



### Directions

Bhf. Friedrichstraße

- RB + RE
- S1 S2 S5 S7 S25 S75
- U6

Bhf. Hackescher Markt

- S5 S7 S75
- Tram M1 M4 M5 12

S-Bhf. Oranienburger Straße

- S1 S2 S25

Tram Stop Universitätsstraße

- Tram M1 + 12

Bus Stop Staatsoper

- Bus 100 200 TXL

### HUMBOLDT-UNIVERSITÄT ZU BERLIN

Image

Knowledge

Gestaltung

From amazingly colorful antique relics to the attempts to standardize colors in biomedical imaging – color is gaining in relevance in the sciences. Yet the epistemic role of color, its long-standing neglect due to historic symbolic, in part gendered, ascriptions, and the function of color in visualizations for internal scientific use have not received much attention in the sciences and humanities to date.

The internal use of color in the sciences raises different epistemological questions to those that arise with images for external communication. The choice and symbolism of color in the latter case is guided to a greater degree by a need for simplification and considerations as to the expectations of a broader public. Colored images for internal scientific use emerge during the research process itself (as a medium for self-reflection) or are produced in appliances and used for intersubjective communication and to obtain feedback from the scientific community. Digital publishing has enhanced the use of color in scientific images, in contrast to the costly use of color in print media, whilst the globalization of the scientific community challenges the idea of universal color symbolism. All this raises the need for color awareness.

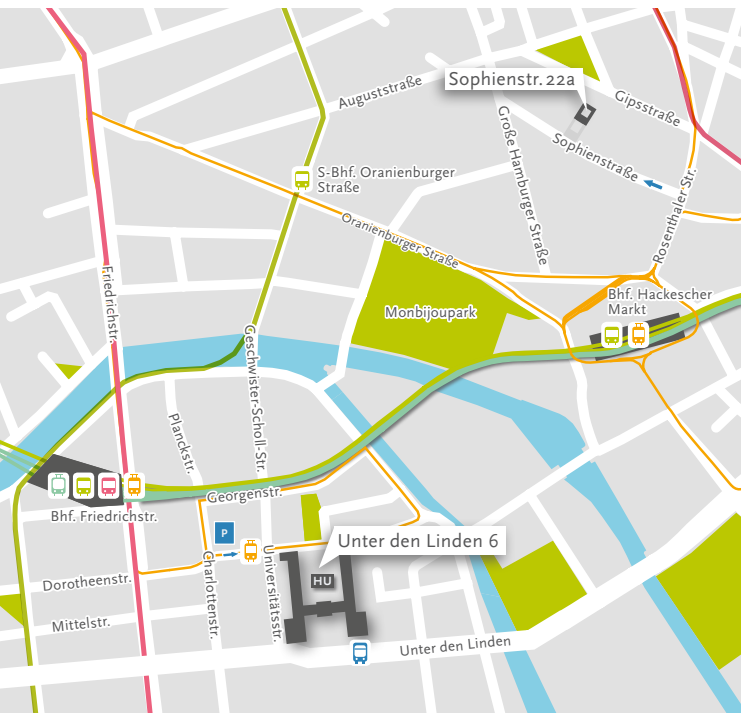
The history of the ontology of color has already gained some attention in history of science. It is of course not to disentangle from its meaningful use or non-use. Still, the conference rather focuses on the meaningful application of color and its interpretation by the sciences – and the history of such theorizing. It will explore changing theories on the use and non-use of color, such as those found in the discipline of archaeology, on the color conventions and strategies in scientific images that predominate today as well as in historical perspective and across disciplines. This encompasses the issue of the neglect of color as an object of scientific self-reflection and as an object of the humanities' research on the sciences. It is thus possible to trace the ambivalent entanglement of gender and color connotations through the history of the sciences. In brief: in this conference we invite participants to investigate the epistemic dimensions of color in the sciences, across disciplines and across history.

# ON THE EPISTEMIC DIMENSION OF COLOR IN THE SCIENCES

Conference | 17./18.11.2016

Interdisciplinary Laboratory Image Knowledge Gestaltung in the Hermann von Helmholtz-Zentrum für Kulturtechnik

[www.interdisciplinary-laboratory.hu-berlin.de/en](http://www.interdisciplinary-laboratory.hu-berlin.de/en)



Program, November 17

> Martin Gropius Bau Berlin  
Niederkirchnerstraße 7, 10963 Berlin

16:00 Registration, Welcome & Coffee

**17:00 Ulrike Boskamp**, Keynote  
(Institute for Art History, Free University Berlin)  
***Coding and Gendering Colour: Scientific, Epistemological and Aesthetic Discourses in 18th Century France***

Chair: Bettina Bock von Wülffingen

18:00 Wine reception on site for all participants

Registration open until 25th of October via email to Julia Weitzel  
> [julia.weitzel.1@hu-berlin.de](mailto:julia.weitzel.1@hu-berlin.de)

For any further questions please contact the organizer  
PD Dr. Bettina Bock von Wülffingen (Cluster of Excellence Image Knowledge Gestaltung / Base Project Rhizom)  
> [bettina.bock.v.wuelfingen@hu-berlin.de](mailto:bettina.bock.v.wuelfingen@hu-berlin.de)

Program, November 18

> Cluster of Excellence Image Knowledge Gestaltung,  
Interdisciplinary Laboratory, Sophienstr. 22a

9:30 Coffee

10:00 Welcome & Introduction: ***Color in Diagrams***  
**Bettina Bock von Wülffingen**

**10:30 Wolfgang Coy** (Computer Sciences, Humboldt-University,  
Cluster of Excellence Image Knowledge Gestaltung)  
***Colors we see – The CIE Color Spaces in Print and Projection***

**Ricardo Cedeño Montaña** (Institute for Cultural History  
and Theory, Humboldt-University)  
***The Technical Illusion of Colour: from the Trichromatic  
Theory to the Encoding of Electromagnetic Signals***

Chair: John Nyakatura

11:50 Brief Coffee Break

**12:00 Aldo Badano**, Keynote  
(Center for Devices and Radiological Health, FDA)  
***Color Visualization of Medical Images: Needs and  
Consistency Approaches***

Chair: Bettina Bock von Wülffingen

13:00 Lunch on site

**14:00 Daniel Baum** (Zuse-Institut Berlin, Working Group Image  
Analysis in Biology and Materials Science, Cluster of  
Excellence Image Knowledge Gestaltung)  
***A Data Visualization Perspective on the Use of Color***

**Margrit Vogt** (Institute for Language, Literature and Media,  
University Flensburg)  
***Color as a Provocation: On the Changes of Color Perception  
circa 1900 in European Metropolises***

Chair: Martin Grewe

15:00 Brief Coffee Break

**15:20 Nils Güttler** (ETH Zürich, Science Studies)  
***Meanings of Color in Geobotanical Maps in 19th Century***

**Linda Báez-Rubí** (The Warburg Institute, University of  
London, School of Advanced Study, Cluster of Excellence  
Image Knowledge Gestaltung / Instituto de Investigaciones  
Estéticas, UNAM)  
***Catholic Physics and the Theories of Paintings and of Light  
Regarding the Imprimatura of the Virgen de Guadalupe***

Chair: Jochen Hennig

16:20 Brief Coffee Break

**16:30 Alexander Nagel** (Department of Anthropology, Smithsonian  
Institution, National Museum of Natural History)  
***Many Things All At Once: Preserving the Knowledge of  
Ancient Sculptural Polychromy on a Site and in a Museum***

**Dominique Grisard**  
(Honorary Visiting Fellow at City University London)  
***Pink and Blue Science. The Popular Trickle-Down of the  
Psychology of Color***

Chair: Kathrin Mira Amelung

17:30 Finalizing remarks. Snacks and nibbles

All chairs: Cluster of Excellence *Image Knowledge Gestaltung*,  
Humboldt-University Berlin