMILIES WITH MiCORR

THE NATIONAL MUSEUM SOARES  
DOS REIS (MNSR)  
PORTO, PORTUGAL

OCTOBER 10<sup>TH</sup>, AFTERNOON



The Workshop was also co-organized by [FLUP](#) and [MNSR](#) and developed on MNSR's premises. Some of the trainees of the last Training School showed interest and were welcome to participate. They joined FLUP students from different areas and study cycles, mostly museology. Everyone exercised [MiCorr](#) on artefacts from private collections and the MNSR collection, also in the context of a long-term exhibition.

## THE FINAL MEETING

*To share and be accountable!*

### TEAM'S FINAL MEETING

ENDLESS METAL (CIG16215),  
TOGETHER WITH  
PORTASAP (CA16215),  
ITS ORIGIN

THE FACULTY OF ARTS AND HUMANITIES,  
UNIVERSITY OF PORTO (FLUP)  
PORTO, PORTUGAL

OCTOBER 11<sup>TH</sup>

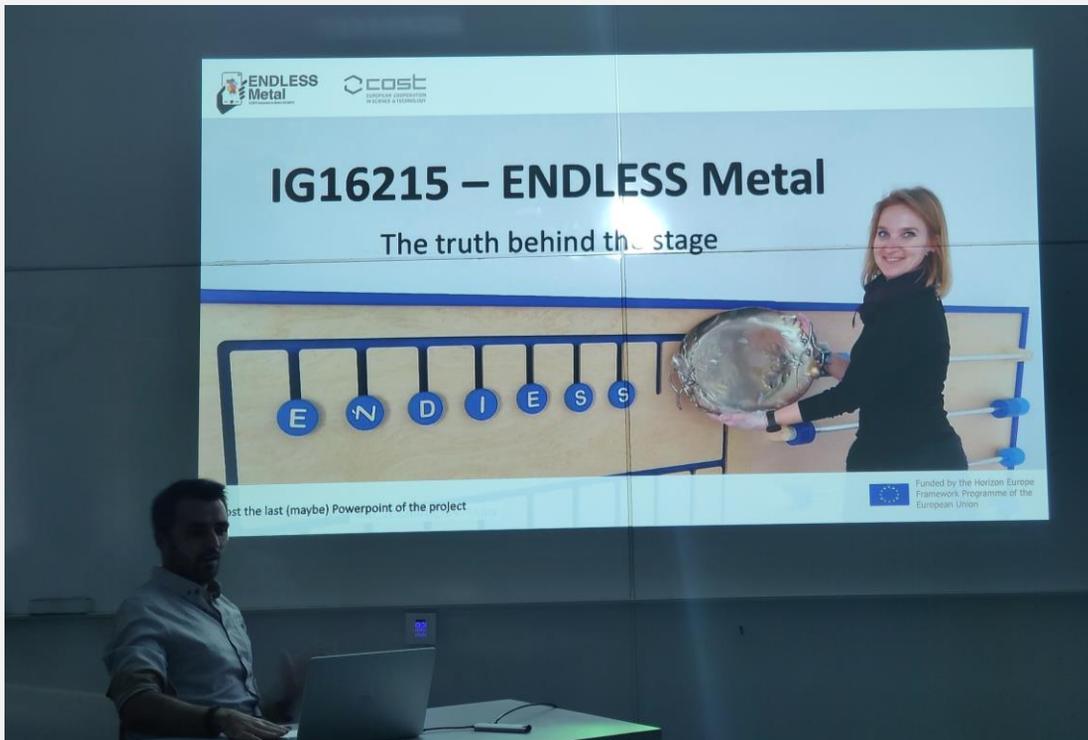


The day started with a fabulous visit to the [MNSR](#) by its Director, António Ponte, and collection manager, Susana Medina. In the afternoon, the team moved to [FLUP](#). It was welcomed by Director Paula Costa Pinto, also on behalf of Inês Amorim, Scientific Coordinator of the R&D unit [Transdisciplinary Research Center for Culture, Space and Memory](#) (CITCEM). F. Orтели, Scientific Officer for [COST](#), did not attend due to sickness. A. Gelbert-Miermon, representing [HE-Arc CR](#), and J. Silva, the webmaster from [FEUP](#), joined the session. It started with a presentation by G. Erny, Chair of [PortASAP](#). Similarly, C. Degriigny presented [ENDLESS Metal](#). All team members presented the major activities: Training schools (E. Menart & R. Jeanneret); Workshops in France (M. Drieux) and Gdansk (K. Schaefer-Rychel); Short-term Scientific Missions (C. Degriigny); Case study in Timisoara (R. Gavriila); and Communication (P. Menino Homem).



## THE FINAL MEETING

*To recognise and acknowledge for a year of intense work, but also of companionship, joy and hope!*



**HOPING TO BUILD A COMMUNITY OF INTEREST AND PRACTICE**

*Join these powerful relationships.  
Join us and be active in our social media groups!*

Museum professionals, in the cultural sector in general, yearn for portable, affordable, easily accessible and easy-to-use resources. Those oriented to metallic artefacts and promoted by [ENDLESS Metal](#) seek to meet these criteria and have development potential. Everyone can contribute to it. Are you interested? Do you want to try it? We hope you'll keep visiting our website. We'll keep on feeding it for two years more. And keep on sharing results and raising challenges in our social media groups. That would be:

**A great boost to professional performance!**

*Want more insights about these?  
Please, take just a little of your time and have a glimpse at:*

