

## Reading list – ARKN15, Field Archaeology in Theory and Practice, 30 credits

Established by the Board of the Department: 2021-06-07

*The literature is available through LUBcat and/or LUBsearch unless otherwise stated.*

### 1. Field archaeology in practice 15 credits (1875 p.)

#### **Field work**

Barker, Philip (1993). *Techniques of archaeological excavation*. London: Batsford. (285 p.)

Drewett, Peter (2011). *Field Archaeology. An introduction*. 2nd ed. London: Routledge (208 p.)

Larsson, Lars. "Uppåkra – Research on a Central Place. Recent Excavations and Results." Included in: *Central places in the Migration and Merovingian periods: Papers from the 52nd Sachsensymposium, Lund, August 2001* (2002). Hårdh, Birgitta & Larsson, Lars (Eds.), Uppåkrastudier 6, Stockholm: Amlqvist & Wiksell International. (pp. 19-30) (12 p.) Available online: <https://www.uppakra.lu.se/uppakrastudier/uppakrastudier-6/> (Accessed 2021-05-31)

Museum of London Archaeology Service (1994). *Archaeological Site Manual*. 3rd edition. London: Museum of London. (128 p.)

O'Connor, Terry (2000). *The Archaeology of Animal Bones*. College Station: Texas A&M univ. press. (pp. 19-27, 28-35) (16 p.)

#### **Buildings archaeology**

Adams, Allan T. (2016). *Drawing for Understanding: Creating Interpretative Drawings of Historic Buildings*. Swindon: Historic England. (92 p.) (Also available as PDF)

Eriksdotter, Gunhild. "The Stratigraphy of Buildings. Examples of the Methodology of Buildings Archaeology." Included in: *Visions of the Past: Trends and Traditions in Swedish Medieval Archaeology* (1997). Andersson, Hans, Carelli, Peter & Ersgård, Lars (Eds.), Lund Studies in Medieval Archaeology 19, Stockholm: Central Board of National Antiquities. (pp. 741-761) (20 p.) (Also available as PDF)

Gardelin, Gunilla. "Medieval Buildings as Historical Documents." Included in: *Visions of the Past: Trends and Traditions in Swedish Medieval Archaeology* (1997). Andersson, Hans,

Carelli, Peter & Ersgård, Lars (Eds.), *Lund Studies in Medieval Archaeology 19*, Stockholm: Central Board of National Antiquities. (pp. 777-785) (8 p) (Also available as PDF)

Lane, Rebecca (2016). *Understanding Historic Building: A Guide to Good Recording Practice*. Swindon: Historic England. (60 p.) (Also available as PDF)

Morriss, Richard K. (2000). *The archaeology of buildings*. Stroud: Tempus. (176 p.)

*World Archaeology* 2009, volume 41, issue 3, *The Archaeology of buildings* (special issue focused on buildings archaeology from the Stone Age until today, several papers). (176 pages)

### ***Landscape***

Chapman, Henry (2009). *Landscape archaeology and GIS*. Stroud: History Press. (240 p.)

David, Bruno & Thomas, Julian (2016). *Handbook of Landscape Archaeology*. Walnut Creek: Taylor and Francis. (Ch. 1, 4, 5, 25, 28, 36, 46, 65. 200 p.)

*Satellite Remote Sensing: A New Tool for Archaeology* (2012). Lasponara, Rosa, Masini, Nicola (Eds.). Dordrecht: Springer Netherlands. (Ch 1, 7, 8, 9. 100 p.)

## **2. Processing and Analyzing 7.5 credits (1038 p.)**

Hurcombe, Linda (2007). *Archaeological artefacts as material culture*. Abingdon, Oxon: Routledge. (p. 1–118. 118 p.)

Hurcombe, Linda (2014). *Perishable material culture in prehistory: investigating the missing majority*. New York: Routledge. (211 p.)

### ***Metallurgical analysis***

Bindler, Richard, Karlsson, Jon, Rydberg, Johan, Karlsson, Björn, Berg Nilsson, Lena, Biester, Harald & Segerström, Ulf (2017). "Copper-ore mining in Sweden since the pre-Roman Iron Age: lake-sediment evidence of human activities at the Garpenberg ore field since 375 BCE." Included in: *Journal of Archaeological Science Reports*, volume 12, pp. 99-108 (10 p.) (<https://doi.org/10.1016/j.jasrep.2017.01.019>)

Hauptmann, Andreas (2020). *Archaeometallurgy – Materials Science Aspects*. Natural Science in Archaeology. Springer International publishing (Ch 1 & 2. 15 p.) (<https://doi.org/10.1007/978-3-030-50367-3>)

Hjärthner-Holder, Eva, Grandin, Lena, Sköld, Katarina & Svensson, Andreas (2018). "By Who, for Whom? – Landscape, Process and Economy in the Bloomery Iron Production AD 400–

1000." Included in: *The Journal of Archaeology and Ancient History*, number 21, pp. 1-50 (50 p.) (<https://www.arkeologi.uu.se/journal/no-21-hjartner-en/>)

Ling, Johan, Stos-Gale, Zofia, Grandin, Lena, Billström, Kjell, Hjärthner-Holdar, Eva & Persson, Per-Olof (2014). "Moving metals II: provenancing Scandinavian Bronze Age artefacts by lead isotope and elemental analyses." Included in: *Journal of Archaeological Science*, volume 41, pp. 106-132 (27 p.) (<https://doi.org/10.1016/j.jas.2013.07.018>)

Orfanou, Vana, Birch, Thomas, Sindbæk, Søren M., Feveile, Claus, Barfod, Gry H. & Leshner, Charles E. (2021). "On diverse arts: crucible metallurgy and the polymetallic cycle at Scandinavia's earliest Viking town, Ribe (8th–9th c. CE), Denmark." Included in: *Archaeological and Anthropological Sciences*, volume 13, issue 81, pp. 1-23 (23 p.) (<https://doi.org/10.1007/s12520-021-01308-1>)

Senn, Marianne, Gfeller Urs, Guénette-Beck, Barbara, Linemann, Peter & Ulrich, Andrea (2010). "Tools to qualify experiments with Bloomery Furnaces." *Archaeometry*, volume 52, issue 1, pp. 131-145 (15 p.) (<https://doi.org/10.1111/j.1475-4754.2009.00461.x>)

#### **aDNA**

Allentoft, Morten E., Sikora, Martin,... Willerslev, Eske (2015). "Population genomics of bronze age Eurasia." Included in: *Nature*, volume 522, issue 7555, pp. 167-172 (17 pages) (<https://doi.org/10.1038/nature14507>)

Brown, Terry A. & Brown, Keri (2011). *Biomolecular Archaeology: An introduction*. Malden, MA : Wiley-Blackwell. (Ch. 1 & 2. 37 p.) (<https://doi.org/10.1002/9781444392449>)

Furholt, Martin (2018). "Massive migrations? The impact of recent aDNA studies on our view of third millennium Europe." Included in: *European Journal of Archaeology*, volume 21, issue 2, pp. 159-191 (33 p.) (<https://doi.org/10.1017/eea.2017.43>)

Heyd, Volker (2017). "Kossinna's smile." Included in: *Antiquity* volume 91, issue 356, pp. 348-359 (12 p.) (<https://doi.org/10.15184/aqy.2017.21>)

Krzewińska, Maja, Rodríguez-Varela, Ricardo, Ahlström Arcini, Caroline, Ahlström, Torbjörn, Hertzman, Niklas, Storå, Jan, & Götherström, Anders (2021). "Related in death? A curious case of a foetus hidden in bishop Peder Winstrup's coffin in Lund, Sweden." Included in: *Journal of Archaeological Science: Reports*, volume 37, 102939 (8 p.) (<https://doi.org/10.1016/j.jasrep.2021.102939>)

Mühlemann, Barbara, Vinner, Lasse,... Sikora, Martin (2020). "Diverse variola virus (smallpox) strains were widespread in northern Europe in the Viking Age." *Science*, volume 369, issue 6502 (12 p.) (<https://doi.org/10.1126/science.aaw8977>)

Novak, Mario, Olalde, Iñigo,... Reich, David (2021). "Genome-wide analysis of nearly all the victims of a 6200 year old massacre." Included in: *Plos one*, volume 16, issue 3, e0247332 (14 p.) (<https://doi.org/10.1371/journal.pone.0247332>)

Rasmussen, Simon, Allentoft, Morten E., ... Willerslev, Eske (2015). "Early divergent strains of *Yersinia pestis* in Eurasia 5,000 years ago." Included in: *Cell*, volume 163, issue 3, pp. 571-582 (12 p.) (<https://doi.org/10.1016/j.cell.2015.10.009>)

## **LINXS**

*Neutron Methods for Archaeology and Cultural Heritage: Neutron Scattering Applications and Techniques* (2017). Kardjilov Nikolay & Festa, Guilia (Eds). Cham: Springer Nature. (Ch 1 and selected chapters. Ca. 70 p.) (<https://doi.org/10.1007/978-3-319-33163-8>)

*Synchrotron Radiation News*, 2019, volume 32, issue 6, *Synchrotron Radiation in Art and Archaeology*. Paterson, David & Howard, Daryl (Guest eds.). (Selected chapters. Ca 70 p.) (<https://doi.org/10.1080/08940886.2019.1680206>)

## **Lithic analysis**

Forster, Amanda & Jones, Richard. "From Homeland to Home: Using Soapstone to Map Migration and Settlement in the North Atlantic." Included in: *Soapstone in the North: Quarries, Products and People 7000 BC-AD 1700* (2017). Hansen, Gitte & Storemyr, Per (Eds.), UBAS – University of Bergen Archaeological Series 9, Bergen: University of Bergen. pp. 225-248 (24 p.) Available online: <https://bora.uib.no/bora-xmlui/handle/1956/16588> (Accessed 2021-05-31)

Mehta, Jayur Madhusudan, McCall, Grant, Marks, Theodore & Enloe, James (2017). "Geochemical source evaluation of archaeological chert from the Carson mounds site in northwestern Mississippi using portable X-ray fluorescence (pXRF)." Included in: *Journal of Archaeological Science: Reports*, volume 11, pp. 381-389 (9 p.). (<https://doi.org/10.1016/j.jasrep.2016.12.014>)

Sciuto, Claudia, Geladi, Paul, La Rosa, Lorenza, Linderholm, Johan & Thyrel, Mikael (2019). "Hyperspectral imaging for characterization of lithic raw materials: The case of a Mesolithic dwelling in northern Sweden." Included in: *Lithic Technology*, volume 44, issue 1, pp. 22-35. (14 p.) (<https://doi.org/10.1080/01977261.2018.1543105>)

Shackley, M. Steven (2008). "Archaeological petrology and the archaeometry of lithic materials." Included in: *Archaeometry*, volume 50, issue 2, pp. 194-215. (22 p.) (<https://doi.org/10.1111/j.1475-4754.2008.00390.x>)

Sharps, Meredith C., Martinez, Maria M., Brandl, Michael, Lam, Thomas & Vicenzi, Edward P. (2021). "A dual beam SEM-based EDS and micro-XRF method for the analysis of large-scale

Mesoamerican obsidian tablets.” Included in: *Journal of Archaeological Science: Reports*, volume 35, 102781. (12 p.) (<https://doi.org/10.1016/j.jasrep.2020.102781>)

Stroth, Luke, Otto, Raquel, Daniels Jr, James T., & Braswell, Geoffrey E. (2019). “Statistical artifacts: Critical approaches to the analysis of obsidian artifacts by portable X-ray fluorescence.” Included in: *Journal of Archaeological Science: Reports*, volume 24, pp. 738–747. (10 p.) (<https://doi.org/10.1016/j.jasrep.2019.02.023>)

### **Ceramic analysis**

Blomster, Jeffrey P., Neff, Hector & Glascock, Michael D. (2005). “Olmec pottery production and export in ancient Mexico determined through elemental analysis.” Included in: *Science*, volume 307, issue 5712, pp. 1068-72. (5 p.) (<https://doi.org/10.1126/science.1107599>)

Flannery, Kent V., Balkansky, Andrew K.,... Yaeger, Jason (2005). “Implications of new petrographic analysis for the Olmec “mother culture” model.” Included in: *Proceedings of the National Academy of Sciences of the United States of America*, volume 102, issue 32, pp. 11219-11223. (5 p.) (<https://doi.org/10.1073/pnas.0505116102>)

Neff, Hector, Blomster, Jeffrey,... Houston, Stephen (2006). “Smokescreens in the provenance investigation of Early Formative Mesoamerican ceramics.” Included in: *Latin American Antiquity*, volume 17, issue 1, pp. 104-118. (15 p.) (<https://doi.org/10.2307/25063039>)

Neff, Hector, Blomster, Jeffrey,... Joyce, Arthur A. (2006). “Methodological issues in the provenance investigation of Early Formative Mesoamerican ceramics.” Included in: *Latin American Antiquity*, volume 17, issue 1, p. 54-76. (18 p.) (<https://doi.org/10.2307/25063036>)

Sharer, Robert J., Balkansky, Andrew K.,... Redmond, Elsa M. (2006). “On the logic of archaeological inference: Early Formative pottery and the evolution of Mesoamerican societies.” Included in: *Latin American Antiquity*, volume 17, issue 1, pp. 90-103. (14 p.) (<https://doi.org/10.2307/25063038>)

Stoltman, James B., Marcus, Joyce, Flannery, Kent V., Burton, James H. & Moyle, Robert G. (2005). “Petrographic evidence shows that pottery exchange between the Olmec and their neighbors was two-way.” Included in: *Proceedings of the National Academy of Sciences of the United States of America*, volume 102, issue 32, pp. 11213-11218. (6 p.) (<https://doi.org/10.1073/pnas.0505117102>)

### **3D visualization and analysis**

Forte, Maurizio. “Introduction.” Included in: *Virtual Archaeology: Re-creating Ancient Worlds* (1997). Forte, Maurizio & Siliotti, Aberto (Eds.), New York: Henry N. Abrams. pp. 1-5 (5 p) (Available as pdf)

Garstki, Kevin (2017). "Virtual Representation: The Production of 3D Digital Artifacts." Included in: *Journal of Archaeological Method and Theory*, volume 24, pp. 726-750 (25 p.) (<https://doi.org/10.1007/s10816-016-9285-z>)

Jeffra, Caroline, Hilditch, Jill,, Waagen, Jitte, Lanjouw, Tijm, Stoffer, Markus, de Gelder, Laurien & Kim, Myung Ju (2020). "Blending the Material and the Digital: A Project at the Intersection of Museum Interpretation, Academic Research, and Experimental Archaeology." Included in: *EXARC Journal*, issue 2020/4 (14 pages). Available online: <https://exarc.net/ark:/88735/10541> (Accessed 2021-05-30)

Koutsoudis, Anestis, Vidmar, Blaž, Arnaoutoglou, Fotis (2013). "Performance evaluation of a multi-image 3D reconstruction software on a low-feature artefact." Included in: *Journal of Archaeological Science*, volume 40, issue 12, pp. 4450-4456 (7 p.) (<https://doi.org/10.1016/j.jas.2013.07.007>)

Meehan, Nicole (2020). "Digital Museum Objects and Memory: Postdigital Materiality, Aura and Value." Included in: *Curator: The Museum Journal*, pp. 1-17 (17 p.) (<https://doi.org/10.1111/cura.12361>)

Morris, Christine, Peatfield, Alan, O'Neill, Brendan (2018). "Figures in 3D: Digital Perspectives on Cretan Bronze Age Figurines." Included in: *Open Archaeology*, volume 4, pp. 50-61 (12 p.) (<https://doi.org/10.1515/opar-2018-0003>)

Pescarin, Sofia. "Virtual reality & cyberarchaeology – virtual museums." Included in: *3D Recording and Modelling in Archaeology and Cultural Heritage: Theory and best practices* (2014). Remondino, Fabio & Campana, Stefano (Eds.), BAR International Series 2598, Oxford: Archaeopress. (pp. 130-134. 5 p.)

Remondino, Fabio & El-Hakim, Sabry (2006). "Image –based 3D Modelling: A review." Included in: *The Photogrammetric Record*, volume 21, issue 115, pp. 269-291. (23 p.) (<https://doi.org/10.1111/J.1477-9730.2006.00383.X>)

Richards-Risetto, Heather & von Schwerin, Jennifer (2017). "A catch 22 of 3D data sustainability: Lessons in 3D archaeological data management & accessibility." Included in: *Digital Applications in Archaeology and Cultural Heritage*, volume 6, pp. 38-48 (11 p.) (<https://doi.org/10.1016/j.daach.2017.04.005>)

Sapirstein, Philip. "Photogrammetry as a tool for architectural analysis: The digital architecture project at Olympia." Included in: *Archaeological Research in the Digital Age: Proceedings of the 1<sup>st</sup> Conference on Computer Applications and Quantitative Methods in Archaeology, Greek Chapter (CAA-GR), Rethymno, Crete, 6-8 March 2014* (2015). Papadopoulos, Constantinos, Paliou, Eleftheria, Chrysanthi, Angeliki, Kotoula, Eleni & Sarris, Apostolos (Eds.), Rethymno: Institute for Mediterranean Studies – Foundation of Research and Technology (IMS-FORTH). (pp. 129-139. 10 p.) (Available as pdf)

### **3. Archaeology, society and ethics, 7,5 credits (ca. 1100 p)**

Harrison, Rodney (2009). *Understanding the Politics of Heritage*. Manchester: Manchester University Press. (336 p.)

Scarre, Chris & Geoffrey Scarre (eds) (2006). *The Ethics of Archaeology: Philosophical Perspectives on Archaeological Practice*. Cambridge University Press. (318 p.).

Tännsjö, Torbjörn (2013). *Understanding Ethics*. 3rd edition. Edinburgh: Edinburgh University Press. (152 p.)

*Additional texts (articles and/or book chapters) of app. 300 pages may be selected by the teacher.*

*Advice on essay-writing:*

<https://student.unsw.edu.au/essay-writing-basics> (Accessed 2021-05-30)

<http://www.writing.utoronto.ca/advice/general/general-advice> (Accessed 2021-05-30)