Plant Biology For Cultural Heritage Biodeterioration And Conservation

Plant Biology for Cultural HeritagePlant Biology for Cultural HeritageArt, Biology, and ConservationBiodeterioration of Stone in Tropical EnvironmentsBiotechnology and Conservation of Cultural HeritageCoping with Biological Growth on Stone Heritage ObjectsCultural Heritage and AerobiologyOf Microbes and ArtBiodeterioration and Preservation in Art, Archaeology and ArchitectureLibrary of Congress Subject HeadingsLibrary of Congress Subject HeadingsThe Archaeology of Ships of WarInformation Resources in the Humanities and the ArtsManual of CuratorshipArchaeological Sciences ...Archaeological Sciences 1999Complex MediumsBiodeterioration of Wooden Cultural HeritageArt, Biology and Conservation 2002Art and Archaeology Technical Abstracts Getty Conservation Institute Giulia Caneva Robert John Koestler Rakesh Kumar Franco Palla Daniela Pinna Paolo Mandrioli Orio Ciferri Ralph Mitchell Library of Congress Library of Congress. Cataloging Policy and Support Office Mensun Bound Anna H. Perrault Ph.D. John M. A. Thompson Kate Robson-Brown Anastasia Pournou Metropolitan Museum of Art (New York, N.Y.)

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brings together wide ranging scientific contributions from those who have studied the biological degradation of cultural heritages it tackles both general topics mechanisms of biodeterioration correlation between biodeterioration and environment and destructive organisms and specific ones the problems presented by different materials environments

climatic conditions and geographic settings the contributors also discuss ways to diagnose prevent and control deterioration

despite the perception that artworks are timeless and unchanging they are actually subject to biological attack from a variety of sources from bacteria to fungi to insects this groundbreaking volume which publishes the proceedings of a conference held at the metropolitan museum of art in 2002 explores how the development of these organisms can be arrested while preserving both the work of art and the health of the conservator the richly illustrated text containing the writings of over 40 scientists and conservators is divided into sections on stone and mural paintings paper textiles wood and archaeological materials treatment and prevention and special topics the artworks and cultural properties discussed include among many others paleolithic cave paintings tiffany drawings huts built by early antarctic explorers and a collection of toothbrushes taken from auschwitz victims

a serious challenge for professionals involved in the conservation of cultural heritage sites in tropical environments is the biodeterioration of stone this volume discusses the types and causes of stone biodeterioration in hot and humid climates preventative and remedial methods selection of chemical treatments the status of current research and areas for further investigation

this second fully updated and extended edition of biotechnology and conservation of cultural heritage provides in depth insights into the role of different microorganisms and microbial compounds in biodeterioration conservation and restoration of artworks and artifacts latest methods to detect remove and prevent microbial colonization on artwork surfaces and in air environments of libraries and museums are discussed and illustrated by engaging case studies furthermore this edition covers new case studies on archaeobiology exploring ways to perform the molecular biology characterization restoring and protecting museum taxidermal specimens preserving and guaranteeing the future integrity finally the use of halloysite nanotubes is investigated to set up innovative protocols in consolidation and long term protection of waterlogged and archaeological wood this book addresses to biologists microbiologists conservation scientists and conservators who are interested in understanding the role of microorganisms and bioactive molecules in conservation projects

coping with biological growth on stone heritage objects methods products applications and perspectives offers hands on guidance for addressing the specific challenges involved in conserving historical monuments sculptures archaeological sites and caves that have been attacked and colonized by micro and macroorganisms the volume provides many case studies of removal of biological growth with practical advice for making the right choices it presents detailed and updated information related to biocides and to alternative substances features that will be valuable to dealing with these challenges the author s

goal is to provide access to information and offer the conceptual framework needed to understand complex issues so that the reader can comprehend the nature of conservation problems and formulate her his own views from bacteria to plants biological agents pose serious risks to the preservation of cultural heritage in an effort to save heritage objects buildings and sites conservators activities aim to arrest mitigate and prevent the damages caused by bacteria algae fungi lichens plants and birds although much has been learned about these problems information is scattered across meeting proceedings and assorted journals that often are not available to restorers and conservators this book fills the gap by providing a comprehensive selection and examination of international papers published in the last fifteen years focusing on the appropriate methods techniques and products that are useful for the prevention and removal of micro and macroorganisms that grow on artificial and natural stone works of art including wall paintings results on new substances with antimicrobic properties and alternative methods for the control of biological growth are presented as well the book also emphasize issues on bioreceptivity of stones and the factors influencing biological growth and includes an outline of the various organisms able to develop on stones a discussion on the bioprotection of stones by biofilms and lichens a review of the main analytical techniques and a section on bioremediation this volume will be a valuable reference for cultural heritage conservators and restorers scientists and heritage site staff involved in conservation and maintenance of buildings archaeological sites parks and caves

aerobiology is the science that studies the biological component of the atmosphere and its effects on living systems and on the environment this term was used for the first time in 1935 but the attention of scientists to the biological component of the atmosphere goes back to 1769 when the italian biologist spallanzani carried out a series of experiments that disproved the concept of spontaneous generation of life and proved the presence of viable microorganisms in the air aerobiology has marked characteristics of interdisciplinarity its application fields range from respiratory diseases to the airborne outbreak of animal and vegetal diseases and to the biodegradation of substances and materials the latter is the subject of this book the purpose of aerobiological research applied to the conservation of cultural heritage is to evaluate the risk of alteration by airborne microorganisms of materials forming artefacts of historical artistic and archaeological interest airborne spores and vegetative structures may develop on different substrates and may be a cause of degradation in relation to the types of materials the microclimatic situation and the pollution of the conservation environments the qualitative and quantitative evaluation of the biological component of air performed by means of targeted analysis campaigns and of the characteristics of materials and environments supplies indispensable information for the evaluation of the actual risk and the planning of interventions this book is divided into four main parts

microbial defacement and degradation of artistic or historic artifacts is a worldwide

problem affecting all countries regardless of their history geographical location or economic conditions this is the first comprehensive study of the role of microbial colonization on the degradation of different cultural artifacts from buildings to books wall paintings textiles sculptures and glass and of the investigations into the compounds utilized to control microbial invasion the book focuses on three main areas the identification of the microorganisms which cause structural damage methods to reduce or prevent microbial colonization and damage and the use of microorganisms for the protection and bioremediation of cultural artifacts

the world s monuments art objects and archeology are at increasing risk of deterioration from environmental threats e g climate change air pollution and tourism microorganisms play a central role in these deterioration processes they grow both on the surface and in the interiors of many materials our understanding of the role that the microbial community plays in these activities has improved significantly in recent years and a deeper understanding of the mechanisms of degradation is now possible in addition new tools have opened the door to the use of bacteria as protective agents in this book contributors have focused on the essential role that biodeterioration plays in both the deterioration and preservation of a wide range of materials the volume brings together recent research by conservation microbiologists working in diverse environments in addition papers are included on the effects of microbial biofilms and climate change on the biodeterioration process it is hoped that this book will prove helpful to microbiologists chemists and other scientists working in the field of conservation it should also be useful to practicing conservators and individuals in public policy concerned with the protection of our world s cultural heritage treasures contents section i the impact of the environment on biodeterioration and preservation of heritage materials the importance of microbial biofilms in deterioration of heritage materials marc w mittleman effects of climate change on the biodeterioration of historic materials peter brimblecombe section ii biodeterioration and preservation processes microbial processes involved in deterioration of paper and parchment flavia pinzari biodeterioration of photographic and cinematographic materials methods of investigation domenico pangallo biodeterioration of easel paintings an overview a teresa caldeira cátia salvador tânia rosado and antónio candeias modern materials and contemporary art francesca cappitelli and federica villa use of dyes as a method to control textile biodeterioration barbara blyskal biodeterioration of paintings in caves catacombs and other hypogean sites clara urzi laura bruno and filomena de leo limestone biodeterioration examples from portugal a c pinheiro n mesquita and antónio portugal reasons for removing biological materials from calcareous stone monuments margaret breuker and joannie bottkol

one of two books based on the proceedings of the first international conference on the archaeology of ships of war held at the royal naval college greenwich from the 31st october to the 1st november 1992

this familiar guide to information resources in the humanities and the arts organized by subjects and emphasizing electronic resources enables librarians teachers and students to quickly find the best resources for their diverse needs authoritative trusted and timely information resources in the humanities and the arts sixth edition introduces new librarians to the breadth of humanities collections experienced librarians to the nature of humanities scholarship and the scholars themselves to a wealth of information they might otherwise have missed this new version of a classic resource the first update in over a decade has been refreshed to account for the myriad of digital resources that have rewritten the rules of the reference and research world and been expanded to include significantly increased coverage of world literature and languages this book is invaluable for a wide variety of users librarians in academic public school and special library settings researchers in religion philosophy literature and the performing and visual arts graduate students in library and information science and teachers and students in humanities the arts and interdisciplinary degree programs

based on original contributions by specialists this manual covers both the theory and the practice required in the management of museums it is intended for all museum and art gallery profession staff and includes sections on new technology marketing volunteers and museum libraries

these 13 papers which are taken from a conference held in bristol in 1999 present new research from within the archaeological sciences

since prehistoric times and throughout the course of human evolution wood has been an integral part of all civilizations wooden cultural heritage can be found worldwide providing valuable information on the social and economic context of human history nonetheless as a natural cellulosic material wood shows low resistance to biodeterioration and thus wooden cultural heritage often fails to escape decomposition in both aquatic and terrestrial ecosystems this book provides a comprehensive overview on the biodeterioration of wooden cultural heritage and describes the decay mechanisms of key organisms and microorganisms encountered in aquatic and terrestrial ecosystems cultural heritage professionals researchers and academics may explore within this book the associations between deteriogens habitats and decay which will assist them to understand wood biodeterioration and design effective prevention mitigation and remediation strategies the book presents case studies around the world to demonstrate the impact of biogenic deterioration on wooden cultural heritage and illustrates mechanisms and patterns in order to be a useful handbook of decay diagnosis lastly by adopting a holistic approach to wood decay basic concepts of wood technology ecology and deteriogens biology are introduced permitting readers of different scientific backgrounds to easily comprehend wood biodeterioration

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