

# Corrosion And Conservation Of Cultural Heritage Metallic Artefacts 21 Monitoring Modelling And Prediction Of Corrosion Rates Of Historical Iron Shipwrecks Federation Of Corrosion Efc Series

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## Dr Ian MacLeod Lecture Tour - Conservation of Cultural ... Corrosion Rates Of Historical Iron Shipwrecks

Relationships between conservation and corrosion scientists are assessed and similarities, differences and synergies identified. Corrosion control as a preservation option for heritage metals is advocated as being cost-effective and pragmatic.

### **Corrosion and Conservation of Cultural Heritage Metallic**

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Corrosion and conservation of cultural heritage metallic artefacts is an important reference for all those involved in archaeology and conservation, including governments, museums as well as those undertaking research in archaeology and corrosion science.

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According to the corrosion phenomena, increased concentration of dissolved oxygen induces increase in the corrosion rate of 'active' metals such as copper and iron, with great impact on the behaviour of an archaeological artefact: ignoring any biological considerations, the deeper the wreck, the better the conservation of the metal artefacts.

### **Corrosion and conservation of cultural heritage metallic**

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Interventive conservation. This process can be distinguish between mechanical, chemical, electrochemical, ultrasonic, plasma and laser cleaning. In principle, it is aimed at removing dirt and corrosion products from the surface of a metal object. In many cases archaeology objects only can be cleaned mechanically.

### **Care and Cleaning of Iron - Canadian Conservation ...**

ELSEVIER R PROOF Glossary g0005 Conservation Preservation of cultural heritage. g0010 Dense corrosion product layer (DPL) The corrosion layer on archaeological iron objects that approximates to the original shape of the metal lost. g0020 Interventive conservation Preservation strategy that involves physical or chemical change to

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## **Underwater corrosion of metallic heritage artefacts...**

Machine generated contents note: 1. Introduction: conservation versus laboratory investigation in the preservation of metallic heritage artefacts --2. Conservation, corrosion science and evidence-based preservation strategies for metallic heritage artefacts / P. Dillmann / France / A. Adriaens / E. Angelini / D. Watkinson --2.1.

## **Special Session 4 | 2019 IMEKO TC-4 International ...**

Conservation and restoration of iron and steel objects. The act of conservation and restoration strives to prevent and slow the deterioration of the object as well as protecting the object for future use. The prevention and removal of surface dirt and corrosion products are the primary concerns of conservator-restorers when dealing with iron or steel objects, including nickel-iron meteorites.

## **Corrosion and conservation of cultural heritage metallic**

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Akaganéite. Akaganéite, which grows on the iron at the metal-rust interface, exerts enough pressure on the corrosion layers to break them off, thus causing cracking and spalling. This active corrosion appears as orange crystals in the cracks of a spalling surface.

## **Conservation and restoration of iron and steel objects ...**

Conservation of Cultural Heritage Recovered from Terrestrial and Marine Sites. ... A study of the layers of decay recorded on degraded metal objects provides climate and corrosion scientists with a unique insight into the changing conditions on the seabed and with data on seawater temperatures.

## **Conservation and restoration of metals - Wikipedia**

Currently she is assistant professor in Applied Physical Chemistry with Politecnico di Torino. Her researcher areas include plasma chemistry and reversible coating deposition, sensors for microclimate and environmental monitoring, corrosion and protection of metallic materials and conservation of the cultural heritage.

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