



How can digital technology increase the acceptance of a fragmentary original object? Where are the boundaries between the original and a digital version and what risks are associated with this issue?

Professionals from eight countries will offer answers to these questions from the perspectives of conservation-restoration, art history, architecture, archaeology, computer science, and cognitive psychology. The case studies encompass more than 3000 years of cultural history and arise from very different contexts. A workshop and a tutorial will provide opportunities for hands-on experience. Participants will also be able to view and discuss various on-site presentations of original fragments. The conference will offer abundant opportunities for personal encounters and an interdisciplinary exchange of knowledge and ideas.

### Contact and Information

**HAWK**  
University of Applied Sciences and Arts  
Hildesheim/Holzminen/Göttingen  
Hornemann Institute  
Kardinal-Bertram-Strasse 36 | 31134 Hildesheim  
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**Venue**  
HAWK | Hohnsen 2 (Aula) | 31134 Hildesheim

**Registration**  
Application deadline: 15th April 2021.  
Registrations are considered in order of receipt of payment and subject to hygiene regulations at the time of the conference. Further information and registration under: [www.hornemann-institut.de/english/fragment\\_conference.php](http://www.hornemann-institut.de/english/fragment_conference.php)

**Child care**  
On request, the HAWK provides child care by student employees with educational experience. Please register your child at the Hornemann Institute until 1st April 2021.

**Co-Host**

- ICOMOS AG Konservierung-Restaurierung
- Verband der Restauratoren e. V.

**Conference language**  
The conference will be held in German and English. A simultaneous translation will not be possible.

Supported from the funds of the "Niedersächsisches Vorab"



**HAWK**



International Conference  
6<sup>th</sup> – 8<sup>th</sup> May 2021

# THE FRAGMENT IN THE DIGITAL AGE

## OPPORTUNITIES AND LIMITATIONS OF NEW CONSERVATION - RESTORATION TECHNIQUES

HAWK | Hohnsen 2 | Hildesheim



### Invitation to reflect on digital restoration

In many cases, works of art have only been handed down to us in fragmentary form. Dealing with the fragment is therefore one of the main tasks of museums and monument preservation. Based on various theoretical principles, there exists a broad spectrum of restorative possibilities—both real and virtual—between the two poles of complete restoration and simple maintenance of the fragmentary condition.

This conference aims to place the focus for the first time on the ethical questions: What do the new digital possibilities mean for the conservation, restoration, and communication of the historical fragment? Without a doubt, the new media encourage communication between professionals and the public and in doing so, offer great opportunities for a broader understanding and a sustainable preservation of our cultural heritage.

Thursday, 6<sup>th</sup> May 2021

#### SUPPORTING PROGRAMME

11:00 – 17:00

##### 3-D Workshop

Christine Fiedler, Hildesheim; Salome Hunziker, Freiburg

14:00 – 17:00

Tutorial on 2D-image analysis of historical photographs as a basis for geometric reconstructions  
Gunnar Siedler, Sebastian Vetter, Leipzig

16:30 – 18:00

Guided tours related to the handling of fragments (select one)

- Furniture, wooden objects, and paintings in the restoration workshops of the HAWK  
Ina Birkenbeul, Ralf Buchholz, Hildesheim
- The Golden Madonna in the Dommuseum Hildesheim  
Director Claudia Höhl
- The Albani-Psalter in the Dombibliothek Hildesheim  
Director Monika Suchan
- Fragments in the cityscape of Hildesheim  
Maike Kozok, preservation specialist
- City tour in English

19:00 Uhr

Public lecture in conjunction with the Hornemann lecture series (HAWK, Hohnsen 2, Aula)

- Welcome  
Angela Weyer, Hildesheim
- Dealing with fragmentary sculptures in the Bode Museum since 1945  
Paul Hofmann, Neville Rowley, Berlin
- Discussion  
Moderator: Ursula Schädler-Saub, Hildesheim
- Snacks, Warm-up

Friday, 7<sup>th</sup> May 2021

9:00 Conference office opens (HAWK, Hohnsen 2)

9:45 Welcome and opening remarks  
Wolfgang Viöl, Vice President of the HAWK for Research, Göttingen

Moderator: Angela Weyer, Hildesheim  
10:00 Keynote 1: Das Fragment zwischen realer und virtueller Ergänzung – zu den historischen und theoretischen Grundlagen und ihrer Bedeutung für unser heutiges Handeln  
Ursula Schädler-Saub, Hildesheim

10:40 Keynote 2: Wie werden Fragmente und Ergänzungen wahrgenommen und interpretiert? Rekonstruktionen als kognitive Werkzeuge  
Stefan Schwan, Tübingen

11:20 The Kunstwollen of the Machine-Learning Image  
Emily L. Spratt, New York

11:50 Discussion

12:15 Lunch break with opening of the poster sessions

Moderator: Jan Raue, Potsdam  
13:30 Virtuelle Anastylose als Werkzeug denkmalwissenschaftlicher Studien fragmentierter Großplastiken aus dem Totentempel Amenophis III  
Max Rahrig, Hourig Sourouzian, Rainer Drewello, Bamberg

14:00 Virtual Reconstruction as Complementary Method for the Protection of Monuments: the Case Study of the Statue of Shapur I  
Alireza Shahmohammadpour, Teheran

14:30 Re-Thinking the Conservation-Restoration Interventions of the 20th Century  
Nihan Kocaman Pavlovic, Istanbul

15:00 Discussion

15:15 Coffee break

Friday, 7<sup>th</sup> May 2021

Moderator: Stefan Schwingeler, Hildesheim  
15:45 Verlust und Wiederentdeckung. Historische Fragmente in narrativen Umgebungen  
Florina Pop, Innsbruck

16:15 May Digital Reconstruction Tools Help Preserve the Material and Evocative Value of Fragments? The Case of Victor Horta's Hôtel Aubecq in Brussels  
Claudine Houbart, Pierre Hallot, Lüttich

16:45 Architekturfragment im Stadtraum  
Markus Jäger, Mirco Becker, Hannover

17:15 Discussion

18:30 Special guided tours related to the mediation of fragments in the Roemer- und Pelizaeus-Museum  
Director Regine Schulz, Christian Bayer

19:30 Opportunity for dinner together at the NIL in the Roemer- und Pelizaeus-Museum with the first meeting of the work group "Digitalisierung in der Restaurierung"  
Moderator: Christine Fiedler, Hildesheim

Saturday, 8<sup>th</sup> May 2021

8:30 Conference office opens (HAWK, Hohnsen 2)

Moderator: Constanze Fuhrmann, Osnabrück  
9:00 Der zerschnittene „Raffael“ – digitale Lösungen für ein fehlendes Gemäldedrittel  
Hans Portsteffen, Katharina Hünerfauth, Köln

9:30 Aus zwei mach wieder drei Könige: 3D-Rekonstruktion eines gefassten Stuckreliefs  
Salome L. Hunziker, Freiburg

10:00 Fragmented Ceramic: Evaluation and Experimentation of the 3D Technologies for the Integration of Losses and Missing Parts of a Majolica Artefact  
Nicola Pagani, Davide Fodaro, Maria E. Prunas, Rome

10:30 Coffee break

Saturday, 8<sup>th</sup> May 2021

Moderator: Birgit Franz, Hildesheim  
11:00 Digitale Überblendung und virtuelle Ergänzung mit Augmented Reality – eine Möglichkeit der Kontextualisierung von Fragmenten in den archäologischen Sammlungsbeständen  
Manuel J. Hunziker, München

11:30 Bildgebung des Fragmentarischen. Die Spiegelung der Wandmalerei in analogen und digitalen Medien als Teil des Konservierungs- und Restaurierungsansatzes  
Jan Raue, Potsdam

12:00 Photogrammetrische Auswertung historischer Aufnahmen als wissenschaftliche Grundlage für (Teil-)Rekonstruktionen  
Gunnar Siedler, Sebastian Vetter, Leipzig

12:30 Methoden der Visualisierung des fragmentarischen Wandmalereibestandes im Oberen Kreuzgang der Domklausur in Brandenburg  
Sabine Krause-Riemer, Hildesheim; Katharina Pick, Paderborn

13:00 Discussion

13:15 Lunch break

Moderator: Stefan Schwingeler, Hildesheim  
14:00 Between lacunae and fragment: revisiting discourses around fragment and loss in international charters  
Hélia Marçal, Brian Castriota, London

14:30 Resumé of the conference and discussion of the guidelines for digital restoration with Max Rahrig, Jan Raue, Ursula Schädler-Saub, Stefan Schwingeler as well as Wolfgang Wolters, Berlin, and the audience

15:30 Conclusion of the conference