

Stephen William Merkel, Dr. phil.

(As of 19th of March 2021)

PUBLICATIONS:

MONOGRAPHS:

1. Merkel, S. W. (in press 2021). *Archaeometallurgical Investigations at Elsfleth-Hogenkamp, District of Wesermarsch – A Polymetallic Germanic Goldsmith Workshop of the Roman Iron Age*. Studien zur Landschafts- und Siedlungsgeschichte im südlichen Nordseegebiet 13. Verlag Marie Leidorf. (Text 63,570 words and catalogue 32,890 words)
2. Merkel, S. W. (2016). *Silver and the Silver Economy of Hedeby*. Der Anschnitt Beiheft 33. Verlag Marie Leidorf.

PEER-REVIEWED PUBLICATIONS:

3. Chugaev, A. V., S. W. Merkel and I. E. Zaytseva (in press 2021). 'Lead isotopic characteristics and metal sources for the jewelry in the medieval rural settlements from Suzdal Region (Kievan Rus').' *Metalla* 25(2). (10,850 words)
4. Maass, A., A. Celauro and S. W. Merkel (in press 2021). '«...nunc et in Bergomatium agro...» The zinc mining area in the Dossena-Gorno District near Bergamo as a possible source for Roman Brass.' *Archaeometallurgy in Europe IV Miskolc Hungary*. Monographies Instrumentum, Editions Mergoil. (8,560 words)
5. Merkel, S. W. (2021). 'Calamine of the Bergamasque Alps as a Possible Source of Zinc for Roman Brass: Theoretical Considerations and Preliminary Results.' *Periodico di Mineralogia* 90, 27-39.
6. Standish, C., S. W. Merkel, Y.-T. Hsieh and J. Kershaw (2021). 'Simultaneous lead isotope ratio and gold-bismuth concentration analysis of silver by laser ablation MC-ICP-MS.' *Journal of Archaeological Science* 125, doi.org/10.1016/j.jas.2020.105299.
7. Merkel, S. W. (2019). 'Provenancing Viking-age Silver: Methodological and Theoretical Considerations and a Case Study.' In: *Silver, Butter, Copper, Cloth: Currencies and Value in the Viking Age* edited by J. Kershaw and G. Williams, pp.206-226. Oxford University Press.
8. Merkel, S. W. (2018). 'Archaeometallurgical Investigations of a Viking Brass Ingot Hoard from the Hedeby Harbor in Northern Germany'. *Journal of Archaeological Science Reports* 20, pp.293-302.
9. Merkel, S. W., S. Schlotfeldt and K. Stuckmeyer (2017). 'Gold, Silver and Bronze: Analysis of Three Fragments of Technical Ceramic from Elsfleth-Hogenkamp, Germany.' *Metalla* 23(1), pp.19-28.
10. Merkel, S. W. (2016). 'Carolingian and Ottonian Brass Production in Westphalia: Evidence from the Crucibles of Dortmund and Soest.' *Metalla* 22(1), pp.21-39.
11. Merkel, S. W., A. Hauptmann, T. Kirnbauer and F. Téreygeol (2016). 'Silver Production at al-Radrad: Archaeometallurgical Analysis of Ore, Slag, and Technical Ceramics from Early Medieval Yemen.' *Arabian Archaeology and Epigraphy* 27(1), pp.107-126.
12. Merkel, S. W., A. Hauptmann, V. Hilberg and R. Lehmann (2014). 'Isotopic Analysis of Silver from Hedeby and some nearby Hoards: Preliminary Results.' In *Viking Worlds: Things, Spaces, and Movement* edited by M. H. Eriksen, U. Pedersen, B. Rundberget, I. Axelsen, and H. L. Berg, pp.195-212. Oxbow Books.

OTHER PUBLICATIONS:

13. Merkel, S. W. (in press). 'Recycling – a blessing in disguise: Archaeometallurgy and the role of silver recycling in the early Middle Ages.' In: *Verwerten – Verarbeiten – Verformen*, edited by O. Heinrich-Tamáska and M. Becker. Landesamt für Denkmalpflege und Archäologie, Landesmuseum für Vorgeschichte, Sachsen-Anhalt. (4,680 words)
14. Merkel, S. W. (in press). 'Analytical and Technical Studies of Roman, Byzantine and Early Umayyad Ceramics from Jerash, Jordan.' In: *Danish-German Jerash Northwest Quarter Project - The Pottery. With contributions by S. Merkel*, edited by H. Möller. (7,900 words)
15. Merkel, S. W. and M. Prange, (in press). 'Archaeometric Analysis of Ceramics from Jerash.' In: *Preliminary report of the fifth season of the Danish-German Jerash Northwest Quarter Project 2015*, edited by G. Kalaitzoglou, A. Lichtenberger, H. Möller and R. Raja. Annual of the Department of Antiquities of Jordan. (2,900 words)
16. Merkel, S. W. (in press 2021). 'The Elemental and Lead Isotope Analysis of Brass and other Copper-Based Alloys from Viking Hedeby and High Medieval Schleswig.' In: *Zwischen Wikingern und Hanse – Kontinuität und Wandel des zentralen Umschlagplatzes Haithabu/Schleswig im 11. Jahrhundert*, edited by V. Hilberg. Wachholtz. (13,720 words)
17. Merkel, S. W. (2020). 'The Richness of Silver Ore in the Middle Ages: A Comparative Study of Historical Descriptions and the Archaeological Evidence.' In: *Mittelalterliche Bergbautechnik in historischen und archäologischen Quellen. Ein Workshop zur interdisziplinären Arbeit in der montanhistorischen Forschung*. Der Anschnitt Beiheft 45, edited by L. Asrih, pp.41-46. Verlag Marie Leidorf.
18. Merkel, S. W. (2020). 'Archaeometallurgical Study of Two Carolingian-Ottonian Disc Brooches from Elsfleth-Hogenkamp, Germany.' In: *Metallurgica Anatolica: Festschrift für Ünsal Yalcin*, edited by H. G. Yalcin and O. Stegemeier, pp.357-363. Yayınları.
19. Merkel, S. W. (2019). 'Ceramic Petrography of Locally Produced Byzantine/Umayyad Pottery from Jerash.' In: *Byzantine and Umayyad Jerash Reconsidered: Transitions, Transformations, Continuities*, edited by R. Raja and A. Lichtenberg, pp.229-238. Brepols.
20. Folkers, A., H. Jöns, S. W. Merkel, S. Schlotfeldt, A. Siegmüller, K. Struckmeyer and S. Wolters (2018). 'Römisch-germanische Kontakte an der Huntemündung? Fragestellungen, Methoden und erste Ergebnisse aktueller interdisziplinärer Forschungen am Ufermarkt von Elsfleth-Hogenkamp und seinem Umfeld.' In: *Phantom Germanicus*. Osnabrücker Forschungen zu Altertum und Antike-Rezeption, edited by S. Burmeister, pp.335-360. Verlag Marie Leidorf.
21. Merkel, S. W. (2018). 'Archaeometallurgical Analysis of Metalworking Debris from a Germanic Goldsmithing Workshop at Elsfelth-Hogenkamp, 2nd-3rd Century AD.' In: *Archäometrie und Denkmalpflege 2018*, edited by L. Glaser, pp.95-98. Verlag Deutsches Elektronen-Synchrotron.
22. Merkel, S. W. (2017). 'Between the Bronze Age and the Middle Ages: New Investigations of Slag from Panjhir, Afghanistan.' In: *The RITaK Conferences*. Der Anschnitt Beiheft 34, edited by P. Eisenach, Th. Stöllner and A. Windler, pp.271-283. Verlag Marie Leidorf.
23. Merkel, S. W., B. Bräutigam, S. Klein and A. Hauptmann (2015). 'The Analysis of Slag from the Panjhir Mining Region, Afghanistan: An Investigation of (Medieval) Silver Production Technology.' *Archäologische Mitteilungen aus Iran und Turan* 45, pp.231-249.

24. Merkel, S. W. (2013). 'The Relationship of Hacksilver and Minting in 10th Century Southern Scandinavia.' *Metalla* 20(2), pp.75-79.
25. Merkel, S. W., L. Sverchkov, A. Hauptmann, V. Hilberg, M. Bode and R. Lehmann (2013). 'Analysis of Slag, Ore and Silver from the Tashkent and Samarkand Areas: Medieval Silver Production and the Coinage of Samanid Central Asia.' *Archäometrie und Denkmalpflege 2013*. Metalla Sonderheft 6, pp.62-66. Deutsches Bergbau-Museum, Bochum.
26. Merkel, S. W., A. Hauptmann and V. Hilberg (2012). 'Analysis of Technical Ceramics from Haithabu: Gold and Silver-smithing in the Viking Age.' *Archäometrie und Denkmalpflege 2012*. Metalla Sonderheft 5, pp.106-109. Deutsches Bergbau -Museum, Bochum.
27. Merkel, S. W. and Th. Rehren (2007). 'Parting Layers, Ash-Trays, and Ramsesside Glassmaking: an Experimental Study.' In *Hochtemperatur-Technologie in der Ramses-Stadt- Rubinglas für den Pharao* edited by Edgar B. Pusch and Thilo Rehren, pp.201-221. Gerstenberg-Verlag.

CONTRIBUTIONS:

28. Merkel, S. W. (2016). 'The Analysis of Two Crucibles from Sipplingen, Germany: Chalcopyrite Smelting in the Neolithic?' Contribution in: 'Zum Einsetzen der "Gusstiegelmetallurgie" im nördlichen Voralpengebiet. Verbreitung, Datierung und Formen der Gusstiegel im 4. Jahrtausend v. Chr.' by I. Matuschik. In: *From Bright Ores to Shiny Metals: Festschrift für Andreas Hauptmann*. Der Anschnitt Beiheft 29, edited by G. Körlin and U. Yalcin, pp.62-68. Deutsches Bergbau-Museum, Bochum.

PROFESSIONAL REPORTS:

29. Merkel, S. W., J. Kershaw and J. Oravijärvi (2020). Elemental and Lead Isotope Analysis of Viking-Age Silver from the Swedish Historical Museum. Submitted to the Swedish Historical Museum (9,990 words)
30. Kershaw, J. and S. W. Merkel (2020). The Galloway Hoard: Elemental and Isotopic Analyses. Submitted to the National Museum of Scotland. (13,620 words)
31. Merkel, S. W. (2020). Report on the analysis of early medieval lead and silver from Prague Castle, Libice and Mikulčice, Czech Republic. Submitted to the Institute of Archaeology, Czech Academy of Science, Prague. (4,240 words)
32. Kershaw, J. and S. W. Merkel (2019). Lead isotope analysis of lead objects from early medieval York. Submitted to the York Archaeological Trust. (2,480 words)
33. Merkel, S. W. and J. Kershaw (2019). Report: Analysis of Anglo-Saxon and Anglo-Viking Issue Coins from the British Museum. Submitted to the British Museum. (6,790 words)
34. Merkel, S. W. and R. Adler (2011). Bandelier National Monument Stabilization Report: Frijoles Canyon Cavate Conservation Program, 2010. Manuscript on file, National Park Service, Bandelier National Monument, Los Alamos, New Mexico. (307 pages)
35. Merkel, S. W. (2011). Bandelier National Monument Stabilization Report: Tsankawi Cavate Conservation Project, 2009. Manuscript on file, National Park Service, Bandelier National Monument, Los Alamos, New Mexico. (326 pages)

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36. Merkel, S. W. (2008). Bandelier National Monument Stabilization Report: Masonry Stabilization at Tyuonyi Pueblo, 2008. Manuscript on file, National Park Service, Bandelier National Monument, Los Alamos, New Mexico. (62 pages)

BOOK REVIEWS:

37. Merkel, S. W. (in press 2020). Review: The Perm/Glazov rings: Contact and Economy in the Viking Age between Russia and the Baltic Region. Birgitta Hårdh. Acta Archaeologica Lundensia 8°, No. 67. Lund 2016. 70 pp. ISBN 978-91-89578-70-8. *Fornvännen*. (1,320 words)

EDITED VOLUMES:

38. Metalla 25(2) (in press) edited by S. W. Merkel and I. Löffler
39. Metalla 25(1) (2019, published 2020) edited by S. W. Merkel and I. Löffler
40. Metalla Sonderheft 9 (2019) edited by C. Herm, S. W. Merkel, M. Schreiner and R. Wiesinger, Archäometrie und Denkmalpflege 2019: Jahrestagung an der Akademie der Bildenden Künste Wien, Institut für Naturwissenschaften und Technologie in der Kunst, 11.-14. September 2019, Deutsches Bergbau-Museum, Bochum.
41. Metalla 24(2) (2018, published 2019) edited by S. W. Merkel and I. Löffler
42. Metalla 24(1) (2018) edited by S. W. Merkel
43. Metalla 23(2) (2017) edited by S. W. Merkel
44. Metalla 23(1) (2017) edited by S. W. Merkel
45. Metalla 22(2) (2016) edited by S. W. Merkel
46. Metalla 22(1) (2016) edited by S. W. Merkel