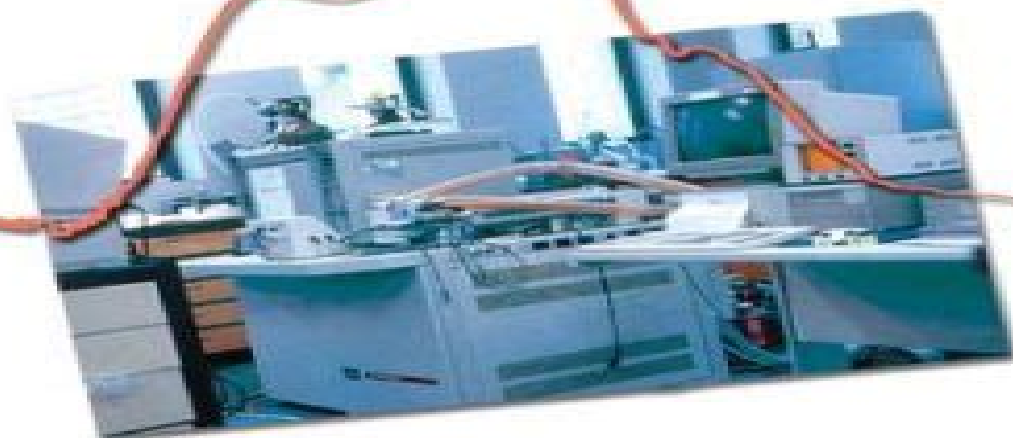
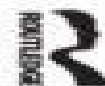


THE ORGANIC CHEMISTRY OF MUSEUM OBJECTS

SECOND EDITION



JOHN S MILLS
RAYMOND WHITE



Organic Chemistry Of Museum Objects

**John Stuart Mills, Raymond White
(Principal scientific officer)**



Organic Chemistry Of Museum Objects:

The Organic Chemistry of Museum Objects John Stuart Mills, Raymond White, 1999 The Organic Chemistry of Museum Objects makes available in a single volume a survey of the chemical composition properties and analysis of the whole range of organic materials incorporated into objects and artworks found in museum collections The authors cover the fundamental chemistry of the bulk materials such as wood paper natural fibres and skin products as well as that of the relatively minor components incorporated as paint media varnishes adhesives and dyes This expanded second edition now in paperback follows the structure of the first though it has been extensively updated In addition to chapters on basic organic chemistry analytical methods analytical findings and fundamental aspects of deterioration the subject matter is grouped as far as possible by broad chemical class oils and fats waxes bitumens carbohydrates proteins natural resins dyestuffs and synthetic polymers This is an essential purchase for all practising and student conservators restorers museum scientists curators and organic chemists

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The Organic Chemistry of Museum Objects ,1994 **The Organic Chemistry of Museum Objects** Stephen G Rees-Jones, 1987-02-24 The Organic Chemistry of Museum Objects provides an account of the composition chemistry and analysis of the organic materials which enter into the structures of objects in museum collections This book is not intended to duplicate the information available in existing handbooks on the materials and techniques of art and conservation but rather to convey the state of knowledge of the chemical composition of such materials and so provide a framework for a general understanding of their properties The book begins with a review of basic organic chemistry covering hydrocarbons and compounds with functional groups It then describes spectrometry and separation methods This is followed by discussions of the chemistry and composition of oils and fats natural waxes bituminous materials carbohydrates proteins and natural resins and lacquers Subsequent chapters deal with synthetic materials i e high molecular weight polymers of a wholly synthetic nature and natural and synthetic dyestuffs Also discussed are the deterioration and other changes in organic materials resulting from both free radical and ionic

reactions and the application of analytical methods to identify the organic materials of actual museum objects This book is intended for both chemists and nonchemists

The Organic Chemistry of Museum Objects John Stuart Mills, Raymond White, 1994 This book makes available in a single volume a survey of the chemical composition properties and analysis of the whole range of organic materials incorporated into objects and artworks found in museum collections The authors cover the fundamental chemistry of the bulk materials such as wood paper natural fibres and skin products as well as that of the relatively minor components incorporated as paint media varnishes adhesives and dyes This expanded second edition follows the structure of the first though it has been extensively updated In addition to chapters on basic organic chemistry analytical methods analytical findings and fundamental aspects of deterioration the subject matter is grouped as far as possible by broad chemical class oils and fats waxes bitumens carbohydrates proteins natural resins dyestuffs and synthetic polymers Since the first edition significant advances have been made in some fields the red insect dyestuffs synthetic varnish resins and the use of antioxidants for example and are given more extended discussion while some other topics such as the synthetic resin parylene are newly introduced

Chemical Principles of Textile Conservation Agnes Timar-Balazsy, Dinah Eastop, 2012-09-10 Chemical Principles of Textile Conservation provides must have knowledge for conservators who do not always have a scientific background This vital book brings together from many sources the material science necessary to understand the properties deterioration and investigation of textile artefacts It also aids understanding of the chemical processes during various treatments such as cleaning humidification drying disinfestation disinfection and the use of adhesives and consolidants in conservation of historical textiles Textile conservators will now have ready access to the necessary knowledge to understand the chemistry of the objects they are asked to treat and to make informed decisions about how to preserve textiles The combination of a chemist and a conservator provides the perfect authorial team It ensures a unique dual function of the text which provides textile conservators with vital chemical knowledge and gives scientists an understanding of textile conservation necessary to direct their research The many practical examples and case studies illustrate the utility of the relatively large chemical introduction and the essential chemical information which is included The case studies many illustrated in colour range from the treatment of the Ghandis clothes high altitude flying suits and a Mary Quant raincoat to the Hungarian Coronation Mantle

Effects of Light on Materials in Collections Terry T. Schaeffer, 2001-08-16 The impact of light on works of art and archival materials has long been an issue of concern to conservators and other museum professionals yet the literature on this subject has never been systematically reviewed This volume fills that gap by providing a survey of the impact of exposure to light with an emphasis on photoflash and reprographic sources The information provided will assist the professional audience especially conservators and collections managers in assessing the risk to art and archival objects of such exposures The text surveys relevant photophysical and photochemical principles photometric and radiometric measurement and the spectral outputs of several light sources

Materials discussed include colorants and natural fibers pulp paper and wood natural and synthetic polymers fluorescent whitening agents photographic and reprographic materials and objects containing combinations of materials Approximations and assumptions used in the evaluation process are discussed in some detail with examples of the different types of calculations The Research in Conservation reference series presents the findings of research conducted by the Getty Conservation Institute and its individual and institutional research partners as well as state of the art reviews of conservation literature Each volume covers a topic of current interest to conservators and conservation scientists

Museum Lighting
David Saunders, 2021-01-12 This indispensable guide to museum lighting written by distinguished conservation scientist David Saunders is the first new volume of its kind in over thirty years Author David Saunders former keeper of conservation and scientific research at the British Museum explores how to balance the conflicting goals of visibility and preservation under a variety of conditions Beginning with the science of how light color and vision function and interact he proceeds to offer detailed studies of the impact of light on a wide range of objects including paintings manuscripts textiles bone leather and plastics With analyses of the effects of light on visibility and deterioration Museum Lighting provides practical information to assist curators conservators and other museum professionals in making critical decisions about the display and preservation of objects in their collections

Construction of Museum Support Facilities by the Smithsonian Institution
United States. Congress. Senate. Committee on Rules and Administration, 1978

Materials Issues in Art and Archaeology
VI Materials Research Society. Meeting, 2002 This volume the sixth in a continuing series presents cutting edge multidisciplinary work on the characterization of ancient materials the technologies of selection production and usage by which materials are transformed into objects and artifacts the science underlying their deterioration preservation and conservation and sociocultural interpretation derived from an empirical methodology of observation measurement and experimentation Preserving cultural heritage extends beyond artifact preservation to developing a critical understanding of how ancient people used technology and craft to solve problems of survival and organization and to make symbols or representations of what was important in their world especially for its maintenance longevity and beautification Of particular interest in this volume are contributions which explore the interface and overlap among traditional materials science the history of technology and the archaeological and conservation sciences or that investigate new methods and applications of materials science in art and archaeology Topics include conservation and preservation science preservation design characterization and assessment characterization new methods and improved techniques archaeological science and archaeometry site formation site analysis resource survey and organization of technology weathering dating technology and authentication archaeomaterials technology and society replicative experiments synthesis of materials and model systems historic technologies and ancient technology and modern craft

Materials Issues in Art and Archaeology, 2005

Selected Bibliography of Museological Literature, 1988

Guide to the Literature of Art History 2 Max Marmor, Alex

Ross,2005 This bibliography supplements the greatest of modern art bibliographies Etta Arntzen and Robert Rainwater s
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