



Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG



CENTRE FOR THE
STUDY OF
MANUSCRIPT
CULTURES

The Centre for the Study of Manuscript Cultures (CSMC)
presents the third International Conference on:

Natural Sciences and Technology in Manuscript Analysis

13-14 June 2018 at the CSMC in Hamburg

Wednesday, 13 June

1 pm Registration

2 pm Welcome and Introduction

Session I: MATERIAL ANALYSIS I

Chair: Oliver Hahn

2.15 pm **Elisabetta Boaretto**

Radiocarbon and Dating of a Manuscript: Material, Archaeological Context and Date Relation

3.00 pm **Tea Ghigo, Paola Buzi and Ira Rabin**

Scientific Systematic Study of Inks from Coptic Manuscripts

3.30 pm **Zina Cohen, Judith Schlanger and Ira Rabin**

X-Ray Fluorescence Analysis of black Medieval Inks: Characterization and Interpretation. Case Study of an 11th century Egyptian Corpus

4.00 pm Coffee Break

4.30 pm Round Table

Thursday, 14 June

Session II: RECOVERING OF LOST WRITING

Chair: Daniel Stoekl

9.00 am **David Messinger**

Hyperspectral Imaging of Historical Artifacts: A Novel Imaging Approach for the Study of Materials and Methods

9.45 am **Damianos Kasotakis, Michael B. Phelps and Kenneth Boydston**

Illuminating Techniques from the Sinai Desert

Thursday, 14 June

Session II: RECOVERING OF LOST WRITING

Chair: Daniel Stoekl

- 10.15 am **Keith T. Knox**
When Erased Iron Gall Characters Misbehave
- 10.45 am Coffee Break
- 11.15 am **Roger L. Easton Jr.**
Useful Metrics for Characterizing Multispectral Systems Used for Cultural Heritage Imaging
- 11.45 am **Ivan Shevchuk**
Spectral Imaging at the CSMC: Improving Data Acquisition and Analysis Techniques
- 12.15 pm **Leif Glaser and Ivan Shevchuk**
X-ray Fluorescence Element Mapping: Improving Data Analysis Efficiency
- 12.45 am Lunch Break

Session III: CUTTING EDGE TECHNIQUES & MATERIAL ANALYSIS II

Chair: Ira Rabin

- 2.30 pm **Myriam Krutzsch**
Material-Technical Details on Papyrus as Writing Support
- 3.15 pm **Élodie Attia and Léo Pascal**
The MBH Project 3D Experiment: Developing a 3D Virtual Room for Hebrew Biblical Medieval Manuscripts
- 3.45 pm **Daniel Stromer, Vincent Christlein, Patrick Zippert, Tino Hausotte, Xioalin Huang and Andreas Maier**
Unrolling a Soiled Chinese Bamboo Scroll by Using 3-D X-ray CT
- 4.15 pm Coffee Break
- 4.45 pm **Olivier Bonnerot, Sebastian Bosch, Ira Rabin, and Oliver Hahn**
*Scientific Service Project Z02 at the CSMC:
Material-Science Methods of Reconstructing the History of Manuscripts*
- 5.15 pm **Samanehalsadat Ehteram, Silvia Prati, Maurizio Aceto, Mojtaba Mahmoudi Khorandi, Elahe Alvandian, and Elisa Calà**
Analysis and Study of Pigments and Dyes used in a Persian Manuscript of the Qajar (18th to 20th century) Period from Yazd –Iran
- 5.45 pm Concluding Remarks