

ExpoTime!

The international magazine for museum professionals

Double issue
Dec 20/Jan 21

84 pages
70 links
2 videos
110 referred museums
and institutions



It is a good conservative idea to store all objects in the depositories in acid-free cardboard boxes, but ...

Is it a good conservation measure to keep all depository objects in acid-free cardboard boxes with protective glassine sheets, shock buffers, with a dust cover and enough space outside for labels? Museum specialists will come up immediately with one contradiction: not all objects really need such depot packaging.

But before imitating such a treatment which makes sense for some museums and some objects, you should really consider two things: The objects are quite well protected after this measure, but you need about 3-4 times more storage space as before. Not for new acquired objects, just for the packaging of your collection. In addition, one has to say goodbye to the idea of the public depository. The Überseemuseum in Bremen, Germany, for example, has set up such a facility long ago, allowing visitor, against a special fee, to step over to the depository, visit and explore it by using databases with free access to defined information levels.

But most of all, I would like to draw your attention to the fact that a museum that wants to work with a cardboard depot, increases the risk of fire considerably, willingly and unnecessarily especially if objects could be stored safely otherwise and could be stored dustfree by different measures. Such a decision means that fire protection must be increased considerably before such a step is taken.

The best protection against fire is not the sprinkler, but the continuous lowering of oxygen content in the entire depository (museum/library/archive). Every child in the world is probably familiar with the experiment in which one can observe what happens to a candle over which a glass dome is placed. The lowering of oxygen is also good against pests and has just been exemption-approved again for museums in the EU from Brussels for museum pest control. For research in a depository, you can either increase the oxygen temporarily or limit it to clearly defined and accepted short-term stays.

The fire risk can be illustrated properly by an event which took place exactly one year ago: when the depository of the "Museum of Chinese in the America" (MOCA) in Manhattan blow up in flames. Everything here was packed in acid-free cardboard boxes. Parts of the archives were shelved in wooden bookstalls, lots of the objects were made of paper and wood. Lot of objects

were mixed media or plastics, and plastics were used as wrapping material and buffers. 80% of the museum objects were destroyed in flames, causing a stinking inferno, soot and fire fighting water entered the depositories in the lower stories with the later danger of mould. The NYPD said the cause of the fire was not "criminal" and the investigation is still ongoing.

My personal view from the distance is that this "cardboard depository" for flammable objects has never been a secure place for such objects. The disaster could have been avoided. Let's hope that those responsible show the ability to learn from it.

Christian Mueller-Straten
Editor of ExpoTime!

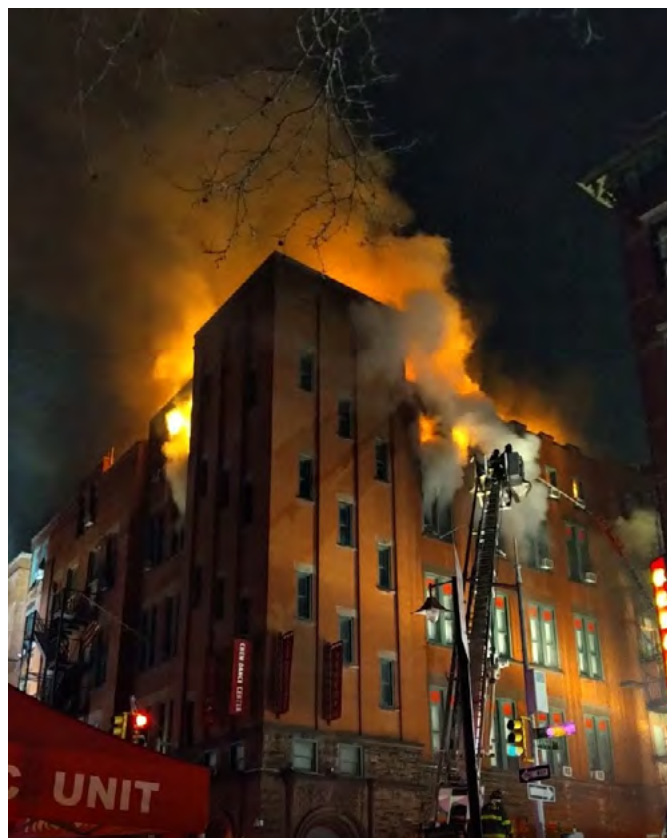


Photo: Google ARTS AND CULTURE/ Nancy Yao Maasbach
For more pictures and videos see: <https://artsandculture.google.com/exhibit/trial-by-fire-the-race-to-save-200-years-of-chinese-american-history/lwIC-1BbSBEKJg>

Preparing spectacular visits

- 6-10** **Utz Anhalt**
World Heritage site Bisotun, Iran: Where 4000 years join in one place
- 12-19** **Claudia Glashauser**
Augustsburg Castle, Scharfenstein Castle and Lichtenwalde Castle: The-Must-See-Three of Saxony
- 20-22** **Franziska Martin; Nina Helten; Bjoern Quellenberg**
Kunsthaus Zurich: the David Chipperfield extension is complete
- 23-27** **Caroline Shapiro**
Renewal and conservation of the Jerusalem's Tower of David 2020-2022
- 28-30** **Wolf Schiantir**
David Adjaye reveals first ideas of an Edo Museum of West African Art (EMOWAA) at Benin City

New museums

- 32-36** **Alexandra Orth**
Tales from the Sewing Room. An interview with fashion collector Ralf Schmitt, curator of the coming exhibition "Dress Codes: Fashion for Special Occasions from 1770 to the Present Day" at Kunstsammlungen & Museen Augsburg
- 37-39** **Peter Nömaier and team of Sigmund Freud museum, Vienna**
Online exhibition of the closed special exhibition: Analysis Interminable. Psychoanalytical Schools of Thought After Freud
- 40-43** **Caecilia Barani and team of the MAK Vienna**
Woman Artists of the Wiener Werkstätten at MAK Vienna, 21 April - 3 October 2021
- 45** **Discussions from professional lists. This time: Scanning problems**
- 46-48** **Repair your network**
- 49-50** **A schedule for activists**

New exhibitions

Conservational projects

- 52-59** **Terra Huber**
Conservation treatment and digitisation of posters for the exhibition "Toulouse-Lautrec and the Stars of Paris"
- 60-64** **Paul-Bernhard Eipper**
The conservation of torn canvasses, part II
- 66-76** **Christian Mueller-Straten**
"If it's not a fake." Notes on the oldest European book with an original cover

The dark side of art

- 77-78** **Activists take off the gloves**
- 79-81** **Christian Mueller-Straten**
EUROPOL succeeds in three important blows against cybercrime
- 83** **Imprint and contributors**

The front page shows a cocktail dress by Heinz Oestergaard, Berlin 1954/55. Silk organza, embroidery of sequins and raffia threads, lining: artificial silk taffeta. Heinz Oestergaard is considered to be the most famous and successful German designer of the post-war era. In addition to his high-quality haute couture collections, he was keen to create fashion accessible to a broad section of the population. © Collection Ralf Schmitt MORE on pp. 36-40

Caecilia Barani and team of the MAK Vienna

Woman Artists of the *Wiener Werkstätten*

At MAK Vienna, 21 April - 3 October 2021

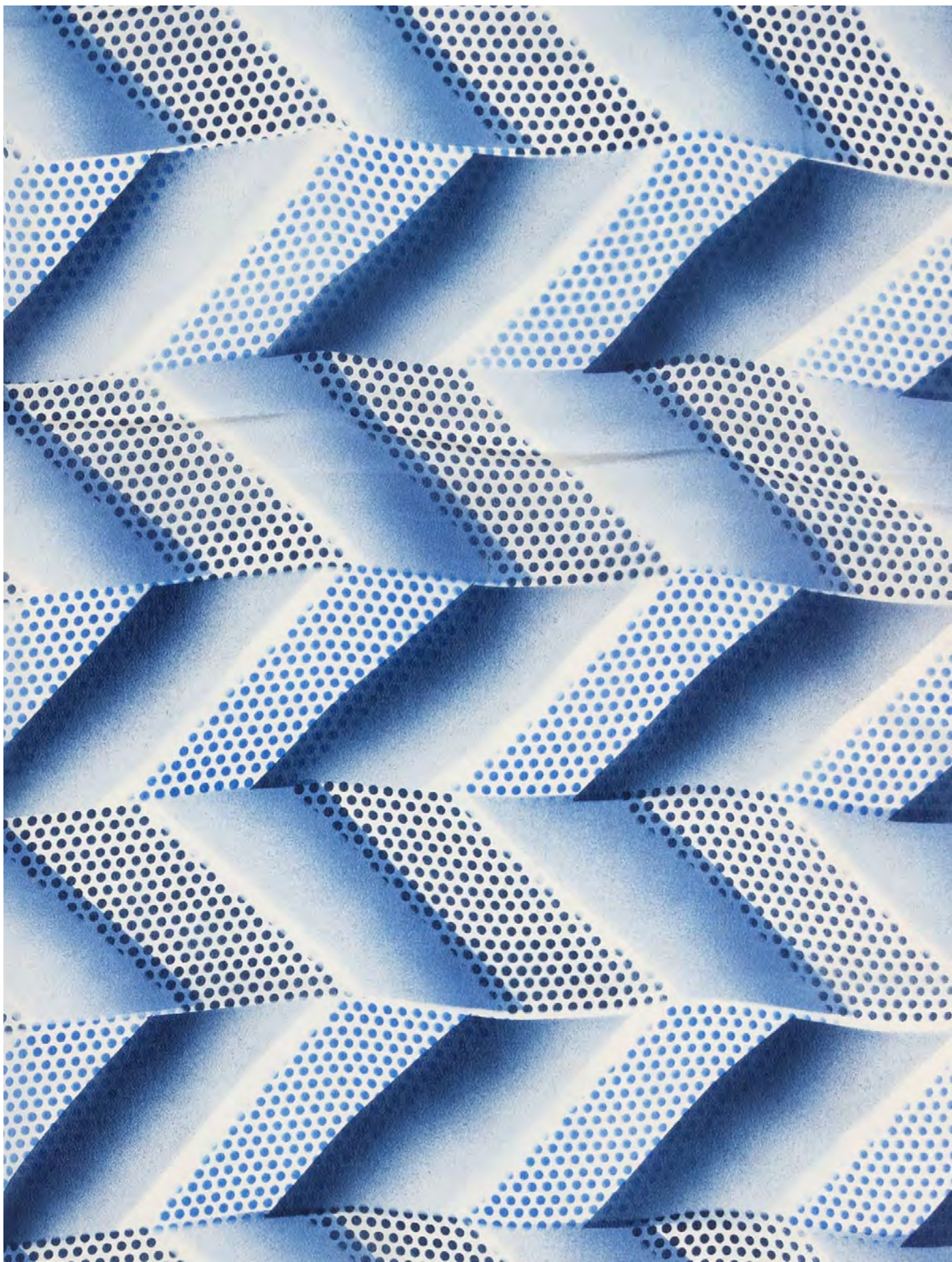
The MAK exhibition WOMEN ARTISTS OF THE *WIENER WERKSTÄTTE* directs visitors' attention to the hitherto underappreciated women designers who significantly broadened the *Wiener Werkstätte's* creative spectrum. The accomplishments of the male artists of the *Wiener Werkstätte* ("WW", 1903-1932) – principally Josef Hoffmann, Koloman Moser, and Dagobert Peche – enjoy global fame. In contrast, the women artists of the WW have met with only sporadic interest to date. Gudrun Baudisch, Vally Wieselthier, and Mathilde Flögl are well known. But who were Martha Alber, Rose Krenn, and Anny Wirth? Over 600 exhibits provide an insight into the

almost unknown and at times radical work of women designers in Vienna between 1900 and 1930, which helped to establish the WW's prominent position between Art Nouveau and Bauhaus.

The impressive exhibition testifies to the women designers' inventiveness and their instrumental involvement in the development of Viennese arts and crafts. Arranged both chronologically and thematically, the MAK show traces the women artists' path from their training to their reception in the 1920ies. The MAK accomplished a pioneering feat while conducting the research for WOM-



Photography, 1924: Charlotte Billwiller, Mathilde Flögl, Susi Singer, Marianne Leisching und Maria Likarz. © MAK



Clara Posnanski: WW swatch „Dornbach“, 1928. © MAK/Kristina Wissik



Maria Likarz: Necklace, glass beads, approx. 1927
© MAK/Katrin Wißkirchen

WOMEN ARTISTS OF THE *WIENER WERKSTÄTTE*: 181 women artists were identified as employees of the WW, several biographies were updated or rewritten for the catalogue. Training and the “*Wiener Kunst im Hause*” Association Work by about half of the women artists is featured in the show. They worked in all areas of arts and crafts and the majority of them had studied at the Vienna School of Arts and Crafts, which admitted female students from the very beginning. They were initially trained in flower and decorative painting, later in the specialist studios for enamelwork and lace drawing – in other words: traditionally “female” fields. The spectrum expanded

under the director Felician von Myrbach, who was appointed in 1899. He also engaged the Secession artists Hoffmann and Moser as heads of the architecture and painting schools. In line with the idea of the *Gesamtkunstwerk* they extended their teaching to all aspects of decorative art and included their female students in their collaborations with producers.

Many of the resulting works have been incorporated in the exhibition, including sets by Jutta Sika and Therese Trethan, executed by the porcelain manufactory Josef Böck, and fabric patterns by Else Unger, executed by Joh. Backhausen & Söhne. Unger also designed furniture, Gisela von Falke striking ceramics. Together with Marietta Peyfuss and five fellow students, they founded the association “*Wiener Kunst im Hause*” (Viennese Art for the Home) in 1901, a direct precursor of *Wiener Werkstätte*.

First Works for the *Wiener Werkstätte*

The MAK exhibition opens with the earliest works by the women artists of the WW, such as designs for postcards sold by the WW from 1907. Their subjects are congratulations, city-scapes, landscapes, children’s games, and predominantly fashion. Mela Koehler and Maria Likarz were particularly creative in this regard, and they would have a formative influence the commercial graphic design of the WW until its closure.

In 1910 the WW opened its fabric department, which was followed in 1911 by the fashion department. The extensive fashion designs are documented by the portfolio *Mode Wien 1914/5*, produced in large part by women artists of the WW, including Lotte Frömel-Fochler and Rose Krenn. In the major fashion exhibition at the Austrian Museum of Art and Industry (today’s MAK) in 1915, they attempted to assert themselves in the face of the French competition. This show in the middle of the First World War already featured all the names that commonly come to mind when the women artists of the WW are mentioned: Mathilde Flögl, Hilde Jesser, Fritzi Löw, Reni Schaschl, Felice Rix, and Vally Wieselthier.

The Artists’ Workshop

In 1916 the WW established its own Artists’ Workshop, which attracted the attention of the press. “An enameling furnace, a sewing machine, a little *repoussé* table for metalworking, pastepots, *batik* equipment ... a cabinet full of mysterious jars like in a sorcerer’s kitchen, between them a gaggle of laughing young girls and very rarely an occasional male: this is what it looks like inside the Artists’ Workshop,” was the report printed by the *Neues Wiener Journal*, for example. In part due to the war, there were indeed predominantly women working here at first. As a “laboratory of ideas” the Artists’ Workshop provided the opportunity for unlimited experimentation, with the results being bought or rejected by

the WW. The production ranged from decorated papers, beadwork, and painted glasses to embroidery, jewelry, and toys to expressive ceramics and sensational fabric designs.

Working on a larger scale was made possible by the decoration of the WW branch at *Kärntner Straße* 32, which was opened for the sale of lace, fabric, and lamps in 1918. The walls and ceilings were painted with natural and scenic motifs inter alia by Hilde Jesser, Reni Schaschl, and Felice Rix; their photographic documentation is on display in the MAK exhibition.

Between Acclaim and Criticism

The exhibition concludes with the reception of the “female” WW art in the 1920ies. Over the course of the First World War, the economic situation had necessitated women entering the workforce and this gave rise to a new kind of woman: independent and confident. In contemporary literature she is symbolized for example by the short-haired, smoking, and extravagantly dressed “decorative artist.” This profession entailed a certain elitism: it did not guarantee a secure income and was therefore the preserve of women of considerable means. Adolf Loos saw in them bored upper-class daughters who “call themselves ‘artists’ because they can do *batik*.” An the graphic artist Julius Klinger ridiculed their work as “*Wiener Weiberkunstgewerbe*” [Vienna broads’ art and craft].

This defamation was juxtaposed with their acclaim in major interwar exhibitions, such as the *Deutsche Gewerbeschau* [German Trade Show] in Munich (1922) or the International Exposition of Modern Decorative and Industrial Arts in Paris (1925). Designed by Gudrun Baudisch, Mathilde Flögl, and Vally Wieselthier, the catalogue for the 25th anniversary of the *Wiener Werkstätte* in 1928 again demonstrated their immense graphic and sculptural skills.



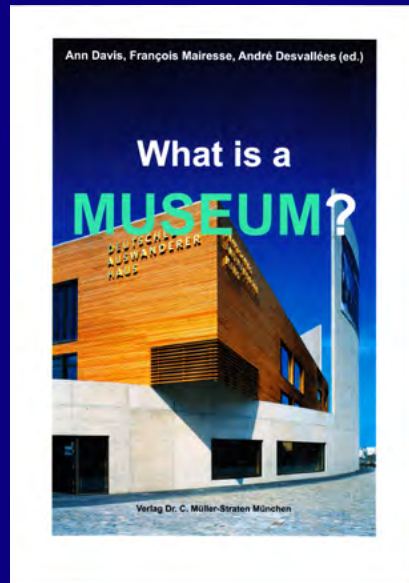
Leopoldine Kolbe: Postcard of the Wiener Werkstätte (No 43), 1907/08. © MAK

Catalogue:

The exhibition is accompanied by the publication *WOMEN ARTISTS OF THE WIENERWERKSTÄTTE*, edited by Christoph Thun-Hohenstein, Anne-Katrin Rossberg, and Elisabeth Schmuttermeier, with contributions by Megan Brandow-Faller, Elisabeth Kreuzhuber, Anne-Katrin Rossberg, Elisabeth Schmuttermeier, Lara Steinhäuber, and Angelika Völker. German/English, 288 pages with numerous colour illustrations. Vienna; Basel 2020. 44, 95 €. Available at the MAK Design Shop or at: MAKdesignshop.at

Ann Davis, André Desvallées, François Mairesse (ed.):

What is a Museum?



This book addresses administrators and politicians, museum professionals and museologists likewise. It reflects the historical so-called ICOM „definition“ of museum in a new light and gives an impression how visitors meet with museums.

Revised edition and English translation by Ann Davis and Lynn Maranda, and Suzanne Nash

CONTENTS

Michel Van Praët: Foreword - The Paradox of the Seagull
Ann Davis : Preface
François Mairesse, André Desvallées and Ann Davis: Redefining Museum
François Mairesse: The Term Museum
Gary Edson: Defining Museum
André Gob: A Museum Dialogue
Lynn Maranda: On “Museum”
Marc Maure: The Museum: Expressing Identity
Tereza M. Scheiner: Defining Museum and Museology: an Ongoing Process
Tomislav Šola: The Museum Definition: Questioning the Scope and Motives
Bernard Deloche: Definition of Museum
André Desvallées: About the Definition of Museum
Jennifer Harris: The Definition of Museum
Ivo Maroevic: Towards the New Definition of Museum
Olga Nazor: Reflections on the Notion “Museum”
Andrés Sansoni: Thoughts About an “Aletheia” of Museum
Martin R. Schärer: What is a Museum?
Marc Maure: How do visitors see the museum? A picture collection
Glossary
Works cited
The contributors

Approx. 70 black & white pictures, 250 pages DIN A5.
© Christian Müller-Straten Publishers and ICOFOM 2010
ISBN 978-3-932704-81-9 32,- €/§

Discussions from the professional list "MUSEUM-L"

This time, we quote the discussions on "scanning problems"

Afternoon all,
I am working with a colleague in trying to find the best solution to our scanning woes. We have some very light pencil hand writing that will not scan well. We, actually she has tried all the scanners in our building up to a 1200dpi setting with high contrast as well as playing with the scanned document in Adobe and in Photoshop to try and darken the text. Is there a solution out there that has worked. Our next step is to photograph it from above using a tripod. I remember years ago putting a yellow filter on mimeographed text to get it to go darker, but this is pencil. Any help would be appreciated!

Marybeth S. F. Tomka, M.A., PS Cert CM, RPA
marybeth.tomka@AUSTIN.UTEXAS.EDU
Head of Collections
TARL
The University of Texas at Austin
1 University Station R7500
Austin, Texas 78712
<https://liberalarts.utexas.edu/tarl>

Hi,
You may need to consult with your county's archives if they have scanning services or your state's archives and possibly bring the documents to them for scanning using their equipment.
John Cross
johnjcross1987@GMAIL.COM

Hi,
I have found that scanning something done in light pencil with the scanner set to grayscale as dark as possible, then adjusting the curves in photoshop helps. I don't do the contrast until later on as you are trying to capture something already light in tone. Alternatively I have done it old school, and used a photocopier set at the darkest settings. You'll wind up with an overall dark image, but the pencil lines will still be there. Then it can be adjusted in photoshop with adjusting the brightness, contrast, and curves.
Good luck,
Susan E. Cooper, Senior Exhibit Designer/Graphic Artist
CooperS2@Michigan.gov
Michigan History Museum
702 West Kalamazoo Street
P.O. Box 30740
Lansing, MI 48909-8240
<https://texasbeyondhistory.net>



- Markenprodukte
- Wachse & Harze
- Naturleime
- Schellack
- Vergolderbedarf
- Reinigung & Pflege
- Werkzeug
- Arbeitsschutz

NEU IM ANGEBOT
Fachliteratur und Fachzeitschriften

www.art-restore.ch

HOLEN SIE IHRE SCHÄTZE AUS DEM ARCHIV

Und bringen Sie Ihre Besucher zum **Staunen!**
Mit ARTEFACT.3D - der virtuellen 3D Vitrine
Rufen Sie noch heute an. **040 571 996 47**



UNITED
SCREENS GMBH
www.united-screens.tv

Brillenlose, stereoskopische Darstellung von gescannten und digitalisierten Artefakten und Ausstellungsstücken. Ermöglicht die interaktive Erkundung oder Videodarstellung der digitalisierten Objekte in 3D ohne Brille!

Northern America



► After an extended search, the Museum of Applied Arts (MAK) in Vienna has named **Jia Yi Gu** as the new director of the MAK Center for Art and Architecture in Los Angeles CA. An advocate for experimental approaches to institution-building and trans-disciplinary curatorial practice, Jia Yi Gu joins the MAK Center from her previous role as Executive Director of Materials & Applications, a Los Angeles-based project space for experimental architecture. Jia Yi Gu has organized and co-curated numerous exhibitions, installations, and public programs on contemporary architecture, art, and design, including Scoring, Building at the MAK Center’s Mackey Apartments, Privacies Infrastructure with co-curator Aurora Tang, and the mutual aid initiative Heat Aid. She is a PhD candidate in Architectural History at UCLA, and holds a Master of Architecture from UCLA and a Bachelor of Arts in Art History from UCSD. Jia Yi Gu’s appointment follows the leadership of Priscilla Lovat Fraser, who has stewarded the MAK Center since the beginning of 2017.



► **Andrew Farke, Ph.D.**, has been appointed the next director of the Raymond M. Alf Museum of Paleontology at Claremont CA, only the fourth individual to hold this position since the museum’s founding in the late 1930s. Andrew Farke discovered his interest in paleontology while growing up in rural South Dakota, and was able to develop his first research

in the field thanks to the long-distance mentorship of many professionals and amateurs. He received a B.Sc. in Geology from the South Dakota School of Mines and Technology in 2003, and completed his Ph.D. in Anatomical Sciences at Stony Brook University in 2008. He joined the staff at the Alf Museum in June 2008, as Augustyn Family Curator, and was appointed Director of Research & Collections in 2015. Farke succeeds **Don Lofgren, Ph.D.**, who leaves the position in July 2021 to become director emeritus.

► The Orange County Museum of Art in Newport Beach CA has hired the curator and museum leader **Heidi Zuckerman** as its new CEO and director, OCMA announced Wednesday. She will start her new job February 8. Zuckerman, formerly the CEO and director of the Aspen Art Museum in Colorado, will succeed Todd D. Smith, who left OCMA in August to head the Bechtler Museum of

Modern Art in Charlotte, North Carolina. Smith had been director and CEO of OCMA since August 2014. Zuckerman served as CEO and director of the Aspen Art Museum from 2005 to 2019. Prior to that, she was chair of the curatorial department at the Berkeley Art Museum and Pacific Film Archive. She also served as an assistant curator of 20th century art at The Jewish Museum in New York City for five years. Zuckerman holds an honors bachelor’s degree in European history from the University of Pennsylvania, a master’s degree in art history from CUNY Hunter College, and is a graduate of Harvard Business School Executive Education, Women on Boards.



► The Center for Puppetry Arts in Atlanta GA proudly will welcome **Sarah Dylla** as the new Museum Director. Sarah joins the Center for Puppetry Arts with over 11 years in the field of public humanities creating narratives about how history and the humanities intersect. Most recently, Sarah served as the Curator for the Atlanta History Center’s current exhibition about the history and impact of the 1996 Olympic and Paralympic Games, now on view at the Atlanta History Center. Prior to moving to Atlanta, Sarah held positions in the special collections libraries at Rhode Island School of Design and Brown University, the Savannah Music Festival, and Virgin Islands National Park. Sarah holds degrees from the University of Virginia (B.A., Art and Art History) and Brown University (M.A., Public Humanities).



► After a six-month search for a new leader the board of directors of Telfair Museums in Savannah GA decided for **Ben Simons**. Simons’ hiring was needed after the last director left and volunteer Bob Faircloth took the helm for 2020. Simons holds a bachelor’s degree from Harvard University, a master’s in literature from Yale University, and a master’s in the history of art from the University of London’s Courtauld Institute of Art. He is also a graduate of the Getty Museum Leadership Institute.



Simons has been the executive director of the Academy Art Museum in Easton, Maryland, since 2016. Before that, he worked for the Smithsonian American Art Museum in Washington, D.C., and for more than a decade at the Nantucket Historical Association in Massachusetts.



▶ **Harold Young** served as the interim executive director at the Tubman Museum for over a year. He has worked at the Tubman in Macon GA since 2015. The Tubman museum named him now as new director – the first African-American executive director after 40 years. Harold first came to the Tubman in 2015 as Director of Special Projects and Community Services. In this role, he was responsible

for generating revenue for the Museum through facility rentals and the Museum's largest annual fundraiser – the All That Jazz Concert and Ball. He was also put in charge of the Museum's largest community outreach program – the Annual Pan-African Festival of Georgia. Under his guidance, the Museum exceeded its annual revenue goals for rentals, the All That Jazz Concert has become more profitable, and is now the premiere black-tie event in the community, and the audience for the Pan-African Festival has grown to more than 15,000 people attending each year. Young's experience in marketing and promotions, contract negotiations, special event planning and promotions, and his leadership during this exceptionally difficult time of global pandemic convinced the Board that he was the best choice to lead the Museum into the future.

▶ New director of the Ocean City (MD) Historical Museum is **Kate Devaney**. The position has been vacant since the former executive director, **Jeffrey Granahan**, left the post at the end of 2019. In addition to the Historical Museum, Devaney will oversee the museum at the Life-Saving Station, as well as the Lifeguard Museum within the Bayside Center.

▶ **Sarah Meister** has been named executive director of the Aperture Foundation in New York. She has been photography curator at the Museum of Modern Art since 2007, where she has spent her entire career. She succeeds Chris Boot, who is leaving after 10 years to return to his native England. Meister has organized exhibitions of Bill Brandt, Walker Evans and Eugène Atget. Last year she presented the well-received retrospective of Dorothea Lange. She is currently curating an exhibition



on the Brazilian modernist photography that was produced by a club of amateurs in São Paulo in the mid-20th cent. It is scheduled to open in May, at which time she will assume her new position.

▶ **Naomi Beckwith**, currently the senior curator of the Museum of Contemporary Art Chicago, will start as the Guggenheim's deputy director and chief curator in June. She has been at the MCA Chicago since 2011. During that time, she organized a number of celebrated shows and worked on exhibitions devoted to Keren Cytter, Leslie Hewitt, William J. O'Brien, the Propeller Group, and Yinka Shonibare, among others. Photo: Nathan Keay © Museum Of Contemporary Art Chicago



▶ The Newport Art Museum in Newport RI recently announced the appointment of three new members to the Board of Trustees, **Ellen Bowman**, **Patrick Dolat**, and **Ellie Voorhes**. The Museum has also appointed a new Director of Advancement, **Margaret Sullivan-Carr**.

▶ As Artforum and the Wall Street Journal reports, **Leon Black**, chairman of the board of the Museum of Modern Art NY since July 2018, is stepping down from his role as CEO of private equity firm Apollo Global Management. The firm was founded in 1990 by Leon Black himself. His departure from the multibillion-dollar entity follows an independent investigation into his financial ties to disgraced sex offender Jeffrey Epstein, who killed himself in prison in 2019.



The investigation was conducted at Black's behest by law firm Dechert LLP. They found no evidence of wrongdoing but did uncover \$158m in payments from Black to Epstein between 2012 and 2017, as well as \$30m in loans from Black to Epstein, only \$10m of which had been repaid. In the course of the investigation, Epstein was found to have given Black "legitimate advice" in relation to financial matters, including those related to Black's art collection. The advice was said to have led to roughly \$2 billion tax savings for Black. (Photo: Patrick T. Fallon/Bloomberg News)

Europe

▶ The Museum of Fine Arts in Leipzig will have a new director in January 2021, the art historian **Stefan Wep-**



pelmann (born 1970; photo: Renate Medwed), director of the picture gallery of the *Kunsthistorisches Museum* in Vienna. He succeeds Alfred Weidinger, who left Leipzig prematurely after only two years and took over the management of *Oberösterreichische Landes-Kultur GmbH* (formerly *Oberösterreichisches Landesmuseum*) in April.



► In 2021 the Reiss Engelhorn Museums in Mannheim will have a new General Director. **Alfried Wieczorek** is retiring after almost 30 years in the house, including more than 20 years as its manager. His previous deputy, **Wilfried Rosendahl**, will take his place (photo: Moray).



► The German biologist **Dr. Katrin Vohland** (photo: C. Rittmannsperger) was the first woman to take over the management of the Natural History Museum Vienna. The contract with meteorite researcher Christian Köberl had not been prolonged. After a study of biology in Bielefeld and Bayreuth, she worked for four years in the Tropical Ecology Dept. at the Max Plack Institute for Limnology

in Plön, where she researched species formation and biodiversity in the Amazon region, for example. That was also the subject of her dissertation at the University of Kiel in 1999. She continued her scientific path at the Museum für Naturkunde Berlin (MfN), where she researched biodiversity and land use in southern Africa. In 2005 she moved to the Chair of Vegetation Ecology and Nature Conservation at the University of Potsdam. Between 2006 and 2009, Vohland was responsible at the Potsdam Institute for Climate Impact Research (PIK) for the project “Protected Areas in Germany in Climate Change – Risks and Options for Action”. Since 2009 she has worked continuously at the MfN and in 2012 took over the management of the research area “Science Communication and Knowledge Research” and the management of the “Science in Society” dept. In the past few years, Vohland was mainly active in the field of “Cit-

izen Science” and with the Green Party which is part of the Austrian Government.

► **Markus Roboch**, previously commercial director at the Jewish Museum Vienna and previously working in the controlling department at the *Kunsthistorisches Museum* Vienna, succeeds the previous commercial manager of the NHM, **Herbert Kritscher**, who is retiring.

Dr. Verena Villiger-Steinauer, director of the Museum of Art and History in Fribourg, Switzerland, has retired. Her successor is **Ivan Mariano** (photo: Museum)



At his own request, **Udo Kittelmann** did not extend his contract, which lasted until October 31, 2020. The acting management of the Nationalgalerie has been taken over by his previous deputy **Joaachim Jäger**. Born in 1958, Kittelmann was initially active as an optician, but then switched to museums. The three institutions supervised by Kittelmann are each to receive their own top management in the course of the dissolution of unmanageable accumulations of power at the Prussian Cultural Heritage Foundation.

► Honorary professor, former professor, deputy head of the institute and esteemed colleague at the Academy of Fine Arts Vienna, **Marion von Osten** (1963-2020), died on November 14, 2020. After working at the academy, she was curator and artistic director of the research and exhibition project “bauhaus imaginista” from 2014 (2018-19; from 2016 with **Grant Watson** as co-curator). From 1999 to



2006, she taught as a research assistant and professor for artistic practice at the Institute for Theory of Art and Design (ith ZHDK) in Zurich. 1996-1999 she was a curator at the Shedhalle Zurich, where, in collaboration with colleagues, she realized legendary exhibitions such as *Sex & Space* (1996-97) and *SUPERmarkt: money, market, gender politics* (1998). (photo: Wolfgang Stahl)

Else

William S. Smith departs “Art in America” as editor and takes up the role of head of digital and editorial content at Hong Kong’s M+ museum.

Online meetings are highlighted in light blue.

February 2021

February 12, 2021

Studiengang Museumsmanagement und -kommunikation of Hochschule für Technik und Wirtschaft (HTW) Berlin

Online-Tagung "Lass Land Gewinn – Rurale Museen zwischen Ablehnung und Wertschätzung"

MUTEC Tagung

Hochschule für Technik und Wirtschaft (HTW) Berlin

Treskowallee 8

10318 Berlin

mutec@htw-berlin.de

February 18-19, 2021

150 Jahre Conrad Matschoß – Technikgeschichte für die Gegenwart

Jahrestagung des VDI Ausschusses Technikgeschichte

in Kooperation mit dem Fachgebiet Technikgeschichte, TU Berlin, und dem Deutschen Technikmuseum Berlin

Online sowie Technische Universität Berlin und Deutsches Technikmuseum Berlin

Contact: Dr. Anne-Katrin Ebert

Leitung Sammlungsbereich Verkehr & Mobilität

Technisches Museum Wien mit Österreichischer Mediathek

Technisches Museum Wien mit Österreichischer Mediathek

Technisches Museum Wien mit Österreichischer Mediathek

Mariahilfer Str. 212 • A-1140 Wien

T. + 43 1 899 98 - 2650 • Fax - 1111

anne.ebert@tmw.at

March 2021

March 15 - 20, 2021

ICOFOM, organized in association with Indigenous heritage and Canadian museums

43rd Annual Symposium "The Decolonization of Museology: Museums, Mixing, and the Myths of Origins"

to be held in the cities of Montréal, Québec, and

Gatineau-Ottawa.

31 March 2021

UMAC International Committee for University Museums and Collections

CfP for the UMAC conference: New Opportunities &

New Challenges in Times of COVID-19

Adressee: Wenjia Qiu qiuwenjia@sjtu.edu.cn

<http://umac.icom.museum/activities/conferences/umac-universeum-2021-call-for-proposals/>

31 March 2021

UMAC International Committee for University Museums and Collections

CfP for the UMAC conference: New Opportunities &

New Challenges in Times of COVID-19

Adressee: Wenjia Qiu qiuwenjia@sjtu.edu.cn

<http://umac.icom.museum/activities/conferences/umac-universeum-2021-call-for-proposals/>

April 2021

INTERCOM, ICOM AZERBAIJAN, ICME

Joint Conference. Transforming Collecting Policies

in Museums: the Need for Leadership and Societal

Responsibility

Responsibility

Baku, Azerbaijan, to be held at the Azerbaijan National Carpet Museum (the oldest and biggest carpet museum in the world)

Follow the news about the conference on websites:

<http://icomaz.az/az>

<http://icme.mini.icom.museum/>

<http://intercom.mini.icom.museum>

May 2021

May 1, 2021

CIPEG International Committee for Egyptology

CfP: CIPEG Journal : Theme: Egypt, Sudan and

Abroad

The deadline for any contribution related to the

virtual annual meeting is 1 May 2021.

contact : cipegjournal@gmail.com

May 2-9, 2021

GLASS International Committee for Museums and Collections of Glass

ICOM Glass Conference "The End of Glass Production - The Beginning of Museums? Deindustrialization

and museums in glass production areas (Southern

Germany: Coburg, Kleintettau, Lauscha, Waldsassen,

Passau, Frauenau, Munich)

Veste Coburg, Germany

Veste Coburg, Germany

May 17, 2021

ICOMAM International Committee for Museums and

Collections of Arms and Military History

Annual Conference "The military historical legacy;

mirror of the past, reflection for the future"

17-21 May 2021

Toledo, Spain

May 17-21, 2021

ICOM-CC International Committee for Conservation,

Chinese National Organising Committee

ICOM-CC 19th Triennial Conference – Online –

"Transcending Boundaries: Integrated Approaches to

Conservation"

Beijing

24 May 2021

21th Conservator-Restorers' Professional Meeting,

Technical museum of Slovenia in Bistra near Vrhnika.

July 2021

5th-9th July 2021

EVA London Conference 2021 "Electronic Visualisation and the Arts"

For full/latest details of the event see: <http://www.eva-london.org/eva-london-2021/>

CfP for the Research workshop Deadline: 10th March

2021

Proposal must be submitted via: <https://easychair.org/conferences/?conf=evalondon2021>

Proposal must be submitted via: <https://easychair.org/conferences/?conf=evalondon2021>

Proposal must be submitted via: <https://easychair.org/conferences/?conf=evalondon2021>

Proposal must be submitted via: <https://easychair.org/conferences/?conf=evalondon2021>

EVA London's Conference themes include the use of new and emerging technologies in the following areas (to be broadly interpreted), and a focus on "AI and the Arts: Artificial Imagination":

- Digital Art
- Data, Scientific and Creative Visualisation
- Digitally Enhanced Reality and Everywhere
- 2D and 3D Imaging, Display and Printing
- Mobile Applications
- Museums and Collections
- Music, Performing arts, and Technologies
- Open Source and Technologies
- Preservation of Digital Visual Culture
- Virtual Cultural Heritage
- Ethics in Digital Art
- Digital Art Histories
- Artificial Intelligence

Held on one or two days of the EVA London conference depending on the number of accepted submissions, the Research Workshop is an opportunity for postgraduate students and artists to present their work and share research work in progress in an informal and supportive setting. The EVA London 2021 Research Workshop is planned for the afternoon of Monday 5th July 2021 and perhaps extended to the afternoon of Tuesday 6th July 2021 as well*. *

September 2021

September 13 - 17, 2021

GLASS International Committee for Museums and Collections of Glass

Joint meeting with the 22nd AIHV Congress (Association International pour l'Histoire du Verre) and ICOM

GLASS in Lisbon, Portugal

Lisbon, Portugal

October 2021

Oct. 19-22, 2021

17th International Conference on Digital Preservation iPRES2021

National Science Library, Beijing, China

This is the premier conference series on digital preservation. Since 2004 there have been annual iPRES conferences around the globe for the international digital preservation community to share their recent research, development projects, implementation efforts, and other practical experiences, and to enhance collaborations within the field and across the related domains. Because of the COVID-19 outbreak, the iPRES2020 had to be postponed to iPRES2021. With the support of the whole community, iPRES2021, (<http://ipres2021.ac.cn/>), will be organized in a hybrid mode. iPRES2021 will be co-hosted by the National Science and Technology Library (NSTL) and the National Science Library of Chinese Academy of Sciences(NSL).

You can refer to the documents at <http://ipres2021.ac.cn/dct/page/70005>. Please do not hesitate to con-

tact us if you have any question about iPRES2021 at ipres2021@mail.las.ac.cn

<https://ipres-conference.org/>

Contact:

Stefan Strathmann

Göttingen State and University Library

D-37070 Göttingen

Platz der Göttinger Sieben 1 (Central Library, Room 2.19)

+49 551 39-7806 (Tel.)

strathmann@sub.uni-goettingen.de

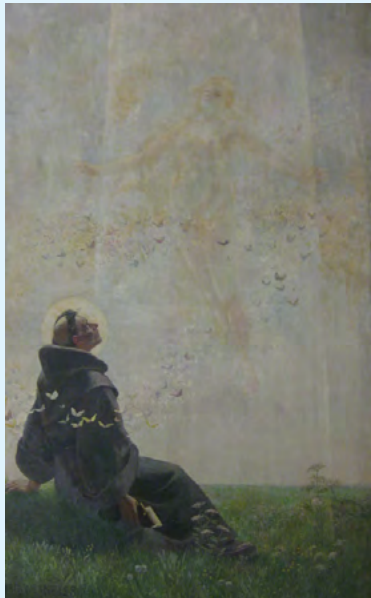
Unrivalled worldwide and now in its final 7th edition

7. stark erweiterte und aktualisierte Auflage

Paul-Bernhard Eipper (Hg.)

Handbuch der Oberflächenreinigung

Teil 1



Verlag Dr. Christian Müller-Straten

THREE PARTS. Updated and considerably expanded 7th edition, approx. 1,400 pages, 85 articles, 7 appendices, 82 authors. Produced as ebook on a USB stick or 3 CDs, readable on PC and MAC.

Delivery: March / April 2021

Language: German, English abstracts

ISBN 978-3-932704-92-5

With the 7th edition (which is the final version), all previous editions lose their validity. The standard delivery is on a USB stick, but can also be on 3 CDs if required. When ordering, enter this request in the free text field at the end of the ordering process, as well as "PC" or "MAC".

Orders via any international bookseller or directly from our shop

<https://www.museumaktuell.de/shop/index.php>

Verlag Dr. Christian Müller-Straten, Munich, Germany



Terra Huber

Conservation Treatment and Digitisation of Posters for the Exhibition “Toulouse-Lautrec and the Stars of Paris”

The Northeast Document Conservation Center (NEDCC) conserved, digitized, and framed nine large Henri de Toulouse-Lautrec posters from the Boston Public Library’s collection (BPL) in preparation for their loan for a major exhibition at the Museum of Fine Arts, Boston (MFA Boston) from April to August 2019. The treatment of these heavily damaged ephemeral objects, which are now revered as fine art, was a balance in subtle aesthetic improvement required for exhibition and structural stabilization for long-term preservation.

Toulouse-Lautrec and the Stars of Paris – The Exhibition

The exhibition of about 200 works by Henri de Toulouse-Lautrec and his contemporaries sought to capture

the culture of fin de siècle Paris and its avant-garde celebrities as depicted by the artist most involved with the era’s raucous nightlife. Toulouse-Lautrec’s unique, expressive approach to mark-making, bright fields of color, and lively compositions were epitomized in the poster designs he created throughout the 1890s, elevating commercial lithographs from graphic design to fine art.

The MFA Boston’s show was a collaboration with the Boston Public Library, which loaned over 100 objects from its extensive Toulouse-Lautrec collection for exhibit. While the conservators at the MFA Boston prepared most of the objects for exhibition, nine posters needed more extensive conservation treatment, as well as digitisation and framing. Five of the posters would be on display for the full four months of the exhibition at the MFA Boston,



NEDCC Conservators Terra Huber and Audrey Jawando inpaint a Toulouse-Lautrec poster.

while the other four were to be shown one at a time over the four-month period in a case at the BPL Central Library. Funding for the posters' conservation was underwritten by the MFA Boston and the Associates of the Boston Public Library.

Ephemera, Elevated

The budding advertising industry in the late 19th cent. called for quick and cheap ways to mass produce images for temporary display. These bold poster designs by Toulouse-Lautrec were commissioned by enterprises as diverse as nightclubs, publishers, and a cycling company to seize public attention and garner interest in events and products.

The posters were oversized to command attention, necessitating a large amount of paper. Costs could be cut by selecting inexpensive, low-quality paper that was thin and light enough to be quickly mounted with tacks or adhered to walls with paste. The advertisements were hung in densely populated and well-traveled locations, often outdoors, where they were subject to the damaging effects of the elements and vandalism.

These oversized posters on cheap, thin wood pulp paper were intended as commercial ephemeral objects and treated as such by those who produced and displayed them. However, Toulouse-Lautrec's unconventional compositions and gestural lines combined with his sometimes suggestive subject matter created both sensation and scandal at the time of their display around Paris. Popular in their time, collectors quickly began to gather these posters that would likely have been discarded. Their value as images became much greater than the value of the materials used to create them and these ephemeral objects were elevated to fine art that must be preserved. Early collectors sought to extend the life of the degraded paper by lining the posters with textiles.

Project Planning Begins with a Condition Assessment

An NEDCC paper conservator spent a day at the Boston Public Library carefully examining the condition of all nine posters and speaking extensively about the goals of treatment and the exhibition with BPL Curators and Preservation staff. The posters were then sent to NEDCC for further examination and testing, while treatment needs and goals continued to be discussed between NEDCC, the BPL, and the MFA Boston.

The nine lithographs were printed on the typical thin, low-quality poster paper of the time, which

had become embrittled, discolored, and degraded. Each poster had been lined with a textile at some point in its history and tack holes with rust stains were visible along many of their margins. A surprising variety of textiles had been employed for this purpose, from very loose, open weave textiles to what appeared to be commercially prepared artist's canvas with gesso. As a general rule, the more open the weave, the more tattered the edges of the lining and the paper support, and the worse the overall condition of the poster. The posters had all yellowed and darkened to differing degrees due to oxidation of what is likely the high lignin content of the low-quality paper support. Further probable causes of the paper discoloration include the lining adhesives and the degradation of the lining textiles. For the most part, the more visibly degraded the lining, the more discolored the paper support.

The linings had also caused damage when they were initially adhered to the posters. The lining adhesives introduced moisture to the paper support, causing the thin paper to expand when wet and then contract more than the textile did as it dried. This made some areas pull away from the textile and create wrinkles. As the paper aged and became more acidic, its thinness combined with its increased brittleness rendered it more and more delicate. Many of these posters were rolled, compressing these wrinkles until they tented further and the brittle paper cracked at the peak of each ridge. These raised areas were also vulnerable to abrasion, resulting in paper and media loss.

The edges of these oversized posters were crushed and ragged. Small pieces of paper around the heavily dam-



Tented wrinkles from lining.

aged edges detached from the poster but remained adhered to the lining, leaving complex channels of loss between them. Those pieces that remain attached to the open weave textile did so only tenuously and were extremely vulnerable to loss.



Tattered poster edges showing extensive loss and fragments detached from the whole.

The poor condition of most of the posters necessitated extensive yet delicate conservation treatment to prepare them for exhibit and to stabilize them for long-term storage. The linings and size of the posters meant that they were heavy, especially those backed with gessoed canvas. Their weight and their extreme fragility posed a huge challenge for the structural stabilization required to mount and hang them vertically for a four-month exhibition. The treatment and framing goals were to ensure their safety for storage and protect them from further damage caused by handling, as well as increase their accessibility to the public and researchers.

Library and Museum: Different Missions, Different Goals

Discussions with the lending institution and the borrowing institution revealed some differences in how they envisioned the treatment of the posters should be performed. Although the ultimate goal of both institutions was to provide care that will preserve the posters for the long-term, the contrasting aesthetic approaches of a public library and fine art museum became apparent. As the institutional owner of the posters, the Boston Public Library was interested in retaining as much visual evidence of the posters' history as possible for researchers. This meant maintaining some marks of damage that would not threaten the preservation of the posters. It was decided that the tattered and vulnerable edges would be stabilized to protect the paper from further damage and to curtail the fraying of the lining textiles, but the edges would not be made perfectly straight and square. Only the most distracting paper losses would be

filled, so a certain amount of the lining would still be visible from the front on some of the posters. The four posters to be on rotating display at BPL would be float mounted so the entirety of the edges could be viewed. On the other hand, the Museum of Fine Arts, Boston intended to present the posters as fine art objects and were less focused on revealing traces of their history. The five posters to go on display at the MFA Boston would have losses filled using the same principles, but the tattered edges of the posters would be covered by mats. This was also necessary from a conservation point of view, as the over-matting would help to hold and stabilize the heavy posters over the four months of vertical display. Inpainting on all posters was only conducted on the most distracting media losses when standing at a normal viewing distance.

Conservation Treatment

Once the treatment plan was agreed upon, the condition of both sides of the posters was documented with digital images captured by NEDCC Collections Photographers. Three of the posters also had gallery stamps or provenance cards on their verso, which were also digitized with close-up images before treatment began.

The posters had accumulated dirt and grime from being displayed in public, outdoor spaces. The first step was to lightly remove loose dirt using soft sponges and brushes. Much embedded grime and soiling remains, as the degraded paper surface was very fragile and easily disturbed by abrasive action.

All of the original lining textiles on the verso of the posters were kept due to the extreme fragility, thinness, and existing damage of the posters' paper supports. Although the paper was tenuously adhered to the textile linings in many areas, wholesale mechanical separation of the brittle paper from the linings was impossible. Aqueous treatment was also not an option, as the paper formed dark stains and tidelines even when relatively low lev-



Applying methyl cellulose under a detached split in the paper.

els of moisture were introduced. Even if lining removal could be safely performed, the many small fragments at the edges of the paper would have been lost or damaged and the extensive cracking of the thin paper would increase and destroy the posters. Some of the textile linings had frayed edges, so that overhanging threads were trimmed to reduce the chance of further fraying.

Some of the posters had pressure sensitive tape, hinges, or self-adhesive labels that were removed mechanically or with small amounts of locally applied moisture. The adhesives were reduced mechanically or with organic solvents when possible.

Due to the high risk of creating irretractable stains on the poster, consolidating, mending, and filling had to be accomplished using as little moisture as possible. To re-attach the paper support where it had lifted from the lining and to prevent further loss where it had tented and split, methyl cellulose or dry wheat starch paste were applied through the looser weave textiles from the verso or were deposited through the cracks in the paper support. Some splits and tears were strengthened from the verso with Japanese *kozo* tissue and dry wheat starch paste. One smaller poster was supported using a low moisture lining technique with Japanese *kozo* tissue and reactivated wheat starch paste and methyl cellulose. The edge of two of the most heavily damaged posters were reinforced using the same technique with strips of *kozo*.



Strip lining the edge of a poster with re-moistenable Japanese tissue.

The crushed areas along the edges of the posters had a tremendous amount of irregularly-shaped loss between small pieces of remaining paper support. In order to visually integrate these losses without introducing excessive moisture or overlapping the original material, a slurry of cellulose powder and methyl cellulose was applied to the gaps with a microspatula. The color of the cellulose powder was first modified to a light brown to match the original paper tone. In several places, a more typical filling method was applied using cast paper and methyl cellulose or dry wheat starch paste, but this was

only done where the fills could be adhered behind original material or with an extremely small overlap.



Applying a cellulose powder and methyl cellulose slurry to edge losses.

Media loss was present throughout the posters where the paper support had cracked or torn, had been abraded, or was lost. Some losses in image areas had been filled with white or colored paper in the past and a number of these areas included poorly executed inpainting. Fills that were applied to the recto of the poster were removed and inpainting was reduced with a small amount of locally applied moisture. Losses in the printed media were then visually unified with the poster through inpainting. An isolating layer was first applied locally to the loss areas so the inpainting media would not be absorbed into the damaged fibers and become difficult to reverse in the future if needed. As per discussions with the BPL and the MFA Boston, only losses that were distracting from a typical viewing distance of several feet were compensated so as to not obscure traces of the posters' history.



Removing an oversized colored paper fill.



Lifting poster off of humidification packet and onto flattening table.

Posters that retained undulations from rolled storage or original linings were slowly humidified in a moisture chamber and allow to dry while flattened between felts under acrylic sheets and weights. This process was repeated as necessary until planar distortions were adequately reduced for matting and framing.

Digitisation

The Toulouse-Lautrec posters conserved at NEDCC were also digitized at preservation quality. In general, the posters were digitized following the vast majority of their conservation treatment but prior to matting and framing.

Two posters, *Eldorado Aristide Bruant* and *Aristide Bruant dans son Cabaret*, were selected by BPL staff for preservation quality imaging before and during treatment as well. The goal behind these additional rounds of digitisation was to create high quality images that could document the nuance of the conservation treatments performed and thus be used in the Library's educational programming. In tandem with each poster displayed at the Central Library, the BPL featured information and images on the conservation process in action to build awareness and support for this important work.

The two posters selected for additional imaging were captured before any treatment started, documenting the full extent of damage suffered by the posters. For the 'during treatment' imaging, the collections photographer worked closely with the conservators to determine the stage of each poster's treatment that would be most illustrative of the impact of the treatment. The conservators chose to have the posters imaged following cleaning, initial flattening, mending, and filling losses but prior to in-painting and the more intensive flattening campaign that came at the end of treatment. Captured at this stage, the images make clear the painstaking work involved in the conservation treatment and some of the aesthetic improvement such treatment yields.

The digitisation process itself took place on NEDCC's X-Y table, which is used for digitizing large format materials. The X-Y table is a 4' x 8' vacuum table on rails, with a medium format digital camera suspended above. When digitising large objects at high resolutions using digital cameras, the camera can only capture a portion of the object at a time. This is where the X-Y table comes in. Because the table is on rails, the posters were placed on the table and then the table was moved along its X and Y axes underneath the stationary camera as overlapping sections of the posters were captured in a series of separate image files. The largest of the Toulouse-Lautrec posters required



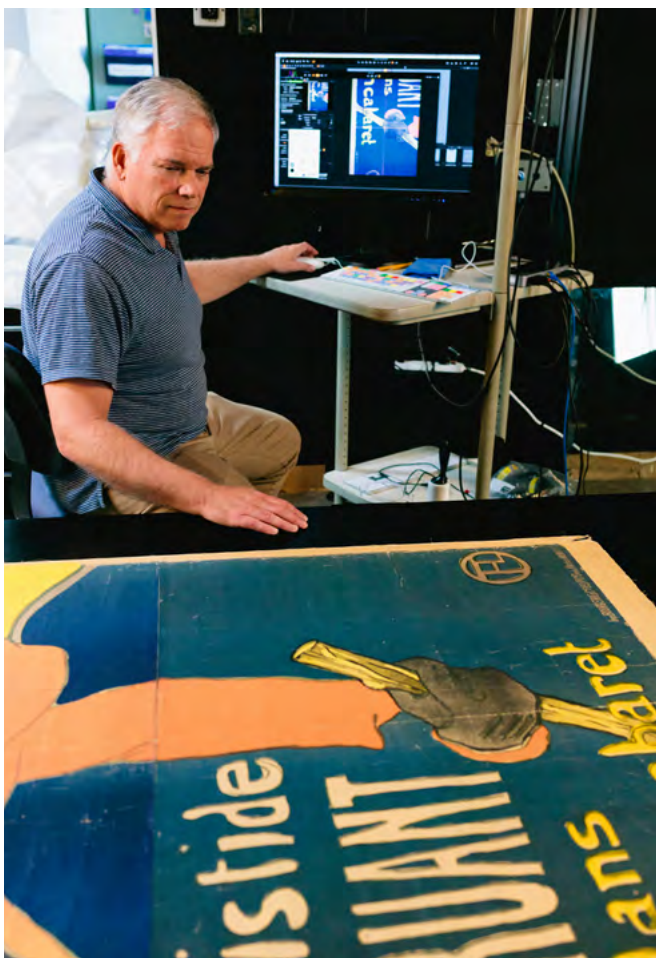
Detail: Eldorado Aristide Bruant poster before and after treatment

12 separate image files, each more than 11,000 pixels on their long dimension and larger than 600 MB. After the overlapping image files were captured, they were 'stitched' together in commercial image editing software to create single high-resolution images representing the posters in their entirety. After years of imaging large format materials, the NEDCC collection photographers have learned that stitching image files together often requires some helpful strategies to achieve good results. For example, magazine clippings were

placed around the perimeter of posters that had large areas of homogenous visual content. The magazine clippings gave the stitching software unique visual information to match from image segment to image segment, and yielded more accurately stitched images for those otherwise challenging to stitch posters.

But even when the series of files captured from a poster appeared to have assembled together seamlessly, the resulting image had to be inspected at full magnification along all of the seams to ensure there was no mis-registration from one segment to the next. If any mis-registration was identified, this would require either that segment files be stitched together manually, or that the segment files be re-captured with greater overlap from section to section.

The posters presented some unique challenges for digitisation even beyond their large format. Most notable were the planar undulations described above. Even though the posters were humidified and flattened for weeks prior to imaging, some planar distortion simply could not be eliminated. We often encounter objects with such subtle topography, and rarely does that topography impact image quality. However, several of the posters had large swaths of dark color printed on very smooth papers (*Eldorado Aristide Bruant* is an excellent example), and under these circumstances the subtle undulations would receive and reflect more light than adjacent, flatter areas of the poster. In the digital images, this resulted in a mottled appearance not accurate



NEDCC Collections Photographer David Joyall photographing a poster



Aristide Bruant dans son Cabaret poster with seams highlighted in the software, illustrating the relationship of the 9 separate image files required to capture the poster in its entirety.

to the experience of viewing the actual posters. With some creative lighting, both softening the light and adjusting its angle and position relative to the posters, the photographer was able to minimize the hard reflections generated by the surface topography and thus achieve images much more truly representative of the posters themselves.

Mounting and Framing

Following digitisation, the posters were ready for mounting and framing. The posters were first attached to a 100% cotton rag backing board with Japanese paper hinges adhered with wheat starch paste on the object, a bead of wheat starch paste and Jade 711 (a synthetic adhesive that improves attachment) mixture at the fold, and Jade 711 on the backing board. For the four posters to be displayed at the BPL, the hinges were not visible and the objects were float mounted within the window opening. For the five posters to be displayed at the MFA Boston, the objects were over-matted and all edges were covered. All posters were placed in custom-made stained wooden frames with wooden strainers and 4.5mm Optium Museum Acrylic for glazing. A Tycore mounting panel was placed behind the backing board to provide additional support and aluminum channel fillets were used to keep the object from coming into contact with the acrylic glazing.

Conclusion

The treatment approach to these Toulouse-Lautrec posters was focused on structurally stabilizing the fragile materials in order to allow them to be safely exhibited for a number of months and stored in the future. The interventions were as non-invasive as possible, using materials and methods that do not alter or obscure the original material of the object and can be reversed by future conservators if further treatment must be performed.

The posters have been preserved while also making them available for the public. Their frames will help protect them from further damage caused by handling these large and fragile posters.

Thanks to BPL Preservation Manager Jessica Bitely for her help with the story.

Photos: Courtesy of NEDCC / Tim Gurczak

Conservation Treatment Consumables:

Methyl cellulose, toasted cellulose powder, wheat starch paste, Japanese *kozo* paper, watercolor paints

Boston Public Library

Established in 1848, the Boston Public Library is a pioneer of public library service in America. It was the first large free municipal library in the United States, the first public library to lend books, the first to have a branch library, and the first to have a children's room. Boston Public Library today features the Central Library in Copley Square, twenty-five branches, and extensive special collections of rare books, manuscripts, maps, photographs, prints, digital content, and online services. To learn more, visit bpl.org

Visit the complete Henri de Toulouse-Lautrec (1864-1901) Prints and Drawings collection at the BPL.

Museum of Fine Arts Boston:

MFA is one of the most comprehensive art museums in the world; the collection encompasses nearly 500,000 works of art, and welcomes more than one million visitors each year to experience art from ancient Egyptian to contemporary, special exhibitions, and innovative educational programs. To learn more, visit mfa.org

NEDCC Project Team:

The treating conservators on this project were Terra Huber, Suzanne Gramly, Audrey Jawando, Amanda Maloney, Natalia Paskova. Senior Collections Photographer David Joyall provided digital imaging. Jonathan Goodrich, NEDCC registrar, made sure they were safely packed and shipped. Director of Imaging Services Terrance D'Ambrosio provided the description of the digitisation process.





Paul-Bernhard-Eipper

The conservation of torn canvasses, part II

Direct link to part I: <https://www.museumaktuell.de/home/eTime/ExpoTime-2020-0810/index.html#p=61>

Commercial products

Many PVAC dispersions are tailored to their later use during production. These easy-to-acquire finished products (wood glue, etc.) are popular with restorers. However, they should not be used because they contain a large number of additives which are completely unsuitable for conservation purposes. These are: protective colloids, surface-active substances, film-forming aids, buffers, plasticizers, solvents, dyes, antioxidants, fillers, microbiocides, defoaming agents, antistatic agents and enhancers.

The exact composition of dispersions is kept secret by the manufacturer. However, it can be assumed that the commercially available wood glues are made from homopolymer types. Instead of an expensive copolymer, a plasticizer is added to these. The additives are added to the products in order to obtain an ideal finished product for specific requirements and not in order to produce a product that meets conservation requirements. When the water evaporates, the individual components add up. The specialist literature warns against non-volatile buffers which are added to the PVAC dispersion. They can damage the surrounding material at increased relative humidity. ¹ Another study shows that most additives reduce the stability of PVAC. ²

A basic requirement for the use of PVAC is to use only slightly modified types of PVAC from the basic product suppliers in order to introduce as few components as possible into the structure of the painting that are unpredictable with aging. This is not guaranteed when using finished products.

Selection and use of certain varieties for restoration Hoechst and Wacker offer a variety of grades that are geared towards specific requirements. Hoechst products are traded under the name Mowilith, Wacker products under the name Vinnapas. ³ Only these types of PVAC will be discussed below.

They are relatively pure products to which high polymer compounds (PVAL), cellulose derivatives (H.E.C., M.H.E.C., C.M.C.) or surface-active substances ⁴ are added by the producers as protective colloids / emulsifiers. ⁵

Of the pure varieties that Wacker and Hoechst offer, suitable ones for conservation requirements on the textile supporter were determined and subjected to various tests. ⁶

They are: Wacker H 60 approx. 60% (homopolymer PVAC, medium hardness) and EP 11 approx. 50% (the hardest copolymer PVAC from Wacker). In the meantime ⁷, the names of the Wacker Vinnapas products have changed: Vinac H 60, Airflex EP 11. They correspond to the Mowilith types D 60 approx. 60% (homopolymer PVAC; with 88 mol.% Degree of saponification partially saponified PVAL as protective colloid) and DM 105 approx 55% (copolymer of vinyl acetate and ethylene, pH 3-4).

Mowilith DM 257 approx. 50% (the hardest homopolymeric PVAC dispersion from Hoechst) and Mowilith DHS (homopolymeric PVAC dispersion, which has the lowest cold flow and passes the creep test according to BS 3544 [wood glue test]) are suitable for mixtures. The limited shelf life of the mixtures is at least one year and must be observed. The unmodified raw materials Mowilith DC and Mowilith DM 5 have a good 10 years, whereas the Wacker products Vinnapas H 60 and EP 11 can easily be stored for 30 years. The validity of these statements, which were presented in 1993, ⁸ was proven by another study in 2000. ⁹

Mixtures of different types

Since the homopolymeric PVAC dispersions are too hard and brittle, but the copolymers are too soft, but are still regarded as ideal, i.e. the use of these types alone does not seem possible, the production of mixtures must be taken into account. ¹⁰

Mixtures of dispersions can be produced with the desired hardness and elasticity, depending on the requirements of the object. While Mowilith DM 1 has sufficient tensile strength for a canvas painting of approx. 60 cm x 40 cm that is not too tight, a mixture of homopolymer and copolymer dispersion would be advisable for a larger or more tightly stretched painting. Mixtures with different proportions - e.g. 3/4 Vinnapas H 60, 1/4 Vinnapas EP 11; 1 part Mowilith D, 1 part Mowilith DM 105 ¹¹ or 1 part Mowilith DHS, 2 parts Mowilith DM 105. Mixtures of different Wacker and Hoechst products are possible. Additions of homopolymer PVAC to copolymer PVAC increase the resistance to high tensions, but also make the films less flexible and more brittle. By modification, more suitable adhesives can be produced, for mending tears of individual cracks in individual regions of torn paintings, than would be the case if a single dispersion would be used for all tear shapes and sizes at any part of the painting.

Dilution

For mending of tears, PVAC dispersions are too highly viscous mostly and therefore must be diluted with distilled or deionized or another kind of suitable (buffered) water. This is only possible up to a certain ratio, as the dispersion then separates. Diluted dispersions are only stable over a certain period of time because they separate.

Neutralisation

Many dispersions have a pH value that is too low. They have to be buffered and can only be used for some days because of the segregation that occurs. Neutralisation can be done instead of dilution or after dilution, which works easier. The pH values can best be raised with ammonia¹² and lowered with formic acid or sulfuric acid. The neutralisation limits the usability of the liquid dispersion to a maximum of six months and shortens the longevity of the dried film. The acid number (AN)¹³ must be observed here. It is used to determine the content of free organic acids in fats, oils and solvents as well as plasticisers.¹⁴ It is determined in accordance with DIN 53402 and indicates the amount of 0.1 mol / l aqueous potassium hydroxide (KOH) in milligrams that is required to neutralize one gram of substance.¹⁵ Unless otherwise stated, it refers to the solvent-free product.¹⁶ It determines the reactivity of the dispersion and the resulting film with saponifying substances such as strong bases and thus ultimately the durability of the dispersion or the film. It should be very low.¹⁷

PVAC in the tear bonding

Tear bonding differs from tear welding in that there is no targeted use of heat, for example with a soldering needle. The tear bonding is mostly used in textile restoration but also for smooth cuts in canvases. As described, the adhesive materials also used for the tear mending are used. The adhesive application is the same here. Additions of homopolymeric PVAC to make the films harder, if necessary, are possible, but should not be used in larger quantities (> 1: 1) because of their low elasticity. It is essential to create test rows to determine the specific correct adhesive in each case. The tear bonding is inferior to the tear mending in terms of tensile strength, as it represents a thread connection butt joint. Nevertheless, there are considerations – from the point of view of reversibility – to reduce the adhesive force of the PVAC. In principle, the interface should be secured by means of thread bridges, which are placed alternately under opposing tension. 20 years after the investigations, the need for thread bridges was confirmed again.¹⁸ A finally applied rear protection, which acts here as light and climate protection, is mandatory.¹⁹ Since 1992 I have only used Wacker Vinnapas H 60 and Vinnapas EP 11, or Hoechst Mowilith D and Mowilith DM 105, in various mixing ratios in my work.²⁰

Outlook

Laser technology is currently enjoying great interest in research in the field of conservation of cultural property. For the near future, research results are to be expected for an even gentler tear mending process than is guaranteed by the temperature-controlled needles used up to now using laser technology working with low temperatures.

Acknowledgements

Many thanks for the support to several colleagues of Hoechst, Frankfurt and Wacker, Burghausen.

Notes

- 1 Witte et al 1984, p. 32
- 2 Technical Report, CCI, 2000
- 3 Kunstharze Hoechst, Product Information, Frankfurt, 1992; Wacker, Vinyl Acetate Polymers, Technical Information. Munich 1991
- 4 Anionic or nonionic emulsifiers which influence the hydrophilicity / hydrophobicity of the dispersion film.
- 5 e.g. Mowilith DM 105 is adjusted to be nonionic to weakly anionic.
- 6 Messages from Hoechst, Frankfurt, and Wacker, Burghausen; experiments by the author
- 7 in the year 2000
- 8 Eipper 1993, p. 72-78
- 9 Eipper 1997, 95-99; Technical Report, CCI, 2000
- 10 Eipper 1993, p. 66
- 11 This mixture is used in a painting by Domenico Tiepolo ("Emperor Justinian as legislator", Inv. No. Wü Res G 123). Schwabe; Seidel 1996, p. 326
- 12 Hoechst Mowilith 1970, p. 115
- 13 Also in German SZ = Säurezahl (saponification number). Nägele 1989, p. 39
- 14 Roempps Chemie Lexikon 1995
- 15 The similarly defined neutralisation number (NZ) not only records the organic acid, but also the total acid content and is used for better determination in mineral fats and oils.
- 16 Hoechst Kunstharze 1982, p. 7
- 17 Nägele 1989, p. 39. Mowilith Ct 5 has a SZ up to 45, Mowilith solid or in solvents has a SZ up to 3
- 18 Flock 2013
- 19 Eipper 2015, p. 277-289
- 20 Eipper 1992, p. 1-191; Eipper 1993, p. 53-81; Eipper 1997, p. 27-38, Eipper 1997, p. 20-28; Eipper 2003, p. 4100-4105; Eipper 1993, 2008, p. 31-34; Eipper 2008, p. 21-27

References

- Bachmann, K.W. (et al eds.): *Die Kunst und ihre Erhaltung. Rolf E. Straub zum 70. Geburtstag gewidmet.* Worms 1990
- Baltscheit, C.: *Die Stoß-auf-Stoß-Verklebung zur Risssschließung bei Leinwandgeweben. Vergleichende Untersuchungen zur Zugfestigkeit von Klebstoffen für die Einzelfadenverklebung.* Diploma project off CICS (Institut für Restaurierungs- und Konservierungswissenschaft) Cologne 2011
- Beiner-Blüth, S.; Beckmann, S.: *Faserbrei zur Schließung klaffender Risse. Ein Werkstattbericht. In: VDR Beiträge zur Erhaltung von Kunst- und Kulturgut (1), 2007, p. 45-54*
- Beltinger, K.: *Die Vernähung eines Risses in einem Leinwandgemälde. In: Zeitschrift für Kunsttechnologie und Konservierung (6), 2, 1992, p.353-359*

- Berger, G. A.: Lining of a Torn Painting with Beva 371. In: Conference on Comparative Lining Techniques. National Maritime Museum 1974
- Berger, G. A.: *The role of tension in the preservation of canvas paintings: A study of panoramas*. In: ICOM Committee for Conservation, Ottawa, 1981, 81/2/3-1 - 81/2/3-12
- Bernkopf, A.: *Die Kleister-Leim Bügeldoublierung. Technologie – Problematik – Schäden. Entrestaurierung des Gemäldes „Flämische Landschaft mit Überfall“ um 1650 aus der Alten Galerie, Steiermärkisches Landesmuseum Joanneum. Diplomarbeit, Universität für angewandte Kunst, Wien, Institut für Konservierung und Restaurierung, Studienrichtung Konservierung - Restaurierung, Vienna 2006*
- Birkušová, S.; Hasalová, E.: *Reštaurátorský výskum a reštaurovanie neskorostredovekej kazuly s pašiovými scénami*. In: *Textil v Muzeu Oděvy a textilní doplňky pro liturgii a obřady*, Technické muzeum v Brně 2015, p. 27-34
- Birkušová, S. et al: *Zástava tkáčov manufaktúry zo Šaština z roku 1825*. In: *Zborník prednášok 17. Medzinárodného Seminára o Reštaurovaní Záhorie 2019*, p. 238-253
- Börner, A.: *Konservierung und Restaurierung des Leinwandgemäldes "Der Dom zu Limburg an der Lahn" von Gustav Adolf Hahn, 1864, aus dem Besitz der Staatlichen Kunstsammlungen Dresden, Gemäldegalerie Neue Meister. – Die Substitution von Berliner Blau in der Retuschieretechnik – Versuchsreihe zur Langzeitbeobachtung. Diplomarbeit, Hochschule für Bildende Künste Dresden, Fachklasse für Restaurierung historischer, moderner und zeitgenössischer Malerei und Materialkonstruktionen, 1999, p. 9-23*
- Börner, A.: *Sarburghs Kopie der Madonna des Basler Bürgermeisters Jacob Mayer zum Hasen nach Hans Holbein d. J. – Technologische Untersuchung und Konservierung*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (1), 2015, p. 95-115
- Bóna, I.: *Korszerű vászonkép-konzerválás szerény felszereltség mellett: Körösfői Kriesch Aladár Boldogság című festményének restaurálása* (The up-to-date conservation of a canvas painting in small-workshop circumstances: the restoration of the painting Happiness by Aladár Körösfői Kriesch). In: *Műtárgyvédelem* (37), 2012-2013, p. 109-120
- Cederholm, K.: *The mechanics and mending of tears in paintings on fabric supports*. London 1985, p. 1-46
- Colville, J., Kilpatrick, W. & Mecklenburg, M. M.: *A finite element analysis of multi-layered orthotropic membranes with application to oil paintings on fabric*. In: *IIC Washington 1982*, p. 146-150
- Cornelius, F. du Pont: *Movement of Wood and Canvas for Paintings in Response to High and Low RH Cycles*. In: *Studies in Conservation*, 1967, p. 76-80
- Cruz, A. J.; Rego, C.: *Para a história do restauro de pintura em Portugal: as antigas intervenções no retrato de José António de Oliveira Machado, da Biblioteca Nacional de Portugal*. In: *Ge-conservación: publicación digital hispano-lusa de conservación y restauración* (7), 2015, p. 5-13
- Demuth, P.; Flock, H.: *Der Consolidation Pen „Winnie“ Die Entwicklung eines kleinen, beheizbaren Klebstoff-Applikators als Generationenprojekt*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (1), 2019, p. 129-136
- Demuth, P. & Heiber, W.: *Der Trecker*. In: *Restauro* (5), 2000, p. 344-347
- Demuth, P. et al: *Review Adhesives for thread-by-thread tear mending in torn fabric supported paintings*. In: *Symposium 2011. Adhesives and Consolidants for Conservation, Proceedings, Canadian Conservation Institute, Ottawa 2011*
- Depierraz, C.; Vogt, C.: *Das Juliusbanner der Stadt Biel: Spurensuche und Konservierung*. In: *KGS Forum = Forum PBC* (16), 2010, p. 77-84
- Dolezel, B.: *Die Beständigkeit von Kunststoffen und Gummi*. Meysenbug, C. M. v. (ed.), München/Wien 1978, p. 1-684
- Down, J. et al: *Adhesive Testing at the Canadian Conservation Institute – An Evaluation of selected Polyvinylacetate and Acrylic Adhesives*. In: *Studies in Conservation* (1), 1996, p. 19-44
- Down, J. L.: *The effect of modifiers on the stability of a vinyl acetate /ethylene copolymer dispersion*. In: *Studies in Conservation* (1), 2016, p. 26-45
- Dudew, E. et al: *Zwei Studien zur Risssschließung mittels Faser-Bindemittel-Gemisch*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (2), 2019, p. 317-326
- Eipper, P.-B.: *Rückseitenschutz für Gemälde*. pp. 277-289 + 599-601. In: *Collection Care - Sammlungspflege*. Krist, G., (ed.) Vienna 2015, p. 1-654
- Eipper, P.-B.: *Die Behandlung von Rissen an Gemäldeträgergeweben mit Polyvinylacetaten (PVAC)*. In: *MUSEUM AKTUELL* (95), 2003, p. 4100-4105
- Eipper, P.-B.: *Barocke Skizzen. Maltechnische Beobachtungen und restauratorische Maßnahmen*. In: *MUSEUM AKTUELL* (152), 2008, p. 31-34
- Eipper, P.-B.: *Maltechnische Beobachtungen und restauratorische Maßnahmen*. pp. 21-27. In: *Mit kühnen Pinselstrichen. Barocke Ölskizzen der Alten Galerie in Graz*. Alte Galerie (ed.), Graz 2008, p. 1-144
- Eipper, P.-B.: *Die Behandlung von Rissen an Gemäldeträgergeweben mit Polyvinylacetaten (PVAC)*. In: *Mitteilungsblatt* (53). Museumsverbandes Niedersachsen und Bremen, Hannover, 1997, p. 27-38
- Eipper, P.-B.: *Die Behandlung von Rissen an Gemäldeträgergeweben mit Polyvinylacetaten (PVAC)*. In: *Arbeitsblätter für Restauratoren*. Mainz 1997, p. 20-28
- Eipper, P.-B.: *Ein neuer Rückseitenschutz für Gemälde*. In: *Arbeitsblätter für Restauratoren*. Mainz 1996, p. 14-19
- Eipper, P.-B.: *Die Reinigung von Gemäldeoberflächen mit Tensiden*. *Der Einsatz von modifizierten Polyvinylacetaten zur Konservierung von textilen Bildträgern*. Bern 1993
- Eipper, P.-B.: *Die Reinigung von Gemäldeoberflächen mit Tensiden und der Einsatz von modifizierten Polyvinylacetaten zur Konservierung von textilen Bildträgern*. *Konservatorische und restauratorische Probleme bei der Betreuung der Sammlung des August Deusser Museums*. Diploma project, FH Cologne, Fachbereich Restaurierung und Konservierung von Kunst- und Kulturgut, 1992
- Essers, G.: *Verschweißung von Gewebeträgerissen mittels Lötnadel*. In: *Maltechnik/Restauro* (2), 1985, p. 42-43
- Flock, H. et al: *Störleim-Cellulosefaser-Gemische zur Einzelfadenverklebung*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (1), 2019, p. 117-128
- Flock, H.: *Neue Untersuchungen zur Risssschließung in Leinwandbildträgern: Uni- und Biaxiale Zugprüfungen an Prüfkörpern aus verklebtem Leinengarn und -gewebe sowie freien Klebstofffilmen*. Diploma project at CICS (Institut für Restaurierungs- und Konservierungswissenschaft) Cologne, *Kölner Beiträge zur Restaurierung und Konservierung von Kunst- und Kulturgut*. Digital ed., vol. 2, Cologne 2014
- Flock, H.: *Wie gelingt die Einzelfadenverklebung?* Diss. at Institut für Restaurierungs- und Konservierungswissenschaft der TH Köln 2020
- Frank, A. & Biederbick, K.: *Kunststoff-Kompendium*. Wuerzburg, 1988, p. 1-364
- Gabler, W.: *Eine Möglichkeit der Restaurierung von Rissen in Leinwandgemälden ohne Doublierung, dargestellt am*

- Beispiel des Gemäldes "Die Nacht" von Ferdinand Hodler. In: *Mitteilungen des DRV*, 1980/81, p. 22-25
- Großschmidt, H.: *Thermische Bausanierung, Raumtemperierung und Klimastabilisierung in Museen und anderen Gebäuden. Landesstelle für die nichtstaatlichen Museen in Bayern beim Bayerischen Landesamt für Denkmalpflege* (ed.), preprint Munich, October 1991
- Guerreiro, E.: Alternatives to Lining: Local Moisture Treatment and Tear Mending. In: IIC Congress "Modern Art, New Museums", Bilbao 2004, p. 229
- Hacke, B.: Holding up the lining cycle. *Il restauro dei dipinti contemporanei. Soluzioni per evitare la foderatura e per limitare le alterazioni che essa comporta*. In: ICCROM, 1989, p. 52-59
- Haller, U. et al: The Ermlitz project: conservation and mounting of 310 square metres of painted wall hangings. In: *Contributions to the Vienna Congress: 10-14 September 2012: the decorative: conservation and the applied arts*. Cather, S. (et al eds.). IIC. Leeds/London 2012, p. 138-S146
- Hedley, G. A.: Some empirical determinations of the strain distributions in stretched canvas. In: ICOM, Venedig 1975, p. 75/1/4
- Hartwich, C.; Plötz, S.: *Eine Rissverklebung mittels Faser-Bindemittel-Gemisch*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (2), 2016, p. 325-337
- Hedinger, D.: *Rissvernehmung am Gemälde*. Staatliche Akademie der Bildenden Künste Stuttgart 1999
- Heiber, W.: *Kunstgriffe, Tüfteleien und Hilfsmittel aus Gemälderestaurierungswerkstätten*. In: *Mitteilungen des DRV*, 1983/84, p. 34-41
- Heiber, W.: *Die Rissverklebung*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (1), 1996, p. 117-146
- Heisterüber, J.: *Restauration de toiles déchirées*. unpubl. diploma project, École Nationale Supérieure des Arts Visuelles de la Cambre. Brussels 1985
- Henriques, F. et al: Tear feature extraction with spatial analysis: a thangka case study. In: *Estudos de conservação e restauro* (1), 2009, p. 11-23
- Heyn, C. et al: *Untersuchungen zum mikrobiellen Abbau in der Denkmalpflege eingesetzter synthetischer Polymere*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (1), 1996, p. 87-105
- Hoechst AG (ed.). Mowilith. Frankfurt/M., 1970
- Howells, R. et al: Polymer dispersions artificial aged. In: IIC Preprints of the Contributions to the Paris Congress. Adhesives and Consolidants. Paris 1984, p. 36-43
- Jägers, Dr. E.: *Synthetische Materialien für die Malschichtfestigung*. In: *Mitteilungen des DRV*, 1984/85, p. 26-28
- Kalsner, P.: *Restauration des Gemäldes "Apulus in einen Ölbaum verwandelt" von A. C. Lens aus dem Besitz des Kunsthistorischen Museums Wien, unter besonderer Berücksichtigung der Behandlung am Niederdrucktisch und der Rissbehandlung am textilen Bildträger*. Unpubl. diploma project at *Meisterschule für Restaurierung, Hochschule für Angewandte Kunst*. Vienna 1986
- Karsten, I. F.; Kerr, N.: The properties and light stability of silk adhered to sheer silk and polyester support fabrics with polyvinylacetate copolymer adhesives. In: *Studies in Conservation* (47), 2002, p. 195-210
- Kaufmann, M.: *Studien zur Problematik der speziellen Klimasituation am Leinwandbild*. In: *Zeitschrift für Kunsttechnologie und Konservierung* (1), 1991, p. 59-73
- Kless, E.: *Wandbespannungen und Gemälde in situ*. In: *Restauro* (7), 2000, p. 538-542
- Kruse, P.: *Rissverschweißung*. Semester project in Chemistry, FH Cologne, *Fachbereich Restaurierung und Konservierung von Kunst- und Kulturgut*, WS 1991/92
- Kudrjawzew, E.: *Die Technik des Gemälderestaurierens*. Leipzig 1954
- Kühn, H.: *Erhaltung und Pflege von Kunstwerken und Antiquitäten*. München 2001
- Kuiper, L.; Hestermann, W.: *Restauratieverslag van Rembrandts Nachtwach*. In: *Bulletin van het Rijksmuseum*, 24/1-2, 1976, p. 14-15
- Kunsthharze Hoechst. Analytische Bestimmungsmethoden*. Frankfurt 1982
- Lipinski, W.-H.: *Untersuchungen zum feuchtphysikalischen Verhalten von Gemälden auf textilem Bildträger unter biaxialer Dehnung*. Diploma project at *Institut für Museumskunde an der Staatlichen Akademie der Bildenden Künste Stuttgart*, 2009
- Lucas, A.: Lining and Relining Methods and Rules Evolved at the National Gallery Conservation Department. In: *Conference on Comparative Lining Techniques*. National Maritime Museum 1974, not pag.
- Malesa, M. et al: Application of digital image correlation (DIC) for tracking deformations of paintings on canvas. In: O3A: optics for arts, architecture, and archaeology III: 25-26 May 2011, Munich. Proceedings of SPIE (International Society for Optical Engineering), 8084. Pezzati, L., Salimbeni, R. (eds.). Bellingham WA 2011, DOI: [10.1117/12.889452](https://doi.org/10.1117/12.889452)
- Martín Martínez, J. M.; Martín Rey, S.: *Adhesivos de contacto vs. adhesivos termoplásticos: aspectos cualitativos para su empleo en tratamientos restaurativos del soporte textil*. In: 17th International Meeting on Heritage Conservation: 20-22 November, Castellón, Vila-Real, Burriana 2008: preprints of the papers to the congress. Roig Picazo, P. (et al eds.). *Generalitat Valenciana. Conselleria de Cultura i Esport. Fundació de la Comunitat Valenciana La Llum de les Imatges*. Valencia 2008, p. 575-579
- Massa, V. et al: *Ein neuer Polyurethanklebstoff für die Textilrestauration*. In: *Restauro*, 3 (1991), p. 173-178
- Mayer, M.: Ultrasonic Bonding. In: *PapierRestauration* (4), 2002, p. 19-22
- Nägele: *Dispersionsbaustoffe*. Cologne 1989
- Osmond, G.: A comparison of different adhesives and techniques for mending tears in paintings on canvas supports. Canberra College of Advanced Education 1987
- Pérez García, C. et al: *Preservación de la indumentaria de la Virgen de la Asunción: protagonista del Misterio de Elche* (Preservation of the costume of the Virgin of the Assumption: protagonist in the Mystery Play of Elche). In: *Restauración & rehabilitación* (62), 2002, p. 60-66
- Piotrowska, K., Amann, S.: Minimal-adhesive mend and cast in-painting: a treatment of a tear on an Ed Ruscha painting. In: *Postprints American Institute for Conservation of Historic and Artistic Works. Paintings Specialty Group* (22), 2009, p. 48-56
- Pollak, N. R.: *Stabilitex 'False Eyelash' Repairs*. In: *Postprints* (16) American Institute for Conservation of Historic and Artistic Works. Washington DC 2005, p. 104
- Reinisch, S.: *Über die Restaurierung und Konservierung der Gemälde OM 194 und OM 195 mit der zusätzlichen Problemstellung einer ausschließlichen konservatorischen Behandlung und einer restaurierungsethischen gemäßen Verfahrungsweise bei der Rissklebung und Gewebeergänzung*. Diploma project at *Akademie der Bildenden Künste*, Vienna 1986
- Reuber, L.: *Klebstoffe für die Rissverklebung an Leinengeweben*. Diploma project at *CICS (Institut für Restaurierungs- und Konservierungswissenschaft)* Cologne, *Kölner Beiträge zur Restaurierung und Konservierung von Kunst- und Kultur-*

- gut. Digital ed. Cologne 2004
- Rief, M.: *Schriftliche und photographische Dokumentation der durchgeführten restauratorischen und konservatorischen Maßnahmen am Leinwandgemälde „Ganzfiguriges Portrait Erzherzog Ferdinands, des späteren Kaisers Ferdinand III., als sechsjähriger Knabe“ aus dem Besitz des Kunsthistorischen Museums, Wien (Inv. Nr 8776). Theoretische Themen: „Historische Rückseitenanstriche an Leinwandgemälden“, „Rissklebung und Gewebeerzänzung“.* Unpubl. Diploma project at *Meisterschule für Restaurierung und Konservierung*. Vienna 1989
- Rink, G.; Schwahn, M.: *Einführung in die Kunststoffchemie*. Frankfurt/M. 1983
- Römpp *Chemie Lexikon*. O.-A. Neumüller (ed.). Stuttgart 1995
- Russell, W. H.; Berger, G. A.: The behavior of canvas as a structural support for painting: preliminary report. In: IIC Washington, 1982, p. 139-145
- Sandner, I.: *Konservierung von Gemälden und Holzskulpturen*. Munich 1990
- Sannikova, E.: *Polyvinylbutyral - Zusammensetzung, Eigenschaften und Geschichte der Anwendung in der Konservierung und Restaurierung (103-121)*. In: *Restauratorenblätter - papers in conservation (35)*, 2018
- Santoro, E. D.; Koestler, R. J.: A methodology for biodeterioration testing of polymers and resins. In: Koestler, R. J. (ed.): *Biodeterioration of Cultural Property*. London/New York 1991, p. 81-90
- Sauerberg Phenix, M. L.: Bibliography on methods of mending tears in canvas paintings. Report. Netherlands Institute for Cultural Heritage (ICN). Amsterdam 1998
- Schaible, V.: *Neue Überlegungen zur Feuchtigkeit am Leinwandbild*. In: *Zeitschrift für Kunsttechnologie und Konservierung*, 1/1 (1987), p. 75-94
- Schilling, M. R.: The glass transition of materials used in conservation. In: *Studies in Conservation*, 34 (1989), p. 110-116
- Schwabe, B. & Seidel, S.: *Drei Supraporten von Domenico Tiepolo*. In: *Restaura* 5/1996, p. 320-327
- Sipos, E., Kovács, P. M.: Figures from a Neapolitan nativity crèche. In: *Conserving textiles: studies in honour of Ágnes Timár-Balázs*. ICCROM conservation studies (7). Perjés, J. B. (et al eds.) Rome 2009, p. 157-164
- Smith, T.: The unique story of the *Kupferstichkabinett*-Berlin. In: *The Book & Paper Group annual (26)*, 2007, p. 99-103
- Stoner, J. H.; Rushfield, R. (eds.): *The conservation of easel paintings*. New York 2012
- Suhiko, N.: *En metod att reparera tavlor med plast*. In: *Meddelser om Konservering*, 1/6 (1968), p. 23-31
- Survov, I. P.; Yashkina, L. I.: *Metodika restavracii propyvov, utrat holsta i kromok v proizvodjenijah stankovoj masl-janoij jivopisi metodom vstyk*. In: *Khudozhestvennoe nasledstvo*, 5 (1979), p. 117-121
- Technical Report: Towards a Better Emulsion Adhesive for Conservation, Canadian Conservation Institute. Ottawa, 2000
- Theuerkauff, P.; Groß, A.: *Praxis des Klebens*. Berlin 1989
- Tomassi, N.: When East meets West: the conservation of Portrait of a Chinese Official in the collection of the Royal Ontario Museum. In: *The picture restorer (42)*, 2013, p. 36-41
- Troltsch, S.: *Methoden und Materialien zur Rissverschweißung. Semesterarbeit Gemälde, FH Köln, Fachbereich Restaurierung und Konservierung von Kunst- und Kulturgut, WS 1988/89*
- Unger, W./A.: *Die biologische Korrosion von Konsolidierungsmitteln für Kunst- und Kulturgut aus Holz*. In: *Zeitschrift für Kunsttechnologie und Konservierung*, 1995 (2), p. 377-384
- Weddingen, E.: *Zur Fragwürdigkeit des Doublierens*. In: *Mitteilungen des DRV*, 1979, p. 30-34
- Witte, E. de et al: *L'influence de la modification des dispersions sur les proprietes des films*. In: IIC Paris, *Adhesives and Consolidants*, 1984, p. 29-32
- Witte, E. de: *Viellissement naturel et artificiel des produits synthetiques comparé à celui des produits naturels*. SKR (ed.): *Kunststoffe in der Konservierung und Restaurierung von Kulturgütern*, vol. 1. Bern 1985, p. 87-97
- Young, C.: The application of 3D electronic speckle pattern interferometry (ESPI) for the structural analysis of paintings on canvas. In: *Lasers in the conservation of artworks IX: [proceedings of the international conference LACONA IX, London, 7-10 September 2011]*. LACONA, 9. Saunders, D. (et al eds.). London 2013, p. 108-115
- Young, C. R. T.; Hibberd, R. D.: The Role of Canvas Attachments in the Strain Distribution and Degradation of Easel Paintings. In: *Tradition and Innovation. IIC Melbourne Congress, 10-14 October 2000*, p. 212-220
- Young, C.: Biaxial properties of sized cotton-duck. In: *Preprints of the ICOM-CC 11th triennial meeting, Edinburgh/London 1996*, p. 322-331

Suppliers

Kleelux, Mönchengladbach
 Kremer Pigmente, Aichstetten
 Deffner & Johann, Röhlein

Sie bewahren
Kultur.
Wir bewahren
Ihre Gesundheit.

Absaug- und Filtertechnologie
für Stäube und Dämpfe.
Zuverlässig, handlich
und leise.
www.ult.de

ULT
UMWELT-LUFTTECHNIK

Contributors of the issue:

Dr. Utz Anhalt MA

Born 1971 in Hanover, historian and political scientist. 2000 MA thesis on the werewolf myth. Journalist and lecturer for TV and press, in museums and universities. Research in Venezuela, Eastern Africa, India, Iran, and on American Indians in USA / Mexico. 2007 PhD thesis on: "Animals and humans as exotics – The exotising of the "other" in the founding- and developing period of the Zoos".

okulla@gmx.de

Caecilia Barani BA

Press & Public Relations MAK
Stubenring 5, 1010 Vienna, Austria
T +43 1 711 36-229

caecilia.barani@mak.at

Ass. Prof. Dr. rer. medic. Dipl.-Rest. (FH)

Paul-Bernhard Eipper

*Leiter Restaurierung Universalmuseum Joanneum
Museumsservice*

Weinzöttlstraße 16, 8045 Graz, Austria
T. +43-699/1330-8811, mobile +43-664/8017-9561

www.museum-joanneum.at

paul-bernhard.eipper@museum-joanneum.at

Claudia Glashauser

Leiterin Museen Augustusburg/Scharfenstein/Lichtenwalde Schlossbetriebe gGmbH

Schloss Augustusburg, 09573 Augustusburg, Germany

T. +49 (0) 37291 38020, mobil +49 (0) 160 5987838

claudia.glashauser@die-sehenswerten-drei.de

www.die-sehenswerten-drei.de

Nina Helten

Head of Communications, David Chipperfield Architects
Berlin

T. +49 162 203 25 45

nina.helten@davidchipperfield.de

Terra Huber

Assistant Conservator

NEDCC | Northeast Document Conservation Center
100 Brickstone Square, Andover, MA 01810

Andover Office: 978.470.1010

www.nedcc.org

Franziska Martin

Head of Communications, City of Zurich's Building
Surveyor's Office

T. +41 (0)44 412 29 74

franziska.martin@zuerich.ch

Christian Mueller-Straten

Art historian and publisher, see imprint

Peter Nömaier

Sigmund Freud Museum

Beggasse 19, 1090 Vienna, Austria

T. +43 (0) 1 319 15 96

p.noemaier@freud-museum.at

Alexandra Orth MA

Research associate

Stadtmuseum Simeonstift Trier

Simeonstiftplatz 1, 54290 Trier, Germany

T. +49-(0)651 718-1456

Bjoern Quellenberg

Head of Communications and Marketing, Kunsthau
Zurich, Switzerland

T. +41 (0)44 253 84 11

bjoern.quellenberg@kunsthau.ch

Caroline Shapiro

Director of International Public Relations
and Strategic Communications

Tower of David Museum

Jaffa Gate, POB 14005, Jerusalem, Israel

www.tod.org.il

We are thanking all museum teams
engaged in this issue.

Imprint and contacts

Verlag Dr. C. Mueller-Straten

Kunzweg 21 D.81243 Munich, Germany

T. 0049-(0)89 839 690-43, Fax -44

<https://www.museumaktuell.de/>

Editor in chief: Dr. Adelheid Straten

CEO: Dr. Christian Mueller-Straten

**Ads: If you want your name, activities and solutions
spread globally to at least 200,000 to 300,000
recipients worldwide, click [here](#).**

**For global players wishing to reach museum
specialists worldwide, the contacts are**

Kultur-Promotion Mark Häcker

Südstrasse 26, 47877 Willich, Germany

kultur.promotion@gmail.com

Mobile: 0049-(0)1590 169 650 5

For placing your articles, offer us your contribs via
verlagcms@t-online.de or call us

0049-89-839 690 43