

# Marianne Mödlinger

## Vorträge und Tagungsorganisation

(Stand 11/2024)

### 1. Präsentationen bei internationalen Tagungen

- 10/2024 METALAGES2024 – Chronological Methods and their Correlation in the Metal Ages, **Florence, Italy**  
*Combining electrochemical techniques for characterizing archaeological bronzes*  
(gemeinsam mit: L. Osete Cortina, A. Doménech-Carbó, T. Doménech-Carbó)
- 12/2024 Expolio y tráfico ilícito de bienes arqueológicos. Técnicas de análisis, estrategias de lucha, organized by the Government of Aragón, University of Zaragoza, National Police and Guardia Civil, **Zaragoza, Spain**  
*Ukrainian cultural heritage for sale in Europe: some examples from before and after the Russian invasion*
- 08/2024 Annual meeting of the European Association of Archaeologists, **Rome, Italy**  
*Documentation and analyses of 11<sup>th</sup>-12<sup>th</sup> century bronze and brass doors*  
(gemeinsam mit: M. Fera, J. Utz, G. Ghiara)
- 06/2024 6th International Conference Archaeometallurgy in Europe, **Falun, Sweden**  
*Doors to Paradise: the manufacture of bronze and brass doors from the 11<sup>th</sup>-12<sup>th</sup> century*  
(gemeinsam mit: M. Fera, J. Utz, G. Ghiara)
- 02/2024 1. Fachseminar "Historisches trifft Materialkunde", **Quedlinburg, Germany**  
*Studien zur Herstellung von Bronze- und Messingtüren im 11.-12. Jahrhundert*
- 09/ 2023 Workshop "Gates to Paradise. Medieval Bronze Doors and Their Making", 25-26 September 2023, **Verona, Italy**.  
*Preliminary results of the chemical analyses of bronze doors from the 11th-12th century*  
(co-author: G. Ghiara)
- 09/ 2023 Annual meeting of the European Association of Archaeologists, **Belfast, Northern Ireland**  
*How does archaeological expertise support the antiquities market?*
- 09/ 2023 Annual meeting of the European Association of Archaeologists, **Belfast, Northern Ireland**.  
*A database of European Bronze Age body armour*
- 05/ 2023 13<sup>th</sup> International Congress on the Archaeology of the Ancient Near East, **Copenhagen, Denmark**  
*Silvery daggers from Koban and Chmi: their secret untangled* (co-authors: Elyse Canosa, Giorgia Ghiara, Angelica Salanitro, Pietro Manfrinetti, Marei Hacke, Stefano Trasatti)
- 09/ 2022 Annual meeting of the European Association of Archaeologists, **Budapest, Hungary**  
*Monumental bronzes of the 11<sup>th</sup>-12<sup>th</sup> century: the case of bronze doors* (co-authors: Francesco Abate, Mauro Bernabei, Jarno Bontardi, Martin Fera, Heike Schlie, Judith Utz)
- 07/ 2022 XLVIII National Congress of Physical Chemistry. Physical Chemistry and the Challenges of the Ecological Transition, **Genoa, Italy**  
*Crystal chemistry and thermodynamics of Cu<sub>3</sub>As: the actual structure and physical properties* (co-authors: Alessia Provino, Marcella Pani, Daniele Macciò, Michele Ceccardi, Andrea Ciccioni, Pietro Manfrinetti).
- 09/ 2021 XXVII Congresso Nazionale della Società Chimica Italiana (SCI), **Online meeting**  
*Structures and phase equilibria in the ternary Cu-As-Sb system (a preliminary investigation)* (co-authors: M. Pani, D. Macciò, A. Ciccioni, P. Manfrinetti, M. Ferretti),
- 08/ 2021 Annual meeting of the European Association of Archaeologists, **Kiel, Germany**  
*Multiple-scan voltammetry: an archaeometric tool for dating archaeological bronzes*, EAA Annual Meeting in (co-authors: A. Doménech-Carbó and M.T. Doménech-Carbó)

- 10/ 2020 *European Bronze Age defensive armour: analyses and development.* APRAB: Âge du Bronze, Âge de Guerre, **Ajaccio-Porticcio, Corsica**
- 08/ 2020 Annual meeting European Association of Archaeology. **Online meeting.**  
*Copper mining in lower Austria: the case of Prigglitz*
- 08/ 2020 Annual meeting European Association of Archaeology. **Online meeting.**  
*Formulating a Code of Ethics for the scientific analysis of archaeological materials*
- 09/ 2019 Annual meeting of the European Association of Archaeologists, **Bern, Schweiz**  
*De-colonisation: current trends in European politics in restitution cultural heritage*
- 09/ 2019 Annual meeting of the European Association of Archaeologists, **Bern, Schweiz**  
*Cooperation in archaeometallurgy: the case of the Late Bronze Age mining site of Prigglitz-Gasteil (Austria)*
- 06/ 2019 Archaeometallurgy in Europe V, **Miskolc, Ungarn**  
*The Late Bronze Age mining site at Prigglitz-Gasteil, Austria*
- 09/ 2017 Annual meeting European Association of Archaeology, **Maastricht, Niederlande**  
*An appeal for better publication strategies between archaeologists and scientists*
- 05/ 2017 Annual meeting UISPP-committee Archaeometry of Pre- and Protohistoric Inorganic Artifacts, Materials and Technologies, **Pavia, Italien**  
*Chemical and metallurgical aspects of arsenical bronze: the case of arsenic-loss in prehistoric metal production*
- 04/ 2017 XXI<sup>e</sup> Colloque du GMPCA, Université de **Rennes, Frankreich** (Poster)  
*Chemical and metallurgical aspects of arsenical bronze: inverse segregation in prehistoric Cu-As objects*
- 09/ 2015 Annual meeting of the European Association of Archaeology, **Glasgow, Großbritannien**  
*Metal Body Armour in the European Bronze Age: Manufacture and Usage*
- 06/ 2015 4<sup>th</sup> International Conference of Archaeometallurgy in Europe, **Madrid, Spanien**  
*European Bronze Age defensive armour: analyses and development*
- 09/ 2014 Annual meeting of the European Association of Archaeologists, **Istanbul, Türkei**  
*Bronze Age Defensive Armour in Eastern Europe: Analyses and Archaeological Studies*
- 04/ 2013 XIX<sup>e</sup> Colloque du GMPCA, Université de Caen Basse-Normandie, **Caen, Frankreich**  
*Production of Bronze Age defensive armour in Eastern Europe: analyses and archaeological studies*
- 10/ 2012 Bronze Age Crafts and Craftsmen in the Carpathian Basin, **Târgu Mureş, Rumänien**  
*Manufacture of Bronze Age defensive armor in Eastern Europe*
- 11/ 2011 'Imaging in Conservation', ICON – Institute of Conservation, **Oxford, Großbritannien**  
*Bronze Age Weapons: examples of 3D-Computed Tomography in archaeology*
- 04/ 2010 Materials, techniques and diagnostics in Cultural Heritage, Università degli Studi di Genova, **Genova, Italien**  
*Metallographic impacts on the archaeological interpretation of prehistoric finds: some case studies*
- 11/ 2009 Archaeometallurgy: technological, economic and social perspectives in late prehistoric Europe (TESME), Centro de Ciencias Humanas y Sociales, Instituto de Historia, **Madrid, Spanien**  
*Multidisciplinary Analyses on Austrian Bronze Age Swords: from Stabbing to Cut- and Thrust Weapons*
- 10/ 2009 Guerra ed Aristocrazia nell'Italia dell'Età del Bronzo, Università degli Studi di Padova, **Padua, Italien**  
*Analisi interdisciplinari sulle spade austriache dell'età del bronzo: evoluzione, costruzione e utilizzo*
- 06/ 2007 2<sup>nd</sup> International Conference of Archaeometallurgy in Europe, Associazione Italiana di Metallurgia, **Grado/Aquileia, Italien**  
*Manufacture and use of Bronze Age swords. Multidisciplinary investigation of Austrian metal hilted and organic swords.*

- 06/ 2006 Tagung der AG Bronzezeit, Deutsche Gesellschaft für Ur- und Frühgeschichte, **Xanten, Deutschland**  
*Herstellung und Verwendung mittel- und spätbronzezeitlicher Schwerter Mitteleuropas*
- 09/ 2003 1<sup>st</sup> International Conference of Archaeometallurgy in Europe, Associazione Italiana di Metallurgia, **Mailand, Italien**  
*An early middle-age trove of a smith's findings*

## 2. Vorträge auf Einladung

- 01/ 2024 Centro Nacional de Investigaciones Metalúrgicas (CENIM – CSIC), **Madrid, Spain**  
*Documentation and analyses of 11th-12th century European bronze and brass doors*
- 02/ 2024 Mikroskopie Gesellschaft **Österreich, Austria** (online)  
*Optical Light Microscopy: aspects of archaeometallurgical research*
- 11/ 2023 Universität Innsbruck, Institut für Archäologien, **Innsbruck, Österreich**  
*Türen ins Paradies: Studien zur Herstellung von Bronze- und Messingtüren im 11.-12. Jahrhundert*
- 11/ 2023 Universität Salzburg, IMAREAL, **Krems a.d. Donau, Österreich**  
*Bronzetüren des 11.-12. Jahrhunderts in Europa: Dokumentation, Analyse und Auswertung*
- 11/ 2022 Universität **Freiburg, Deutschland**  
*Bronzefunde analysieren: alte und neue Methoden*
- 05/ 2022 Universität **Göttingen, Deutschland**  
*Analyse prähistorischer Bronzen: alte und neue Ansätze*
- 05/ 2022 **EUROPOL – PANDORA**, VII Cyber Patrol Bruxelles/online:  
*Scientific Expertise of Cultural Heritage on the Market: For Good and/or Evil?*
- 01/ 2021 Universität **Frankfurt, Deutschland** (Colloquium Praehistoricum): *Schutzwaffen in der Europäischen Bronzezeit: Herstellung und Funktion*
- 03/ 2021 Universität **Salerno, Italien** (serie Archeologia e Professione): *Studies on Bronze Age metal sheet working*
- 03/ 2019 Norwegian Institute in Rome, **Rom, Italien**  
*Warfare and conflict during the Bronze Age: Case studies from the Mediterranean and beyond*
- 07/ 2018 Institut für Archäologische Wissenschaften, Ruhr-Universität **Bochum, Deutschland**  
*Schutz und Zier: Herstellung und Funktion bronzezeitlicher Schutzwaffen*
- 11/ 2017 Institute for Culture and Society, Aarhus University, **Aarhus, Dänemark**  
*European Bronze Age defensive armour: aspects of production and usage*
- 10/ 2017 National Museum of Denmark, **Copenhagen, Dänemark**  
*Peacebuilding strategies in prehistory: political intermarriage and women mobility*
- 10/ 2017 Deutsches Archäologisches Institut (DAI), **Berlin, Deutschland**  
*Schutzwaffen der europäischen Bronzezeit: Typologie, Chronologie, Herstellung und Verwendung*
- 05/ 2017 MIT – Massachusetts Institute of Technology, **Boston, USA**  
*Exploring ancient metal technologies: modern day applications*
- 02/ 2016 Department of Archaeology, University College **Cork, Irland**  
*Manufacture and use of Bronze Age armour*
- 01/ 2016 Landesmuseum für Vorgeschichte, **Halle, Deutschland**  
*Kampf und Bewaffnung in der Bronzezeit*
- 10/ 2015 Le indagini degli investigatori dell'arte e dell'archeologia continuano... Nuovi interrogativi aspettano i nostri detective!, Università di **Torino, Italien**  
*Vero o falso? Indagini su bronzi archeologici con provenienza sconosciuta*
- 12/ 2014 Plenarsitzung des Clusters 2 (Innovationen: technisch, sozial), Deutsches Archäologisches Institut, **Berlin, Deutschland**  
*Technische Untersuchungen bronzezeitlicher Schwerter*

- 10/ 2014 Metallurgy in Warfare - a spur to innovation and development. The Historical Metallurgy Society, **Salisbury, Großbritannien** (zusammen mit Dr. B. Molloy):  
*Avant-garde? A techno-social perspective on the birth of the sword in the Bronze Age*
- 06/ 2014 Konflikt und Innovation. Technische Innovation und Kriegsführung in vor- und frühgeschichtlicher Zeit, RGK **Frankfurt, Deutschland**  
*Technik und Funktion bronzzeitlicher Schutz Waffen*
- 06/ 2013 Dipartimento dei Beni Culturali: archeologia, storia dell'arte, del cinema e della musica, Università degli Studi di **Padova, Italien**  
*Analisi su bronzi preistorici: l'armamento dell'età del Bronzo*
- 05/ 2013 Ciclo de Conferências de **Mação, Portugal**. Instituto Terra e Memória  
*Production of Bronze Age defensive armour in Eastern Europe*
- 04/ 2013 Budapest Neutron Centre, **Budapest, Ungarn**  
*Analyses on prehistoric Bronzes: Bronze Age arms and armour*
- 06/ 2011 CHARISMA user meeting (FP-7 funding), C2RMF/Louvre, **Paris, Frankreich**  
*Bronze Age usage and development of defensive armour in Hungary*
- 10/ 2009 Internationale Tagung 'Warfare in Bronze Age Europe: Manufacture and Use of Weaponry', Naturhistorisches Museum, **Wien, Österreich**  
*Manufacture and Usage of European Bronze Age swords.*
- 05/ 2009 Gesellschaft für Archäologie in Oberösterreich, **Linz, Österreich**  
*Bronzezeitliche Schwerter aus Oberösterreich: Herstellung und Gebrauch*

### 3. Präsentationen bei internationalen Tagungen (nicht Vortragende), Poster

- 09/2024 N. Cavallini, G. Ghiara, M. Mödlinger, F. Savorani, *From bronze to brilliance: chemometrics opens new doors*. XIX CAC 2024. Chemometrics in Analytical Chemistry, **Santa Fe, Argentina**
- 08/2024 **Poster:** M. Mödlinger, L. Osete Cortina, A. Domenech-Carbo, M.T. Domenech-Carbo. *Mott-Schottky analysis as an archaeometric tool for studying archaeological bronzes*. Annual meeting of the European Association of Archaeologists, **Rome, Italy**
- 06/2024 A. Provino, S. Singh, I. Pallecchi, F. Cagliaris, M. Mödlinger, P. Mele, G. Latronico, T. Takeuchi, P. Manfrinetti. *The new PrNi6Si6 intermetallic: crystal structure, thermal and electrical transport properties in the temperature range 2 - 900 K*. 24th International Conference on Solid Compounds of Transition Elements, **Prague, Czech Republic**
- 06/2024 Manfrinetti, M. Mödlinger, A. Provino, P. Solokha, S. De Negri, F. Cagliaris, M. Ceccardi, C. Bernini. *Crystallochemistry, thermodynamic and physical properties of the novel intermetallic compound Cu<sub>3-x</sub>(As,Sb)*, 24th International Conference on Solid Compounds of Transition Elements, **Prague, Czech Republic**
- 06/2024 **Poster:** M. Mödlinger, L. Osete Cortina, A. Domenech-Carbo, M.T. Domenech-Carbo. *Mott-Schottky analysis from impedance data as archaeometric tool*. 6th International Conference Archaeometallurgy in Europe, **Falun, Sweden**.
- 06/2024 **Poster:** M. Mödlinger, G. Ghiara, E. Canosa, M. Hacke, P. Manfrinetti. *Cu<sub>3</sub>As surface layer on archaeological bronzes: human-induced formation or natural corrosion phenomena?* 6th International Conference Archaeometallurgy in Europe, **Falun, Sweden**
- 10/ 2023 **Poster:** M. Mödlinger, J. Bontardi, M. Negri, M. Fellin, M. Fera, G. Ghiara, H. Schlie, J. Utz. *Gates to paradise: analysing metal doors and their wooden support from the 11th-12th century churches*. Materiality and Virtuality. Entanglements of Material and Virtual Worlds in Medieval and Early Modern Material Culture", 19.-21. September 2023 in **Krems/Donau, Österreich**.

- 09/ 2023 G. Ghiara, M. Mödlinger, E. Canosa, A. Salanitro, P. Manfrinetti, M. Hacke, S. Trasatti, *The phenomenon of "Arsenification": the oldest intentional metal surface alteration*, EUROCORR, **Brüssel, Belgien**
- 09/ 2023 P. Manfrinetti, M. Mödlinger, A. Provino, P. Solokha, C. Bernini, F. Cagliaris, M. Ceccardi, D. Macciò, D. Cavallo, M. Pani, *Uncommon crystallographic features and phase transitions in Cu<sub>3</sub>As*, XV International Conference on Crystal Chemistry of Intermetallic Compounds, **Lviv, Ukraine**
- 09/ 2023 **Poster:** M. Fera, M. Mödlinger, H. Schlie, J. Utz, G. Ghiara, M. Negri, J. Bontadi, M. Fellin, *Gates to Paradise: analysing metal doors and their wooden support from 11<sup>th</sup>-12<sup>th</sup> century churches*, Annual meeting of the European Association of Archaeologists, **Belfast, Nordirland.**
- 09/ 2023 **Poster:** M. Mödlinger, L. Osete Cortina, A. Doménech-Carbó, M. T. Doménech-Carbó, *Dating archaeological bronzes: Multiple-scan voltammetry (VIMP)*, Annual meeting of the European Association of Archaeologists, **Belfast, Nordirland.**
- 04/ 2023 **Poster:** M. Mödlinger, J. Bontardi, M. DeNegri, M. Fellin, M. Fera, G. Ghiara, S. Makhortykh, H. Schlie, J. Utz, *Monumental bronzes of the 11<sup>th</sup>-12<sup>th</sup> century: documentation and analyses of bronze doors*, XXIVe colloque du GMPCA: Archéométrie 2023, **Nizza, Frankreich.**
- 04/ 2023 **Poster:** M. Mödlinger, L. Osete Cortina, A. Doménech-Carbó, M. T. Doménech-Carbó, *Multiple-scan voltammetry: a successful tool for dating archaeological bronzes* XXIVe colloque du GMPCA: Archéométrie 2023, **Nizza, Frankreich.**
- 09/ 2021 G. Ghiara, A. Salanitro, M. Mödlinger, J. Vernet, S. Trasatti. *CuAs, a highly corrosion resistant copper alloy in early metallurgy: preliminary evaluation*. EUROCORR, **Budapest, Ungarn.**
- 06/ 2021 A. Salanitro, G. Ghiara, M. Mödlinger, S. Trasatti, *Comportamento elettrochimico di bronzi archeologici arsenicali funzione della concentrazione dell'arsenico presente in lega*. *Associazione Italiana di Metallurgia (AIM), XIV edizione delle Giornate Nazionali sulla Corrosione e Protezione*, June-July 2021, **Turin, Italien.**
- 10/ 2017 **Poster:** M. Mödlinger, W. Kockelmann, E. Godfrey, *Neutron diffraction analyses of Bronze Age swords from the Alpine region: benchmarking neutron diffraction against laboratory methods*. Neutron Imaging and Neutron Methods in Archaeology and Cultural Heritage (NINMACH 2017) conference, **Budapest, Ungarn.**

#### 4. Organisation von Tagungen und sessions bei internationalen Tagungen

- 08/ 2024 Annual meeting of the European Association of Archaeologists, **Rome, Italy**.  
Session: Making the Most of What We've Got: Activating Museum Collections, Monuments and Built Heritage (gemeinsam mit: B. Ebert, D. Mooney, H. Hollund, J. Walser).
- 08/ 2024 Annual meeting of the European Association of Archaeologists, **Rome, Italy**.  
Session: Assessing damage caused to archaeological heritage: Expectations and Reality (gemeinsam mit: Irina Oļevska-Kairiša, Andris Kairis).
- 09/ 2023 Tagung: Gates to Paradise. Medieval Bronze Doors and Their Making, 25-26 September 2023, San Zeno, **Verona, Italien.**
- 09/ 2023 Annual meeting of the European Association of Archaeologists, **Belfast, Nordirland**.  
Session: Repositories and datasets as operational tools in countering the illicit trafficking of cultural goods (gemeinsam mit: A. Traviglia, M. De Bernardin).
- 07/ 2023 International Congress on the Study of the Middle Ages, **Leeds, Vereinigtes Königreich**.  
Session: *Linking medieval bronze doors: making, sensing, documentation.*

- 08/ 2022 Annual meeting European Association of Archaeology, **Budapest, Ungarn**. Session: *Protecting the past is the key to the future: Rights of archaeological heritage stakeholders and social justice* (gemeinsam mit: A. Kairiss, I. Olevska).
- 08/ 2021 Annual meeting European Association of Archaeology, **Kiel, Deutschland**. Round table: *Expanding horizons: decolonisation, contested ownership of archaeological material, and the 1970 UNESCO Convention on cultural property* (gemeinsam mit: E. Godfrey und I. Josten)
- 08/ 2021 Annual meeting European Association of Archaeology, **Kiel, Deutschland**. Session: *Protecting archaeological heritage in the globalisation era: trends, challenges, solutions* (gemeinsam mit: A. Kairiss, E. Bernard, I. Olevska).
- 10/ 2020 Mitglied der wissenschaftlichen Kommission: APRAB (Actualités de l'âge du Bronze): *Âge du Bronze, Âge de Guerre*, 14.-17. Oktober 2020, Ajaccio-Porticcio, **Korsika, Frankreich**
- 09/ 2019 Annual meeting European Association of Archaeology, **Bern, Schweiz**. Session: *Decolonisation at EAA 25 years on: The social-economic contribution of cultural heritage conservation* (gemeinsam mit: E. Godfrey, I. Joosten)
- 09/ 2019 Annual meeting European Association of Archaeology, **Bern, Schweiz**. Session: *Illegal obtaining and trade of archaeological artefacts: status quo and counteraction* (gemeinsam mit: M. Črešnar, G. Caspari, A. Kairiss)
- 09/ 2017 Annual meeting European Association of Archaeology, **Maastricht, Niederlande**. Session: *Archaeology on sale: how to prevent official selling of illegally excavated objects* (gemeinsam mit: M. Črešnar, M. Fernández-Götz, A. Kairiss)
- 09/ 2016 Annual meeting European Association of Archaeology, **Vilnius, Litauen**. Session: *Illicit trafficking of Cultural Heritage: different strategies to fight it* (gemeinsam mit: M. Črešnar, M. Fernández-Götz, M. Van Cant, C. Tsirogiannis)
- 09/ 2015 Annual meeting of the European Association of Archaeology, **Glasgow, Großbritannien**. Session: *Sellout of our past: different strategies of how to deal with illicit trafficking of European Cultural Heritage* (gemeinsam mit: M. Hegewisch)
- 09/ 2015 Annual meeting European Association of Archaeology, **Glasgow, Großbritannien**. Session: *Recycling things and ideas: linking scientific, archaeological and conceptual approaches to the reuse of materials in the past* (gemeinsam mit: P. Bray, C. Duckworth, A. Cuenod)
- 06/ 2015 Mitglied der wissenschaftlichen Kommission: *4<sup>th</sup> International Conference of Archaeometallurgy in Europe*, **Madrid, Spanien** (Universidad Autónoma de Madrid).
- 10/ 2009 Tagung: *Warfare in Bronze Age Europe: Manufacture and Use of Weaponry. An Interdisciplinary Research on Technology and Utilisation of Archaeological Finds* (gemeinsam mit M. Uckelmann), Natural History Museum, **Wien, Österreich**.
- 09/ 2009 Annual meeting European Association of Archaeology, **Riva del Garda, Italien**. Session: *New Approaches on Studying Weaponry of the European Bronze Age* (gemeinsam mit M. Uckelmann)