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Hornemann Institute News 1/2024

Dear friends of cultural heritage,

Today we would like to inform you about our current projects.

[Online Courses](#)

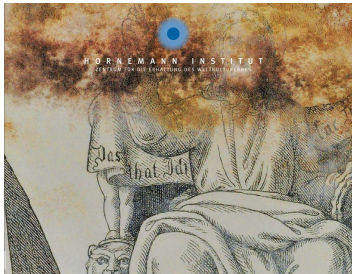
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Online Courses



Online Courses

Our learning platform moodle received an update. It is now even easier to use, especially on cell phones and tablets. Our course "Mould and Records" is currently running with more than 30 students.

From winter semester 2024/25 we offer our full [course program](#) again. We will have significantly updated our course [Microbial Infestation of Objects of Art and Cultural Heritage](#) by then. Registration is possible from July.

Photo: Friederike J. Nithack

E-Publishing



University Papers

Witt, Nathaly: [Die Behandlung von rußgeschädigten Oberflächen mit Gellan Gum und dessen Modifikationsmöglichkeiten \(Treatment of Soot-Damaged Surfaces with Gellan Gum and Its Modification Possibilities\)](#)

The treatment of soot-damaged surfaces is a challenging task in the conservation and restoration of artworks due to the properties of soot. This thesis investigates the effectiveness of the polysaccharide gel 'gellan gum' and its modifications as a cleaning method for such objects. This is done by first examining the history, causes and chemical characteristics of soot

damage and analyzing the challenges it poses for conservators. Based on this information, multiple samples are coated with a soot layer to closely emulate naturally occurring soot damage. To emulate real-world scenarios, multiple samples, including unaged easel paintings with white gesso and varnished surfaces, along with an aged wooden panel coated with oil-based lacquer, are subjected to soot deposition. Additionally, the study extends to a case-study approach, examining the treatment's applicability on actual soot-damaged artifacts, thus enriching the practical implications of the research. Various gellan gum gels, some of which have been modified with complexing agents and surfactants, are then applied to the different surfaces in varying concentrations and exposure times. Subsequently, analytical methods such as spectrophotometry are used to determine the effectiveness of the procedure. The results indicate that none of the gels tested are universally effective for various types of soot damage, which warrants further research into specific cleaning methods for soot compositions and aging stages of soot layers.

Master Thesis HAWK, 2023, DOI: 10.5165/hawk/537

Photo: Nathaly Witt



Posters

Two posters of our interdisciplinary conference “Red Becomes Black – and then What? Pigment Changes on Art and Cultural Heritage” are already online:

• Zygalski, Antje:

[Der antike ägyptische Sarg der Istemkheb \(Ankh-Hor Projekt; Reg. Nr. 657; 30. Dyn.; Asasif, TT 414\): Pigmentveränderungen \(*The Ancient Egyptian Coffin of the Istemkheb \(Ankh-Hor Project; Reg. No. 657; 30th Dyn. ; Asasif, TT 414\): Pigment changes*\)](#)

• Pelludat, Inga:

[Aus Blau wird Rot und Schwarz - Pigmentveränderung von Berliner Blau \(*Blue becomes red and black - Pigment change of Berlin blue*\)](#)

Photo: Pagodenburg 1716 - 1719, Photo: Inga Pelludat

Photo: Pagodenburg 1716 - 1719, Inga Pelludat



INTERNET-RESSOURCEN

www.hornemann.de

Arbeitsblätter, Internet-Ressourcen im Bereich Erhaltung von Kulturgut

Wir möchten uns als ein Teil eines internationalen Netzwerkes zur Förderung des internationalen Wissens

verbinden. Hier stellen Sie unsere Leistungen und die Angebote anderer Institutionen, die wir laufend erweitern.

Geben Sie diesen Webseiten-Adresse in der Suchleiste ein: www.hornemann.de

Specialist Portal

We publish a large collection of annotated links to digital work aids on the website of the Hornemann Institute, including object and material databases, electronic publications with recommendations and guidelines, glossaries, dictionaries, e-learning, podcasts, games and materials on cultural protection for children and young people. In the course of the NFDI project we have expanded it again for you.

Projects



Get Involved: AG 'Digitization in Conservation and Restoration'

The newly founded working group promotes the exchange of research data through the harmonization of terminologies and the development of common metadata standards. We invite conservators to participate in the working group and help shape the digital possibilities in conservation and restoration. Please contact [Nathaly Witt M.Sc.](#)

Publication Series



Preview: Publication on Pigment Changes to be Published in June 2024

The documentation of our interdisciplinary conference "Red Becomes Black - and Then What? Pigment Changes on Art and Cultural Heritage" will be available to order via our website from mid-June. Pigment changes or transformations are very important for conservation practice, as they can fundamentally alter the original colour effect of a painting or mounting, and thus massively affect the artistic message. The program and abstracts can be found [here](#).

Photo: Sabine Krause-Riemer, Design: CI/CD Team of the HAWK

News from the Conservation Study Programmes at HAWK



Info Day for the Conservation and Restoration Degree Programs

When: June 13, 2024, all day

Where: HAWK in Hildesheim

The next Conservation and Restoration (as well as Architecture, Civil and Wood Engineering) information day will take place this year as part of a general university information day on June 13, 2024 from 8.30 am to 2.30 pm. Further information will be available [here](#) soon.



International Symposium: "How Do You Do It? Transmitting Embodied Knowledge across Generations in Contemporary Art Conservation"

Embodied knowledge refers to the tacit understanding residing within the body that enables us to perform and refine tasks without having to consciously consider every step of such actions. In the context of complex artworks, which often incorporate technology-based or performative components, this knowledge is embedded in the artist's vision, developed and fine-tuned throughout their career, and transferred often implicitly to their assistants through years of experiencing the artist's creative process.

Custom-made devices, unique installation techniques, and aesthetic preferences define the artwork. However, these individualised tweaks tend to defy traditional forms

of documentation, thus raising the question: How can we impart embodied knowledge to others effectively? Bringing together experts from an array of disciplines, the symposium aims to refine the understanding of concepts such as implicit, tacit, procedural, and embodied knowledge. The conference will address these questions from various perspectives. All information including abstracts can be found [here](#).

Photo: Eva Rieß, Hamburger Bahnhof - Nationalgalerie der Gegenwart,
Design: CI/CD Team of the HAWK

Save The Date: Digital Conference: Non-Contact Analysis of Cultural Assets with Terahertz Spectroscopy

When: November 22, 2024, 9.00 a.m. - 4.30 p.m.
Participation is limited to 120 people and free of charge. The HAWK Hildesheim/Holzminden/Göttingen invites you for the first time to the presentation of research results from the interdisciplinary terahertz research group of the HAWK with the Philips University Marburg - the only nationwide research group that has been using terahertz technology as an analysis method in conservation and restoration for years. Further information will soon be available on the HAWK [website](#).

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Your team from the Hornemann Institute
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