

DEWA 2023

FROM MINE TO OBJECT - DIALOGUES BETWEEN EASTERN AND WESTERN ARCHAEOMETALLURGY (3rd-1st mill. BC)

Du 22 au 24 novembre 2023
Musée d'Archéologie Nationale, Saint-Germain-en-Laye, France



L'archéoméallurgie des non-ferreux en tant que discipline étudiant l'intégralité des processus de la métallurgie ancienne, de l'extraction du minerai de cuivre, d'étain, d'or ou d'argent à l'état actuel des objets archéologiques, s'est fortement structurée ces deux dernières décennies. Des progrès considérables ont été réalisés dans notre connaissance de ces processus, qu'il s'agisse de la métallurgie extractive, de l'élaboration (du minerai au métal) ou de la transformation (du métal aux objets finis), ainsi que de la biographie des produits de la métallurgie (des objets finis à leur état actuel).

Cette structuration de la recherche archéoméallurgique s'est accompagnée d'un certain cloisonnement. En résulte une recherche assez compartimentée entre les approches minières, archéométriques, technologiques et archéologiques d'une part, et entre Europe et Proche-Orient d'autre part. Dans une perspective d'interdisciplinarité, les différents intervenants évoqueront respectivement les questions : 1) d'extraction des minerais métalliques, 2) des lieux, des outils et des acteurs de la production métallurgique, 3) des chaînes opératoires – du métal aux produits finis et 4) des échanges et des usages des produits de la métallurgie (des contextes archéologiques au laboratoire).

Comité d'organisation : Zahra Hashemi, Marilou Nordez, Christine Lorre, Claude Mordant, Martin Sauvage et Rolande Simon-Millot

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PROGRAMME



Jour 1 : mercredi 22 novembre 2023

14:00-14:15: Accueil : Christine Lorre & Rolande Simon-Millot

14:15-14:30: Introduction : Claude Mordant & Martin Sauvage

14:30-14:50: Between East and West – A state of the art : Zahra Hashemi & Marilou Nordez.

Session 1 (14:50-18:30)
Mining and ore extraction activities

14:50-15:10: “*Ancient Southwest Asia - a ‘heartland of metallurgy’ - but where are the mines?*”
Vincent Pigott (University of Pennsylvania Museum, USA).

15:10-15:40: “*Fire setting and Herding as practices of Early Mining Communities between Europe, Eurasia and West Asia*”
Thomas Stöllner (Deutsches Bergbau Museum, Bochum, Germany).

15:40-16:10: “*The Roua mines: a Neolithic native copper extraction in the Southern Alps (Alpes-Maritimes)*”
Romain Bussone (Université Paul Valéry, Montpellier 3 / UMR 5140 ASM Laboratory / LabEx Archimede, France).

16:10-16:30 : pause café

16:30-17:00: “*Did British tin sources and trade make Bronze Age Europe?*”
Alan Williams, Kamal Badreshany, Matthew Ponting, Mia Montesanto & Benjamin Roberts (Project Ancient Tin, Durham University, Leverhulme TRUST, University of Liverpool, UK).

17:00-17:30: “*The prehistoric copper mine of Veshnaveh and its relation to some ancient metallurgical sites in central Iran; A mineralogical and archaeometric approach*”
Nima Nezafati & Thomas Stöllner, (Deutsches Bergbau Museum, Bochum, Germany).

17:30-18:00: “*Chalcolithic and Bronze Age copper mining at the Internal Betic Ranges (South-East of the Iberian Peninsula)*”
Ignacio Montero-Ruiz (Instituto de Historia-CSIC, Spain), Mercedes Murillo-Barroso (Universidad de Granada, Spain), Aaron Lackinger (Universidad de Granada, Spain) & Daniel Pérez L’Huillier (Universidad de Granada, Spain).

18:00-18:30 : discussion

Jour 2 : jeudi 23 novembre 2023

8:30-9:00 : accueil et café

Session 2 (9:00-15:10)
Tools, actors and production loci: specialization and organization

9:00-9:30: “*Tools for prehistoric metalworkers*”
Michel Pernot (CNRS, UMR 6034 Archéosciences, Bordeaux, France).

9:30-10:00: “*Economy and status of the metallurgist according to Babylonian texts of the 1st mill. BC*”
Bruno Gombert (post-doc, UMR 7041 ArScAn, Paris, France) & Francis Joannès (Sorbonne University, UMR 7041 ArScAn, Paris, France).

10:00-10:30: “*The discovery of new melting furnace types at Ayn Soukhna (early Middle Kingdom) and intentional arsenic alloying for metal casting: an interdisciplinary approach*”

Georges Verly (PhD Sorbonne university, UMR 8167 Orient & Méditerranée, France), Fr. Rademakers (British Museum, UK), Fl. Téreygeol (CNRS, UMR 3685 NIMBE et IRAMAT UMR 7065, Paris-Saclay, France) Fl. Maqueda (PhD Rennes University, UMR 6074 IRISA, Rennes, France), Cl. Somaglino & P. Tallet (Sorbonne University, UMR 8167 Orient & Méditerranée, Paris, France).

10:30-10:50 : pause café

10:50-11:20: “*Late Bronze and Early Iron Age Transformations in South Caucasus Metallurgy*”
Nathaniel Erb-Satullo (Cranfield University, UK).

11:20-11:50: “*From mould to object... The workshops of metallurgists of the Late Bronze Age in Montélimar and Aubervilliers (France)*”

Muriel Mélin (Service départemental d’archéologie du Morbihan / UMR 6566 CReAAH, Rennes, France) & Eric Néré (Inrap Valence / UMR 8215 Trajectoires, Paris, France).

11:50-12:20: “*Stones in the toolkit. Contribution of use-wear and residues analysis to the identification of metals production between Europe and the Near East*”

Caroline Hamon (CNRS, UMR 8215 Trajectoires, Paris, France) & Selina Delgado-Raack (Department of Prehistory, Universitat Autònoma de Barcelona, Spain).

12:20-13:50 : repas

13:50-14:20: “*A Late Bronze Age settlement and its metallurgist's workshop at Saint-Avé (Morbihan, France)*”

Stéphane Blanchet (Inrap Grand-Ouest / UMR 6566 CReAAH, Rennes, France) & Muriel Mélin (Service départemental d’archéologie du Morbihan / UMR 6566 CReAAH, Rennes, France).

14:20-14:50: “*The spatial, social and political organisation of metalworking in southern Scandinavia during the Bronze Age (1700-500 BC)*”

Anna Sörman (post-doc UMR 6566 CReAAH, Rennes, France / Nantes Université / Stockholm University, Sweden)

14h50-15h20 : discussion

Session 3 (15:10 day 2 – 10:30 day 3)

The production process, from metal to finished objects

15:20-15:50: “*Precious metal work from the Early Bronze Age Maikop kurgan, Kuban region, north-western Caucasus (mid-4th millennium BC)*”

Barbara Armbruster (CNRS, UMR 5608 TRACES, Toulouse, France).

15:50-16:10 : pause café

16:10-16:40: “*Gold and its alloys at Middle Bronze Age Byblos*”

Ziad El Morr (Lebanese Atomic Energy Commission – National Council for Scientific Research, Beyrouth, Lebanon).

16:40-17:10: “*The Rise and Development of Tin Bronze Metallurgy in the Iranian Plateau During the Second and First Millennium BCE*”

Omid Oudbashi (Department of Conservation of Cultural and Historical properties, Art University of Isfahan, Iran).

17:10-17:40: “*Bronze weapons in the tombs in Talysh area (Azerbaijan, Iran)*”

Mathias Haze (CNRS, UMR 7041 ArScAn, Nanterre, France), Christine Lorre (National Museum of Archaeology, Saint-Germain-en-Laye / UMR 7041 ArScAn, Nanterre, France) & Benoît Mille (C2RMF, Paris, France).

Day 3: Friday 24 November 2023

8:30-9:00 : accueil et café

9:00-9:30: “*Technological study of the Atlantic Middle Bronze Age ornaments*”
Marilou Nordez (post-doc CReAAH UMR 6566, Rennes / UMR 5608 TRACES, Toulouse, France).

9:30-10:00: “*Making Bronze Age solid-hilted swords: from chaînes opératoires to craftsmen*”
Léonard Dumont (Ghent University, Department of Archaeology / Université de Bourgogne, UMR 6298 ArTeHiS, Dijon, France), Ivan Josipovic (Ghent University, Department of Physics and Astronomy, Belgium), Matthieu Boone (Ghent University, Department of Physics and Astronomy, Belgium).

10:00-10:30 : discussion

10:30-10:50 : pause café

Session 4 (10:50-17:00)

Exchanges and uses of metal: from archaeological contexts to the laboratory

10:50-11:20: “*Metallic deposits in Ancient Middle East during Metal Ages*”
Zahra Hashemi (CNRS, ArScAn Laboratory, VEPMO team, Nanterre, France).

11:20-11:50: “*Metals in the Oxus Civilization and the Andronovo Community: goods, practices and exchanges in Bronze Age Southern Central Asia*”
Élise Luneau (German Archaeological Institute, Eurasia Department, CNRS Trajectoires Laboratory, Paris, France).

11:50-12:20: “*Metrological standardisation of metallic artefacts: between production and exchange requirements. The example of Médoc axes*”
Thibaud Poigt (post-doc UMR 5607 Ausonius, Bordeaux / UMR 5608 TRACES, Toulouse, France), Nicolas Frerebeau (CNRS, UMR 6034 Archéosciences, Bordeaux), Alexis Gorgues (université Bordeaux Montaigne / UMR 5607 Ausonius, Bordeaux, France), Thibault Picard (Master université Bordeaux Montaigne, France).

12:20-13:50 : repas

13:50-14:20: “*The Bronze Age metal of Gegharot: culture, society and technology*”
Ruben Badalyan (Institute of Archaeology and Ethnography, National Academy of Sciences, Armenia), Khachatur Meliksetian (Institute of Geological Sciences, National Academy of Sciences, Armenia) & Adam Smith (Department of Anthropology Cornell University, USA).

14:20-14:50: “*Gold from the desert – artefact production at Saruq al-Hadid*”
Kristina A. Franke (Ruhr University, Bochum, Germany), Lloyd Weeks (University of New England, Australia) & Zuzanna Wygnańska (Polish Academy of Sciences, Poland).

14:50-15:20: “*Metalwork Wear Analysis: A patinated history*”
Andrea Dolfini (Newcastle University, UK).

15:20-15:40 : pause café

15:40-16:10: *"Producing, using and hoarding in Late Bronze Age: multi-elemental analyses, geometric morphometry and techno-functional approach of the Late Bronze Age 3 axe blades from Auvergne (France)"*

Théo Enudde (Master, université Toulouse-Jean Jaurès, France) & Pierre-Yves Milcent (université Toulouse-Jean Jaurès / UMR 5608 TRACES, Toulouse, France).

16:10-16:40: *"Isotopical and elemental chemical analyses of french metal Bronze Age hoards"*

Cécile Le Carlier de Veslud (CNRS, UMR 6566 CReAAH, Rennes, France).

16:40-17:10 : discussion

17:10-17:30 : discussion finale et conclusion de la conférence