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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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Corrosion and Conservation of Cultural Heritage Metallic ...
Corrosion and conservation of cultural heritage metallic artefacts. Philipe Dillmann, David Watkinson, Emma Angelini, Annemie Adriaens. The conservation of metallic archaeological and historic artifacts is a major challenge, whether they are ancient bronzes or relics of the more recent industrial past. Based on the work of Working Party 21 Corrosion of Archaeological and Historical Artefacts within the European Federation of Corrosion (EFC), this important book summarizes recent research on ...

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Corrosion And Conservation Of Cultural Heritage Metallic ...
Conservation of Cultural Heritage. Website Admin Monday, May 11, 2020. ... 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 of Cultural Heritage – Australasian Corrosion ...
Ian now runs Heritage Conservation Solutions, where he provides conservation solutions related to problems of corrosion and decay of heritage structures and collections, analysis of building microclimates and research into decay mechanisms on Aboriginal rock art.

Conservation of Cultural Heritage ... - Corrosion Authority
A review of the literature is given in this chapter and the results indicate that the use of standards is common in conservation research and practice of cultural property made of metals for corrosion studies, coatings and corrosion inhibitors testing, cathodic protection, corrosion monitoring, materials used to store or display metal objects, etc.

The role of standards in conservation methods for metals ...
Conservation and restoration of metals is the activity devoted to the protection and preservation of historical (religious, artistic, technical and ethnographic) and archaeological objects made partly or entirely of metal.In it are included all activities aimed at preventing or slowing deterioration of items, as well as improving accessibility and readability of the objects of cultural heritage.

Conservation and restoration of metals - Wikipedia
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...

Corrosion and conservation of cultural heritage metallic ...
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.

The conservation of metallic archaeological and historic artefacts is a major challenge whether they are ancient bronzes or relics of our more recent industrial past. Based on the work of Working Party 21 Corrosion of Archaeological and Historical Artefacts within the European Federation of Corrosion (EFC), this important book summarises key recent research on analytical techniques, understanding corrosion processes and preventing the corrosion of cultural heritage metallic artefacts. After an introductory part on some of the key issues in this area, part two reviews the range of analytical techniques for measuring and analysing corrosion processes, including time resolved spectroelectrochemistry, voltammetry and laser induced breakdown spectroscopy. Part three reviews different types of corrosion processes for a range of artefacts, whilst part four discusses on-site monitoring techniques. The final part of the book summaries a range of conservation techniques and strategies to conserve cultural heritage metallic artefacts. 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. Summarises key research on analytical techniques for measuring and analysing corrosion processes Provides detailed understanding of corrosion processes and corrosion prevention Discusses on-site monitoring techniques

This chapter reviews the applicability and specific uses of corrosion inhibitors in metal conservation practice. Corrosion inhibitors are one of the different methods used by conservation-restoration professionals to preserve metallic cultural heritage. In the first part, specific requirements and needs for corrosion inhibitors in conservation treatments are reviewed, as well as the different methods for the assessment of their efficiency. The second part of the chapter reviews the different inhibitors used by type of metals: copper and its alloys, iron and its alloys, and other metals (including silver, lead and zinc), from traditional ones to state-of-the-art treatments.

This chapter discusses the importance of using standards in conservation methodology and practice for cultural heritage (CH) metals. The past general trend in the field is the use of metal industry standards. The chapter surveys the relevant scientific publications, and concludes that conservation researchers use a variety of these standards adopted by different organisations. As a result, it can be difficult to compare scientific data for CH metal studies carried out by different laboratories. The chapter discusses the necessity to draft new standards for metals specific for CH by examining how three independent researchers had different findings when testing the same coating. The role of CEN/TC 346 'Conservation of Cultural Heritage' is also discussed.

This chapter deals with the description of suitable and innovative solutions devoted to preserve metallic artefacts in their original contexts, underwater cultural heritage sites of archaeological and historical interest, as well as with the analysis of the degradation processes of ferrous and non-ferrous artefacts induced by contact with an aggressive environment such as sea water. The chapter also provides an overview of the most common conservation strategies applied to recovered artefacts.

Europe has a rich industrial cultural heritage, including technical objects and industrial sites. This chapter discusses basic types of metallic objects of industrial cultural heritage including their material properties and surface treatments from the point of view of corrosion behaviour in specific atmospheric conditions to which they are exposed. The general principles of conservation ethics and problems of these types of cultural heritage are mentioned. Two case studies of evaluation of condition of typical industrial cultural objects are given.

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. This will require generation of data to develop predictive conservation and estimation of object lifespan as a function of their intrinsic and extrinsic variables. Methods for quantitative determination of corrosion rates of chloride infested heritage iron and techniques for scaling to heritage value are discussed. The iron hull of the ss Great Britain and an AHRC/EPSRC Heritage Science Research Programme at Cardiff University are used to illustrate the rationale behind using corrosion control in heritage.

Understanding the long-term corrosion mechanisms of iron in an anoxic environment is essential in the field of the preservation of archaeological heritage artefacts and nuclear waste management. Corrosion mechanisms have been assessed by examining nails 400 years old from the archaeological site of Glinet. This chapter provides an overview of the characterisation of the entire corrosion system environment/samples through coupled multiscale analytical tools. The environment is anoxic, calco-carbonated and water-saturated. Three corrosion patterns composed of ferrous carbonates (siderite and chukanovite) and magnetite have been identified. Depending on the connection between the phases and their location, the electronic properties of the corrosion layers have been established. The electrochemical behaviour of the corrosion system shows that water reduction at the metallic interface is negligible. Furthermore, the electron consumption sites are mainly localised on the external part and the precipitation sites on the internal part of the corrosion layer. The corrosion rate is estimated to be less than 2?m/year and a corrosion mechanism is proposed based on a decoupling of the anodic and cathodic sites and on the existence of a nanometric corrosion layer at the metallic interface.

This chapter focuses primarily on the common environmental aspects of atmospheric metal corrosion. The effects of climate and pollution on corrosion are reviewed across various timescales, from damage over millennia to the present situation, including short descriptions of the indoor environment and recent developments in international standardisation. The chapter concludes with two sections on future trends in air pollution and climate change.

This chapter reviews and summarises the results of experiments using a new technique known as 'subcritical' for the stabilisation of archaeological iron. Five case studies are presented that illustrate the capacity of this technique to rapidly remove entrapped chloride ions from unstable metal with minimal observable changes to the objects' integrity. This overview focuses on the effectiveness of this treatment from a conservation and preservation perspective. The benefits and current limitations of the technique are identified, as well as important areas where there is a need for further research.

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