

Gerhard Banik and Irene Brückle



Paper and Water

A Guide for Conservators

Siegl
München

Paper And Water A Guide For Conservators

Paul Garside, Emma Richardson



Paper And Water A Guide For Conservators:

Paper and Water Gerhard Banik, Irene Brückle, Vincent Daniels, 2011 This is the first compendium for conservation professionals involved in the preservation of paper artifacts in archives libraries and fine art museums around the world The global team of expert authors explain the principal interactions between paper and water a topic of primary importance for every conservator working with paper artifacts and other cellulose based materials The work integrates knowledge from the different disciplines of paper engineering conservation science and conservation practice and will serve as a textbook in a rapidly expanding profession that has virtually no customized education literature Water is present when paper is made It contributes to its deterioration and serves many essential functions when deteriorated paper is treated by conservators Drawing on paper industry and science research Paper and Water examines the relationship between paper and water Throughout the book theoretical information concerning basic principles that underlie the interaction of paper and water is presented in close association with practical information that informs the reader about mechanisms that govern conservation procedures Topics discussed in the book include structure and properties of dry and wet paper structure and properties of water paper production steps relevant to the interaction between paper and water influence of humid climate conditions on the deterioration of paper principles of aqueous deacidification preparation and use of aqueous solutions methods of treating paper with water as well as factors influencing their effectiveness mechanisms of drying paper during its production methods of drying paper in conservation historical and ethical dimensions of aqueous treatment in paper conservation Taking its inspiration from undergraduate and graduate science education textbooks and tested widely through use in workshops with students and specialist professionals in both Europe and USA this book is highly illustrated to make learning an efficient and pleasurable experience Visual material exclusively produced for this publication includes video animations laboratory videos and key references which appear on an accompanying DVD Each chapter in the book and video on the DVD are linked but can also function independently Several authors contributed to the manuscript among them Dr Vincent Daniels Research Fellow Royal College of Art London Professor D Steven Keller Associate Professor Paper Science and Engineering SUNY College of Environmental Science and Forestry Syracuse New York Joanna Kosek MA Acting Head Western Pictorial Art The British Museum London Dr Anthony W Smith Camberwell College of Art London and Professor Paul Whitmore Director Research Center on the Materials of the Artist and Conservator Carnegie Mellon University Pittsburgh PA Videos and Animations are by Professor Alfred Vendl and Stefan Fischer Technical Chemistry Science Visualisation Institute for Art and Technology at the University of Applied Arts Vienna The project and the book are financially supported by the Leonardo da Vinci Programme European Union and by a prestigious Conservation Publication Grant of the H Samuel Kress Foundation provided through the American Institute for Conservation of Historic and Artistic Works Paper and Water is supported internationally by the Institute for Paper Conservation IPC the International Centre for the Study of the Preservation and

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Paper and Water Gerhard Banik,Irene Brückle,Vincent Daniels,Stafan Fischer (računalniški animator.),Steven W. Keller,Joanna M. Kosek,Reinhard Lacher,Anthony W. Smith,Alfred Vendl,Günther Wegele,Paul M. Whitmore,2012

Conservation Science Paul Garside,Emma Richardson,2021-12-03 Conservation techniques for the analysis and preservation of heritage materials are constantly progressing Building on the first edition of Conservation Science this new edition incorporates analytical techniques and data processing methods that have emerged in the past decade and presents them alongside notable case studies for each class of material An introductory chapter on analytical techniques provides a succinct overview to bring the reader up to speed with which type of material each technique is suitable for the differing sampling techniques that can be employed and the handling and processing of the resultant data Subsequent chapters go on to cover all common heritage materials in turn from natural substances such as wood and stone to modern plastics detailing the up to date techniques for their analysis With contributions by scientists working in the museum and heritage sector this textbook will interest students scientists involved in conservation and conservators who want to develop their understanding of their collections at a material level

The Care of Prints and Drawings Margaret Holben Ellis,2016-12-15 The 2nd edition of The Care of Prints and Drawings provides practical straightforward advice to those responsible for the preservation of works on paper ranging from curators facility managers conservators registrars collection care specialists private collectors artists or students of museum studies visual arts art history or conservation A greater emphasis is placed on preventive conservation a trend among collecting institutions which reflects the growing recognition that scarce resources are best expended on preventing deterioration rather than on less effective measures of reversing it Expanded and richly illustrated chapters include Supports for Prints and Drawings discusses the properties of parchment and paper and introduces the general preservation needs and conservation problems of all works on paper regardless of their media Conservation Problems Related to the Paper Support of Prints and Drawings presents a guide to recognizing the symptoms and diagnosing the causes of damage specific to paper Conservation Problems Related to the Materials and Techniques of Prints describes the conservation problems that affect certain printmaking materials and arise from specific processes Conservation Problems Related to the Materials and Techniques of Drawings focuses on the various materials used to create marks on paper Item Level Collection Protection Envelopes Sleeves Folders Enclosures Mats Boxes Frames and Furniture discusses measures taken for prints and drawings so that they can better withstand the rigors of handling examination exhibition travel and adverse environmental conditions Preventive Conservation for Prints and Drawings describes how the integration of a comprehensive Collections Care Program into a Collections

Management Policy can reduce the need for item level conservation treatments Basic Paper Conservation Procedures provides instructions on how to stabilize damaged works How to Make Starch Paste and Methyl Cellulose Adhesive and Suppliers of Paper Conservation Materials and Equipment are appended as well as a Glossary *Historical Perspectives in the Conservation of Works of Art on Paper* Margaret Holben Ellis,2015-02-01 This book is the seventh in the Readings in Conservation series which gathers and publishes texts that have been influential in the development of thinking about the conservation of cultural heritage The present volume provides a selection of more than ninety five texts tracing the development of the conservation of works of art on paper Comprehensive and thorough the book relates how paper conservation has responded to the changing place of prints and drawings in society The readings include a remarkable range of historical selections from texts such as Renaissance printmaker Ugo da Carpi s sixteenth century petition to the Venetian senate on his invention of chiaroscuro Thomas Churchyard s 1588 essay in verse A Sparke of Frenship and Warne Goodwill and Robert Bell s 1773 piece Observations Relative to the Manufacture of Paper and Printed Books in the Province of Pennsylvania These are complemented by influential writings by such figures as A H Munsell Walter Benjamin and Jacques Derrida along with a generous representation of recent scholarship Each reading is introduced by short remarks explaining the rationale for its selection and the principal matters covered and the book is supplemented with a helpful bibliography This volume is an indispensable tool for museum curators conservators and students and teachers of the conservation of works of art on paper

Biodeterioration of Cultural Heritage Hanna Szczepanowska,2023-04-26 Fungi induced stains on paper are one of the most challenging forms of biodeterioration to study and to prevent this is because they involve living organisms and the ways in which fungi respond to changes in the environment and modifications of paper are unpredictable Yet there is a great desire among those who encounter fungi on documents manuscripts or artwork to remove fungi and clean the paper This experience in most cases is particularly challenging What are the reasons behind this challenge This ground breaking book attempts to answer this question among others by exploring the complex interfacial forces between paper fungi and their pigmented secretions which result in bio stains on paper Black fungi collectively referred to as Dematiaceous fungi were used in this study as a subset of pigment producing fungi species The focus is on two under studied aspects of the fungi infestation of paper an interface of fungal pigments and paper and the impact of light on the production of fungi bio stains The results of analytical testing included in this book elucidate the synergistic interactions between the environment biological clocks of the microorganisms and secretion of fungal pigments to paper The black fungal pigment formation is explored in depth in two scenarios one that is natural when the bio stains of original artworks have occurred over time by chance and another induced by *Aspergillus niger* in bio simulation on known papers in a controlled environment The findings are intended to provide guidance for preservation strategies mitigating the biodeterioration of paper and designing conservation treatment when applicable The surface of artworks and artifacts is of great aesthetic and artistic

importance conversely it plays a significant role in governing fungal attachments In this book the paper surface is characterized in detail and in correlation with chemical and physical alterations caused by fungal pigmentation A broad range of analytical instruments was used for surface characterization such as surface metrology profilometers a confocal laser scanning microscope and environmental scanning electron microscope chemical microanalysis was carried out using X ray energy dispersive spectroscopy The novel three dimensional characterization of pigmented fungal inclusions and their interaction with paper matrix was studied with micro X ray computed micro tomography on the synchrotron ESRF The proposed book is the first to explore the complexity of fungal paper interactions with the intention to assist professionals working with cultural materials especially paper based materials to make informed decisions when dealing with the fungi infestation of paper

□□□□□□□□□□□□ □□□,□□□,2024-05-01 *Digital Curation: Breakthroughs in Research and Practice* Management Association, Information Resources,2018-08-03 The effective use of technology offers numerous benefits in protecting cultural heritage With the proper implementation of these tools the management and conservation of artifacts and knowledge are better attained Digital Curation Breakthroughs in Research and Practice is a critical source of academic knowledge on the preservation selection collection maintenance and archiving of digital materials Highlighting a range of pertinent topics such as electronic resource management digital preservation and virtual restoration this publication is an ideal reference source for digital curators technology developers IT professionals academicians researchers and graduate level students interested in the curation and preservation of digital resources

Nanotechnology in Paper and Wood Engineering Rajeev Bhat,Ashok Kumar Nadda,Tuan Anh Nguyen,Swati Sharma,2022-01-21 Nanotechnology in Paper and Wood Engineering Fundamentals Challenges and Applications describes recent advances made in the use of nanotechnology in the paper and pulp industry Various types of nano additives commonly used in the paper industry for modification of raw material to enhance final products are included with other sections covering the imaging applications of nano papers and nano woods in pharmaceuticals biocatalysis photocatalysis and energy storage This book is an important reference source for materials scientists and engineers who are looking to understand how nanotechnology is being used to create more efficient manufacturing processes in for the paper and wood industries Provides information on nano paper production and its applications Explains the major synthesis techniques and design concepts of cellulosic or wooden nanomaterials for industrial applications Assesses the major challenges of creating nanotechnology based manufacturing systems for wood and paper engineering

Multiphysics and Multiscale Building Physics Umberto Berardi,2024-12-05 This book contains selected papers presented at the 9th edition of the official triennial conference of the International Association of Building Physics IABP held in Toronto Ontario Canada on 25 27 July 2024 The contents make valuable contributions to academic researchers and practioners of the building sector Readers will encounter new ideas for realizing more efficient and resilient buildings and cities The approach followed in the book aims to explore how building physics can be explored using multi domains and

scales **Tibetan Printing: Comparison, Continuities, and Change** ,2016-05-30 In Tibetan Printing Comparisons Continuities and Change the editors publish the results of the workshop Printing as an Agent of Change in Tibet and beyond held at Pembroke College Cambridge in November 2013 This is the first study of the social and cultural history of Tibetan book technology that takes materials living traditions and cross cultural comparisons into consideration Bringing together leading experts from different disciplines it discusses the introduction of printing in Tibetan societies in the context of Asian book cultures with an eye to the questions raised by the study of the European history of printing This title is available online in its entirety in Open Access Contributors are Tim Barrett Alessandro Boesi Peter Burke Michela Clemente Hildegard Diemberger Dorje Gyeltsen Franz Karl Ehrhard Helmut Eimer Johan Elverskog Camillo Formigatti Imre Galambos Agnieszka Helman Wazny Tomasz Wazny Sherab Sangpo Kawa Peter Kornicki Leonard van der Kuijp Stefan Larsson Ben Nourse Anuradha Pallipurath Porong Dawa Paola Ricciardi Tsering Dawa Sharshon Sam van Schaik Cristina Scherrer Schaub Marta Sernesi Pasang Wangdu **Hand Papermaking** ,2004 **Conservation of Books** Abigail Bainbridge,2023-03-27 Conservation of Books is the highly anticipated reference work on global book structures and their conservation offering the first modern comprehensive overview on this subject The volume takes an international approach to its subject Written by over 70 specialists in conservation and conservation science based in 19 countries its 26 chapters cover traditional book structures from around the world the materials from which they are made and how they degrade and how to preserve and conserve them It also examines the theoretical underpinnings of conservation what and how to treat and the ethical cultural and economic implications of treatment Technical drawings and photographs illustrate the structures and treatments examined throughout the book Ultimately readers gain an in depth understanding of the materiality of books in numerous global contexts and reflect on the practical considerations involved in their analysis and treatment Conservation of Books is a quintessential reference work for book conservators and anyone working with books such as collection managers librarians curators dealers collectors historians and related professionals It is also an indispensable text for students to complement hands on training in this field **Nanotechnology for Agriculture: Crop Production & Protection** Deepak G. Panpatte,Yogeshvari K. Jhala,2019-12-07 The emergence of nanotechnology and the development of new nanodevices and nanomaterials have opened up exciting opportunities for novel applications in agriculture and biotechnology Nanotechnology has the potential to modernize agricultural research and practice but although it has gained momentum in the agriculture sector over last decade there are still knowledge gaps between scientific communities This book presents a comprehensive overview of current developments in nanotechnology based sustainable agriculture Focusing on various aspects of nanotechnology in different sectors of agriculture such as crop production soil fertility management and crop improvement it offers insights into the current trends and future prospects of nanotechnology along with the benefits and risks and their impact on agricultural ecosystems It also highlights the use of nanotechnology to reduce agrochemical usage to increase

nutrient uptake efficiency and to improve water and nutrient management and the use of nano biosensors to manage plant diseases The book is a valuable reference resource for scientists policymakers students and researchers who are engaged in developing strategies to cope with current agricultural challenges Panorama del papel como principal soporte documental Adriana Gómez Llorente,Alejandra Odor Chávez,2023-01-25 En los últimos veinte años los estudios en América Latina sobre el libro la edición y la lectura han tenido un avance significativo La consolidación de grupos de trabajo y de líneas de investigación en distintas instituciones y espacios educativos más la consecuente aparición de un importante conjunto de tesis centradas en temas y problemas de diversas manifestaciones de la cultura escrita han permitido que este campo cobre un renovado dinamismo y una gran vitalidad A esto se han sumado una variedad de foros académicos como congresos encuentros y coloquios y también la publicación de numerosos artículos en revistas de todo tipo De forma paralela a la educación y la difusión en varios países de la región han florecido colecciones especializadas en libros sobre libros que han contribuido a fortalecer el campo en sus cruces con otras disciplinas como la historia la sociología la filología la antropología la literatura el diseño y la comunicación visual por mencionar algunas Sin embargo ese énfasis editorial no ha estimulado una vertiente de divulgación lo que deriva en una carencia de obras y colecciones pensadas para el público general y el estudiantil

Comprehensive Guide to Emergency Preparedness and Disaster Recovery Frances C. Wilkinson,Linda K. Lewis,Nancy K. Dennis,2010 Art Index Retrospective ,2006 International Preservation News ,2013 Collector's Guide ,1999 The Collector's Guide strives to be a trusted partner in the business of art by being the most knowledgeable helpful and friendly resource to New Mexico's artists art galleries museums and art service providers Through a printed guidebook the World Wide Web and weekly radio programs we serve art collectors and others seeking information about the art and culture of New Mexico Attorney's Guide to Document Examination Katherine Koppenhaver,2001-12-30 Attorneys must develop many skills in order to benefit fully from their collaborations with forensic document examiners in cases involving questioned documents This comprehensive guide for attorneys provides a thorough grounding in how to prepare for court and deposition testimony It also explains how to select appropriate comparison documents for forensic document examiners the basic principles of handwriting identification the knowledge of which enables lawyers to challenge incorrect statements and what document examiners can and cannot determine based on the evidence When the authenticity of a document is in question in the courtroom forensic document examiners are brought in to determine such things as whether a signature has been forged whether the document has been altered and whether it is all things it purports to be The examination of suspect documents generally involves comparison with examples of known genuine writing Attorneys need to know how to select appropriate comparison documents for forensic document examiners This is but one of the many skills that attorneys must develop in order to benefit fully from their collaborations with forensic document examiners and it is explained here in detail So too are the basic principles of handwriting identification the knowledge of which enables lawyers to challenge incorrect statements

This comprehensive and thorough guide for attorneys also explains what document examiners can and cannot determine based on the evidence and it provides a thorough grounding in how to prepare for court and deposition testimony. Among the many unique features of this attorney's guide is an extensive list of questions for lawyers to ask their own and their opponent's expert witnesses before going to trial. The deposition of a forensic document examiner includes questions relating to the examiner's experience, working methodology, background, and education, knowledge base, certifications, achievements, and many other items relating to the examiner's abilities. Next, an extensive set of questions helps lawyers ask for the right information pertaining to the examiner's specific methods of preparation for the case at hand. After the deposition is taken, the expert must be qualified in court; this book includes 60 qualifying questions. After qualification, it is time to move on to questions about document examination and the case being litigated. Finally, new questions pertaining specifically to the cross-examination of document examiners are presented once again, relating to credentials and a given case. This valuable resource concludes with a chapter describing the relevance of various court citations involving handwriting. Appendices are devoted to suggested reading, a resource list of experts related to the field (including photographers, librarians, and appraisers), organizations, and a glossary of technical terms.

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