

# ARCLG327: Material Structure and Deterioration of Craft Materials: Caitlin O'Grady

View Online



Allen, Norman S., and others, *Polymers in Conservation* (Royal Society of Chemistry, 1992), Special publication / Royal Society of Chemistry

Association of Researchers into Dyes in History and Archaeology, *Dyes in History and Archaeology*, (York), 2001

Bailão, A., and S. Šustic, 'Retouching with Mica Pigments', *E Conservation Journal*, no. 1 (2013), pp. 45–60

<<http://www.e-conservation.org/issue-1/18-retouching-with-mica-pigments>>

Barański, A., and others, 'Effect of Relative Humidity on the Degradation Rate of Cellulose. Methodology Studies', *Restaurator*, 25.1 (2004), pp. 68–74, doi:10.1515/REST.2004.68

Bell, Lilian A., and Marcia Morse, *Plant Fibers for Papermaking*, 2nd rev. ed (Liliaceae, 1981)

Bemiss, E., *The Dyer's Companion in Two Parts* (Cady & Fells, 1806)

<<https://archive.org/details/dyerscompanion00bemi>>

Berrie, Barbara Hepburn, *Artists' Pigments: A Handbook of Their History and Characteristics*, Volume 4 (National Gallery of Art, 2007)

Bogaard, John, Hannah R. Morris, and Paul M. Whitmore, 'A Method for the Aqueous Deacidification of Oxidized Paper', *Journal of the American Institute for Conservation*, 44.2 (2005), pp. 63–74

<[http://www.jstor.org.libproxy.ucl.ac.uk/stable/40025134?seq=1#page\\_scan\\_tab\\_contents](http://www.jstor.org.libproxy.ucl.ac.uk/stable/40025134?seq=1#page_scan_tab_contents)>

Boyd, J. E., 'Silver and Sunlight: The Science of Early Photography | Chemical Heritage Foundation', *Chemical Heritage Magazine*, 2010, xxviii

<<http://www.chemheritage.org/discover/media/magazine/articles/28-2-silver-and-sunlight.aspx>>

Boynton, Robert Shaw, *Chemistry and Technology of Lime and Limestone*, 2nd ed (Wiley, 1980)

Brill, Thomas B., *Light: Its Interaction with Art and Antiquities* (Plenum Press, 1980)

Byne, L.S.G., 'The Corrosion of Shells in Cabinets', in *Historical Perspectives on Preventive Conservation* (Getty Conservation Institute, 2013), Readings in conservation

BytesizeScience, A Brief History of Photography: Innovations in Chemistry - Bytesize Science, 2012

<<http://www.youtube.com/watch?v=Mh42xZQL6-k&feature=youtu.be&list=UUeYmwVIKjh29F5WBdhhbEziQ>>

BYTESIZESCIENCE, The Chemistry of Natural Dyes - Bytesize Science, 2013

<<https://www.youtube.com/watch?v=Gwk1B66dvAM&feature=youtu.be>>

Cather, S. (ed.), The Conservation of Wall Paintings (Getty Publications), S. Cather, 1991 (The Paul J. Getty Trust, n.d.)

<<http://www.getty.edu/publications/virtuallibrary/089236162X.html>>

Cennini, C. D'A., Il Libro Dell'Arte (Dover Publications, 1933)

<<http://www.noteaccess.com/Texts/Cennini/>>

Cosentino, Antonino, 'Identification of Pigments by Multispectral Imaging; a Flowchart Method', Heritage Science, 2.1 (2014), doi:10.1186/2050-7445-2-8

Costello, K., 'Experiment #7: Light as a Tool Spectroscope', 2008

<<http://www.chemistryland.com/CHM107Lab/Exp7/Spectroscope/Spectroscope.html>>

Cotterill, R., 'From Mine, Quarry, and Well: Minerals', in The Cambridge Guide to the Material World (Cambridge University Press, 1985), pp. 99–118

Dacus Hamm, P., 'The History of the Manufacture of Printing Ink from 1500-1900 with Notes for the Conservator', in Papers Presented at the April 1992 Conference, Manchester (Institute of Paper Conservation, 1992), pp. 30–35

Dal, P. H., and W. J. H. Berden, 'The Ageing of Plaster of Paris in Relation to Its Equilibrium Water-Content', in Science of Ceramics: Proceedings of the Second Conference Held under the Auspices of the British Ceramic Society and the Nederlandse Keramische Vereniging, at Noordwijk Aan Zee, 13-17 May 1963 (Academic Pr, 1965), pp. 95–108

Douma, M., and J. Lipscher, 'Pigments through the Ages - Detailed Pigment Histories, Recipes', Institute for Dynamic Educational Advancement, 2014

<<http://www.webexhibits.org/pigments/>>

Drayman Weisser, Terry and American Institute for Conservation of Historic and Artistic Works, Gilded Metals: History, Technology and Conservation (Archetype Publications in association with The American Institute for Conservation of Historic and Artistic Works, 2000)

Eastaugh, N., and others, The Pigment Compendium: A Dictionary and Optical Microscopy of Historical Pigments (Elsevier Butterworth-Heinemann, 2004)

<<https://doi.org/10.4324/9780080473765>>

Feinberg, G., 'Light', Scientific American, 219.3 (1968), pp. 50–75

<<http://www.nature.com.libproxy.ucl.ac.uk/scientificamerican/journal/v219/n3/pdf/scientificamerican0968-50.pdf>>

Feller, Robert L., Artists' Pigments: A Handbook of Their History and Characteristics,

Volume 1 (National Gallery of Art, 1986)

FitzHugh, Elisabeth West, *Artists' Pigments: A Handbook of Their History and Characteristics*, Volume 3 (National Gallery of Art, 1997)

'Floor Plans | Natural History Museum', 2014  
<<http://www.nhm.ac.uk/visit-us/galleries/floorplans/index.html>>

Freifield, K., 'Prussian Blue, Blue Print, Cyanotype Chemicals Are Cyanides, Says EPA', *Arts, Crafts and Theater Safety (ACTS)*, 18.2 (2004)  
<[http://www.conservation-us.org/docs/default-source/periodicals/acts\\_facts\\_2004\\_vol18.pdf?sfvrsn=2](http://www.conservation-us.org/docs/default-source/periodicals/acts_facts_2004_vol18.pdf?sfvrsn=2)>

Frood, A., 'Riddle of "Baghdad's Batteries"', 2003  
<<http://news.bbc.co.uk/1/hi/sci/tech/2804257.stm>>

George Eastman House, *Making a Tintype*, 2011  
<<http://www.youtube.com/watch?v=fY5KQQLBbcs&feature=youtu.be>>

Gervais, C., and others, 'Why Does Prussian Blue Fade? Understanding the Role(s) of the Substrate', *Journal of Analytical Atomic Spectrometry*, 2013, xxviii  
<<http://pubs.rsc.org.libproxy.ucl.ac.uk/en/content/articlepdf/2013/ja/c3ja50025j>>

Gettens, R. J., 'Patina Nobile and Vile', in *Art and Technology: A Symposium on Classical Bronzes* (Published for the Fogg Art Museum, Harvard University and the Dept. of Humanities, M.I.T. by M.I.T. Press, 1970), pp. 57-72

Gettens, Rutherford J., and George L. Stout, *Painting Materials: A Short Encyclopaedia* (Dover Publications, 1966)

Gibbons, Pat, and others, *Care and Conservation of 17th Century Plasterwork in Scotland* (Historic Scotland, 2004), Technical advice note

Harley, R. D., *Artists' Pigments c. 1600-1835: A Study in English Documentary Sources*, 2nd. rev. ed (Archetype Publications, 2001)

Hawthorne, John G., Cyril Stanley Smith, and Theophilus, *On Divers Arts: The Foremost Medieval Treatise on Painting, Glassmaking and Metalwork* (Dover, 1979)

Hodges, H., '15. Some Other Materials - Part I: Materials and Methods of Working', in *Artifacts: An Introduction to Early Materials and Technology* (Baker, 1989), pp. 166-72

—, '16. General Principles - Part II: The Examination of Artifacts', in *Artifacts: An Introduction to Early Materials and Technology* (Baker, 1989), pp. 175-87

Hofenk de Graaff, Judith H., *The Colourful Past: Origins, Chemistry and Identification of Natural Dye-stuffs* (Abegg-Stiftung, 2004)

Horelick, L.A., K. McHugh, and O. Madden, 'What's Going on with Guts: Assessing Adhesives Used to Repair Cultural Objects Made of Gut Skin', *Adhesives and Consolidants for Conservation: Research and Applications. Symposium 2011 (Ottawa)*, 2011, pp. 1-18

<<https://repository.si.edu/handle/10088/83342>>

Horie, C. V., *Materials for Conservation: Organic Consolidants, Adhesives and Coatings*, 2nd ed (Butterworth-Heinemann, 2010)

Hunter, Dard, *Papermaking: The History and Technique of an Ancient Craft* (Dover, 1978)  
John Mills and Raymond White, *Organic Chemistry of Museum Objects* (Taylor & Francis eBooks, n.d.), doi:10.4324/9780080513355

Kakoulli, I., 'Roman Wall Paintings in Cyprus: A Scientific Investigation of Their Technology', in *Roman Wall Painting: Materials, Techniques, Analysis and Conservation: Proceedings of the International Workshop, Fribourg 7-9 March 1996* (Institute of Minerology and Petrography, 1997), pp. 131-41

Khan Academy, 'Khan Academy Notes on Chemistry', 2014  
<<https://www.khanacademy.org/science/chemistry>>

Kingery, W. D., 'A Role for Materials Science', in *Learning from Things: Method and Theory of Material Culture Studies* (Smithsonian Institution Press, 1996), pp. 175-80

—, 'A Role for Materials Science', in *Learning from Things: Method and Theory of Material Culture Studies*, ed. by W. D. Kingery (Smithsonian Institution Press, 1996), pp. 175-80

—, 'Materials Science and Material Culture', in *Learning from Things: Method and Theory of Material Culture Studies* (Smithsonian Institution Press, 1996), pp. 181-203

—, 'Materials Science and Material Culture', in *Learning from Things: Method and Theory of Material Culture Studies*, ed. by W. D. Kingery (Smithsonian Institution Press, 1996), pp. 181-203

—, and Pamela B. Vandiver, *Ceramic Masterpieces: Art, Structure, and Technology* (Free Press, 1986)

Koob, Stephen P. and Corning Museum of Glass, *Conservation and Care of Glass Objects* (Archetype in association with the Corning Museum of Glass, 2006)

Kuehni, R. G., *Color: An Introduction to Practice and Principles*, 2nd edn (John Wiley & Sons, Inc., 1997)  
<<http://onlinelibrary.wiley.com.libproxy.ucl.ac.uk/book/10.1002/0471687448>>

Lavédrine, Bertrand, and others, *Photographs of the Past: Process and Preservation* (Getty Conservation Institute, 2009)

Leggett, William F., *Ancient and Medieval Dyes*: William F. Leggett (Coachwhip Publications, 2009)

Manso, M., and M.L. Carvalho, 'Application of Spectroscopic Techniques for the Study of Paper Documents: A Survey', *Spectrochimica Acta Part B: Atomic Spectroscopy*, 64.6 (2009), pp. 482-90, doi:10.1016/j.sab.2009.01.009

Maryon, Herbert, *Metalwork and Enamelling: A Practical Treatise on Gold and Silversmiths'*

Work and Their Allied Crafts, 4th ed. rev (Chapman & Hall, 1959)

Mattusch, Carol C., and others, The Fire of Hephaistos: Large Classical Bronzes from North American Collections (Harvard University Art Museums, 1996)

Mikropoulou, Eleni, Euphoria Tsatsaroni, and E. A. Varella, 'Revival of Traditional European Dyeing Techniques Yellow and Red Colorants', *Journal of Cultural Heritage*, 10.4 (2009), pp. 447–57, doi:10.1016/j.culher.2009.02.003

Museums and Galleries Commission, Adhesives and Coatings (Conservation Unit of the Museums & Galleries Commission in conjunction with Routledge, 1992), *Science for conservators*

Nassau, Kurt, The Physics and Chemistry of Color: The Fifteen Causes of Color, 2nd ed (Wiley, 2001), Wiley series in pure and applied optics

Newton, R. G., and Sandra Davison, Conservation of Glass, Rev. ed (Butterworth-Heinemann, 1996), Butterworths series in conservation and museology

Norris, D. H., and J. J. Gutierrez, Issues in the Conservation of Photographs (Getty Conservation Institute, 2010), *Readings in conservation*

Osmond, G., 'Accelerated Deterioration of Artists' Oil Paints: An Assessment Involving Ultraviolet Fluorescence Microscopy', 10th Triennial Meeting, Washington, DC, USA, 22-27 August 1993: Preprints (Paris), 1993

Parmelee, Cullen W., and Cameron Gerald Harman, Ceramic Glazes, 3d ed., completely rev. and enl (Cahners Books, 1973)

Price, H., 'The Chemistry of Dyes', 2002  
<<http://www.chm.bris.ac.uk/webprojects2002/price/first%20page.htm>>

Roy, Ashok, Artists' Pigments: A Handbook of Their History and Characteristics, Volume 2 (National Gallery of Art, 1993)

Royal Society of Chemistry, 'Periodic Table – Royal Society of Chemistry', n.d.  
<<http://www.rsc.org/periodic-table>>

Rye, Owen S., Pottery Technology: Principles and Reconstruction (Taraxacum, 1981), *Manuals on archeology*

School of Chemistry, The University of Sydney, 'Colour and Light', 2008  
<[https://scilearn.sydney.edu.au/fychemistry/calculators/colour\\_wheel.shtml](https://scilearn.sydney.edu.au/fychemistry/calculators/colour_wheel.shtml)>

Scott, D. A., J. Podany, and B. B. Considine (eds), Ancient & Historic Metals: Conservation and Scientific Research. Proceedings of a Symposium on Ancient and Historic Metals Organised by the J. Paul Getty Museum and the Getty Conservation Institute (Getty Conservation Institute, 1994)  
<[http://www.getty.edu/conservation/publications\\_resources/pdf\\_publications/ancientmetals.html](http://www.getty.edu/conservation/publications_resources/pdf_publications/ancientmetals.html)>

Scott, David A., and Gerhard Eggert, *Iron and Steel in Art: Corrosion, Colorants, Conservation* (Archetype, 2009)

— and Getty Conservation Institute, *Copper and Bronze in Art: Corrosion, Colorants, Conservation* (Getty Conservation Institute, 2002)

Selwyn, Lyndsie and Canadian Conservation Institute, *Metals and Corrosion: A Handbook for the Conservation Professional* (Canadian Conservation Institute, 2004)

Shakhashiri, B. Z., 'Chemical of the Week -- Fireworks!', 2012  
<<http://scifun.chem.wisc.edu/chemweek/fireworks/fireworks.htm>>

Shashoua, Yvonne, *Conservation of Plastics: Materials Science, Degradation and Preservation* (Butterworth-Heinemann, 2008)

Shepard, A. O., *Ceramics for the Archaeologist* (Carnegie Institute of Washington, 1980)  
<[http://publicationsonline.carnegiescience.edu/publications\\_online/ceramics\\_archaeologist/default.html](http://publicationsonline.carnegiescience.edu/publications_online/ceramics_archaeologist/default.html)>

Stulik, D., and A. Kaplan, 'Cyanotype', in *The Atlas of Analytical Signatures of Photographic Processes*, 2013  
<[http://www.getty.edu/conservation/publications\\_resources/pdf\\_publications/pdf/atlas\\_cyanotype.pdf](http://www.getty.edu/conservation/publications_resources/pdf_publications/pdf/atlas_cyanotype.pdf)>

The Getty Museum, *Early Photography: Making Daguerreotypes*, 2012  
<<http://www.youtube.com/watch?v=N0Ambe4FwQk&feature=youtu.be>>

'The Spatially Resolved Characterisation of Egyptian Blue, Han Blue and Han Purple by Photo-Induced Luminescence Digital Imaging', *Analytical and Bioanalytical Chemistry*, 394.4 (2009)  
<[http://download.springer.com/static/pdf/518/art%253A10.1007%252Fs00216-009-2693-0.pdf?originUrl=http%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%252Fs00216-009-2693-0&token2=exp=1444004803~acl=%2Fstatic%2Fpdf%2F518%2Fart%25253A10.1007%25252Fs00216-009-2693-0.pdf%3ForiginUrl%3Dhttp%253A%252F%252Flink.springer.com%252Farticle%252F10.1007%252Fs00216-009-2693-0\\*~hmac=239aa6f1affaa2d0502fed4460979ea452b64dcb613df02375fe732b2b3c43c3](http://download.springer.com/static/pdf/518/art%253A10.1007%252Fs00216-009-2693-0.pdf?originUrl=http%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%252Fs00216-009-2693-0&token2=exp=1444004803~acl=%2Fstatic%2Fpdf%2F518%2Fart%25253A10.1007%25252Fs00216-009-2693-0.pdf%3ForiginUrl%3Dhttp%253A%252F%252Flink.springer.com%252Farticle%252F10.1007%252Fs00216-009-2693-0*~hmac=239aa6f1affaa2d0502fed4460979ea452b64dcb613df02375fe732b2b3c43c3)>

Thompson, Daniel V., *The Materials and Techniques of Medieval Painting* (Dover Publications, 1956), Dover books on art

Tsien-Hsui, T., 'Part 1: Paper and Printing', in *Science and Civilisation in China: Volume 5: Chemistry and Chemical Technology* (Cambridge University Press, 1974)

Tumosa, C. S., and others, 'The Deterioration of Newsprint and Implications for Its Preservation', *WAAC Newsletter*, 30.2 (2008), pp. 21-24  
<<http://cool.conservation-us.org/waac/wn/wn30/wn30-3/>>

University of California Davis, 'Metallurgy - UC Davis Chemwiki', 2014  
<[http://chemwiki.ucdavis.edu/Inorganic\\_Chemistry/Descriptive\\_Chemistry/d-Block\\_Elements/Metallurgy](http://chemwiki.ucdavis.edu/Inorganic_Chemistry/Descriptive_Chemistry/d-Block_Elements/Metallurgy)>

—, 'The pH Scale - UC DavisChemwiki', 2014  
<[http://chemwiki.ucdavis.edu/Physical\\_Chemistry/Acids\\_and\\_Bases/Aqueous\\_Solutions/The\\_pH\\_Scale#Self-Ionization\\_of\\_Water](http://chemwiki.ucdavis.edu/Physical_Chemistry/Acids_and_Bases/Aqueous_Solutions/The_pH_Scale#Self-Ionization_of_Water)>

Van Keuren, Scott, Hector Neff, and Mark R. Agostini, 'Glaze-Paints, Technological Knowledge, and Ceramic Specialization in the Fourteenth-Century Pueblo Southwest', *Journal of Anthropological Archaeology*, 32.4 (2013), pp. 675–90, doi:10.1016/j.jaa.2013.04.002

Ware, M., 'A Blueprint for Conserving Cyanotypes', *Topics in Photographic Preservation*, 10 (2003) <<http://cool.conservation-us.org/coolaic/sg/topics/v10/pmgt10-004.pdf>>

Ware, Mike, Science Museum (Great Britain), and National Museum of Photography, Film, and Television (Great Britain), *Cyanotype: The History, Science and Art of Photographic Printing in Prussian Blue* (Science Museum, 1999)