

Programme

14th June - Day One

9.00-9.55	Registration & Tea/Coffee
9.55-10.00	Conference Opens - Eleanor Blakelock
10.00-10.05	HMS Introduction - Speaker Paul Belford

Origin of Metallurgy - Chairs Paul Craddock & Thilo Rehren		
10.05-10.30	Paul Craddock	The emergence of Archaeometallurgy through the second half of the 20 th century
10.30-10.55	Anna Addis, I. Angelini, Gilberto Artioli and P. Nimis	Prehistoric copper metallurgy in the Italian Eastern Alps: recent results
10.55-11.20	Miljana Radivojević	The Origins of Metallurgy: a look under the microscope
11.20-11.45	Paul Ambert, Marie Laroche, Valentina Figueroa and Salvador Rovira	Technological aspects of the earliest metallurgy in France: "Furnaces" and slags from La Capitelle du Broum (Péret)
11.45-12.10	Simon Timberlake , Peter Marshall and Alan Williams	The beginnings of metal production in Britain: new light on the exploitation of ores, from the archaeological and dating perspective

12.10-13.10 Lunch

13.10-13.35	Ann Feuerbach	Origins of Metallurgy: An Anthropological Perspective
13.35-14.00	Lorenzo Nigro	The copper axes hoard of Khirbet al-Batrawy (Jordan), and the role of metal in the urban rise of 3rd millennium BC Jordan
14.00-14.25	Loic Boscher, Thilo Rehren, Ulf-Dietrich Schoop, Lloyd Weeks and Eddy Faber	Early Copper Metallurgy and Arsenical Copper Production at Çamlıbel Tarlasi, Turkey, c. 3500 BC

14.25-14.55 Tea/Coffee

14.55-15.20	Joanna Palermo	The origins of an origin: the development of academic interest in the question of the origins of iron technology from the 12 th to 19 th centuries.
15.20-15.45	Oli Pryce	Between autochthony and allochthony in Southeast Asia's historical trajectory from the Terminal Neolithic to Full State Formation, c. 1000 BC to c. 500 AD

15.45-16.15 Tea/Coffee

16.15-16.45	Poster presentations, i.e. each person gets two minutes to describe their poster
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Move to the Institute of Archaeology for the HMS evening

31-34 Gordon Square, London, WC1H 0PY
G6 Lecture theatre on the ground floor.

17.30-18.00	AGM
18.00-18.40	Anniversary of HMS a retrospective but also a positive look to the future
18.40-20.00	Wine Reception in Staff Common Room 6th Floor

15th June - Day Two

8.40-9.20 *Tea/Coffee*

The Southern Continents - Chairs Vincent Serneels & Marcos Martínón-Torres		
9.20-9.40	Laurence Garenne-Marot and Benoît Mille	The Muslim trans-Saharan copper trade: a reappraisal based on new data
9.40-10.00	Gillian Juleff , S. Jaikishan, B. Gilmour, Sharada Srinivasan and S. Ranganathan	Recent fieldwork in the crucible steel production landscape of Andhra Pradesh: interim observations
10.00-10.20	Edwinus Chrisantus Lyaya and Thilo Rehren	Systematic Slag Evidence for (Secondary) Carbon-rich Steel Production from Mbozi, southern Tanzania
10.20-10.40	Louise Iles	Technological expertise: fiercely protected or freely shared? Networks of knowledge in the iron industries of east Africa
10.40-11.10	Vincent Serneels	What is the Iron Age? Comparisons between Africa and Europe

11.10-11.40 *Tea/Coffee*

11.40-12.00	Benoit Mille , Diego Salazar, Catherine Perlès, Valentina Figueroa, Laurent Carozza, José Berenguer, David Bourgarit, Paulina Corrales, Albane Burens-Carozza and Pierre Rostan	Prehistoric production of Copper: a Comparative Approach between French Alps at the beginning of the Bronze Age and Atacama Desert in Chile during the Late pre-Hispanic period.
12.00-12.20	Jairo Escobar and Nohora Bustamante	Archaeometallurgy of platinum-gold in Pre-Hispanic South America: sintering technologies.
12.20-12.40	Carolina Gutiérrez Neira , A. Perea, A. Verde, P. Fernandez Esquivel, A. Climent-Font, A. Zucchiatti, S. Rovira-Llorens and J.L. Ruvalcaba-Sil.	Metallurgy of gold in the pre-Hispanic Quimbaya treasure

12.40-13.40 *Lunch*

13.40-14.00	Carlos I. Angiorama and M. Florencia Becerra	Reverberatory Furnaces in the Puna of Jujuy, Argentina, during colonial times (end of 16th to beginning of 19th centuries). Between Europe and America
14.00-14.30	Marcos Martínón-Torres and María Alicia Uribe	The colour of wax: Technology, composition and context in Muisca goldwork (Colombia, AD 600-1800)

14.30-15.40 *Official Poster Session & Tea/Coffee*

The Northern Continents - Chairs David Bourgarit & Justine Bayley		
15.40-15.50	<i>Justine Bayley and David Bourgarit</i>	Session introduction
15.50-16.10	<i>Janet Lang</i>	Mildenhall and Derrynaflan: a study in two contrasting hoards
16.10-16.30	<i>Eleanor Blakelock</i>	The Staffordshire Hoard: choices of metal composition and the underlying secrets of the Anglo-Saxon goldsmith
16.30-16.50	<i>Mercedes Murillo-Barroso</i> and Ignacio Montero-Ruiz	Colonization and Silver Metallurgy in Iberia during the 1st Millennium BCE
16.50-17.10	<i>Siran Liu</i> and Thilo Rehren	How were gold and silver smelted in the historical period of China? -A case study of gold/silver smelting sites in southern China
17.10-17.30	<i>Martina Renzi</i> , S. Rovira Llorens, M. Hunt Ortiz and I. Montero Ruiz	An innovative metallurgical process in Iberia: liquation as a possible process for silver production in the Phoenician period

17.30-18.45 *Venue remains open, free time to view posters/chat etc
Extracts from the BFI 'Century of Steel' DVD will be shown in main room*

19.00 *Dinner venue opens with glass of sparkling wine
Dinner served at 7.30pm*

16th June - Day Three

8.40-9.20 *Tea/Coffee*

9.20-9.40	<i>Naama Yahalom-Mack</i> , E. Galili, I. Segal, A. Eliyahu-Behar, A. Shilstein and I. Finkelstein	Copper ingots from the southern Levant as indicators of diverse trade networking; A study of their chemical and isotopic composition and microstructure
9.40-10.00	<i>Christina Clarke</i>	A new approach to the identification of inter-regional connections in the Eastern Mediterranean during the third millennium BC.
10.00-10.20	<i>Kristina A. Franke</i>	Metal and elites in Upper Mesopotamia - uniqueness or uniformity?
10.20-10.40	<i>Jean-Marie Welter</i>	Tin bronze sheets: a millennium old material - forgotten - revived

10.40-11.10 *Tea/Coffee*

11.10-11.30	<i>Hugh J. McQueen</i> and Larry McNally	Montreal Metal Industries 1760 to 1910 - Cradle of Canadian Industry
11.30-11.50	<i>Keith E. Morgan</i>	Innovation and Change in the Welsh Tinsplate Industry
11.50-12.10	<i>Tim Smith</i>	The Iron and Steel Industry from the Founding of HMS to the Present

12.10-13.10 *Lunch*

**Future of Historical and Archaeological Metallurgy -
Chair David Dungworth**

13.10-13.30	Andrea Dolfini	Early Metallurgy in the Central Mediterranean: Goals for the next decade
13.30-13.50	Michael Brauns, G. Gassmann, R. Schwab and G. Wieland	Production and distribution of iron in Southern Germany during the Iron Age
13.50-14.10	Brian Gilmour	The Steel Age: When and where did it begin, and how did it develop before the late 1st Millennium CE?
14.10-14.30	Tim Young	Fragments through the smoke: The evolution of the bloomery furnace in Britain and Ireland
14.30-14.50	Philippe Dillmann, Alexandre Disser, Stéphanie Leroy, Maxime L'Héritier, Sylvain Bauvais, Gaspard Pagès, Emmanuelle Delqué- Kolic and Enrique Vega	Provenancing and dating ferrous artefacts: an outcome of two decades of research.

14.50-15.20 **Tea/Coffee**
(Posters removed during this break)

15.20-15.50	Thilo Rehren	Future of Archaeometallurgy
15.50-16.20	Paul Belford	Future of Historical Metallurgy
16.20-16.40	Discussion	

16.40-16.50 Closing Speech Eleanor Blakelock& Eddie Birch

17.00 onwards Meet in pub for more discussions

Poster Presentations

Posters will be on display throughout conference

- Anna Addis**, I. Angelini and G. Artioli Late Bronze Age Slags from Trentino (Italy): Interpretation of the Copper Smelting Model
- Anna Sörman** Casting in Context: Analysing the Social Settings of Bronze Artefact Production in Late Bronze Age Scandinavia
- Arne Espelund** Roman ironmaking without the use of bellows!
- Aude Mongiatti** and Susan La Niece Anglo-Saxon goldsmithing workshop practices seen from the Staffordshire Hoard
- Frederik Rademakers** and ThiloRehren The identification of tin oxide in crucible slag
- Gülde Emre** The History of Tin and Bronze in Anatolia
- Takekazu Nagae**, Yutaka Maebara, Hidehiro Sugiyama, Yasuji Shimizu and HaruhisaMifune Microstructure observation on heat treatable high tin bronze bowls excavated at Japanese antiquities
- Salvador Rovira** and Florian Balestro Ternary bronzes Cu-Sn-Pb in Prehistory: An experimental approach
- Verena Leusch**, E. Pernicka and R. Krauß The Copper Age Gold from Varna – An impetus for social development?
- Simon Timberlake**, Tim Mighall and Douglas Kidd New Research into Roman Metal Mining in Britain
- Jiří Kmošek** and Ing. Šárka Msallamová Research of bronze turban-shape circle from Iron Age
- DamirDoracic**, Roland Schwaab and Hrvoje Potrebica Conservation-restoration and investigation of the Early Iron Age Iron Sword from Kaptol, Croatia
- Elisa Maria Grassi** Metallurgy Beyond Technology: Metalworking Debris as Historical Evidence
- MaximeCallewaert**, Laurent Tholbecq and Helena Wouters Elementary Analysis of Roman Enamelled Brooches in Gallia Belgica and Germania: Preliminary results
- TathagataNeogi**, G. Juleff and Sharada Srinivasan Festival of Mammayee: The socio-cultural context of iron-working in northern Telangana, India