



2021 GCI Staff Publications, Presentations, Workshops, Blogs, and Videos

Publications

Agnew, Neville. 2021. Conserving the Mogao grottoes: The thirty-year collaboration of the Dunhuang Academy and the Getty Conservation Institute. In *Visualizing Dunhuang: The Lo Archive Photographs of the Mogao and Yulin Caves*. Vol IX, *Essays*, edited by Dora C. Y. Ching, 213-33. Princeton: P.Y. and Kinmay W. Tang Center for East Asian Art, Department of Art and Archaeology, Princeton University.

———. 2021. Conserving the Mogao grottoes: The thirty-year collaboration of the Dunhuang Academy and the Getty Conservation Institute. In *Visualizing Dunhuang: Seeing, Studying, and Conserving the Caves*, edited by Dora C. Y. Ching, 213-33. Princeton: P.Y. and Kinmay W. Tang Center for East Asian Art, Department of Art and Archaeology, Princeton University.

Alberti, Livia, Ermanno Carbonara, and **Thomas Roby.** 2021. *MOSAIKON Technician Training for the Conservation of Mosaics*. Arabic ed. Los Angeles: Getty Conservation Institute.
https://www.getty.edu/conservation/publications_resources/teaching/pdf/mosaics_conservation/mosaics_conservation_arabic_aug2021.pdf.

Alonso, Idurre, Pia Gottschaller, C. C. Marsh, Andrew Perchuk, and **Lynn Lee.** 2021. Energy, legibility, purity: Color in Argentine concrete art. In *Purity is a Myth: The Materiality of Concrete Art from Argentina, Brazil, and Uruguay*, edited by Zanna Gilbert, Pia Gottschaller, Tom Learner and Andrew Perchuk, 125-46. Issues & Debates. Los Angeles: Getty Research Institute.

Arato Gonçalves, A. P. 2021. Conservation principles for concrete: Multidisciplinary context. In *Inheritable Resilience: Sharing Values of Global Modernities: The 16th International Docomomo Conference Tokyo Japan 2020+1 Proceedings, 29 August-2 September 2021*, edited by Ana Tostões and Yoshiyuki Yamana. Vol. 2, 430-34. Lisbon: Docomomo International; Tokyo: Docomomo Japan.

Bastante, José M., Laurence Loh, Jonathan Truillet, **Susan Macdonald**, and **Jeffrey Levin.** 2021. Historic places, sacred spaces: A conversation about built heritage conservation in the time of the pandemic. *Conservation Perspectives: The GCI Newsletter* 36 (1, Spring): 24-29.
https://www.getty.edu/conservation/publications_resources/newsletters/pdf/v36n1.pdf#page=24.

Beltran, Vincent Laudato, Christel Pesme, Sarah K. Freeman, and Mark Benson. 2021. *Microfading Tester: Light Sensitivity Assessment and Role in Lighting Policy*. Guidelines. Los Angeles: Getty Conservation Institute.
http://hdl.handle.net/10020/gci_pubs_microfading_tester.

Benson, Sarah, and **Anna Laganà.** 2021. Conserving a symbol: Preservation of the facemasks from the Covid-19 Pandemic [Abstract]. In *Clothing the Pandemic*

Workshop: Part II, Fall Session Conservation/Preservation, September 22, 2021. S.I.: ICOM Costume; ICOM-CC; ICOM ICME; ICOM Canada.
<https://costume.mini.icom.museum/wp-content/uploads/sites/10/2021/07/CLOTHING-THE-PANDEMIC-PART-II-PROGRAMME-LONG-2.pdf>.

Bridarolli, Alexandra, Marianne Odlyha, Genoveva Burca, John C. Duncan, Freddie A. Akeroyd, Andie Church, and Laurent Bozec. 2021. Controlled environment neutron radiography of moisture sorption/desorption in nanocellulose-treated cotton painting canvases. *ACS Applied Polymer Materials* 3 (2): 777-88.
<https://doi.org/10.1021/acsapm.0c01073>.

Cattò, Cristina, Patricia Sanmartín, **Daide Gulotta**, Federica Troiano, and Francesca Cappitelli. 2021. Bioremoval of graffiti using novel commercial strains of bacteria. *Science of the Total Environment* 756: 144075.
<https://doi.org/10.1016/j.scitotenv.2020.144075>.

Chang, Julie, **Michael R. Schilling**, and Ian Freestone. 2021. Coromandel lacquer diversities in the Qing dynasty. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums.
<https://www.icom-cc-publications-online.org/4348/Coromandel-lacquer-diversities-in-the-Qing-dynasty>.

Chasen, Jessica, Arlen Heginbotham, and **Michael Schilling**. 2021. The analysis of East Asian and European lacquer surfaces on Rococo furniture. In *French Rococo Ébénisterie in the J. Paul Getty Museum*, by Gillian Wilson and Arlen Heginbotham, edited and with an introduction by Anne-Lise Desmas, 9-16. Los Angeles: J. Paul Getty Museum. <https://www.getty.edu/publications/rococo/lacquer/>.

Chiwara, Davison, Anthea M. Hartig, **Cecilia Winter**, **Tom Learner**, and **Jeffrey Levin**. 2021. Navigating safety and access: A conversation about museums in the time of the pandemic. *Conservation Perspectives: The GCI Newsletter* 36 (1, Spring): 18-23.
https://www.getty.edu/conservation/publications_resources/newsletters/pdf/v36n1.pdf#page=18.

Cosaert, Annelies, and **Vincent Laudato Beltran**. 2021. Comparison of temperature and relative humidity analysis tools to address practitioner needs and improve decision-making. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4433/Comparison-of-temperature-and-relative-humidity-analysis-tools-to-address-practitioner-needs-and-improve-decision-making>.

Cummins, Sheila, ed. 2021. New publications. *AIC News* 46 (1): 32.

———. 2021. New publications. *AIC News* 46 (2): 37.

———. 2021. New publications. *AIC News* 46 (3): 25.

———. 2021. New publications. *AIC News* 46 (5): 18.

Decq, Louise, Piet Stoffelen, Vincent Cattersel, **Joy Mazurek**, Wim Fremout, Jonas Veenhoven, Frederic Lynen, Steven Saverwyns, and Peter Vandenabeele. 2021. Quality control of natural resins used in historical European lacquer reconstructions



- with some reflections on the composition of sandarac resin (*Tetraclinis articulata* (Vahl) Mast.). *Journal of Analytical and Applied Pyrolysis* 158: 105159. <https://doi.org/10.1016/j.jaap.2021.105159>.
- Demas, Martha**, and **Neville Agnew**. 2021. Conservation of archaeological sites. In *Grove Art Online*, edited by Nicola Courtright: Oxford University Press. Article published March 16, 2021. <https://doi.org/10.1093/oao/9781884446054.013.90000139445>.
- Flaman, Bernard, and **Chandler McCoy**. 2021. Introduction: Managing energy use in modern buildings: Striking a careful balance. In *Managing Energy Use in Modern Buildings: Case Studies in Conservation Practice*, edited by Bernard Flaman, Chandler McCoy and Gail Ostergren, 11-23. Conserving Modern Heritage. Los Angeles: Getty Conservation Institute.
- Flaman, Bernard, **Chandler McCoy**, and **Gail Ostergren**, eds. 2021. *Managing Energy Use in Modern Buildings: Case Studies in Conservation Practice*. Conserving Modern Heritage. Los Angeles: Getty Conservation Institute.
- Freeman, Ashley Amanda, Lavinia de Ferri, **Joy Mazurek**, Fabrizio Andriulo, and Chiara Bertolin. 2021. A multi-analytical approach for the characterization of seventeenth century decorative wall paintings in two Norwegian stave churches: A case study at Eidsborg and Heddal, Norway. *Applied Sciences* 11 (8): 3477. <https://doi.org/10.3390/app11083477>.
- Freeman, Ashley Amanda, **Naoki Fujisawa**, **Alexandra Bridarolli**, Chiara Bertolin, and **Michał Łukomski**. 2021. Microscale physical and mechanical analyses of distemper paint: A case study of Eidsborg Stave Church, Norway. *Studies in Conservation*. Published ahead of print, May 21, 2021. <https://doi.org/10.1080/00393630.2021.1925487>.
- Freeman, Ashley Amanda, Judith Lee, Cecil Krarup Andersen, **Naoki Fujisawa**, **Michał Łukomski**, and Bronwyn Ormsby. 2021. A pilot study of solvent-based cleaning of yellow ochre oil paint: Effect on mechanical properties. *Heritage Science* 9: 28. <https://doi.org/10.1186/s40494-021-00501-8>.
- Friedman, Leslie**. 2021. MOSAIKON update. *ICOM-CC Archaeological Materials & Sites Newsletter* (4 March): 5. <https://www.icom-cc.org/en/downloads/archaeological-materials--sites-newsletter-no-4-march-2021>.
- Ganio, Monica**, **Douglas MacLennan**, Marie Svoboda, Claire Lyons, and **Karen Trentelman**. 2021. Portrait of an Etruscan Athletic Official: A multi-analytical study of a painted terracotta wall panel. *Heritage* 4 (4): 4596-608. <https://doi.org/10.3390/heritage4040253>.
- Getty Conservation Institute**, and El Pueblo de Los Angeles Historical Monument. 2021. *América Tropical Mural Site: Monitoring Plans and Tools*. Los Angeles: Getty Conservation Institute; El Pueblo de Los Angeles Historical Monument. http://hdl.handle.net/10020/gci_pubs/america_tropical_mural_site.
- Gilbert, Zanna, Pia Gottschaller, **Tom Learner**, and Andrew Perchuk. 2021. Introduction: The myth of purity: New material histories of concrete art in Argentina, Brazil, and Uruguay. In *Purity is a Myth: The Materiality of Concrete Art from Argentina, Brazil, and Uruguay*, edited by Zanna Gilbert, Pia Gottschaller, Tom Learner and Andrew Perchuk, 1-9. Issues & Debates. Los Angeles: Getty Research Institute.



———, eds. 2021. *Purity is a Myth: The Materiality of Concrete Art from Argentina, Brazil, and Uruguay*. Los Angeles: Getty Research Institute.

Gómez-Sánchez, Elena, Elena Agnini, **Alexandra Bridarolli**, Raphaëlle Rolland, Simon Kunz, Stefan Röhrs, Carole Harrivelle, Emmanuelle Casanova, Stefan Simon, and Estefanía Calparsoro-Forcada. 2021. Evaluation of the solubility and colour changes of artificially and naturally aged adhesives for the conservation of ceramics and glass. *Studies in Conservation*. Published ahead of print, November 6, 2021. <https://doi.org/10.1080/00393630.2021.1995262>.

Gottschaller, Pia, **Tom Learner**, and **Joy Mazurek**. 2021. Hermelindo Fiaminghi's quadrature of the circle between 1954 and 1959: From concrete enamel to Giotto's tempera. In *Purity is a Myth: The Materiality of Concrete Art from Argentina, Brazil, and Uruguay*, edited by Zanna Gilbert, Pia Gottschaller, Tom Learner and Andrew Perchuk, 105-23. Issues & Debates. Los Angeles: Getty Research Institute.

Gover, Kevin, Heidi Swierenga, Rangji Te Kanawa, Ellen Pearlstein, and **Jeffrey Levin**. 2021. Connectivity and culture: A conversation about collaboration in the conservation of indigenous materials. *Conservation Perspectives: The GCI Newsletter* 36 (2, Fall): 19-24. http://www.getty.edu/conservation/publications_resources/newsletters/pdf/v36n2.pdf#page=19.

Gulotta, Davide, Sebastiaan Godts, Tim De Kock, and Michael Steiger. 2021. Comparative estimation of the pore filling of single salts in natural stone. In *Proceedings of SWBSS 2021: Fifth International Conference on Salt Weathering of Buildings and Stone Sculptures. Delft University of Technology Delft, the Netherlands, 22-24 September 2021*, edited by Barbara Lubelli, Ameya Kamat and Wido Quist, 79-87. Delft: TU Delft Open. https://pure.tudelft.nl/ws/portalfiles/portal/98410778/791_Book_Manuscript_887_1_10_20210915.pdf#page=82.

Han, Jing, **Herant Khanjian**, **Michael R. Schilling**, and Marianne Webb. 2021. Study of water-soluble light-aging products on Asian lacquer surfaces. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4276/Study-of-water-soluble-light-aging-products-on-Asian-lacquer-surfaces>.

Hart, Mary Louise, **Monica Ganio**, Susan Lansing Maish, **Douglas MacLennan**, and **Karen Trentelman**. 2021. *Vittae Auratae*: Interpreting the history and technology of a group of Roman gold textile fragments. *Getty Research Journal* 14: 1-20. <https://doi.org/10.1086/716571>.

Hennen Rodriguez, Sofia, Aline Assumpção, Pedro de Campos, Bianca Gonçalves, Erick Santos, E. A. M. Kajiya, Fábio Luchiari, Márcia de Almeida Rizzutto, Florence White de Vera, and **Cecilia Winter**. 2021. Projeto interdisciplinar de estudo e conservação da série “Retirantes” de Candido Portinari no Museu de Arte de São Paulo [An interdisciplinary project of study and conservation of Candido Portinari's “Retirantes” ensemble at Sao Paulo Museum of Art]. *Ge-Conservacion* 19 (1): 292-308. <https://doi.org/10.37558/gec.v19i1.998>.



- Hennen, Sofia, Przemyslaw A. Kosierwicz, **Cecilia Winter**, Erick Santos, Erika Uehara, and Karen Barbosa. 2021. Solutions de conservation appliquées aux processus de montage des oeuvres dans le système expositif du Musée d'art de Sao Paulo. *APROA/BRK Bulletin* (1): 6-15.
- Khanjian, Herant**. 2021. Staff Profile: Herant Khanjian, a scientist at the Getty Conservation Institute, combines two childhood passions in his work to preserve art and cultural heritage around the world. *The Getty* (Winter): 16-17. https://www.getty.edu/about/whatwedo/getty_magazine/gettymag_winter2021.pdf#page=9.
- Kogou, Sotiria, **Lynn Lee**, Golnaz Shahtahmassebi, and Haida Liang. 2021. A new approach to the interpretation of XRF spectral imaging data using neural networks. *X-Ray Spectrometry* 50 (4): 310-19. <https://doi.org/10.1002/xrs.3188>.
- Körber, Ulrike, Cristina Maria Barrocas Dias, and **Michael R. Schilling**. 2021. Chinese lacquer decorations for Catholic European consumers in the 16th and 17th centuries: Stylistic and technical evolutions. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4368/Chinese-lacquer-decorations-for-Catholic-European-consumers-in-the-16th-and-17th-centuries--Stylistic-and-technical-evolutions>.
- Kramer, Lia, Alexandra Nichols, **Mollie Anderson**, Nora W. Kennedy, Lorena Ramírez-López, and Glenn Wharton. 2021. Conducting a time-based media conservation assessment and survey at the Metropolitan Museum of Art. *Journal of the American Institute for Conservation* 60 (2-3): 236-54. <https://doi.org/10.1080/01971360.2020.1855866>.
- La Nasa, Jacopo, **Joy Mazurek**, Ilaria Degano, and Corina E. Rogge. 2021. The identification of fish oils in 20th century paints and paintings. *Journal of Cultural Heritage* 50: 49-60. <https://doi.org/10.1016/j.culher.2021.06.003>.
- Laganà, Anna**, Melissa David, **Michael Doutre**, Suzan de Groot, Henk van Keulen, **Odile Madden**, **Michael Schilling**, and Maarten van Bommel. 2021. Reproducing reality: Recreating bonding defects observed in transparent poly(methyl methacrylate) museum objects and assessing defect formation. *Journal of Cultural Heritage* 48: 254-68. <https://doi.org/10.1016/j.culher.2020.11.002>.
- Laganà, Anna**, **Michael Doutre**, Melissa David, Suzan De Groot, Henk van Keulen, **Odile Madden**, **Michael Schilling**, and Maarten van Bommel. 2021. Pitfalls of transparency: Investigating bonding defects and failures in transparent poly(methyl methacrylate) objects. In *Future Talks 019: Surfaces: Lectures and Workshops on Technology and Conservation of the Modern*, edited by Tim Bechthold, 132-43. Munich: Die Neue Sammlung - The Design Museum.
- Laganà, Anna**, **Michael Doutre**, Melissa David, **Michał Łukomski**, Ella Hendriks, and Maarten van Bommel. 2021. In search of a perfect bond: An evaluation of potential adhesives to repair transparent poly(methyl methacrylate) objects. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4464/In-search-of-a-perfect-bond--An-evaluation-of-potential-adhesives-to-repair-transparent-polymethyl-methacrylate-objects>.



- Laganà, Anna, Joy Mazurek**, Melissa Huddleston, Vincent Dion, and Rachel Rivenc. 2021. Facing challenges: Investigations into the conservation of cellulose ester objects. *Zeitschrift für Kunsttechnologie und Konservierung* 34 (1): 27-36.
- Learner, Tom**. 2021. The future is bright: Building on 30 years of conservation at Leeum. In *Leeum Conservation Stories*, 8-10. Seoul: Leeum Museum of Art.
- Li, Xuan, Jagadeeshkumar Kulandaivelu, Liza O'Moore, **Simeon Wilkie**, Lucija Hanzic, Philip L. Bond, Zhiguo Yuan, and Guangming Jiang. 2021. Synergistic effect on concrete corrosion control in sewer environment achieved by applying surface washing on calcium nitrite admixed concrete. *Construction and Building Materials* 302: 124184. <https://doi.org/10.1016/j.conbuildmat.2021.124184>.
- Macdonald, Susan**, and **Ana Paula Arato Gonçalves**. 2021. *Principes pour la conservation du béton présentant une valeur culturelle*. Principes. Los Angeles: Getty Conservation Institute. http://hdl.handle.net/10020/gci_pubs/conservation_principles_concrete.
- . 2021. *Principios de conservación del hormigón de relevancia cultural*. Principios. Los Angeles: Getty Conservation Institute. http://hdl.handle.net/10020/gci_pubs/conservation_principles_concrete.
- Madden, Odile**, and **Thomas J. S. Learner**. 2021. Preserving plastics: An evolving material, a maturing profession. In *Architectural Plastics & Polymer Composites in the 21st Century: Conference Proceedings*, edited by Susan E. Schur. Vol. 1. Somerville MA: Technology Organization, Inc.
- Madden, Odile, Margherita Pedroni, Chandler McCoy**, and Janine Koeppen. 2021. Conserving plastics in architecture: Challenges in identification, conservation, and replication. In *Architectural Plastics & Polymer Composites in the 21st Century: Conference Proceedings*, edited by Susan E. Schur. Vol. 1. Somerville MA: Technology Organization, Inc.
- Marsden, Susan, and Peter Spearritt. 2021. *Le cadre thématique historique du vingtième siècle: Un outil pour évaluer les lieux de patrimoine*. Avec des contributions de Leo Schmid, Sheridan Burke, **Gail Ostergren, Jeff Cody**, and **Chandler McCoy**. Los Angeles: Getty Conservation Institute. https://hdl.handle.net/10020/gci_pubs_historic_thematic_framework_tool.
- . 2021. *The Twentieth-Century Historic Thematic Framework: A Tool for Assessing Heritage Places*. With contributions from Leo Schmid, Sheridan Burke, **Gail Ostergren, Jeff Cody**, and **Chandler McCoy**. Los Angeles: Getty Conservation Institute. https://hdl.handle.net/10020/gci_pubs_historic_thematic_framework_tool.
- Nunes, Cristiana, Asel Maria Aguilar Sanchez, Sebastiaan Godts, **Davide Gulotta**, Ioannis Ioannou, Barbara Lubelli, Beatriz Menendez, Noushine Shahidzadeh, Zuzana Slížková, and Magdalini Theodoridou. 2021. Experimental research on salt contamination procedures and methods for assessment of the salt distribution. *Construction and Building Materials* 298: 123862. <https://doi.org/10.1016/j.conbuildmat.2021.123862>.
- O'Shea, Colleen, Mark Fenn, Kathy Z. Gillis, **Herant Khanjian**, and **Michael Schilling**. 2021. Korean lacquerware from the Late Joseon Dynasty: Conservation and analysis of four objects at the Asian Art Museum of San Francisco. *Studies in Conservation*.



Published ahead of print, August 26, 2021.

<https://doi.org/10.1080/00393630.2021.1967551>.

Perugini, Flavia. 2021. Webinar: *Materials and Methods for Public Art Conservation. Strategies for contemporary murals*, April 8-10, 2021: Review. *Newsletter of the ICOM-CC Working Group Modern Materials and Contemporary Art (MMCA)* (12 July): 12. <https://www.icom-cc.org/en/newsletters/newsletter-of-the-icom-cc-working-group-modern-materials-and-contemporary-art-issue-12-july-2021>.

Perugini, F., and R. Newman. 2021. Enameled steel in modern and contemporary art: A collaborative study on the techniques, analysis, and conservation. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4396/Enameled-steel-in-modern-and-contemporary-art-A-collaborative-study-on-techniques-analysis-and-conservation>.

Pompejano, Federica, and **Elena Macchioni.** 2021. Past, present, and the denied future of Tirana National Theatre. In *Current Challenges in Architecture and Urbanism in Albania*, edited by Anna Yunitsyna, Artan Hysa, Edmond Manahasa, Fabio Naselli, Odeta Durmishi Manahasa and Sokol Dervishi, 137-48. Urban Book Series. Cham: Springer. https://doi.org/10.1007/978-3-030-81919-4_10.

Puglieri, Thiago Sevilhano, **Odile Madden,** and Gustavo F. S. Andrade. 2021. SHINERS in cultural heritage: Can SHINERS spectra always be compared with normal Raman spectra? A study of alizarin and its adsorption in the silicon dioxide shell. *Journal of Raman Spectroscopy* 52 (8): 1406-17. <https://doi.org/10.1002/jrs.6172>.

Reina Ortiz, Miquel, **Elena Macchioni, Claudia Cancino, Leslie Rainer,** Clemencia Vernaza, Andrés Ircó Nuñez, Stephen Fai, and Mario Santana Quintero. 2021. Three documentation scenarios for the long-term preservation of decorated surfaces in the Church of Kuñotambo, Peru. In *ICOMOS/ISPRS International Scientific Committee on Heritage Documentation (CIPA): 28th CIPA Symposium "Great Learning & Digital Emotion," 28 August–1 September 2021, Beijing, China*, edited by A. Dang, A. Li, M. Hou, Y. He and H. Yan, 125–32. ISPRS Annals, vol. VIII-M-1-2021. Hannover: International Society for Photogrammetry and Remote Sensing. <https://doi.org/10.5194/isprs-annals-VIII-M-1-2021-125-2021>.

Roby, Thomas. 2021. GCI-MOSAIKON Initiative mosaic conservation training materials now available. *News in Conservation* (82, February-March): 14-17. https://www.iiconservation.org/system/files/publications/journal/2021/b2021_1.pdf#page=14.

———. 2021. Mosaic Conservation Training Materials Online Following the MOSAIKON Initiative. *AIC News* 4 (1): 29-30.

Roby, Thomas, Leslie Friedman, Moheddine Chaouali, Hamida Rhouma-Ghmari, Livia Alberti, and Ermanno Carbonara. 2021. The Conservation Plan for mosaics at Bulla Regia: A component of the MOSAIKON Model Field Project. In *What Comes to Mind When You Hear Mosaic? Conserving Mosaics from Ancient to Modern: The 13th Conference of the International Committee for the Conservation of Mosaics, Barcelona, 15-20 October 2017*, edited by Roberto Nardi and Montserrat Pugès i Dorca, 337-47. Firenze: Edifir edizioni Firenze.



Sanmartín, P., P. Bosch-Roig, **D. Gulotta**, R. Fort, I. Bosch, and F. Cappitelli. 2021. *Klebsiella aerogenes* and *Comamonas testosteroni* as bioremoval agents on graffiti-coated concrete and granite: Impact assessment through surface analysis. *International Biodeterioration & Biodegradation* 161: 105244. <https://doi.org/10.1016/j.ibiod.2021.105244>.

Schmidt Patterson, Catherine, Joanna Dunn, Rita Piccione Albertson, Ulrich Birkmaier, Kathryn A. Dooley, and John K. Delaney. 2021. Paolo Veneziano under the microscope: New technical information regarding the Worcester Triptych. In *Paolo Veneziano: Art & Devotion in 14th-Century Venice*, 74-91. New York: The Frick Collection.

Schmidt Patterson, Catherine, Devi Ormond, and Line Clausen Pedersen. 2021. Practice, process, and prints: Degas' *Dancers Practicing in the Foyer*. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4465/Practice-process-and-prints--Degas-Dancers-Practicing-in-the-Foyer>.

Secco, Michele, **Leslie Rainer**, Kiernan Graves, Arlen Heginbotham, Gilberto Artioli, Francesca Piqué, and Ivana Angelini. 2021. Ochre-based pigments in the Tablinum of the House of the Bicentenary (Herculaneum, Italy) between decorative technology and natural disasters. *Minerals* 11 (1): 67. <https://doi.org/10.3390/min11010067>.

Sirano, Francesco, and **Leslie Rainer**. 2021. Grand Designs: Herculaneum. *Minerva* (187, January/February): 12-22.

Stoveland, Lena Porsmo, Tine Frøysaker, Maartje Stols-Witlox, Terje Grøntoft, Calin Constantin Steindal, **Odile Madden**, and Bronwyn Ormsby. 2021. Evaluation of novel cleaning systems on mock-ups of unvarnished oil paint and chalk-glue ground within the Munch Aula Paintings Project. *Heritage Science* 9: 144. <https://doi.org/10.1186/s40494-021-00599-w>.

Takei, George, and **Tim Whalen**. 2021. Honoring the difficult histories and diverse stories of Little Tokyo. "Relevance and Resilience: Proceedings from PastForward Online 2020," special issue, *Forum Journal* 33 (1): 39-53. <https://forum.savingplaces.org/viewdocument/forum-journal-relevance-and-resili>.

Taylor, Joel, **Michał Łukomski**, and Łukasz Bratasz. 2021. Increasing evidence-based decision-making for loan agreements. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4355/Increasing-evidence-based-decision-making-for-loan-agreements>.

Teutonico, Jeanne Marie, and **Leslie Friedman**. 2021. ICCM 13th Conference, Barcelona 2017: Summary conclusions. In *What Comes to Mind When You Hear Mosaic? Conserving Mosaics from Ancient to Modern: The 13th Conference of the International Committee for the Conservation of Mosaics, Barcelona, 15-20 October 2017*, edited by Roberto Nardi and Montserrat Pugès i Dorca, 525-29. Firenze: Edifir edizioni Firenze.

———. 2021. Mosaikon 2008-2018: Objectives, outcomes, opportunities. In *What Comes to Mind When You Hear Mosaic? Conserving Mosaics from Ancient to Modern: The 13th*



- Conference of the International Committee for the Conservation of Mosaics, Barcelona, 15-20 October 2017*, edited by Roberto Nardi and Montserrat Pugès i Dorca, 325-36. Firenze: Edifir edizioni Firenze.
- Turner, Nancy K., **Catherine M. Schmidt Patterson**, and Bryan C. Keene. 2021. Behind the shield: Documenting interventions in a Bolognese missal with Scanning Macro-X-Ray Fluorescence (MA-XRF) spectroscopy. *Getty Research Journal* 13: 63-86. <https://doi.org/10.1086/713430>.
- Turner, Nancy K., and **Catherine M. Schmidt Patterson**. 2021. Documenting interventions in manuscript illuminations with macro-XRD scanning. In *Care and Conservation of Manuscripts 17: Proceedings of the Seventeenth International Seminar Held at the University of Copenhagen 11th–13th April 2018*, edited by M. J. Driscoll, 279-88. Charlottenlund: Museum Tusulanum Press.
- Waentig, Friederike, Franziska Timmerman, Hannah Schuermann, and **Anna Laganà**. 2021. In conversation with: Conservation training for modern materials during the pandemic: Experiences from the Cologne Institute of Conservation Sciences (CICS). *Newsletter of the ICOM-CC Working Group Modern Materials and Contemporary Art (MMCA)* (12 July): 31-33. <https://www.icom-cc.org/en/newsletters/newsletter-of-the-icom-cc-working-group-modern-materials-and-contemporary-art-issue-12-july-2021>.
- Wilkie, Simeon**, and Thomas Dyer. 2021. Design and durability of early 20th century concrete bridges in Scotland: A review of historic test data. *International Journal of Architectural Heritage*. Published ahead of print, March 2, 2021. <https://doi.org/10.1080/15583058.2020.1870776>.
- Wong, Lori, Sara Lardiniois**, Hany Hussein, Ramadan Mohamed Salem Bedair, and **Neville Agnew**. 2021. Ensuring the sustainability of conservation: Monitoring and maintenance in the tomb of Tutankhamen. In *Transcending Boundaries: Integrated Approaches to Conservation. ICOM-CC 19th Triennial Conference Preprints, Beijing, 17–21 May 2021*, edited by Janet Bridgland. Paris: International Council of Museums. <https://www.icom-cc-publications-online.org/4470/Ensuring-the-sustainability-of-conservation---Monitoring-and-maintenance-in-the-tomb-of-Tutankhamen>.
- Wong, L.**, W. Rose, A. Dhanda, **A. Flavin**, L. Barazzetti, C. Ouimet, and M. Santana Quintero. 2021. Maximizing the value of photogrammetric surveys in the conservation of wall paintings. In *ICOMOS/ISPRS International Scientific Committee on Heritage Documentation (CIPA): 28th CIPA Symposium "Great Learning & Digital Emotion," 28 August–1 September 2021, Beijing, China*, edited by A. Dang, A. Li, M. Hou, Y. He and H. Yan, 851-57. <https://doi.org/10.5194/isprs-archives-XLVI-M-1-2021-851-2021>.
- Xiaowei Wang, Yipu Gong, **David Myers**, and Shunren Wang. 2021. Arches Dunhuang: Heritage Inventory System for conservation of grotto resources on the Gansu section of the Silk Road In China. In *ICOMOS/ISPRS International Scientific Committee on Heritage Documentation (CIPA): 28th CIPA Symposium "Great Learning & Digital Emotion," 28 August–1 September 2021, Beijing, China*, edited by A. Dang, A. Li, M. Hou, Y. He and H. Yan, 837-43. ISPRS Archives, vol. XLVI-M-1-2021. <http://dx.doi.org/10.5194/isprs-archives-XLVI-M-1-2021-837-2021>.
- Zagorski, Anna**. 2021. Art on the rocks: The best way to save rock art, the most ancient form of human expression, is to involve the local community. *The Getty* (Winter): 30-35. https://www.getty.edu/about/whatwedo/getty_magazine/gettymag_winter2021.pdf?page=16.



- . 2021. Building with Plastic: Why architects turned to plastic in the mid-20th century—and why conserving these buildings is surprisingly challenging. *The Getty* (Fall): 36-40.
https://www.getty.edu/about/whatwedo/getty_magazine/gettymag_fall2021.pdf#page=19.
- . 2021. Concrete Dreams: How a Brazilian architect and Getty Conservation Institute researcher turned her love of concrete buildings into a quest to save them. *The Getty* (Summer): 24-29.
https://www.getty.edu/about/whatwedo/getty_magazine/gettymag_summer2021.pdf#page=13.
- . 2021. Strip Malls, Prisons, Freeway Interchanges? Which 20th-century sites should we protect by adding them to our official registers? A new tool urges heritage experts to consider an unusual array of contenders. *The Getty* (Spring): 34-39.
https://www.getty.edu/about/whatwedo/getty_magazine/gettymag_spring2021.pdf#page=18.



Presentations and Workshops

Agnew, Neville, and Martha Demas. 2021. "Collaborating Around the World – International Projects of the Getty Conservation Institute." Presentations to students of the School of Conservation and Restoration of Cultural Heritage, Shanghai Institute of the Visual Arts, Shanghai, April 26, 2021.

———. 2021. "Guidelines for Conservation and Management of Gansu Province Grotto Sites." (**Neville Agnew**, "Part 1. Developing the Grotto Guidelines;" **Martha Demas**. "Part 2, Principal aspects of the Grotto Guidelines.") Video presentations for the Dunhuang Academy Silk Road Conference, September 20, 2021.

Arato Gonçalves, Ana Paula. 2021. "Conservation Principles for Concrete of Cultural Significance." Lecture given for the GCI/NCPTT course "Introduction to Conserving Modern Architecture," held online September 13–October 13, 2021.

———. 2021. "Conserving Concrete in a Public University: A Case Study." Keynote address at the symposium "Brutalism + the Public University: Past, Present and Future," UMass Dartmouth and Amherst, October 22-23, 2021.

———. 2021. "Millowners' Building, Le Corbusier, Ahmedabad, India, 1956." Lecture given for the GCI/NCPTT course "Introduction to Conserving Modern Architecture," held online September 13–October 13, 2021.

Arato Gonçalves, Ana Paula, Chandler McCoy, and Gail Ostergren. 2021. "Conserving Modern Architecture with the Getty Conservation Institute." Presentation and panel discussion held virtually at the 2021 California Preservation Conference, "Reframing Preservation: Leading from the West Coast," June 10, 2021.

Auffret, Stephanie, Leslie Rainer, and Lori Wong. 2021. "Decorated Surfaces." Hosted Getty Conservation Institute "Virtual Lounge" as part of the 2021 AIC/SPNHC Joint Virtual Annual Meeting, May 10-June 24, 2021.

Bargues, Cesar. 2021. Coordinated, lectured and facilitated group discussions and exercises for the Conservation Management Planning workshop for 2020 Keeping It Modern grantees, co-organized by the Getty Foundation and the Getty Conservation Institute, May 19-June 30, 2021.

———. 2021. Summary presentation given for "Arquitectura Moderna en el Ecuador. Taller Internacional de Estrategias de Valoración," Cuenca, Ecuador, organized by Instituto Nacional del Patrimonio Cultural and Universidad del Azuay, June 1-2, 2021.
https://www.facebook.com/arquda/videos/321905642782898/?_tn=F.

———. 2021. "Keeping It Modern and CMAI: Iniciativas Complementarias para la Conservación de la Arquitectura Moderna." Presented virtually at Seminario Internacional de Arquitectura Moderna como Patrimonio Cultural, Santiago de Chile, Chile, organized by Universidad del Desarrollo and Fiat Lux, November 9, 2021.

Beltran, Vincent Laudato. 2021. "Changing Museum Environments and Monitoring Object Change." Presented virtually at the Getty All Staff Meeting, Los Angeles, September 28, 2021.

———. 2021. "Furthering Analysis of Temperature and Relative Humidity Data to Support Decision-Making." Presented virtually at the SyMBoL Workshop "Long term

monitoring tools for historical buildings in time of climate change: From data collection to an adaption plan," 2-3 September 2021.

<https://www.youtube.com/watch?v=wfneUcl0Cwc>.

- . 2021. "Introduction to Automated MFT." Virtual presentation to Getty Staff, November 10, 2021.
- . 2021. "Microfading Tester: Light Sensitivity Assessment and Case Studies." Lecture delivered virtually as part of the "Color and Perception" course at New York University Conservation Center, October 25, 2021.

Beltran, Vincent Laudato, Jeremy Linden, and Annelies Cosaert. 2021. "Developing Conservation-Focused Curriculum to Advance Analysis of Temperature and Relative Humidity Data." Presented virtually at the conference "CollectionCare: New Challenges in Preventive Conservation, Predictive Analysis and Environmental Monitoring," Universitat Politècnica de València, Spain, December 1-3, 2021.

Beltran, Vincent Laudato, Kate Schilling, and Christel Pesme. 2021. "Microfade Testing." Hosted Getty Conservation Institute "Virtual Lounge" as part of the 2021 AIC/SPNHC Joint Virtual Annual Meeting, May 10-June 24, 2021.

Benson, Sarah, and **Anna Laganà**. 2021. "Conserving a Symbol: Preservation of the Facemasks from the Covid-19 Pandemic." Virtual workshop delivered as part of "Clothing the Pandemic Workshop: Part II, Fall Session Conservation/Preservation," September 22, 2021, S.I. <https://youtu.be/UZ2wXyMZFp0?t=1474>.

Burke, Sheridan, and **Susan Macdonald**. 2021. "Engaging with Living Memory. Integrating Primary Source Material into a CMP: Opportunities, Responsibilities and Risks." Lecture presented virtually at the Conservation Management Planning workshop for 2020 Keeping It Modern grantees, co-organized by the Getty Foundation and the Getty Conservation Institute, May 19-June 30, 2021.

Cody, Jeffrey. 2021. Participated in the virtual roundtable "Conservation Movement in East and Southeast Asia: Past and Future," organized by Prof. Ho Puay-peng of the National University of Singapore, Department of Architecture, November 22, 2021.

Cody, Jeffrey, and **Sara Lardinois**. 2021. Coordinated, lectured and facilitated group discussions and exercises for the course "Old Cities, New Challenges: A Course for Urban Conservation in Southeast Asia," presented in collaboration with Think City, held online, September 11 to December 4, 2021.

Cody, Jeffrey, Chandler McCoy, and **Gail Ostergren**. 2021. "Twentieth-Century History Thematic Framework: Modern Heritage of Africa Workshop." Paper submitted to the Symposium on Modern Heritage of Africa - MoHoA, University of Cape Town, September 22-24, 2021.

Demas, Martha. 2021. "Nea Paphos World Heritage Site." Presentation for the MOSAIKON Advanced Training Course on Protective Measures for Archaeological Sites with Mosaics: Reburial and Shelters, November 8, 2021.

- . 2021. "Planning and Decision-Making." Presentation for the MOSAIKON Advanced Training Course on Protective Measures for Archaeological Sites with Mosaics: Reburial and Shelters, March 9, 2021.



———. 2021. "Preserving a Mosaic Legacy in the Mediterranean." Lecture presented virtually to graduate students in the Department of Architecture at the Politecnico di Milano, November 17, 2021.

Enriquez, Annabel Lee, Dennis Wuthrich, and **David Myers**. 2021. "Intro to the Arches Platform: Part 3 - Data Technology Concepts & Q&A." Webinar presented January 21, 2021. <https://youtu.be/vJL-P7v5tlg>.

Friedman, Leslie. 2021. Coordinated and moderated sessions for the MOSAIKON Advanced Training Course on Protective Measures for Archaeological Sites with Mosaics: Reburial and Shelters, held monthly from February-December 2021.

———. 2021. "New Shelters at Nea Paphos." Presentation for the MOSAIKON Advanced Training Course on Protective Measures for Archaeological Sites with Mosaics: Reburial and Shelters, November 9, 2021.

———. 2021. "Protective Shelters at Nea Paphos." Lecture presented virtually to graduate students in the Department of Architecture at the Politecnico di Milano, November 17, 2021.

Gulotta, Davide. 2021. "Heritage Science for Built Heritage Preservation." Lecture given at the Building Preservation Workshop, School of Architecture – Politecnico di Milano, December 3, 2021.

Gulotta, Davide, and Sebastiaan Godts. 2021. "Comparative estimation of the pore filling of single salts in natural stone." Paper presented virtually at the conference "SWBSS 2021," held online and in-person at TU Delft, September 22, 2021.

Iwasaki, Amy. 2021. Contributed to the organization of the ICCROM Foresight Workshop, held online November 23 & 26, 2021.

Laganà, Anna. 2021. "Conservation of Plastics: Research and Case Studies." Invited lecture for the MSc in Conservation (specializing in modern materials), University of Gothenburg, September 29, 2021.

———. 2021. "In Search of a Perfect Bond: An Evaluation of Potential Adhesives to Repair Transparent Poly(Methyl Methacrylate) Objects." Invited lecture for The Netherlands Institute for Conservation+Art+Science+ (NICAS) Colloquium Online+, October 28, 2021.

———. 2021. "In Search of a Perfect Bond: An Evaluation of Potential Adhesives to Repair Transparent Poly(Methyl Methacrylate) Objects." Paper presented virtually at the 19th Triennial Conference of ICOM-CC, "Transcending Boundaries: Integrated Approaches to Conservation," Beijing, China, May 17-21, 2021.

———. 2021. "Plastics." Hosted Getty Conservation Institute "Virtual Lounge" as part of the 2021 AIC/SPNHC Joint Virtual Annual Meeting, May 10-June 24, 2021.

———. 2021. "Plastics in Museum Collections: Materials, Manufacturing Processes, Degradation, and Conservation." Invited lecture for the Master Program in the Conservation of Contemporary Art, Opificio delle Pietre Dure, Florence, June 28-30, 2021.



———. 2021. "Treating PMMA: Filling Scratches and Chips." Led the free, live virtual mini workshop organized by the Getty Conservation Institute, March 2 and March 4, 2021.

Lardinois, Sara. 2021. "Los Angeles African American Historic Places Project." Presented virtually at the Getty All Staff Meeting, Los Angeles, June 15, 2021.

Lee, Lynn, Catarina Pinheiro, Mathilda L. Coutinho, and Rosário Salema de Carvalho. 2021. "ICOM-CC Scientific Research Working Group informal Zoom chat with Project Zulejo and citizen science." Moderated panel event with the researchers of Project Zulejo, November 18, 2021.

Lee, Lynn, José Luis Ruvalcaba Sil, Nora Perez, and Edgar Casanova. 2021. "ICOM-CC Scientific Research Working Group informal Zoom chat with LANCIC." Moderated panel event with the researchers of Laboratorio Nacional de Ciencias para la Investigación y la Conservación del Patrimonio Cultural (LANCIC), July 29, 2021.

Lee, Lynn, Zhao Feng, Anna Bülow, Simon Cane, Terry Little, and M. A. Qinglin. 2021. "Current Challenges in Conservation." Moderated panel event as part of 19th ICOM-CC Virtual Triennial Conference, Beijing 2021, May 19, 2021.

Leslie, Alick, Alison Henry, and Amanda White. 2021. "Mortars for Conservation: Part 2 - Mortar Analysis." Webinar presentation as part of the series "Technical Tuesdays," organized by Historic England's Technical Conservation Team, May 25, 2021. <https://historicengland.org.uk/services-skills/training-skills/online-training/webinars/recordings/webinar-mortars-for-conservation-part-2-mortar-analysis/>.

Loubser, Maggie, Alexander Seyfarth, and **Lynn Lee.** 2021. "Handheld XRF – The Silver Bullet or Fools Gold." Virtual workshop given during the 2021 Denver X-Ray Conference, August 2-6, 2021.

Łukomski, Michał. 2021. "Managing Collection Environments – Sustainable Approaches to Collection Preservation." Presented virtually at the SyMBoL Workshop "Long term monitoring tools for historical buildings in time of climate change: From data collection to an adaption plan," 2-3 September 2021. <https://youtu.be/R45EBr8w94c>.

———. 2021. "Mechanics of Paint Layers in Microscale." Lecture given at Jerzy Haber Institute of Polish Academy of Sciences, Krakow, Poland, July 1, 2021.

———. 2021. "Monitoring Micro-Changes in Wooden Artworks to Support Strategies for Indoor Climate Management." Presented virtually at the online colloquium "VirtEx: Virtual Experiments for Wooden Artwork," Technische Universität Dresden, Germany, November 5, 2021. <https://videocampus.sachsen.de/media/embed?key=841f7fe3596f32a6930be50385fa9cca>.

Łukomski, Michał, Naoki Fujisawa, Alexandra Bridarolli, Łukasz Bratasz, Arkadiusz Janas, Roman Kozłowski, Laura Fuster-López, Cecil Krarup Andersen, and Mikkel Scharff. 2021. "Material Properties of Historic Oil Paints Established by a Combination of Macro-, Micro- and Nano-Techniques." Presented virtually at the conference "CollectionCare: New Challenges in Preventive Conservation, Predictive Analysis and Environmental Monitoring," Universitat Politècnica de València, Spain, December 1-3, 2021.



- Łukowski, Michał, and Cecilia Winter.** 2021. "Collections Environments." Hosted Getty Conservation Institute "Virtual Lounge" as part of the 2021 AIC/SPNHC Joint Virtual Annual Meeting, May 10-June 24, 2021.
- Macdonald, Susan.** 2021. "Applying the Conservation Methodology to Modern Heritage: Values-based Conservation in Action." Lecture given for the GCI/NCPTT course "Introduction to Conserving Modern Architecture," held online September 13–October 13, 2021.
- . 2021. "CMPs and Physical Conservation: Issues of Use, Adaptation, and Fabric." Lecture presented virtually at the Conservation Management Planning workshop for 2020 Keeping It Modern grantees, co-organized by the Getty Foundation and the Getty Conservation Institute, May 19-June 30, 2021.
- . 2021. "Concrete Heritage: Beleaguered, Besieged, Beloved, Conserved." Lecture presented virtually for Columbia GSAPP's Preservation Lecture Series, April 15, 2021. <https://youtu.be/wHsw8olvKXE>.
- . 2021. "The Future of 20th Century Architecture in Indian Cities." Lecture presented virtually for "Heritage Conservation in the Emerging Indian City – I: The Future of 20th Century architecture in Indian Cities – (Un)Learning from Chandigarh, Delhi, Ahmedabad and Mumbai," organized by INHAF Forum as part of their "Rethinking Cities" webinar series, July 10, 2021. <https://youtu.be/YzKqEewbyyM?t=01h22m50s>.
- . 2021. "The Global Heritage of Reinforced Concrete and the Rationale for Conservation." Lecture presented virtually at the workshop, "Assessing Significance at Sardar Vallabhbhai Patel Stadium, India" organized by the World Monuments Fund, June 17-18, 2021.
- . 2021. "Historic Reinforced Concrete: History Material Characteristics and Conservation Challenges." Lecture given for the GCI/NCPTT course "Introduction to Conserving Modern Architecture," held online September 13–October 13, 2021.
- . 2021. "Materiality and Repair. Case Study: Salk Institute for Biological Studies." Lecture presented virtually at the Conservation Management Planning workshop for 2020 Keeping It Modern grantees, co-organized by the Getty Foundation and the Getty Conservation Institute, May 19-June 30, 2021.
- . 2021. "Modern Heritage Research and the 2020 Pivot: Catching Up and Moving Forward." Lecture presented virtually for "Sustainable Heritage Bidecennial Conference: Strategic Research Questions," organized by the UCL Institute for Sustainable Heritage, March 22-25, 2021.
- . 2021. "Securing Good Conservation Outcomes for Modern Heritage: The What, Why, Where, When, and Who of CMPs." Lecture presented virtually at the Conservation Management Planning workshop for 2020 Keeping It Modern grantees, co-organized by the Getty Foundation and the Getty Conservation Institute, May 19-June 30, 2021.
- McCoy, Chandler.** 2021. "Modern Heritage: Why It Matters and What GCI is Doing to Help Conserve It." Keynote address at the symposium "Brutalism + the Public University: Past, Present and Future," UMass Dartmouth and Amherst, October 22-23, 2021.



- . 2021. "Twentieth-Century History Thematic Framework: A Tool to Expand our Understanding of Heritage." Presented virtually at "Preservation Beyond Politics," APT International Annual Conference, October 25, 2021.
- . 2021. "Twentieth-Century History Thematic Framework: Modern Heritage of Africa Workshop." Presented virtually at the Symposium on Modern Heritage of Africa - MoHoA, University of Cape Town, September 22, 2021.
<https://youtu.be/iihkySo54Ms?t=1044>.
- McCoy, Chandler, and Ana Paula Arato Gonçalves.** 2021. "Modern Architecture." Hosted Getty Conservation Institute "Virtual Lounge" as part of the 2021 AIC/SPNHC Joint Virtual Annual Meeting, May 10-June 24, 2021.
- Moody, Ellen.** 2021. "Challenges in Caring for Cultural Heritage with Gas-filled Tubes." Virtual presentation as part of the INCCA Café on Light Art, December 15, 2021.
- . 2021. "Treating PMMA: Filling Scratches and Chips." Organized the free, live virtual mini workshop held March 2 and March 4, 2021.
- Myers, David.** 2021. "The Arches Open Source Software Platform: Heritage Management Use Cases." Presented virtually at the 1st OPHERA Workshop: Digital technologies for knowledge and promotion of cultural heritage during the restoration & reconstruction process, organized by Cyprus University of Technology – Digital Heritage Research LAB (DHRLab), the UNESCO Chair on Digital Culture Heritage, and ERA Chair Mnemosyne, May 19, 2021.
- . 2021. "Heritage Inventories, Surveys, and the Arches Heritage Data Management Platform." Presented virtually for the course "Old Cities, New Challenges: A Course for Urban Conservation in Southeast Asia," organized by the Getty Conservation Institute in collaboration with Think City, September 24, 2021.
- Ostergren, Gail.** 2021. "A Conservation Management Plan for the Eames House." Presented virtually at the 2021 Docomomo US/Symposium "Chicago: Crossroads of Modern America," May 27, 2021.
- . 2021. "The Twentieth-Century Historic Thematic Framework: A Tool for Inclusive Heritage Conservation." Presented virtually at PastForward Online 2021 as part of the panel discussion "Tools for Inclusive Heritage Conservation," November 3, 2021.
- Perugini, Flavia.** 2021. "Enamelled Steel in Modern and Contemporary Art: A Collaborative Study on the Techniques, Analysis, and Conservation." Paper presented virtually at the 19th Triennial Conference of ICOM-CC, "Transcending Boundaries: Integrated Approaches to Conservation," Beijing, China, May 17-21, 2021.
- Richards, Jenny, Heather Viles, **Alick Leslie**, and Qinglin Guo. 2021. "Frost Cycling as a Driver of Deterioration in Earthen Heritage." Presented virtually at the British Society for Geomorphology (BSG) Annual General Meeting and Conference, 13-15 September 2021.
- Roby, Thomas.** 2021. "Reburial Principles, Planning and Design." Lecture given during the webinar portion of "MOSAICON Advanced Training Course on Protective Measures for Archaeological Sites with Mosaics: Reburial and Shelters," June 8, 2021.



Roby, Thomas, Martha Demas, and Leslie Friedman. 2021. "Conservation Planning for the Mosaics of Nea Paphos." Lecture presented virtually to graduate students in the Department of Architecture at the Politecnico di Milano, November 17, 2021.

Schmidt Patterson, Catherine. 2021. "Old Questions, New Approaches: Scanning XRF for Technical Studies Research." Invited lecture presented virtually for the NYU Conservation Center, April 2, 2021.

Schmidt Patterson, Catherine. 2021. "Practice, Process, and Prints: Degas' *Dancers Practicing in the Foyer*." Video presentation for the Art Technological Source Research Working Group of ICOM-CC during the 19th ICOM-CC Virtual Triennial Conference, Beijing 2021, on the theme of Transcending Boundaries: Integrated Approaches to Conservation, September 16, 2021.
https://www.youtube.com/watch?v=znTzn_tuncs.

Schmidt Patterson, Catherine, and Dennis Wuthrich. 2021. "Arches for Science: Linking Data Through Technology." Presented virtually at the 2021 Workshop on Conservation Science Training and Research (CoSTAR), May 17, 2021. In partnership with CSMVS Museum, Mumbai; Harvard Art Museums, Harvard University; the Lakshmi Mittal and Family South Asia Institute, Harvard University.
<https://www.youtube.com/watch?v=CGRR6ITBrSU>.

———. 2021. "An Update on Arches for Science." Presented virtually at the IPERION HS Project Workshop, "Transatlantic Cooperation in Heritage Science," October 6, 2021.
<https://youtu.be/1hYBCSOQ6P4>.

Teutonico, Jeanne Marie. 2021. "Careers in the Conservation of Cultural Heritage." Lecture presented in the session "Career Options for ASOR Members: The Academy and Beyond," ASOR Annual Meeting, Chicago, Illinois, November 19, 2021.

———. 2021. "Conservation and Management of Archaeological Sites: An International Perspective on Evolving Practice." Guest lecture for the graduate course "Conservation and Management of Archaeological Sites and Landscapes," Graduate Program in Historic Preservation, University of Pennsylvania, Philadelphia, November 29, 2021.

———. 2021. "The MOSAIKON Initiative: Building A Community of Practice for the Conservation of Archaeological Mosaics in the Mediterranean Region." Lecture presented at "Convivium: An International Conference in Honour of Professor Emeritus Demetrios Michaelides on the Occasion of his 75th Birthday," Nicosia, Cyprus, October 26, 2021.

Trentelman, Karen, and Lynn Lee. 2021. "Scientific Instrumentation." Hosted Getty Conservation Institute "Virtual Lounge" as part of the 2021 AIC/SPNHC Joint Virtual Annual Meeting, May 10-June 24, 2021.

Waentig, Friederike, and **Anna Laganà.** 2021. Chaired the session "Plastics + More" at the online conference Future Talks 021: Smart Solutions in the Conservation of the Modern, Die Neue Sammlung/The Design Museum, November 8-10, 2021.

Wong, Lori. 2021. "Conservation of Cave 85 at the Mogao Grottoes, Dunhuang." Presented virtually at *Visualizing Dunhuang* Book Launch and Panel Discussion, a webinar organized by the Tang Center for East Asian Art, Department of Art and Archaeology, Princeton University, 26 May 2021.



Wong, L., W. Rose, and N. Khet. 2021. "All That Remains: Envisioning a Collective Future for the Mural Paintings of Bagan." Presented virtually at the 14th International Burma Studies Conference "Political Crisis, Social Resilience and Cultural Vibrance in Myanmar," Center for Burma Studies at Northern Illinois University, September 16, 2021.

Wuthrich, Dennis, and **Annabel Lee Enriquez**. 2021. "Arches: A Data Management and Visualization Platform for Cultural Heritage." Presented virtually at the 2021 Workshop on Conservation Science Training and Research (CoSTAR), May 12, 2021. In partnership with CSMVS Museum, Mumbai; Harvard Art Museums, Harvard University; the Lakshmi Mittal and Family South Asia Institute, Harvard University. <https://www.youtube.com/watch?v=h3f7fyteFzE>.

Wuthrich, Dennis, **Annabel Lee Enriquez**, and **David Myers**. 2021. "Intro to the Arches Platform: Part 4 - Information Architecture & Q&A." Webinar presented April 7, 2021. https://youtu.be/thKJiH3L_ng.



Blogs and Videos

Bernstein, Ken, **Tim Whalen**, and James Cuno. 2021. "PODCAST: Preserving LA's History: Why are Cultural Monuments Important, and How Do You Catalog Them in a City as Big as Los Angeles?" *The Iris* (blog). January 6, 2021.

<http://blogs.getty.edu/iris/podcast-preserving-las-history/>.

Getty Conservation Institute. 2021. "La réinstallation in situ sur des couches de mortier de chaux d'une mosaïque préalablement déposée [Reinstallation In Situ on Lime Mortars of a Mosaic Previously Re-Laid on Concrete]." March 2, 2021. YouTube video, 10:24.

<https://youtu.be/lsRe7PWrubc>.

———. 2021. "Who We Are." April 8, 2021. YouTube video, 2:43.

<https://youtu.be/i9uqwOwbwSU>.

———. 2021. "إعادة التركيب في الموقع الأصلي على ملاط جيرى لفسيفساء أُعيد وضعها سابقًا على ألواح خرسانية مسلحة" [Reinstallation In Situ on Lime Mortars of a Mosaic Previously Re-Laid on Concrete]." August 11, 2021. YouTube video, 10:25. <https://youtu.be/j7y5qVFdjMI>.

Getty Conservation Institute, Jeanne Marie Teutonico, Claudia Cancino, Frank Matero, and Lauren Meyer. 2021. "Terra 2022 Virtual Event Series: A Live Roundtable Conversation with the Terra 2022 Partners." July 6, 2021. YouTube video, 1:28:02.

<https://youtu.be/QCpIRScgGTM>.

Levin, Jeffrey, and Susan Macdonald. 2021. "Historic Places, Sacred Spaces and the Pandemic: From Machupicchu to Notre Dame Cathedral, COVID-19 Continues to Impact Cultural Heritage around the World." *Getty News & Stories* (blog). June 30, 2021. <https://www.getty.edu/news/historic-places-sacred-spaces-and-the-pandemic/>.

Macdonald, Susan, Ohnmar Myo, and James Cuno. 2021. "PODCAST: Conserving Bagan in a Time of Uncertainty: Planning the Future of a Millennia-Old Heritage Site in Myanmar." *The Iris* (blog). December 8, 2021. <https://blogs.getty.edu/iris/podcast-conserving-bagan-in-a-time-of-uncertainty/>.

Zagorski, Anna. 2021. "Building with Plastic: Why architects turned to plastic in the mid-20th century—and why conserving these buildings is surprisingly challenging." *Getty News & Stories* (blog). December 14, 2021. <https://www.getty.edu/news/building-with-plastic/>.

———. 2021. "Falling in Love with Concrete: How a Brazilian architect and Getty Conservation Institute researcher turned her passion for concrete buildings into a quest to save them." *The Iris* (blog). July 8, 2021. <https://www.getty.edu/news/falling-in-love-with-concrete/>.

———. 2021. "Strip Malls, Prisons, Freeway Interchanges? Which 20th-century sites should we protect by adding them to our official registers? A new tool urges heritage experts to consider an unusual array of contenders." *The Iris* (blog). June 21, 2021. <https://www.getty.edu/news/strip-malls-prisons-freeway-interchanges/>.

