

Curriculum Vitae

1. MARIANNE MÖDLINGER

Date and place of birth: May 30, 1980 in Graz, Austria
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 Tel.: 0039 340 1388 506
 ORCID ID: orcid.org/0000-0002-7813-7846
 Language skills: German (mother tongue), English and Italian (C2), and French (A2/B1)
 Children: one daughter, born 2004; one son, born 2018

2. EDUCATION

03/2023 **PhD** in Material Science (*Scienze e Tecnologie della Chimica e dei Materiali*), University of Genoa, Italy; Thesis: ‘*Determination of the Cu-As-(Sb, Ni) phase diagrams*’. Supervisor: Prof. P. Manfrinetti
 04/2017 **Habilitation** in archaeology, *Ministero dell'Istruzione, dell'Università e della Ricerca*, Italy
 National Scientific Habilitation as Associate Professor (*Professore di Seconda Fascia*) in Italy (sector 10/A1-Archaeology; Bando D. D. 1532/2016)
 07/2007 **Dr. phil.** in Prehistoric and Historical Archaeology, University of Vienna, Austria; passed with honours. Thesis: ‘*Manufacture and Use of Austrian Bronze Age Swords – a Study of Bronze Age Weaponry and Social Structure*’. Supervisor: Prof. G. Trnka
 11/2002 **Mag. phil.** in Prehistoric and Historical Archaeology, University of Vienna, Austria; passed with honours. Thesis: ‘*Metallographic Analyses of an early medieval Trove of a Smith's Findings of Buschberg, Lower Austria*’. Supervisor: Prof. F. Daim
 Modules studied include: anthropology and classical archaeology at the University of Vienna; hunting and wild farming at the University of Natural Resources and Life Sciences, Vienna; archaeometry and archaeometallurgy at the Freiberg University of Mining and Technology, Germany.

3. CURRENT AND PREVIOUS POSITIONS

12/2022 – current, University of **Genoa, Italy**
 Postdoctoral research associate (part-time) and PI of the project no. 101018804 ‘*Cu-As-(Sb, Ni) systems: Determination of phase diagrams*’, Marie Skłodowska-Curie IEF Fellowship
 01/2023 – current, University **Innsbruck, Austria**
 Postdoctoral research associate (part-time) and PI of the FWF-funded project P 34960-G, ‘*Electrochemical age determination of archaeological bronzes*’
 01/2022 – current, IMAREAL, University **Salzburg, Austria**
 Postdoctoral research associate (part-time) and PI of the FWF-funded project P 34477-G, ‘*Gates to Paradise: Creating metal doors for 11th-12th century churches*’
 11/2017 – 12/2021, Danube University **Krems, Austria**
 Postdoctoral research fellow (part-time), FWF-funded project no. P-30289 (responsible of the project ‘*Life and Work at the Bronze Age Mine of Prigglitz*’: Dr. P. Trebsche), responsible for metal analyses
 09/2017 – 10/2017, Deutsches Archäologisches Institut (DAI), **Berlin, Germany**
 Postdoctoral research fellow (full-time), Exzellenzcluster 264 TOPOI
 07/2015 – 06/2017, Université Bordeaux Montaigne, **Bordeaux, France**
 Postdoctoral research associate (full-time) and PI of the project ‘*Chemical and metallurgical aspects of arsenical bronze: the case of arsenic-loss in prehistoric metal production*’, Marie Skłodowska-Curie IEF Fellowship
 07/2014 – 06/2015, University of **Genoa, Italy**
 Associate (part-time): metallographic analyses of bronze objects.
 07/2011 – 06/2014, University of **Vienna, Austria** and University of **Genoa, Italy**
 PI and Postdoctoral research associate (full-time): EU-funded Framework 7 Marie-Curie Action project, co-financed by the Austrian FWF ‘*Development, technology and usage of Bronze Age armour*’ (www.mmoedlinger.eu/04-project)
 10/2008 – 03/2011, Landesmuseum Kärnten, **Klagenfurt, Austria**
 Employee (full-time; break for ‘MOEL-Plus’ fellowship in 2010): Studies on Bronze and Iron Age finds.
 10/2007 – 06/2008, BMWF and ÖFG, **Vienna, Austria**

- fellow (full time); BMWF Austria (Forschungsstipendium Archäologie) and ÖFG, Austria (MOEL-Plus) on ‘*Manufacture and Usage of Bronze Age arms and tools in the Baltic States*’
- 01/2007 – 09/2007, University of **Vienna, Austria**
Employee (part-time): inventory of the collection of the Department for Prehistoric and Early Historic Archaeology
- 01/2005 – 12/2006, University of **Vienna, Austria**
fellow (full-time): Metallographic analyses of selected Bronze Age swords
- 2005; 2007, University of **Vienna, Austria**
Teaching and student advisor (part-time) – Department of Prehistory and Historical Archaeology
- 01/1999 – 05/2004, Vienna Institute of Archaeological Sciences, University of **Vienna, Austria**
Employee (part-time): metallographic analyses of bronze objects.
- 01/1999 – 11/2003, Stadtarchäologie Wien, University of **Vienna, Austria**
Employee (part-time): fieldwork and artefact studies (Austria, Slovenia).

4. MAIN AREAS OF RESEARCH

Research field:	Archaeology <ul style="list-style-type: none"> • Manufacture, usage, and social impact of metal objects; • Social structures, trading contacts and networks in the Bronze Age; • Prehistoric warfare and weaponry. Archaeometry <ul style="list-style-type: none"> • Archaeometallurgy (especially of copper alloys), metallography, chemical analyses, isotope analyses. Material Science <ul style="list-style-type: none"> • Building phase diagrams (DTA, XRD, SEM-EDXS, metallography)
Time period:	Chalcolithic, Bronze Age, Iron Age, Middle Ages
Geographical area:	Central, Eastern and Southern Europe; Mediterranean
Further activities:	As the president of the <i>Community on the Illicit Trade of Cultural Material</i> of the <i>European Association of Archaeologists</i> I am very much engaged against the trafficking and illegal trade of archaeological objects; I am also responsible for the committee’s blog: www.heritage-lost-eea.com and cooperate as an archaeological expert also with EUROPOL.

5. RESEARCH PROJECTS FUNDED

During my PhD-study I started to organize, lead and carry out my own research projects funded by Austrian research institutions and the European Union. The projects included cooperation with museums, universities and research institutions in **Europe and Russia. For all projects named, I was the project leader/PI.**

The total amount of funding I raised so far is **over € 1,550,000**. I am the first Austrian archaeologist who received a ‘Schrödinger fellowship’. I have also received four grants total, the highest number received by a single scholar, of the FP-7 CHARISMA fellowship, cooperating with researchers at the Budapest Neutron Centre, the British Museum, and the C2RMF/Louvre.

Duration	Funding agency / details	funding granted	Details / Topic
12/2022–11/2025	Marie Skłodowska-Curie CAR-Fellowship (no. 101018804)	275,210 €	Building of phase diagrams CuAs-(Sb, Ni)
01/2023–12/2024	FWF (no. P 34960-G)	218,785 €	Electrochemical age determination of bronzes
01/2022–12/2024	FWF (no. P 34477-G)	389.733 €	Material analyses (chemical, isotopes, metallography) of medieval bronze doors
		54,022 €	extra funding (FWF)
09/2022	IPERON-HS	c. 5,000 €	Corrosion studies on Cu-As alloys
07/2015–07/2017	Marie Skłodowska-Curie IEF-Fellowship (no. 656244)	185,076 €	Chemical and metallurgical aspects of arsenical bronze
2016 – 2017	Fritz Thyssen Stiftung (no. Az.20.15.0.084AA)	14,930 €	Copper and Bronze Age in Georgia, Caucasus: influence and extraction

07/2011–06/2014	Marie-Curie Actions FP7 & FWF: 'Erwin-Schrödinger' Fellowship (no. J 3109-G21)	147,635 €	Bronze Age warfare in Eastern Europe: technology and usage of armour
2011 – 2013	Marie-Curie-Actions FP7 IEF-fellowship (no. FP7-274411)	250,275 €	rejected by M. Mödlinger to accept the FWF 'Schrödinger' fellowship
2011; 2012; 2013	CHARISMA, FP7: CNRS-LC2RMF (Paris); British Museum (London); Budapest Neutron Centre (Budapest)	access scientific instrumentation; c. 12,000 €	archaeological and chemical characterisation of European Bronze Age armour.
10/2010–12/2010	Research fellowship 'MOEL-Plus' , funding: Österreichische Forschungsgesellschaft (no. 435)	7,600 €	analyses and documentation of Bronze Age armour in Hungary, Croatia, Slovakia.
04/2008–08/2008	Research fellowship 'MOEL-Plus' , funding: Österreichische Forschungsgesellschaft (no. 278)	7,550 €	documentation and analyses of Bronze Age finds in Lithuania, Latvia, Oblast Kaliningrad.
10/2007–06/2008	Research fellowship for archaeology and classical studies (funding: Austrian science & research ministry)	8,000 €	Bronze Age tools and weaponry in the Baltic States.
01/2005–12/2006	University of Vienna, Austria: research fellowship	14,000 €	Manufacture and usage of Central European Bronze Age swords

6. PRIZES AND AWARDS

The total amount of awards and prizes gained is € 8,600.

2013	I was elected among the 35 most excellent Austrian Scientists under 35 years (alphabetical list: Austrian Science Fund (FWF), together with the Austrian Newspaper <i>Der Standard</i> , issue ' <i>Forschung spezial</i> ', May 2013).
2008	Arbeiterkammer Austria: 'Theodor-Körner' award for the project ' <i>Bronze Age arms and tools in the Baltic States</i> '
2008	University of Vienna, Austria: award for academic excellence (doctoral thesis)
2007	Dr.-Maria-Schaumayer-Stiftung, Vienna: award for the excellent doctoral thesis
2003	University of Vienna, Austria: award for academic excellence (master study)
2000	University of Vienna, Austria: award for academic excellence (1 st part of master study)

7. REVIEWER AND EDITORIAL ACTIVITIES

I am **reviewer** for scientific journals of different disciplines:

- **archaeology:** *Prähistorische Zeitschrift*; *Archaeologia Austriaca*; *Journal of Open Archaeology*; *Antenor Quaderni*; *Heritage Science*, *Memoirs of the American Academy in Rome*, *Fennoscandia*; *IANSa*; *Pharos*;
- **archaeometry:** *Journal of Archaeological and Anthropological Science*; *Journal of Archaeological Science*; *Journal of Archaeological Science: Reports*; *Archaeometry*; *Memoirs of the American Academy in Rome*; *Fennoscandia*.
- **Material science:** *Scientific Reports: Nature*; *Metals*; *Surface and Interface Analysis*, *Journal of Material Characterization*; *Metallurgical and Materials Transactions A*; *X-Ray Spectrometry*; *JOM*; *Minerals*; *Surface and Interface Analyses*.

I am **editor** of the following journals: *Authenticity Studies*. *International Journal of Archaeology and Art*; *IANSa – Interdisciplinaria Archaeologica*; *Natural Sciences in Archaeology*

Furthermore, I **review project proposals** for the Italian research programme *Programma per Giovani Ricercatori "Rita Levi Montalcini"*; the *National Science Center*, Poland; Marie Skłodowska-Curie fellowships, European Union.

8. PROFESSIONAL ASSOCIATIONS & ACTIVITIES

- **President** of the *Community on the Illicit Trade of Cultural Material* of the *European Association of Archaeologists (EAA)* (2015 – today)
- **Member of the commission** of the *International Union of the Prehistoric and Protohistoric Sciences (UISPP)* (2015 – today)
- *Associazione Italiana di Archeometria (AIAR)*

- *Gesellschaft für Naturwissenschaftliche Archäologie ARCHAEOMETRIE e.V. (GNAA)*
- *Groupe des Méthodes Pluridisciplinaires Contribuant à l'Archéologie (GMPCA)*
- *Österreichische Gesellschaft für Ur- und Frühgeschichte (ÖGUF)*
- *Society for Archaeological Science (SAS)*
- *Society for Aegean Prehistory (Aegeus)*
- *Netzwerk archäologisch arbeitender Frauen e. V. (FemArc)*

9. EXCAVATION EXPERIENCE

Extensive **field work experience** (equivalent to c. 2 years of full-time employment) was obtained through work as a survey team member on various research projects in a time frame ranging from Palaeolithic cave excavations to recent cemeteries in Austria, Slovenia and France since 1999 to 2010. If not indicated otherwise, excavations were carried out by the *Forschungsgesellschaft Wiener Stadtarchäologie* (Association of Viennese Archaeology). As a result, I am competent in all aspects of running field projects and proficient in practicalities and day-to-day management of field seasons:

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| 2010 | • Tintignac, France (la-Tené sanctuary) – INRAP |
| 2003 | • Liesing, 23. district, Vienna, Austria (Late Bronze Age cemetery; Early Iron Age settlement); |
| 2002 | • Schottenstift, 1. district, Vienna, Austria (medieval mass grave); |
| | • Robert-Stolz-Platz, 1. district, Vienna, Austria (medieval settlement); |
| | • Schubertpark, 18. district; Märzpark, 15. district; Währinger Park, 19. district; all Vienna, Austria (Cemeteries of the 19 th and 20 th century AD); |
| | • Ternitz-Dunkelstein, Austria (medieval settlement); University of Vienna |
| 2001 | • Rennweg, 3. district, Vienna, Austria (roman settlement); |
| 2000 | • Potočka Zijalka, Slovenia (Palaeolithic; cave bears); University of Vienna |
| | • Albertina, 1. district und Ungargasse, 3. district, Vienna, Austria (roman cemeteries); |
| 1999 | • Klosterneuburg, Austria (medieval settlement); University of Vienna |

10. LABORATORY SKILLS

Metallographic sample preparation; microscopy; polarized and reflected light microscopy; microstructural analyses of metals; scanning electron microscopy (SEM-EDXS); (portable) X-ray fluorescence analyses (XRF); hardness measurements; Differential Thermal Analyses and Differential Scanning Calorimetry (DTA-DSC).

11. PRESENTATIONS AND ORGANIZATION OF CONFERENCES

11.1 Presentations at international conferences

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| 09/ 2022 | <i>Monumental bronzes of the 11th-12th century: the case of bronze doors</i> , EAA Annual Meeting in Budapest, Hungary (co-authors: Francesco Abate, Mauro Bernabei, Jarno Bontardi, Martin Fera, Heike Schlie, Judith Utz) |
| 07/ 2022 | <i>Crystal chemistry and thermodynamics of Cu₃As: the actual structure and physical properties</i> , XLVIII National Congress of Physical Chemistry. Physical Chemistry and the Challenges of the Ecological Transition, Genoa, Italy , 4-7 July 2022 (co-authors: Alessia Provino, Marcella Pani, Daniele Macciò, Michele Ceccardi, Andrea Cicciooli, Pietro Manfrinetti). |
| 09/ 2021 | <i>Structures and phase equilibria in the ternary Cu-As-Sb system (a preliminary investigation)</i> , XXVII Congresso Nazionale della Società Chimica Italiana (SCI), 14-23 September 2021. Online meeting (co-authors: M. Pani, D. Macciò, A. Cicciooli, P. Manfrinetti, M. Ferretti) |
| 08/ 2021 | <i>Multiple-scan voltammetry: an archaeometric tool for dating archaeological bronzes</i> , EAA Annual Meeting in Kiel, Germany (together with: A. Doménech-Carbó and M.T. Doménech-Carbó). |
| 10/ 2020 | <i>European Bronze Age defensive armour: analyses and development</i> . APRAB: Âge du Bronze, Âge de Guerre, Ajaccio-Porticcio, Corsica, France |
| 08/ 2020 | Annual meeting European Association of Archaeology. Online meeting . <i>Copper mining in lower Austria: the case of Prigglitz</i> |
| 08/ 2020 | Annual meeting European Association of Archaeology. Online meeting . |

- 09/ 2019 *Formulating a Code of Ethics for the scientific analysis of archaeological materials*
Annual meeting of the European Association of Archaeologists, **Bern, Switzerland**
- 09/ 2019 *De-colonisation: current trends in European politics in restitution cultural heritage*
Annual meeting of the European Association of Archaeologists, **Bern, Switzerland**
- 06/ 2019 *Cooperation in archaeometallurgy: the case of the Late Bronze Age mining site of Prigglitz-Gasteil (Austria)*
Archaeometallurgy in Europe V, **Miskolc, Hungary.**
The Late Bronze Age mining site at Prigglitz-Gasteil, Austria
- 09/ 2017 Annual meeting European Association of Archaeology, **Maastricht, Netherlands.**
An appeal for better publication strategies between archaeologists and scientists
- 05/ 2017 Annual meeting of the UISPP-committee ‘Archaeometry of Pre- and Protohistoric Inorganic Artifacts, Materials and Technologies’, **Pavia, Italy.**
Chemical and metallurgical aspects of arsenical bronze: the case of arsenic-loss in prehistoric metal production
- 04/ 2017 XXI^e Colloque du GMPCA, Université de **Rennes, France** (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, UK.**
Metal Body Armour in the European Bronze Age: Manufacture and Usage
- 06/ 2015 4th International Conference of Archaeometallurgy in Europe, **Madrid, Spain.**
European Bronze Age defensive armour: analyses and development
- 09/ 2014 Annual meeting of the European Association of Archaeologists, **Istanbul, Turkey.**
Bronze Age Defensive Armour in Eastern Europe: Analyses and Archaeological Studies
- 04/ 2013 XIX^e Colloque du GMPCA, Université de Caen Basse-Normandie, **Caen, France.**
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, Romania.**
Manufacture of Bronze Age defensive armor in Eastern Europe
- 11/ 2011 ‘Imaging in Conservation’, ICON – Institute of Conservation, **Oxford, UK.**
Bronze Age Weapons: examples of 3D-Computed Tomography in archaeology
- 04/ 2010 Materials, techniques and diagnostics in Cultural Heritage, Università degli Studi di Genova, **Genoa, Italy.**
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, Spain.**
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, Italy.**
Analisi interdisciplinari sulle spade austriache dell’età del bronzo: evoluzione, costruzione e utilizzo [interdisciplinary analyses of Austrian Bronze Age swords: evolution, construction and usage]
- 06/ 2007 2nd International Conference of Archaeometallurgy in Europe, Associazione Italiana di Metallurgia, **Grado/Aquileia, Italy.**
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, Germany.**
Herstellung und Verwendung mittel- und spätbronzezeitlicher Schwerter Mitteleuropas [manufacture and usage of Bronze Age Central European swords]
- 09/ 2003 1st International Conference of Archaeometallurgy in Europe, Associazione Italiana di Metallurgia, **Milan, Italy.**
An early middle-age trove of a smith's findings

11.2 Presentations at international conferences (not as first author)

- 09/ 2021 G. Ghiara, A. Salanito, M. Mödlinger, J. Vernet, S. Trasatti. *CuAs, a highly corrosion resistant copper alloy in early metallurgy: preliminary evaluation*. Eurocorr, September 2021, **Budapest, Hungary**.
- 06/ 2021 A. Salanito, 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, **Torin, Italy**.
- 10/ 2017 Neutron Imaging and Neutron Methods in Archaeology and Cultural Heritage (NINMACH 2017) conference, **Budapest, Hungary** (poster)
Neutron diffraction analyses of Bronze Age swords from the Alpine region: benchmarking neutron diffraction against laboratory methods (with: W. Kockelmann, E. Godfrey)

11.3 Invited talks

- 11/ 2022 Universität **Freiburg, Germany**: *Bronzefunde analysieren: alte und neue Methoden*
- 05/ 2022 Universität **Göttingen, Germany**: *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 University of **Frankfurt, Germany** (Colloquium Praehistoricum): *Schutzwaffen in der Europäischen Bronzezeit: Herstellung und Funktion (Manufacture and function of Bronze Age metal armour)*
- 03/ 2021 University of **Salerno, Italy** (serie Archeologia e Professione): *Studies on Bronze Age metal sheet working*
- 03/ 2019 Norwegian Institute in Rome, **Rome, Italy**.
Warfare and conflict during the Bronze Age: Case studies from the Mediterranean and beyond
- 07/ 2018 Institut für Archäologische Wissenschaften, Ruhr-Universität **Bochum, Germany**.
Schutz und Zier: Herstellung und Funktion bronzzeitlicher Schutzwaffen
- 11/ 2017 Institute for Culture and Society, Aarhus University, **Aarhus, Denmark**.
European Bronze Age defensive armour: aspects of production and usage
- 10/ 2017 National Museum of Denmark, **Copenhagen, Denmark**.
Peacebuilding strategies in prehistory: political intermarriage and women mobility
- 10/ 2017 Deutsches Archäologisches Institut (DAI), **Berlin, Germany**.
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, Ireland**.
Manufacture and use of Bronze Age armour
- 01/ 2016 Landesmuseum für Vorgeschichte, **Halle, Germany**.
Kampf und Bewaffnung in der Bronzezeit [Bronze Age warfare]
- 10/ 2015 Le indagini degli investigatori dell'arte e dell'archeologia continuano... Nuovi interrogativi aspettano i nostri detective!, Università di Torino, **Turin, Italy**.
Vero o falso? Indagini su bronzi archeologici con provenienza sconosciuta [Original or fake? Investigations on the authenticity of archaeological bronzes]
- 12/ 2014 Plenarsitzung des Clusters 2 (Innovationen: technisch, sozial), Deutsches Archäologisches Institut, **Berlin, Germany**.
Technische Untersuchungen bronzzeitlicher Schwerter [technological studies on Bronze Age swords]
- 10/ 2014 Metallurgy in Warfare - a spur to innovation and development. The Historical Metallurgy Society, **Salisbury, UK** (together with 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, Germany**.
Technik und Funktion bronzzeitlicher Schutzwaffen [technology and function of Bronze Age defensive armour]

- 06/ 2013 Dipartimento dei Beni Culturali: archeologia, storia dell'arte, del cinema e della musica, Università degli Studi di Padova, **Padua, Italy**.
Analisi su bronzi preistorici: l'armamento dell'età del Bronzo [analyses of prehistoric bronzes: defensive armour]
- 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, Hungary**.
Analyses on prehistoric Bronzes: Bronze Age arms and armour
- 06/ 2011 CHARISMA user meeting (FP-7 funding), C2RMF/Louvre, **Paris, France**.
Bronze Age usage and development of defensive armour in Hungary.
- 10/ 2009 International conference 'Warfare in Bronze Age Europe: Manufacture and Use of Weaponry', Naturhistorisches Museum, **Vienna, Austria**.
Manufacture and Usage of European Bronze Age swords.
- 05/ 2009 Gesellschaft für Archäologie in Oberösterreich, **Linz, Austria**.
Bronzezeitliche Schwerter aus Oberösterreich: Herstellung und Gebrauch [manufacture and usage of Bronze Age swords from Upper Austria]

11.4 Organization of conferences and sessions at international conferences

- 07/ 2023 International Congress on the Study of the Middle Ages, **Leeds, United Kingdom**. Session: *Linking medieval bronze doors: making, sensing, documentation.*
- 08/ 2022 Annual meeting European Association of Archaeology, **Budapest, Hungary**. Session: *Protecting the past is the key to the future: Rights of archaeological heritage stakeholders and social justice* (together with: A. Kairiss, I. Olevska).
- 08/ 2021 Annual meeting European Association of Archaeology, **Kiel, Germany**. Round table: *Expanding horizons: decolonisation, contested ownership of archaeological material, and the 1970 UNESCO Convention on cultural property* (together with E. Godfrey and I. Josten)
- 08/ 2021 Annual meeting European Association of Archaeology, **Kiel, Germany**. Session: *Protecting archaeological heritage in the globalisation era: trends, challenges, solutions* (together with: A. Kairiss, E. Bernard, I. Olevska).
- 10/ 2020 Member of the scientific commission: APRAB (Actualités de l'âge du Bronze): Âge du Bronze, Âge de Guerre, October 14-17, 2020, Ajaccio-Porticcio, **Corsica, France**
- 08/ 2020 Annual meeting European Association of Archaeology. Online meeting. Session: *Modern Networks and Past Narratives: 'Treasure Hunting', the Art Market, Scientific Analysis, and Co-Operation for Protection of Archaeological Heritage* (together with: E. Godfrey, A. Kairiss, A. Traviglia)
- 09/ 2019 Annual meeting European Association of Archaeology, **Bern, Switzerland**. Session: *Decolonisation at EAA 25 years on: The social-economic contribution of cultural heritage conservation* (together with: E. Godfrey, I. Joosten)
- 09/ 2019 Annual meeting European Association of Archaeology, **Bern, Switzerland**. Session: *Illegal obtaining and trade of archaeological artefacts: status quo and counteraction* (together with: M. Črešnar, G. Caspari, A. Kairiss)
- 09/ 2017 Annual meeting European Association of Archaeology, **Maastricht, Netherlands**. Session organization: *Archaeology on sale: how to prevent official selling of illegally excavated objects* (together with: M. Črešnar, M. Fernández-Götz, A. Kairiss)
- 09/ 2016 Annual meeting European Association of Archaeology, **Vilnius, Lithuania**. Session organization: *Illicit trafficking of Cultural Heritage: different strategies to fight it* (together with: M. Črešnar, M. Fernández-Götz, M. Van Cant, C. Tsirogiannis)
- 09/ 2015 Annual meeting of the European Association of Archaeology, **Glasgow, UK**. Session organization: *Sellout of our past: different strategies of how to deal with illicit trafficking of European Cultural Heritage* (together with: M. Hegewisch)
- 09/ 2015 Annual meeting European Association of Archaeology, **Glasgow, UK**. Session organization: *Recycling things and ideas: linking scientific, archaeological and conceptual approaches to the reuse of materials in the past* (together with: P. Bray, C. Duckworth, A. Cuenod)
- 06/ 2015 Member of the scientific commission: *4th International Conference of Archaeometallurgy in Europe*, **Madrid, Spain** (Universidad Autónoma de Madrid).

- 10/ 2009 Conference organization: *Warfare in Bronze Age Europe: Manufacture and Use of Weaponry. An Interdisciplinary Research on Technology and Utilization of Archaeological Finds* (together with M. Uckelmann), Natural History Museum, **Vienna, Austria**.
- 09/ 2009 Annual meeting European Association of Archaeology, **Riva del Garda, Italy**. Session organization: *New Approaches on Studying Weaponry of the European Bronze Age* (together with M. Uckelmann)

12. PUBLICATIONS

12.1 Monographies, editing and book chapters

- 1) Lauermaun, E. – Mödlinger, M. 2021. Bewaffnung und Kampfesweise. In: Lochner, M. (ed.). *Brandbestattung und Bronzemetallurgie – Die Urnenfelderkultur in Niederösterreich (1300–800 v. Chr.)*. Archäologie Niederösterreichs 5 (Vienna: ÖAW), 208-225.
- 2) Mödlinger, M. 2018. Metal body armour in the European Bronze Age: manufacture and use. In: Dolfini, A. – Crellin, R. – Horn, C. – Uckelmann, M. (eds). *Prehistoric warfare and violence: Quantitative and qualitative approaches* (Springer), 177-198. [peer reviewed]
- 3) Mödlinger, M. 2017. *Protecting the body in war and combat: metal body armour in Bronze Age Europe*. Oriental and European Archaeology 6 (Vienna: ÖAW). [peer reviewed] Open Access
- 4) Mödlinger, M. 2015. Bronzezeitliche Bewaffnung und Kampfesweise in Mitteleuropa. In: Meller, H. – Schefzik, M. (eds), *Massengrab von Lützen / Archäologie des Krieges*, 6.11.2015 – 22.5.2016 Landesmuseum für Vorgeschichte Halle / Saale (Halle), 269-272. [peer reviewed]
- 5) Mödlinger, M. 2015. Bronzezeitliche Schutzaffen. In: Meller, H. – Schefzik, M. (eds), *Massengrab von Lützen / Archäologie des Krieges*, 6.11.2015 – 22.5.2016 Landesmuseum für Vorgeschichte Halle / Saale (Halle), 293-296. [peer reviewed]
- 6) Mödlinger, M. 2011. *Herstellung und Verwendung bronzezeitlicher Schwerter Mitteleuropas. Eine vertiefende Studie zur mittelbronze- und urnenfelderzeitlichen Bewaffnung und Sozialstruktur*. Universitätsforschungen zur prähistorischen Archäologie 193 (Bonn: Habelt Verlag).
- 7) Uckelmann, M. – Mödlinger, M. (eds). 2011. *Warfare in Bronze Age Europe: Manufacture and Use of Weaponry*. British Archaeological Reports International Series 2255 (Oxford: BAR Publishing).
- 8) Mödlinger, M. – Leusch, V. 2008. Gräberfeld Haid, Oberösterreich. Archäologische Auswertung der Röntgenfluoreszenzanalyse: Eine Interpretation zu Zusammensetzung, Rohmaterial und Lagerstätte. In: M. Reitberger, *Das frühbronzezeitliche Gräberfeld von Haid, Oberösterreich*. Studien zur Kulturgeschichte von Oberösterreich 18, 40–48 (Verlag Bibliothek der Provinz).

12.2 Peer-reviewed journal articles

- 1) Mödlinger, M. – Provino, A. – Solokha, P. – Cagliaris, F. – Ceccardi, M. – Macciò, D. – Pani, M. – Bernini, C. – Cavallo, D. – Ciccioni, A. – Manfrinetti, P. (2023). Cu3As: uncommon crystallographic features, low-temperature phase transitions, thermodynamic and physical properties. *Materials*, 16(6), 2501. doi: [10.3390/ma16062501](https://doi.org/10.3390/ma16062501)
- 2) Makhortykh, S. – Mödlinger, M. – Utz, J. (2023). The 12th century Magdeburg bronze doors in Novgorod: an overview of Russian research, *Kunstgeschichte: E-Journal* 2023:605, urn:nbn:de:bvb:355-kuge-605-0.
- 3) Kunze, R. – Arnhold, S. – Mödlinger, M. (2022). Analytische Untersuchungen zu ostgeorgischen Bronzeobjekten: Das Fallbeispiel Nazarlebi. *Prähistorische Zeitschrift*. doi: [10.1515/pz-2022-2023](https://doi.org/10.1515/pz-2022-2023)
- 4) Mödlinger, M. – Bandrivskiy, M. – Bilyk, M. (2022). Ukrainian-Italian connections during the Early Iron Age and how these are destroyed by illicit excavations and the art market, *Archäologisches Korrespondenzblatt* 52, 181-188.
- 5) Mödlinger, M. – Trebsche, P. – Sabatini, B. (2021). Melting, smelting, and recycling at the Late Bronze Age mining site of Prigglitz, Lower Austria, *PLOS One* 16(7): e0254096. doi: [10.1371/journal.pone.0254096](https://doi.org/10.1371/journal.pone.0254096)
- 6) Mödlinger, M. – Trebsche, P. (2021). Work on the cutting edge: Metallographic investigation of Late Bronze Age tools in southeastern Lower Austria. *Archaeological and Anthropological Sciences* 13, 125. doi: [10.1007/s12520-021-01378-1](https://doi.org/10.1007/s12520-021-01378-1)

- 7) Mödlinger, M., Kairiss, A., Godfrey, E. (2021). EAA Community on the Illicit Trade in Cultural Material: function, activity and responsibilities. *Antichistica* 29, 183-189. doi: [10.30687/978-88-6969-517-9/009](https://doi.org/10.30687/978-88-6969-517-9/009)
- 8) Doménech-Carbó, A. – Mödlinger, M., – Doménech-Carbó, M.T. (2021). Multiple-scan voltammetry and OCP: archaeometric tools for dating archaeological bronzes. *Journal of Electroanalytical Chemistry* 893, 115336. doi: [10.1016/j.jelechem.2021.115336](https://doi.org/10.1016/j.jelechem.2021.115336)
- 9) Mödlinger, M. – Tsirogiannis, C. 2020. Recent Cases of Unprovenanced Armour in the Antiquities Market and Its Clients. *Archäologisches Korrespondenzblatt* 50/3, 323-337.
- 10) Mödlinger, M. – Kockelmann, W. – Godfrey, E. – Schillebeeckx, P. – Postma, H. 2020. Neutron analyses on eight Austrian Bronze Age swords: addressing the question of ‘stabbing’ or ‘cut-and-thrust’ weapons. *Journal of Archaeological Science: Reports* 33, 102521. doi: [10.1016/j.jasrep.2020.102521](https://doi.org/10.1016/j.jasrep.2020.102521)
- 11) Mödlinger, M. – Trebsche, P. 2020. A Late Bronze Age hoard from Mahersdorf, Lower Austria. *Journal of Archaeological Science: Reports* 33, 102476. doi: [10.1016/j.jasrep.2020.102476](https://doi.org/10.1016/j.jasrep.2020.102476)
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- 13) Sabatini, B. – Cziegler, A. – Mödlinger, M. 2020. Casting simulations of Arsenical Copper: new insights into prehistoric metal production and materials. *JOM* 72/9, 3269-3278. doi: [10.1007/s11837-020-04210-8](https://doi.org/10.1007/s11837-020-04210-8)
- 14) Torrielli, G. – Provino, A. – Mödlinger, M. – Sgroi, W. – Ferretti, M. – Gaggero, L. – Manfrinetti, P. 2020. „Idealità e Materialismo“: A first multi-technique characterization of Monteverde’s plaster sculpture. *Journal of Archaeological Science: Reports* 32, 102430. doi: [10.1016/j.jasrep.2020.102430](https://doi.org/10.1016/j.jasrep.2020.102430)
- 15) Sabatini, B. – Mödlinger, M. 2018. Identity and Publishing in Archaeometallurgy. *Metalla* 24/1, 49-62.
- 16) Mödlinger, M. 2018. Körperschutzwaffen der Europäischen Bronzezeit. *Mitteilungen der Anthropologischen Gesellschaft in Wien* 148, 81-100.
- 17) Mödlinger, M. – Macció, D. – Sabatini, B. – Cziegler, A. – Schnideritsch, H. 2018. Archaeological Arsenical Bronze: Constantly out-of-equilibrium. *Metallurgical and Material Transactions B* 49, 2505–2513. doi: [10.1007/s11663-018-1322-8](https://doi.org/10.1007/s11663-018-1322-8)
- 18) Mödlinger, M. – Leandri, F. – Peche-Quilichini, K. 2018. Boys don’t cry. Considérations sur les figurations de protections céphaliques et pectorales des statues-menhirs corses. *Archäologisches Korrespondenzblatt* 48/4, 473-492. doi: [10.11588/ak.2018.4.75240](https://doi.org/10.11588/ak.2018.4.75240)
- 19) Mödlinger, M. – Godfrey, E. – Kockelmann, W. 2018. Neutron diffraction analyses of Bronze Age swords from the Alpine region: benchmarking neutron diffraction against laboratory methods. *Journal of Archaeological Science: Reports* 20, 423–433. doi: [10.1016/j.jasrep.2018.05.017](https://doi.org/10.1016/j.jasrep.2018.05.017)
- 20) Kunze, R. – Rödel, T. – Mödlinger, M. 2017. Kaukasisches Kupfer in der Bronzezeit: Gewinnung und Einfluss. *Prähistorische Zeitschrift* 92/2, 289–303. doi: [10.1515/pz-2017-0019](https://doi.org/10.1515/pz-2017-0019)
- 21) Mödlinger, M. – Sabatini, B. 2017. Bronze Age Caucasian Metalwork: Alloy Choice and Combination. *Journal of Archaeological Science: Reports* 16, 248–257. doi: [10.1016/j.jasrep.2017.10.018](https://doi.org/10.1016/j.jasrep.2017.10.018)
- 22) Mödlinger, M. – Kuijpers, M. – Braekmans D. – Berger, D. 2017. Quantitative comparisons of the color of CuAs, CuSn, CuNi, and CuSb alloys. *Journal of Archaeological Science* 88, 14–23. doi: [10.1016/j.jas.2017.09.001](https://doi.org/10.1016/j.jas.2017.09.001)
- 23) Mödlinger, M. – de Oro Calderon, R. – Haubner, R. 2017. Arsenic loss during metallurgical processing of arsenical bronze. *Archaeological and Anthropological Science* 11, 133–140 (2019). doi: [10.1007/s12520-017-0534-1](https://doi.org/10.1007/s12520-017-0534-1)
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- 26) El Morr Z. – Mödlinger M. Middle Bronze Age metal artifacts and metallurgical practices at the sites of Tell Arqa, Mougharet el-Hourryieh, Yanouh and Khariji in Lebanon. *Levant* 46/1, 27–42. doi: [10.1179/0075891413Z.00000000033](https://doi.org/10.1179/0075891413Z.00000000033)
- 27) Mödlinger M. – El Morr Z. 2014. European Bronze Age sheet metal objects: 3000 years of high level bronze manufacture. *JOM* 66/1, 171–177. doi: [10.1007/s11837-013-0794-x](https://doi.org/10.1007/s11837-013-0794-x)

- 28) Mödlinger, M. – Kasztovszky, Z. – Kis, Z. – Maróti, B. – Kovács, I. – Szőkefalvi-Nagy, Z. – Káli, G. – Horváth, E. – Sánta, Z. – El Morr, Z. 2014. Non-invasive PGAA, PIXE and ToF-ND analyses on Hungarian Bronze Age defensive armour. *Journal of Radioanalytical and Nuclear Chemistry* 300/2, 787–799. doi: [10.1007/s10967-014-3064-7](https://doi.org/10.1007/s10967-014-3064-7)
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- 30) Mödlinger, M. 2013. From Greek boar tusk helmets to the first European metal helmets: New approaches on development and date. *Oxford Journal of Archaeology* 32/4, 391–412. doi: [10.1111/ojoa.12021](https://doi.org/10.1111/ojoa.12021)
- 31) Mödlinger, M. 2013. Star Ornamentation on Late Bronze Age Helmets, Cups and Decorated Discs in Central and South-Eastern Europe. *Arheološki vestnik* 64, 65-101.
- 32) Mödlinger, M. – Piccardo, P. – Kasztovszky, Z. – Kovács, I. – Szőkefalvi-Nagy, Z. – Káli, G. – Szilágyi, V. 2013. Archaeometallurgical characterization of the earliest European metal helmets. *Materials Characterization* 79, 22-36. doi: [10.1016/j.matchar.2013.02.007](https://doi.org/10.1016/j.matchar.2013.02.007)
- 33) Mödlinger, M. – Piccardo, P. 2013. Manufacture of Eastern European decorative discs from 1200 BC. *Archaeological and Anthropological Sciences* 5/4, 299-309. doi: [10.1007/s12520-012-0111-6](https://doi.org/10.1007/s12520-012-0111-6)
- 34) Piccardo, P. – Mödlinger, M. – Ghiara, G. – Campodonico, S. – Bongiorno, V. 2013. Investigation on a “tentacle-like” corrosion feature on Bronze Age tin-bronze objects. *Journal of applied physics A* 113/4, 1039–1047. doi: [10.1007/s00339-013-7732-1](https://doi.org/10.1007/s00339-013-7732-1)
- 35) Mödlinger, M. – Piccardo, P. – 2013. Corrosion on prehistoric Cu-Sn-alloys: the influence of artificial environment and storage. *Journal of applied physics A* 113/4, 1069-1080. doi: [10.1007/s00339-013-7750-z](https://doi.org/10.1007/s00339-013-7750-z)
- 36) Mödlinger, M. – Drnić, I. – Piccardo, P. 2012. Alloying elements as chrono-technological marker for II and I cent. BC fibulae from ancient Pannonia. *JOM* 64, Issue 11, 1343-1349. doi: [10.1007/s11837-012-0415-0](https://doi.org/10.1007/s11837-012-0415-0)
- 37) Postma, H. – Schillebeeckx, P. – Mödlinger, M. 2011. Neutron Resonance Capture Analysis and the Bronze Age, in: Uckelmann, M. – Mödlinger, M. (eds), *Warfare in Bronze Age Europe: Manufacture and Use of Weaponry*. British Archaeological Reports International Series 2255, 167–174.
- 38) Mödlinger, M. 2011. Ritual object or powerful weapon – the usage of Central Europe Bronze Age swords, in: Uckelmann, M. – Mödlinger, M. (ed). *Warfare in Bronze Age Europe: Manufacture and Use of Weaponry*. British Archaeological Reports International Series 2255, 153–166.
- 39) Mödlinger, M. 2010. Zur Dokumentation bronzzeitlicher Waffen und Werkzeuge aus dem ehemaligen Ostpreußen. *Acta Praehistorica et Archaeologica* 42, 109–153.
- 40) Mödlinger, M. 2008. Micro-X-ray Computer Tomography in Archaeology: Analyses of a Bronze Age Sword. *Insight – Non-Destructive Testing and Condition Monitoring* 50/5, 323–326.

12.3 Non-peer reviewed journal articles

- 1) A. Salanitro, G. Ghiara, S. Trasatti, M. Mödlinger (2021). Comportamento elettrochimico di bronzi archeologici arsenicali in funzione della concentrazione dell'arsenico in lega, *La Metallurgia Italiana*, ottobre 2021, 20-24.
- 2) Mödlinger, M. – Vernet, J. 2017. Appendix: Analisi metallografiche dell'elmo e schiniere, in: Gambari, F. M. – Grassi, B. – Ruggiero, M. G. Nuovi dati sul ripostiglio della Malpensa, *Studi sulla cultura celtica di Golasecca II*, 174–181.
- 3) Mödlinger, M. – Denel, E. – Črešnar, M. – Mele, M. – Özdoğan, M. – Thomas, S. – Tsirogiannis, C. – Van Cant, M. – Volkmann, A. – Fernandez-Götz, M. – Vanzetti, A. – Yalman, Y. 2016. Committee on the Illicit Trade in Cultural Material. *The European Archaeologist* 49, 16–20.
- 4) Mödlinger, M. 2016. Technological studies on Bronze Age metal body armour: From the Aegean to Western Europe. *Techné* 43, 90–93.
- 5) Mödlinger, M. 2012. European Bronze Age Cuirasses: aspects of chronology, typology, manufacture and usage. *Jahrbuch des Römisch-Germanischen Zentralmuseums* 59, 1-50. doi: [10.11588/jrgzm.2012.1.15311](https://doi.org/10.11588/jrgzm.2012.1.15311)
- 6) Mödlinger, M. 2013. Konstruktion und Herstellung von Kompositreflexbögen: ein Forschungsüberblick über eine der effektivsten ur- und frühgeschichtlichen Fernwaffen. *Mitteilungen der Anthropologischen Gesellschaft Wien* 143, 41–56.

- 7) Mödlinger, M. 2012 (2010). Una potente arma per uccidere: la produzione di spade nell'Europa centrale dell'età del bronzo. *Notizie archeologiche bergomensi* 18, 83-98.
- 8) Mödlinger, M. 2012. Manufacture of Bronze Age defensive armour in Eastern Europe. *Forum Archaeologiae* 65/XII/2012 (online: 15.12.2012).
- 9) Mödlinger, M. 2011. Technologie und Entwicklung. Zur Herstellung der frühbronzezeitlichen Dolche aus Hainburg/Teichtal und Mannersdorf am Leithagebirge, Niederösterreich. *Archäologie Österreichs* 22/1, 45–50.
- 10) Mödlinger, M. 2011. Eine urnenfelderzeitliche Speerspitze vom Hochgosch, Kärnten. *Carinthia* I, 201, 11–21.
- 11) Mödlinger, M. 2011. Bronze Age Warfare in Eastern Europe: Development, Technology and Usage of Defensive Armour. A short presentation of a forthcoming project. *Bulletin de l'Association pour la Promotion des Recherches sur l'Age du Bronze* 8, 86–88.
- 12) Mödlinger, M. – Čivilytė, A. 2010. Rytų Pabaltijo atkraštiniai kirviai: ankstyvojo bronzos amžiaus metalo dirbinių gamybos ir vartojimo problemos. *Lietuvos Archeologija* 34, 121–152.
- 13) Mödlinger, M. – Postma, H. 2010. Nicht-invasive Legierungsbestimmungen mittels Neutronenresonanzabsorption (NRCA) an zwei bronzezeitlichen Schwertern aus dem Joanneum Graz. *Schild von Steier* 23, 132–137.
- 14) Blesl, C. – Mödlinger, M. – Ntaflos, T. – Salaberger, D. 2010. Untersuchungen zu Herstellung und Gebrauch eines Schalenknaufschwertes aus Unterradlberg, NÖ. *Fundberichte Österreich* 48, 47–56.
- 15) Mödlinger, M. 2009. Randleistenbeile in Litauen – erste Ergebnisse zu Produktion und Gebrauch. *Archäologie Österreichs* 20/1, 27–34.
- 16) Mödlinger, M. 2007. Herstellung und Verwendung mittel- und spätbronzezeitlicher Schwerter aus Österreich. *Das Altertum* 52, 101–130.
- 17) Mödlinger, M. – Grömer, K. 2005. Metallographische und textilkundliche Untersuchungen an einem urnenfelderzeitlichen Schwert aus Nordböhmen. *Archäologie Österreichs* 16/2, 51–55.
- 18) Mödlinger, M. – Pfisterer, M. 2005. Kontermarken und Abschrotspuren: Metallographische Analyse zweier römischer Gussmünzen. *Mitteilungen der Österr. Numismatischen Gesellschaft* 45/1, 16–23.
- 19) Mödlinger, M. 2004. Metallographisch-analytische Untersuchungen an einem frühbronzezeitlichen Dolch aus Niederfellabrunn, Niederösterreich. *Archäologie Österreichs* 15/2, 26–28.

12.4 Reviews

- 1) Mödlinger, M. 2020. Rezension zu: Nørgaard, H. W. (2018). Bronze Age Metalwork. Techniques and traditions in the Nordic Bronze Age 1500-1100 BC. Oxford: Archaeopress. *Archäologische Informationen* 43, 573-577. doi: 10.11588/ai.2020.1.82237. Open access.
- 2) Mödlinger, M. 2015. Rezension zu: Verčič, M. (2014). Die barbarischen Einflüsse in der griechischen Bewaffnung. Internationale Archäologie 125. Marie Leidorf, Rahden/Westfalen. *Archaeologia Austriaca* 99, 259-264. doi: [10.1553/archaeologia99s259](https://doi.org/10.1553/archaeologia99s259)

12.5 Contributions to conference proceedings and Festschriften

- 1) Mödlinger, M. Bronze Age metal defensive armour in Eastern Europe: status symbols and symbolic weapons only? In: Rezi, B. – Németh, R. E. – Berecki, S. (eds). Indications for the usage as weapons. *Bronze Age Crafts and Craftsmen in the Carpathian Basin', Târgu Mureş, Romania, 5-7 October 2012*, 279-290.
- 2) Mödlinger, M. Herstellung und Verwendung bronzezeitlicher Schwerter. In: Krenn-Leeb, A. – Beier, H.-J. – Claßen, E. – Finkenstein, F. – Schwenzer, S. (eds). *Varia neolithica V. Mobilität, Migration und Kommunikation in Europa während des Neolithikums und der Bronzezeit. Xanten, 6.-8. Juni 2006* (Weißbach), 181–188.
- 3) Mödlinger, M. – Ntaflos, T. 2009. Manufacture and Use of Bronze Age Swords. Multidisciplinary Investigation of Austrian Metal Hilted and Organic Hilted Swords. In: Associazione Italiana di Metallurgia (ed). *2nd International Conference of Archaeometallurgy in Europe, 17-21 June 2007, Aquileia, Italy*. Selected Papers (Milano), 191–200.
- 4) Mödlinger, M. – Trnka, G. 2009. Untersuchungen an Riegseeschwertern aus Ostösterreich. In: Kienlin, T. K. – Roberts, B. W. (eds). *Metals and Societies. Studies in honour of Barbara S. Ottaway*. Universitätsforschungen zur prähistorischen Archäologie 169 (Bonn), 350–357.

- 5) Trnka, G. – Mödlinger, M. – Ntaflos, T. 2009. Untersuchungen an einem Riegseeschwert aus Gallneukirchen, Oberösterreich. In: Dobiak, C. – Ettl, P. – Fless F. (eds). *Zwischen Münchshöfen und Windberg. Gedenkschrift Karl Böhm. Internationale Archäologie*, Studia Honoraria 29, 217–226.
- 6) Mödlinger, M. Mikro-Röntgencomputertomographie in der Archäologie: Analyse eines bronzezeitlichen Schwertes. *Industrielle Computertomographie*, 27-28 Feb. 2008 *Wels/Austria* (Aachen), 219–223.
- 7) Mödlinger, M. An Early Middle-Age Trove of a Smith's Findings. In: Associazione Italiana di Metallurgia (ed), *Archaeometallurgy in Europe, 24-25-26 September 2003, Milan, Italy*, Vol. 1, 339–349.

13. OUTREACH ACTIVITIES

04/ 2023	Project presentation [GAPAMET] in the Austrian Newspaper “Die Presse”, April 22, 2023
04/ 2023	Project presentation [CRONOCU] in Austrian Television (www.orf.at ; appearance in “Salzburg heute”, April 10, 2023)
2022	Scientificast Interview about my research (www.scientificast.it ; episode of October 3, 2022)
2001 – 2007	Bow and arrow and black smithing with visitors at the following events: <ul style="list-style-type: none"> • <i>Keltenfest</i> Schwarzenbach, Lower Austria • <i>Archäologie am Berg</i>, Hallstatt, Upper Austria • <i>Germanengehöft</i> Elsarn, Lower Austria
2000	Science Week, Wien: Publikumsbetreuung