



Hornemann Institute News 1/2020

Dear newsletter recipients,
Our new conferences and updated online courses are important topics of this newsletter.
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Events



International Symposium

THE FRAGMENT IN THE DIGITAL AGE

Opportunities and risks of new conservation-restoration techniques (postponed)

30th September - 2nd October 2020, HAWK, Hildesheim (Germany)

This conference will focus on what the new digital possibilities mean for the preservation and mediation of the historical fragment. Experts from various disciplines currently perceive "a gap between the increasing importance and professionalization of the visual reconstruction of the historical on the one hand and the theoretical foundation of such activities on the other" (e.g. Blokker 2017, after Hoppe/Breitling 2016).

The aim of the critical debates at the conference is to produce a practical policy paper on how to deal with the fragment in the conservation-restoration sciences. The established ethical and theoretical principles of conservation-restoration must take into account the new digital possibilities with additional considerations of principles. Scientific standards should also apply to the digital world, i.e. the objective and speculative parts of virtual reconstructions must be clearly identifiable for viewers, and their psychological effects on perception must be recognised.

For information about the conference, the abstracts of the selected lectures and posters, see [here](#).

The conference will be held in German and English. A

simultaneous translation will not be possible.

E-Publishing



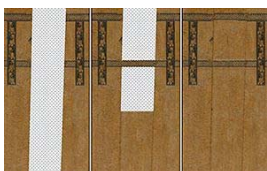
Academic Theses

Jennifer Oster:

Untersuchung und Entwicklung eines Konzeptes zur Restaurierung unter Berücksichtigung präventiver Aspekte für zwei bemalte neugotische Textilien mit Schimmelbefall aus St. Mariä Himmelfahrt in Kleve (*Investigation of two painted neo-Gothic textiles with mould infestation and from St. Mary's Assumption in Kleve and development of a concept for the restoration, taking into account preventive aspects*)

The present work deals with the examination of two painted neo-Gothic textiles (tapestry imitations) with mould from the church of St. Mariä Himmelfahrt in Kleve. In addition to the technological examination of the objects, including the registration of the state of preservation and various material analyses, a microbial infestation with a series of experiments on the growth behavior is performed. To clarify the cause of the mould problem, the environmental conditions of the objects in the church are analysed. Measurements of the climatic conditions, the air movement, the activity of the infestation, and the spore concentration of the indoor air are made. Moreover, preventive measures, such as increasing the distance between object and wall and the installation of an inner wall insulation, are tested. Subsequently, based on the knowledge gained, a treatment concept focusing on the mould problem is developed and a recommendation for the future presentation of the two tapestry imitations is provided.

Master's thesis 2019, HAWK Hildesheim, DOI: 10.5165/hawk-hhg/419

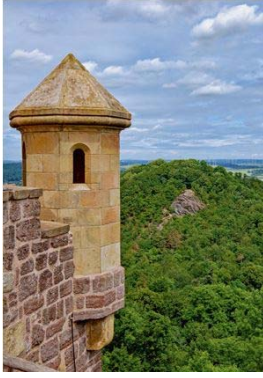


Christine Fiedler:

Digital gestützte Methoden zur Ergänzung von Fehlstellen in Einlegearbeiten an holzsichtigen Möbeln (*Digital-based methods for the replacement of losses in inlay work on furniture*)

In the study, various digitally-based options complementing the defects are demonstrated on the inlaid furniture, summing up the existing research and discussing the practicability of different methods. The focus here is on wooden inlays. By handling the theme in its general context (inlays, ethics, aesthetics, methods, techniques, materials), the complex problem of replacing losses in inlay work on furniture is revealed. The description of already implemented supplementary measures of a digital kind shows their various application possibilities within the restoration. The exemplary implementation of a digitally-based defects supplement in a case study, the Tobsdorfer choir stalls, illustrates the theoretical explanations.

Master's thesis, 2013, HAWK Hildesheim, DOI: 10.5165/hawk-hhg/423



Project Reports

Mathis Danelzik; Jana Weydt:

KNE-Fachdialog, Energiewende in der Nähe von UNESCO-Welterbe. Empfehlungen zur Vereinbarkeit von Windenergieausbau und UNESCO-Welterbestätten (*KNE Expert Dialogue, Energy system transformation in the vicinity of UNESCO World Heritage. Recommendations on the compatibility of wind energy development and UNESCO World Heritage Sites*)

Among other things, the expert dialogue drew up three joint recommendations for better compatibility between wind energy expansion and UNESCO World Heritage sites in Germany. DBU research paper 2019, DOI: 10.5165/hawk-hhg/421

Thomas Köberle, Matthias Zötzl, Heiner Siedel: Entwicklung eines Weiterqualifizierungsangebots zur Baustoffkenntnis und Anwendung von Heißkalkmörtel an umweltgeschädigtem Mauerwerk historischer Bauwerke

(*Development of a further qualification offer for building material knowledge and application of hot lime mortar on environmentally damaged masonry of historical buildings*)

Among other things, important material parameters for hot lime mortar were recorded and the success of existing restorations was evaluated.

DBU research paper 2019, DOI: 10.5165/hawk-hhg/420



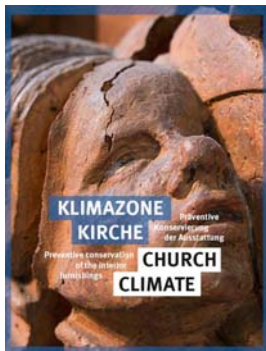
Conference Papers

Almost all papers of the HAWK Conference **Konsolidieren und Kommunizieren. Materialien und Methoden zur Konsolidierung von Kunst- und Kulturgut im interdisziplinären Dialog** (*Consolidation & Communication. Materials and Methods for the Consolidation of Cultural Heritage: An Interdisciplinary Dialogue*) (Series of publications by the Hornemann Institute, Vol. 18), Petersberg 2018, are online now:

- Ina Birkenbeul: Einführung ins Tagungsthema, DOI: 10.5165/hawk-hhg/425
- Velson Horie: Consolidation in conservation, an overview, DOI: 10.5165/hawk-hhg/426
- Richard Wascher, Georg Avramidis, Wolfgang Viöl: Modifikation von Holzoberflächen mit „Plasma“, DOI: 10.5165/hawk-hhg/427
- Steffen Laue, Katja Schmeikal, Rolf Däßler, Sandra Schorbach: Polykon – Quo vadis?, DOI: 10.5165/hawk-hhg/428
- Hannah Flock: Uniaxiale Zugprüfung von Bindemittel- und Klebstofffilmen: Vorstellung der Testmethode und ausgewählter Ergebnisse, DOI: 10.5165/hawk-hhg/429
- Wanja Wedekind, Christoph Schmidt, Helge Fischer: Die Bewertung der Steinfestigung an künstlich alterierten Probekörpern und an historischen Objekten aus Sandstein, DOI: 10.5165/hawk-hhg/430
- Karol Bayer, Johannes Weber: Kalk-Nanosuspensionen zur Gefügefestigung von porösen Kalksteinen – eine kritische Bewertung der Anwendungsmöglichkeiten und –grenzen, DOI: 10.5165/hawk-hhg/431

- Tabitha Dreyfuss, JoAnn Cassar: Consolidating porous limestone: from the laboratory to the field, DOI: 10.5165/hawk-hhg/432
- Gerhard D'ham: Konservierungsversuche an Tonschiefer Zur Erhaltung des Wandbehangs am Mönchehaus in Goslar, DOI: 10.5165/hawk-hhg/433
- Jörg Freitag: Die Verwendung von Epoxidharzschaum zur Restaurierung fragiler Objekte am Beispiel zweier Figuren aus Zinn, DOI: 10.5165/hawk-hhg/434
- Christine Fiedler, Ralf Buchholz: Dem Chorgestühl auf die Beine helfen. Kunstharzfestigung von Holzbauteilen als letzte Chance!, DOI: 10.5165/hawk-hhg/435
- Andrea Pataki-Hundt: Characteristics of natural and synthetic adhesives, DOI: 10.5165/hawk-hhg/436 Philipp Kron Morelli Interdisziplinäre Studie zur materialübergreifenden Anwendung von Funori, DOI: 10.5165/hawk-hhg/437
- Laura Völkel, Kyujin Ahn, Antje Potthast, Ulrike Hähner: Nanocellulose – Hoffnung auf ein innovatives Material für die Papierstabilisierung?, DOI: 10.5165/hawk-hhg/438
- Karolina Soppa: Vornetzen und Vorabsperren während der Klebung von saugenden Schichten auf Leinwandgemälden, DOI: 10.5165/hawk-hhg/439
- Rūta Butkevičiūtė, Janina Lukšėnienė, Jūratė Senvaitienė, Algimantas Vaineikis, Greta Žičkuvienė: Application of Cellulose Ethers for Structure Consolidation, DOI: 10.5165/hawk-hhg/440

New books



Klimazone Kirche. Präventive Konservierung der Ausstattung (*Climate in Churches. Preventive Conservation of the interior furnishings*)

Conference proceedings of the interdisciplinary conference of the HAWK University of Applied Sciences and Arts, 16-18 January 2019 in Hildesheim, ed. by: Ina Birkenbeul and Angela Weyer, Berlin 2019
 202 pages, 203 images, tables and diagrams
 Price incl. 7 % MwSt.: € 32,00 plus postage

Online courses

April 20th to June 28th 2020

On April 20, 2020, the online courses of the Hornemann Institute will start. They facilitate individual study with regard to time management, learning speed and the depth of knowledge you wish to achieve. You can check your personal progress



with the help of tests. A tutor will assist you whenever you encounter technical or content-related difficulties. Participants will receive a Hornemann Institute certificate upon successful completion of the program and after passing a final on-line examination.

- **Microbial Infestation of Objects of Art and Cultural Heritage** by Barbara Hentschel M.A. and Prof. Dr. Karin Petersen
- **Restoration Theories and Methods from 1945 to the Present Day** by Prof. Dr. Ursula Schädler-Saub (this course is also available in a Spanish language Version)
- **The Examination of Transparent Coatings on Furniture and Wooden Objects** by Prof. Dr. Gerdi Maierbacher-Legl, Dr. Julia Schultz M.A. and Merle Strätling M.A
- **Updates and extended by the author: Conservation of Globes** by Mag. Dr. hab. Patricia Engel and Michael Højlund Rasmussenby
- **New: Photography as a tool for documentation and investigation** by Christine Fiedler M.A., Barbara Hentschel M.A. and Dipl.-Des. Clemens Kappen

The following courses are in German:

- **Sicherer Umgang mit kontaminiertem Kulturgut** (*Working safely with contaminated cultural Heritage*) by Roksana Jachim M.A.
- **Fotografie als Werkzeug der Dokumentation und Untersuchung** (*Photography as a tool for documentation and investigation*) by Christine Fiedler M.A., Dipl.-Rest. Barbara Hentschel M.A. and Dipl.-Des. Clemens Kappen
- **Grundlagen der Holzkunde. Eigenschaften – Verwendung – Schäden – Untersuchungsmethoden erläutert am Beispiel von Eichenholz** (*Basic wood science. Features - use - damage - examination Methods explained by the example of oak*) Dipl.-Rest. Christina Duhme M.A., Dipl.-Rest. Mirja Harms M.A. and Prof. Dr. Gerdi Maierbacher-Legl
- **Saccharidische Bindemittel und Kleber** (*Saccharide Binding Media and Adhesives*) by Prof. Jirina Lehmann
- **Schädigung von Kulturgut durch Salze** (*Damage to Cultural Heritage from Salt*) by Dr. Hans-Jürgen Schwarz
- **Erhaltung von Wachsmoulagen** (*Conservation of Wax Moulages*) by Dipl.-Rest Johanna Lang, Dipl.-Rest. Ute Hack, Dr. Sandra Mühlenberend, Dipl.-Rest. Luise Kober
- **Wie sollen wir handeln? Theorie und Ethik der Restaurierung und ihre Bedeutung für die Praxis, Teil 1** (*How should we act? Theory and ethics of conservation and its significance in practice, part 1*) by Prof. Dr. Ursula Schädler-Saub

Advance notice

In all probability, we will be releasing the following courses in German in autumn 2020:

Jennifer Oster M.A. (with a contribution by Dipl.-Rest. Ina Birkenbeul): **Klima in Kirchen. Präventive Konservierung der Ausstattung** (*Climate in Churches - Preventive Conservation of the interior furnishings*)

Prof. Dr. Gerdi Maierbacher-Legl, Susanne Karius M.A., Christine Fieder M.A.: **Konsolidierung von Holz** (*Consolidation of wood*)

Prof. Dr. Ursula Schädler-Saub: **Wie sollen wir handeln? Theorie und Ethik der Restaurierung und ihre Bedeutung für die Praxis** (*How should we act? Theory and ethics of restoration and its significance in practice*)

Teil 2: Grundlagen der Restaurierung und der Denkmalpflege von K. F. Schinkel bis C. Brandi (*Part 2: Basics of restoration and preservation from K. F. Schinkel to C. Brandi*)

Teil 3: Aktuelle Entwicklungen, vom Europäischen Denkmalschutzjahr 1975 bis heute (*Part 3: Current developments, from the European Year of Monuments and Sites 1975 to today*)

For further Information, see [here](#).

Due to precautionary measures against the spread of the corona virus, the need to work from home and thus the demand for online training is increasing. We will therefore also be making it possible to activate the courses individually in the coming weeks. We offer a fee reduction of 20% for three participating employees from one institution.

Internship at the Hornemann Institute



From November 2019 until January 2020 Prof. Dr. Yulia Griber from Smolensk State University was with us. She is a linguist and cultural heritage scholar who, together with a team, translated our EwaGlos (European Illustrated Glossary of Conservation Terms for Wall Paintings and Architectural Surfaces) into Russian in 2016.

Financed by the Russian Federation, she is now able to print her translation together with the English terms and pass on the 300 copies to colleagues in and outside Russia free of charge. Supported by the German Academic Exchange Service, she is also conducting research on the subject "Russian Conservation History as a Part of the Cultural History of Europe: Terms for Wall Paintings and Architectural Surfaces in Cross-Cultural Understanding".

On [youtube](#) you will find (with automatic translation) the news report of the television GTRK Smolensk on the printed Russian version of EwaGlos. The report was broadcast by the Rossiya 1

channel throughout Russia.

News from the Hildesheim restoration programs



"Bachelor of Science" for the bachelor's programme

From the winter semester 2020/2021 onwards, the HAWK Hildesheim will be launching the Bachelor degree course Conservation and Restoration of Science. This eliminates the artistic portfolio and the aptitude test for applicants. For the awarding of the degree of Science (previously of Arts), the teaching programme has strengthened material science/technology and linked it to practice. In the first two semesters, basic interdisciplinary knowledge is imparted, chemistry and physics in close connection with topics of damage prevention as well as historical materials and technologies; investigation and measurement methods; scientific work and documentation as well as restoration ethics, restoration and art history. Specialization then follows in one of four different specialization areas: "Framed wooden objects and paintings", "Furniture, wooden objects and material combinations", "Written materials, books and graphics", "Stone objects and architectural surfaces". The subject-specific courses are accompanied by lectures on object examination, on material science contents, e.g. adhesives and adherence, and on the detection and treatment of microbiological damage. The analytical, conservation and restoration work is always carried out on originals and in cooperation with museums, archives, libraries, monument offices and church institutions. Another new feature for students is the possibility to extend their studies by two semesters before the 5th semester in order to study the contents of a second specialisation. The transfer of knowledge and personal learning are supported by e-learning courses.

Best regards

The Team of the Hornemann Institute

Christine Fiedler M.A., Dipl.-Rest. Barbara Hentschel M.A., Nina Niemeyer-Thömel, Dipl.-Ing. Gunnar Werner, Dr. Angela Weyer M.A.



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Responsible for the contents are: Dr. Angela Weyer,
President: Dr. Marc Hudy,

Contact:

HAWK Hochschule für angewandte
Wissenschaft und Kunst
Hildesheim/Holzwinden/Göttingen
HORNEMANN INSTITUTE

Full-time Vice President: Martin Böhnke

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Kardinal-Bertram-Str. 36

31134 Hildesheim

Germany



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CENTER FOR THE PRESERVATION OF WORLD CULTURAL HERITAGE