



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/Holzminden/Göttingen  
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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  
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