

# IG16215 – ENDLESS Metal

## Training school for young professionals

### Haute Ecole Arc Conservation-restauration

Espace de l'Europe 11, Neuchâtel, Switzerland

23-25 January 2023

## Programme

### Monday 23 January (9:00-17:30) – room 152

9:00	Welcoming words	A. Gelbert-Miermon Coordinator of the Research Unit of HE-Arc CR
9:05-9:30	IG16215: philosophy and objectives	C. Degryny (CDE), chair of Endless Metal & E. Menart (EME), vice-chair

### MICORR: Part I (identification of metal families)

9:30-10:00	Context of development, use, possibilities & limits	CDE
10:00-10:30	Coffee break	
10.30-12:00	Demonstration and tests (on laptop & smartphones)	CDE & R. Jeanneret (RJE) St Maurice abbey
12:00-12:30	Feedback from conservation professionals	C-A. Künzi Lausanne Historic Museum
12:30-13:30	Lunch break*	

### DISCOVERYMAT: qualitative analysis of metal artefacts – room 037

13:30-14:00	E <sub>corr</sub> measurements: an introduction to their meaning	CDE
14:00-14:30	DiscoveryMat application: possibilities & limits	CDE
14:30-15:00	Demonstration	CDE & RJE
15:00-15:30	Coffee break*	
15:30-16:30	Measurements	CDE & RJE
16:30-17:00	Data processing	CDE
17:00-17:30	Feedback from conservation professionals	E. Granget HE-Arc CR

\*: Each participant will take part in an eye-tracking experiment during 20min. They will be equipped with a pair of eye-tracking glasses that record eye movement and gaze shifts while using MiCorr. This information will allow us to analyse the way participants use the application (search for information, selection of answers, etc.) but also the way they interact with the analysed object. All information on gaze, head movements as well as field of view and sound will be recorded.

## Tuesday 24 January (9:00-17:00) – room 152

### PLECO: qualitative analysis of corrosion layers

9:00-9:30	Context of development, possibilities & limits	CDE
9:30-10:00	<b>I</b> – Analysis of corrosion products using Linear Sweep Voltammetry	CDE
10:00-10:30	Demonstration and tests	CDE & RJE
10:30-11:00	Coffee break*	
11:00-11:30	Application in the conservation domain	CDE
11:30-12:30	Research in progress: examination of silver tarnish	Jorge Gonzalez Frutos Empa Dübendorf
12:30-13:30	Lunch break*	
13:30-14:00	<b>II</b> –Pleco Its construction, assembling and functioning	RJE
14:00-15:00	Visit of Neuchâtel FabLab	FabLab
15:00-15:30	Coffee break*	
15:30-16:00	Practical use and tips	RJE
16:00-16:30	Feedback from conservation professionals	RJE & EME
16:30-17:00	Discussion	CDE – EME
17:00-18:00	Eye-tracking experiment*	
19:00	Social event	

## Wednesday 25 January (9:00-17:00) – rooms 037 (morning) and 152 (afternoon)

### MiCorr: Part II (examination of corrosion structures)

9:00-9:30	Introduction to the corrosion of metal artefacts	CDE
9:30-11:00	Schematic representation of corrosion structures using binocular microscopes & additional support based on non-invasive examination	CDE & RJE
11:00-11:30	Coffee break*	
11:30-12:30	Digital construction of corrosion structures observed under binocular microscope	CDE & RJE
12:30-13:30	Lunch break*	
13:30-14:00	Questioning of MiCorr database	CDE
14:00-15:00	Examination of corrosion structures on cross-section	CDE
15:00-15:30	Coffee break*	
15:30-16:00	Digital representation and re-questioning of MiCorr database	CDE
16:00-16:30	Compilation of data in the artefacts files	CDE
16:30-17:00	Feedback from conservation professionals	CDE & RJE
17:00	Closing remarks	CDE & EME
17:00-17:30	Eye-tracking experiment*	