International Archives of the History of Ideas Archives internationales d'histoire des idées

Founding Editors

Paul Dibon Jeremy Popkin

Volume 244

Honorary Editor

Sarah Hutton, Department of Philosophy, University of York, York, UK

Editor-in-Chief

Guido Giglioni, University of Macerata, Macerata, Italy

Associate Editor

John Christian Laursen, University of California, Riverside, CA, USA

Editorial Board Members

Jean-Robert Armogathe, École Pratique des Hautes Études, Paris, France Stephen Clucas, Birkbeck, University of London, London, UK Peter Harrison, The University of Queensland, Brisbane, Australia John Henry, Science Studies Unit, University of Edinburgh, Edinburgh, UK Jose R. Maia Neto, University of Belo Horizonte, Belo Horizonte, Minas Gerais, Brazil Martin Mulsow, Universität Erfurt, Gotha, Germany Gianni Paganini, University of Eastern Piedmont, Vercelli, Italy John Robertson, Clare College, Cambridge, UK Javier Fernández Sebastian, Universidad del País Vasco, Bilbao, Vizcaya, Spain Ann Thomson, European University Institute (EUI), Florence, Italy

Theo Verbeek, Universiteit Utrecht, Utrecht, The Netherlands Koen Vermeir, Paris Diderot University, Paris, France International Archives of the History of Ideas/Archives internationales d'histoire des idées is a series which publishes scholarly works on the history of ideas in the widest sense of the word. It covers history of philosophy, science, political and religious thought and other areas in the domain of intellectual history. The chronological scope of the series extends from the Renaissance to the Post-Enlightenment. Founded in 1963 by R.H. Popkin and Paul Dibon, the International Archives of the History of Ideas/Archives internationales d'histoire des idées, edited by Guido Giglioni and John Christian Laursen, with assistance of Former Director Sarah Hutton, publishes, edits and translates sources that have been either unknown hitherto, or unavailable, and publishes new research in intellectual history, and new approaches within the field. The range of recent volumes in the series includes studies on skepticism, astrobiology in the early modern period, as well as translations and editions of original texts, such as the *Treatise of the Hypochondriack and Hysterick Diseases* (1730) by Bernard Mandeville. All books to be published in this Series will be fully peer-reviewed before final acceptance.

Tanja C. Kleinwächter • Sarah Lowengard Friedrich Steinle Editors

Ordering Colours in 18th and Early 19th Century Europe



Editors
Tanja C. Kleinwächter
Technical University of Berlin
Berlin, Germany

Sarah Lowengard New York, NY, USA

Friedrich Steinle Inst. for the History and Philosophy of Science, Technology, and Literature Technical University of Berlin Berlin, Germany

ISSN 0066-6610 ISSN 2215-0307 (electronic)
International Archives of the History of Ideas Archives internationales d'histoire des idées ISBN 978-3-031-34955-3 ISBN 978-3-031-34956-0 (eBook)
https://doi.org/10.1007/978-3-031-34956-0

© The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Switzerland AG 2023

This work is subject to copyright. All rights are solely and exclusively licensed by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Paper in this product is recyclable.

Contents

1	Early Nineteenth-Century Europe	1
Par	t I Evolution of Colour Systems and Standards	
2	The Shape of Colour Order Systems and the Evolution of Colour Theory. José Luis Caivano	15
3	Materialisation of Vision: Colour Standards in the Early Sciences, Handicrafts, and Arts André Karliczek	39
Par	t II Colour Theory and Colour Order	
4	A Tale of Five Cities: Jacob Christoff Le Blon and His Development of Trichromatic Printing	57
5	Colour Theory by Mikhail Lomonosov: From Dyes and Mosaics to a Trichromatic Idea Nadezhda Stanulevich	85
6	Schiffermüller and Newton United in Sinter – Franz Uibelaker's Two-Colour-Theory (1781)	103
Par	rt III Arts, Crafts, Commerce and Colour Order	
7	Calau's Punic Wax, Lambert's <i>Farbenpyramide</i> (1772), and Prefabricated Watercolour Cakes	119
8	Testing Ground: Colour Samples in European Porcelain Manufactories	151

vi	Contents
V1	Contents

9	Fighting for the Best Pigment! Academic Colour Discourses in Kassel During the Nineteenth Century	167
Indo	e x	197

About the Editors

Tanja C. Kleinwächter studied history of science and technology and gender studies in Berlin. Her research focuses on the systematisation of colours in the eighteenth and nineteenth centuries. She is a PhD candidate and organised the workshop Ordering Colours.

Sarah Lowengard studies colour and colour production techniques to understand social life and cultural change in the early modern West. An artisan colour-maker and practising art conservator for more than 40 years, she teaches history of technology and history of science in New York City.

Friedrich Steinle is Professor of History of Science at Technische Universität Berlin. His research focuses on the history of experiment, of colour knowledge, and of electricity. Among his many publications on colour history, he co-edited (with M. Bushart) *Colour Histories: Science, Art, and Technology in the 17th and 18th Centuries* (2015).