

ARCLG123: Conservation: Materials Science: James Hales

Postgraduate: core: 0.5 units
Two terms

View Online



1.

Colombini, Maria Perla, Modugno, Francesca: Organic mass spectrometry in art and archaeology. Wiley, Chichester (2009).

2.

Chalmers, John M., Edwards, Howell G. M., Royal Society of Chemistry (Great Britain): Raman spectroscopy in archaeology and art history. Royal Society of Chemistry, Cambridge (2005).

3.

Glinsman, Lisha: The application of X-ray fluorescence spectrometry to the study of museum objects. s.n.], [S.I (2004).

4.

Henderson, Julian: The science and archaeology of materials: an investigation of inorganic materials. Routledge, London (2000).

5.

Grieken, R. van, Janssens, Koen H. A.: Non-destructive microanalysis of cultural heritage materials. Elsevier, Amsterdam, London (2004).

6.

Jones, A. V.: Access to chemistry. Royal Society of Chemistry, Cambridge (1999).

7.

Jones, M., May, E.: Conservation science: heritage materials. RSC Publishing, Cambridge (2006).

8.

Batt, Catherine, Young, Suzanne, Pollard, A. M., Stern, Ben: Analytical chemistry in archaeology. Cambridge University Press, Cambridge (2007).

9.

Pollard, A. M., Heron, Carl, Royal Society of Chemistry (Great Britain): Archaeological chemistry. Royal Society of Chemistry, Cambridge (2008).

10.

Price, T. Douglas, Burton, James H.: An introduction to archaeological chemistry. Springer, London (2011).

11.

Watt, Ian M.: The principles and practice of electron microscopy. Cambridge University Press, Cambridge (1997).

12.

Bousfield, Brian: Surface preparation and microscopy of materials. Wiley, Chichester (1992).

13.

Eastaugh, N.: The pigment compendium: Optical microscopy of historical pigments. Elsevier Butterworth-Heinemann, Amsterdam (2004).

14.

Gribble, C. D., Hall, A. J.: Optical mineralogy: principles and practice. Chapman & Hall, New York (1993).

15.

McCrone, Walter C., Delly, John Gustav, McCrone, Lucy B.: Polarized light microscopy. Ann Arbor Science, Michigan (1978).

16.

Robinson, P. C., Bradbury, Savile, Royal Microscopical Society (Great Britain): Qualitative polarized-light microscopy. Royal Microscopical Society, New York (1992).

17.

United Kingdom Institute for Conservation of Historic and Artistic Works: Analysis of pigments and plasters: its relevance to current wall painting and stone conservation practice : post prints of a day conference of the Wall Paintings Section of the United Kingdom Institute for Conservation of Historic and Artistic Works held 22 February 1997. United Kingdom Institute for Conservation of Historic and Artistic Works, London (1998).

18.

Gill, R.: Chemical fundamentals of geology. Chapman & Hall, London (1996).

19.

Gribble, C. D., Hall, A. J.: Optical mineralogy: principles and practice. Chapman & Hall, New York (1993).

20.

Henry, A.: Stone conservation: principles and practice. Donhead, Shaftesbury (2006).

21.

Bregnhøi, L., Nationalmuseet (Denmark): Paint research in building conservation. Archetype, London (2006).

22.

Dawson, J., Wright, M.M., Rozeik, C., Fitzwilliam Museum, Icon Archaeology Group: Decorated surfaces on ancient Egyptian objects: Technology, deterioration and conservation: Proceedings of a conference held in Cambridge, UK on 7-8 September 2007. Archetype in association with the Fitzwilliam Museum and Icon Archaeology Group, London (2010).

23.

Delamare, F.: Colour: making and using dyes and pigments. Thames & Hudson, London (2000).

24.

Eastaugh, N.: The pigment compendium: Optical microscopy of historical pigments. Elsevier Butterworth-Heinemann, Amsterdam (2004).

25.

Feller, R.L., Roy, A., FitzHugh, E.W., Berrie, B.H.: Artists' pigments: A handbook of their history and characteristics. National Gallery of Art, Washington (2007).

26.

Abd El Salam, S.A.: Egyptian and Graeco-Roman wall plasters and mortars: A comparative scientific study. Hedges, Oxford (2004).

27.

Eckel, E.C.: Cements, limes and plasters: Their materials, manufacture and properties. Donhead, Shaftesbury (2005).

28.

Pender, Robyn, Gowing, Robert, Secular Wall Paintings Symposia, Institute of Conservation, English Heritage: All manner of murals: the history, techniques and conservation of secular wall paintings ; proceedings of the Secular Wall Paintings Symposia organised by the Icon Stone and Wall Paintings Group and supported by English Heritage, London 2004-5. Archetype, London (2007).

29.

Bray, Charles, Society of Glass Technology: Ceramics and glass: a basic technology. Society of Glass Technology, Sheffield (2000).

30.

Brill, Robert H., Rising, Brandt A., Corning Museum of Glass: Chemical analyses of early glasses. Corning Museum of Glass, Corning, N.Y. (1999).

31.

Heck, M., Hoffmann, P.: Analysis of early medieval glass beads - The raw materials to produce green, orange and brown colours. *Mikrochimica acta*. 139, 71-76 (2002).

32.

Newton, R.G., Davison, S.: Conservation of glass. Butterworth-Heinemann, London (1996).

33.

Bray, C., Society of Glass Technology: Ceramics and glass: A basic technology. Society of Glass Technology, Sheffield (2000).

34.

Freestone, Ian, Bimson, M., British Museum: Early vitreous materials. British Museum, London (1987).

35.

Heck, M., Hoffmann, P.: Analysis of early medieval glass beads - The raw materials to produce green, orange and brown colours. *Mikrochimica acta*. 139, 71–76 (2002).

36.

Koob, S.P., Corning Museum of Glass: Conservation and care of glass objects. Archetype in association with the Corning Museum of Glass, London (2006).

37.

Newton, R.G., Davison, S.: Conservation of glass. Butterworth-Heinemann, London (1996).

38.

Chandler, H.: Metallurgy for the non-metallurgist. ASM International, Materials Park, Ohio (1998).

39.

Lang, Janet, Craddock, P. T.: Mining and metal production through the ages. British Museum, London (2003).

40.

Biswas, A.K., Davenport, W.G.: Extractive metallurgy of copper. Pergamon, Oxford (2002).

41.

Hodges, H.: Artifacts: an introduction to early materials and technology. Duckworth (1989).

42.

Jones, M., May, E.: Conservation science: heritage materials. RSC Publishing, Cambridge (2006).

43.

Scott, David A.: Metallography and microstructure of ancient and historic metals. Getty Conservation Institute, [Marina del Rey, CA] (1991).

44.

Lang, J., Craddock, P.T.: Mining and metal production through the ages. British Museum, London (2003).

45.

Ottaway, B.S., Wang, Q.: Casting experiments and microstructure of archaeologically relevant bronzes. Archaeopress, Oxford (2004).

46.

Scott, D.A., Getty Conservation Institute: Copper and bronze in art: Corrosion, colorants, conservation. Getty Conservation Institute, Los Angeles (2002).

47.

Scott, David A.: Metallography and microstructure of ancient and historic metals. Getty Conservation Institute, [Marina del Rey, CA] (1991).

48.

Selwyn, L., Canadian Conservation Institute: Metals and corrosion: A handbook for the conservation professional. Canadian Conservation Institute, Ottawa (2004).

49.

Buchwald, V.F., Kongelige Danske videnskabernes selskab: Iron and steel in ancient times. Det Kongelige Danske Videnskabernes Selskab, Copenhagen (2005).

50.

Lang, J., Craddock, P.T.: Mining and metal production through the ages. British Museum, London (2003).

51.

Hayman, R.: Ironmaking: The history and archaeology of the iron industry. Tempus, Stroud (2005).

52.

Janaway, R.C., Scott, B.G., United Kingdom Institute for Conservation of Historic and Artistic Works, Council for British Archaeology: Evidence preserved in corrosion products: New fields in artifact studies. United Kingdom Institute for Conservation, London (1989).

53.

Jones, D.A.: Principles and prevention of corrosion. Prentice Hall, Upper Saddle River, NJ (1996).

54.

Scott, David A.: Metallography and microstructure of ancient and historic metals. Getty Conservation Institute, [Marina del Rey, CA] (1991).

55.

Scott, D.A., Eggert, G.: Iron and steel in art: Corrosion, colorants, conservation. Archetype, London (2009).

56.

Selwyn, L., Canadian Conservation Institute: Metals and corrosion: A handbook for the conservation professional. Canadian Conservation Institute, Ottawa (2004).

57.

Craddock, P.T., La Niece, S.: Metal plating and patination: Cultural, technical and historical developments. Butterworth-Heinemann, Boston (1993).

58.

Drayman-Weisser, T., 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, London (2000).

59.

Selwyn, L., Canadian Conservation Institute: Metals and corrosion: A handbook for the conservation professional. Canadian Conservation Institute, Ottawa (2004).

60.

Hather, J.G.: The identification of northern European woods: A guide for archaeologists and conservators. Archetype, London (2000).

61.

Hoadley, R.B.: Identifying wood: Accurate results with simple tools. Taunton Press, Newtown, CT (1990).

62.

Mills, John S., White, Raymond: The organic chemistry of museum objects. Butterworth-Heinemann, Oxford (1999).

63.

Dorge, V., Howlett, F.C., American Institute for Conservation of Historic and Artistic Works: Painted wood: History and conservation. Getty Conservation Institute, Los Angeles (1998).

64.

Eaton, R.A., Hale, M. D. C.: Wood: Decay, pests, and protection. Chapman & Hall, London (1993).

65.

Hather, J.G.: The identification of northern European woods: A guide for archaeologists and conservators. Archetype, London (2000).

66.

Hoadley, R.B.: Identifying wood: Accurate results with simple tools. Taunton Press, Newtown, CT (1990).

67.

Mills, John S., White, Raymond: The organic chemistry of museum objects. Butterworth-Heinemann, Oxford (1999).

68.

Rivers, Shayne, Umney, Nick: Conservation of furniture. Butterworth-Heinemann, Oxford (2003).

69.

Sands, R.: Prehistoric woodworking: The analysis and interpretation of Bronze and Iron Age toolmarks. UCL Institute of Archaeology, London (1997).

70.

Appleyard, H.M., Wira: Guide to the identification of animal fibres. Wira, Leeds (1978).

71.

Catling, D., Grayson, J.E.: Identification of vegetable fibres. Chapman & Hall, London (1982).

72.

Greaves, P. H., Saville, B. P., Royal Microscopical Society (Great Britain): Microscopy of textile fibres. BIOS Scientific in association with the Royal Microscopical Society, Oxford (1995).

73.

Mills, John S., White, Raymond: The organic chemistry of museum objects. Butterworth-Heinemann, Oxford (1999).

74.

Janaway, R.C., Wyeth, P., AHRC Research Centre for Textile Conservation and Textile Studies: Scientific analysis of ancient and historic textiles: Informing preservation, display and interpretation: Postprints. Archetype, London (2005).

75.

Boersma, F., Brokerhof, A.W., van den Berg, S., Tegelaers, J.: Unravelling textiles: A handbook for the preservation of textile collections. Archetype, London (2007).

76.

Strand, Eva B. Andersson, North European Symposium for Archaeological Textiles: North European Symposium for Archaeological Textiles X. Oxbow Books, Oxford (2009).

77.

O'Connor, S.A., Brooks, M.M.: X-radiography of textiles, dress and related objects. Elsevier/Butterworth-Heinemann, Oxford (2007).

78.

Schoeser, M.: *World textiles: A concise history*. Thames & Hudson, London (2003).

79.

Seiler-Baldinger, A.: *Textiles: A classification of techniques*. Smithsonian Institution Press, Washington, D.C (1994).

80.

Watkins, S.M.: *Clothing: The portable environment*. Iowa State University Press, Ames, Iowa (1984).

81.

Haines, B., *Leather Conservation Centre: Parchment: The physical and chemical characteristics of parchment and the materials used in its conservation*. Leather Conservation Centre, Northampton (1999).

82.

Kite, M., Thomson, R.: *Conservation of leather and related materials*. Butterworth-Heinemann, Oxford (2006).

83.

Richards, M.: *Deerskins into buckskins: How to tan with brains, soap or eggs*. Backcountry Pub, Cave Junction, Or (2004).

84.

Calnan, C.N., Haines, B., *Leather Conservation Centre: Leather: Its composition and changes with time*. Leather Conservation Centre, Northampton, England (1991).

85.

Kite, M., Thomson, R.: Conservation of leather and related materials. Butterworth-Heinemann, Oxford (2006).

86.

Larsen, R.: Microanalysis of parchment. Archetype, London (2002).

87.

Wright, M.M., Conservators of Ethnographic Artefacts: The conservation of fur, feather and skin: Seminar organised by the Conservators of Ethnographic Artefacts at the Museum of London on 11 December 2000. Archetype, London (2002).

88.

Holztaffel, C.H.: Working horn, ivory & tortoiseshell. Caber Press, Portland OR (2000).

89.

MacGregor, A.: Bone, antler, ivory & horn: The technology of skeletal materials since the Roman period. Barnes & Noble Books, London (1985).

90.

Mills, John S., White, Raymond: The organic chemistry of museum objects. Butterworth-Heinemann, Oxford (1999).

91.

Starling, K., Watkinson, D., United Kingdom Institute for Conservation of Historic and Artistic Works: Archaeological bone, antler and ivory. United Kingdom Institute for Conservation, London (1987).

92.

Arnold, Dean E.: Ceramic theory and cultural process. Cambridge University Press, Cambridge (1985).

93.

Barclay, Katherine: Scientific analysis of archaeological ceramics: a handbook of resources. Oxbow, Oxford (2001).

94.

Bray, Charles, Society of Glass Technology: Ceramics and glass: a basic technology. Society of Glass Technology, Sheffield (2000).

95.

Gaimster, David R. M., Freestone, Ian: Pottery in the making: world ceramic traditions. British Museum Press, London (1997).

96.

Hamer, Frank, Hamer, Janet: The potter's dictionary of materials and techniques. A & C Black, London (1991).

97.

Kingery, W. D., Vandiver, Pamela B.: Ceramic masterpieces: art, structure, and technology. Free Press, London (1986).

98.

Orton, Clive, Tyers, Paul, Vince, A. G.: Pottery in archaeology. Cambridge University Press, Cambridge (1993).

99.

Potts, P. J.: A handbook of silicate rock analysis. Blackie Academic & Professional, London (1992).

100.

Rice, Prudence M.: Pottery analysis: a sourcebook. University of Chicago Press, Chicago (1987).

101.

Prudence M. Rice: Recent Ceramic Analysis: 1. Function, Style, and Origins. Journal of Archaeological Research. Vol. 4, 133-163.

102.

Prudence M. Rice: Recent Ceramic Analysis: 2. Composition, Production, and Theory. Journal of Archaeological Research. Vol. 4, 165-202.

103.

Rye, Owen S.: Pottery technology: principles and reconstruction. Taraxacum, Washington, D.C. (1981).