

Biodeterioration of Stone Surfaces

Lichens and Biofilms
as Weathering Agents
of Rocks and Cultural Heritage



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Biodeterioration Of Stone Surfaces

Guillaume Favre



Biodeterioration Of Stone Surfaces:

Biodeterioration of Stone Surfaces Larry St.Clair,Mark Seaward,2012-11-02 This is a timely volume in view of the considerable interest currently shown in the preservation of our cultural heritage and the extensive and growing literature on the subject Unfortunately the latter is to be found in a wide variety of published sources some aimed at a very specific readership and therefore not all that accessible to those who need this resource The present volume draws together a spectrum of biodeterioration work from across the world to provide an overview of the materials examined and the methodologies employed to elucidate the nature of the problems as well as an extensive and current bibliographical resource on lichen biodeterioration Biodeterioration of historical and culturally important stone substrata is a complex problem to be addressed Easy risk free solutions are simply not available to be dealt with by other than a wide range of expertise Successful resolution of this issue will inevitably require a multidisciplinary effort where biologists work in close cooperation with ecologists geologists geochemists crystallographers cultural property conservators archaeologists anthropologists and historians in order to recommend the most effective management scheme The advantage of this approach is obvious multidisciplinary management teams with good leadership can ask more appropriate questions while developing much more thoughtful and informed decisions *Biodeterioration of Stone Surfaces* Larry St Clair,Mark Seaward,2014-01-15

Biodeterioration of Stone in Tropical Environments Rakesh Kumar,Anuradha V. Kumar,1999 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 **Recent Advances in Lichenology** Dalip Kumar Upreti,Pradeep K. Divakar,Vertika Shukla,Rajesh Bajpai,2014-12-18 This book discusses in detail molecular mycobiont culture biomonitoring and bioprospection of lichens providing insights into advances in different fields of lichenology by applying modern techniques and approaches and examining how their application has enhanced or changed classical approaches It offers a valuable resource especially for beginners students and researchers from different academic backgrounds interested in the study of lichens In recent years the introduction of modern analytical techniques and approaches has significantly improved our understanding of the environment including lichens Lichens are unique organisms which possess untapped potential as effective and reliable bioindicators sources of therapeutic phytochemicals and as excellent extremophiles The unique and peculiar characteristics of lichens underline the need for a multidimensional approach to explore their potential in various fields of environment science botany and chemistry Modern techniques especially molecular techniques have greatly enriched the field of lichen taxonomy and its position in the plant kingdom revealing little known species and exploring their evolutionary history while multivariate analysis and GIS approaches have established lichens as an ideal and reliable tool for monitoring air pollution Advanced culture techniques

have expanded the pharmacological applications of lichens which was formerly restricted due to their small biomass The advent of sophisticated analytical instrumentation has now facilitated the isolation and characterization of lichens bioactive constituents even in lower concentrations as well as the estimation of their stress responses at different levels of pollution As lichen diversity is adversely affected by increasing air pollution there is a pressing need to develop effective management practices to conserve restore and document lichen diversity [NCPTT Notes](#) National Center for Preservation Technology and Training (U.S.),1998

Advances in Applied Microbiology ,2009-03-11 Published since 1959 Advances in Applied Microbiology continues to be one of the most widely read and authoritative review sources in microbiology The series contains comprehensive reviews of the most current research in applied microbiology Recent areas covered include bacterial diversity in the human gut protozoan grazing of freshwater biofilms metals in yeast fermentation processes and the interpretation of host pathogen dialogue through microarrays Eclectic volumes are supplemented by thematic volumes on various topics including Archaea and sick building syndrome Impact factor for 2007 1 821 Contributions from leading authorities and industry experts Informs and updates on all the latest developments in the field Reference and guide for scientists and specialists involved in advancements in applied microbiology

Molecular Biology and Cultural Heritage C. Saiz-Jimenez,2017-11-22 This book contains forty reviewed papers delivered at the International Congress on Molecular Biology and Cultural Heritage held in Seville March 2003 It is divided in four parts the first one presents the state of the art and reviews molecular techniques applied to the study of microbial communities colonizing monuments and cultural heritage assets Part two covers specific molecular techniques used in biodeterioration studies part three includes an updated overview on on going biodeterioration European Commission projects and part four presents selected biodeterioration case studies from all over the world

Coping with Biological Growth on Stone Heritage Objects Daniela Pinna,2017-05-18

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 antimicrobial 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

Women in Terrestrial Microbiology: 2022 Katharina Kujala, Paola Grenni, Anna Barra

Caracciolo, 2023-12-13 *Microbial Biodeterioration* Anthony H. Rose, 1981 De achteruitgang in waarde of kwaliteit van materialen door micro organismen wordt voor de volgende stoffen of goederen behandeld hout steen wol huden en vellen metalen schilderijen en beeldhouwwerk tabak brandstoffen en olien latex verfstoffen rubber kruiden en cosmetica plastics

Topics in Ecological and Environmental Microbiology Thomas M. Schmidt, Moselio Schaechter, 2011-09-08 Topics in Ecological and Environmental Microbiology provides an overview of ecological aspects of the metabolism and behavior of microbes microbial habitats biogeochemical cycles and biotechnology This essential reference was designed by selecting relevant chapters from the authoritative and comprehensive Encyclopedia of Microbiology 3rd edn and inviting the original authors to update their material to include key developments and advances in the field This concise and affordable book is an essential reference for students and researchers in microbiology mycology immunology environmental sciences and biotechnology Written by recognized authorities in the field Includes topics such as air quality marine habitats food webs and microbial adhesion Provides a thematic mix of both classic and cutting edge reviews with suggested further reading in each chapter

Saving Our Architectural Heritage N. S. Baer, R. Snethlage, 1997-04-03 It has become obvious that public policy will play a critical role in determining what portion of our architectural heritage will be passed on to future generations and what portion will be lost to deterioration development and natural hazards In developed nations as much as 10% of the built environment is deemed of sufficient cultural and historic importance to be given local or national listing At the international level UNESCO maintains a World Heritage List that includes many stone monuments While the past two decades have witnessed a growing body of research devoted to understanding the fundamental mechanisms of damage to stone and to developing strategies for the conservation of stone virtually no research has been conducted on the quantification of the economic role of stone buildings and structures as well as the valuation of cultural property In order to introduce the tools and methods of economic analysis to the public policy debate on the preservation of cultural property a multidisciplinary team of physical scientists worked with social scientists to explore how societal economic and ethical considerations might be

integrated with technological options to lead to informed policy decisions Recognizing that economic analyses must rest on firm technical data and sound conservation options the state of our knowledge of mechanisms and rates of damage the diagnosis of condition and the evaluation of treatment options were subjected to critical review special attention was given to the identification of promising innovative areas of research This volume represents an important first step in rationalizing the decision making process for the setting of public policy in the preservation of our architectural heritage It will be of interest not only to those actively engaged in research and conservation on stone structures but also to those concerned with urban planning public policy economic analysis and environmental standards setting Goal of this Dahlem Workshop to identify critical gaps in our knowledge of the deterioration mechanisms for treated and untreated historically important stone to suggest innovative approaches to the study of deterioration mechanisms and novel remedial measures for treated and untreated historically important stone and to address the socioeconomic factors that determine preservation actions for our architectural heritage

Proceedings of the First International Conference on Building Pathology Tina Bahns,1990

Recent Advances in Field and Laboratory Studies of Rock Weathering Heather A. Viles,2000 Rock weathering processes are fundamental to geomorphology and are also of applied interest as they affect buildings and structures made of natural stone This supplementary volume contains a collection of 13 substantive papers originally presented at a workshop in Oxford convened by the British Geomorphological Research Group Fixed Term Working Group on Rock Weathering The aim of the volume is to review a selection of new and established techniques for studying rock weathering and associated environmental factors such as micro climate and microbial colonisation The first 8 papers discuss various aspects of field studies of weathering including micro catchment experiments laser scanners photogrammetry and mapping The following 4 papers discuss aspects of laboratory experimentation and analysis of weathered material including sampling strategies measuring permeability and the use of microscopy A final paper investigates some of the issues involved in weathering models

Conservation of Building Stones Anuradha V. Kumar,2001 This Book Addresses Stone Deterioration Which Poses A Serious Challenge For Professionals Involved In The Conservation Of Cultural Heritage Sites It Discusses In Detail Many Of The Available Conservation Materials And Treatments And Provides Specific Information On The Advantages And Limitations Of Each Treatment

Report on the Conservation and Restoration Work of the Northern Library Inside the Outermost Enclosure of Angkor Wat, Angkor Thom, Kingdom of Cambodia ,2010

Art and Archaeology Technical Abstracts ,1999

Cultural Heritage Microbiology Ralph Mitchell,Christopher J. McNamara,2010 Ideal for anyone concerned with recognizing and dealing with microbial deterioration of heritage materials Provides a unique single overview of the seminal literature in conservation microbiology Presents the current state of the art along with a synthesis of the major developments over the years Represents the findings of leading international experts and pioneers in the field Offers conservation scientists and conservators an inclusive view of the heritage conservation field plus extensive resources for further investigation

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Technical Note on the Restoration of Stone and Masonry in Historic Buildings Reynaldo A. Inovero, 2005 *The Science of the Total Environment*, 1995 An international journal for scientific research into the environment and its relationship with man

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