haute école
neuchâtel berne jura
arc
conservation - restauration
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MIFAC METAL ONLINE

OBJECTIVES

This project coordinated by HE-Arc Management aims at developing a Decision Support System (DSS) for the diagnostic on heritage and industrial metals.

PROGRAM

A DSS is a computer-based information system that supports decision-making activities. A website called MiCorr will be designed that will serve as a database on microstructures and corrosion forms of metal artefacts. Two search tools will be available : one based on the schematic construction of corrosion forms and the second based on key words. By far the most innovative part of the website is the search tool based on the schematic construction of corrosion forms.
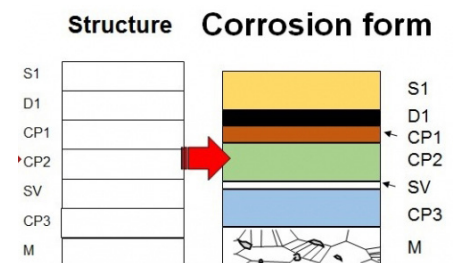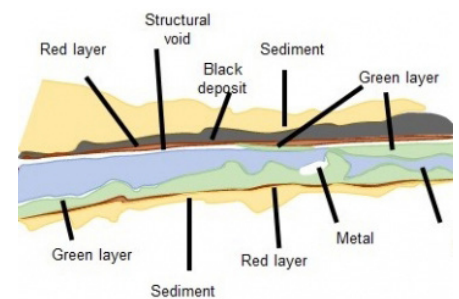
When questioning the MiCorr database, the visitor will have the possibility to identify corrosion forms based on existing corrosion models, refine the search for the most appropriate corrosion model using keywords, locate the limit of the original surface and precise the possible activity of the metal artefact. The DSS should contribute then to the design of appropriate conservation protocols.

RESULTS

This website will be first tested by HE-Arc CR master students and international experts. Their feedback will be used to optimize the tool that will eventually be made available to professionals interested in the diagnostic of heritage and industrial metals.

USEFUL LINKS

- Applications realised
- Final report

FUNDING

HES-SO, Réseau de Compétences ISnet.

PROJECT LEADER

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PARTNERS

Haute Ecole Arc Gestion; Haute Ecole Arc Conservation-restauration.

DURATION

18 months
2014-2016

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Haute Ecole Spécialisée
de Suisse occidentale