

WARFARE IN BRONZE AGE EUROPE: MANUFACTURE AND USE OF WEAPONRY

CONTENT

Introduction <i>Marianne Mödlinger, Marion Uckelmann and Steven Matthews</i>	1
<i>The smith's approach</i>	
Spearheads and swords – The making of bronze objects <i>Markus Binggeli</i>	11
<i>Halberds</i>	
Use-wear on Bronze Age halberds: The case of Iberia <i>Dirk Brandherm</i>	23
Ceremonial or deadly serious? New insight into the function of Irish Early Bronze Age halberds <i>Ronan O'Flaherty, Michael D. Gilchrist and Trevor Cowie</i>	39
Deliberate destruction of halberds <i>Christian Horn</i>	53
<i>Swords</i>	
Use-wear analysis and use-patterns of Bronze Age swords <i>Barry Molloy</i>	67
Chelsea and Ballintober swords: Typology, chronology and use <i>Steven Matthews</i>	85
Irish swords: Use and abuse <i>Ian Colquhoun</i>	107
Integrating form, function and technology in ancient swords. The concept of quality <i>Marc Gener</i>	117
Slash and stab: Some remarks on the manufacture, function and deposition of carp's-tongue swords (summary) <i>Dirk Brandherm and Magdalena Moskal-del Hoyo</i>	125
The discovery of a new Tachlovice sword at Pont-sur-Seine, Aube, France <i>Sylvie Boulud-Gazo</i>	133
<i>Swords and new analysis methods</i>	
Ritual object or powerful weapon – The usage of Central Europe Bronze Age swords <i>Marianne Mödlinger</i>	153
Neutron resonance capture analysis and the Bronze Age <i>Hans Postma, Peter Schillebeeckx and Marianne Mödlinger</i>	167

Bow and arrow

- The Sintashta bow of the Bronze Age of the South Trans-Urals, Russia 175
Andrey Bersenev, Andrey Epimakhov and Dmitry Zdanovich

Shields

- The function of Bronze Age shields 187
Marion Uckelmann
- Metallurgical and archaeological investigations on the Macedonian shields of Staro Bonče (3rd century BC) 201
Paolo Piccardo and Dusko Temelkoski

Abstracts from the workshop in Vienna 2009

- The results of the X-rays examinations of swords from Poland 213
Michał Bugaj
- ‘By Weapons made Worthy’? Production, use and deposition of Bronze Age weaponry 213
David Fontijn
- Metal alloy and texture analysis of Bronze Age swords by neutron diffraction 213
Evelyne Godfrey, Winfried Kockelmann and Marianne Mödlinger
- Late Bronze Age crested helmets in the Eastern Alps 214
Andreas Lippert
- Weapons grade bronze 215
Peter Northover
- Computed tomography for the 3D analysis of metallic archaeological findings 215
Dietmar Salaberger and Johann Kastner
- Examples of imagery in ornamentation on Late Bronze Age weapons 216
Stefan Wirth
- Studies on the production and function of Late Bronze Age swords 217
Michael Siedlaczek

Abstracts from the Session at the 15th EAA Annual Meeting in Riva Del Garda 2009

- Experimental comparison of spearheads use-wear analysis 218
Kate Anderson
- Halberds and Red Herrings. Weaponry and warfare in the Earlier Bronze Age of Southeast Spain 218
Dirk Brandherm, Sandra Montón, Margarita Sánchez and Gonzalo Aranda
- Weapons or tools? Insights into the usage of metalwork in Copper Age Italy 219
Andrea Dolfini
- The spirit of the sword and spear 219
Mark Pearce