

**Schriften zur Archäologie und Archäometrie
der Paris Lodron - Universität Salzburg**

Band 5

The Sound of Bones

**Proceedings of the
8th Meeting of the ICAZ Worked Bone Research Group
in Salzburg 2011**



The Worked Bone Research Group in Salzburg

31 August 2011

Alte Residenz, Salzburg, Austria

WBRG Publications

1997 – 1st meeting – London (United Kingdom)

Riddler I. (ed.) 2003: Materials of Manufacture: The Choice of Materials in the Working of Bone and Antler in Northern and Central Europe During the First Millennium AD. British Archaeological Reports, International Series 1193. Oxford.

1999 – 2nd meeting – Budapest (Hungary)

Choyke A.M. / Bartosiewicz L. (eds.) 2001: Crafting Bone: Skeletal Technologies through Time and Space – Proceedings of the 2nd meeting of the (ICAZ) Worked Bone Research Group Budapest, 31 August – 5 September 1999. British Archaeological Reports, International Series 937. Oxford

2003 – 4th meeting – Tallinn (Estonia)

Luik H. / Choyke A.M. / Batey C. / Lougas L. (eds.) 2005: From Hooves to Horns, from Mollusc to Mammoth – Manufacture and Use of Bone Artefacts from Prehistoric Times to the Present –Proceedings of the 4th Meeting of the ICAZ Worked Bone Research Group at Tallinn, 26th–31st of August 2003. Muinasaja teadus 15. Tallinn

2007 – 6th meeting – Paris (France)

LeGrand-Pineau A. / Sidéra I. / Buc N. / David E. / Scheinsohn V. (eds.) 2010: Ancient and Modern Bone Artefacts from America to Russia. Cultural, technological and functional signature. British Archaeological Reports, International Series 2136. Oxford

2003 – 7th meeting – Wrocław (Poland)

Baron J. / Kufel-Diakowska B. (eds.) 2011: Written in Bones. Studies on technological and social context of past faunal skeletal remains. Wrocław.



Schriften zur Archäologie und Archäometrie
an der Paris Lodron-Universität Salzburg

Band 5

Herausgeber der Reihe:

Jan Cemper-Kiesslich
Volker Höck
Felix Lang
Stefan Traxler
Edith Tutsch-Bauer
Christian Uhlir
Michael Unterwurzacher
Wolfgang Wohlmayr

The Sound of Bones

Proceedings of the 8th Meeting of the ICAZ Worked Bone Research Group
in Salzburg 2011

edited by:

Felix Lang

Salzburg 2013

Mit freundlicher Unterstützung von:



O.Prof.Dr. Heinrich Schmidinger, Rektor
Fachbereich Altertumswissenschaften



Bundesministerium für Wissenschaft und Forschung



Land Salzburg – Wissenschaft



Stadt Salzburg

TuBa Privatstiftung

Impressum

ArchaeoPlus – Schriften zur Archäologie und Archäometrie an der Paris Lodron-Universität Salzburg
Band 5

Herausgegeben von:
Felix Lang

Salzburg 2013

ISBN 978-3-9502897-5-6

Im Eigenverlag: c/o Universität Salzburg, Fachbereich Altertumswissenschaften, Residenzplatz 1, 5020 Salzburg, Österreich.
Tel.: ++43-(0)662-8044-4550, archaeometrie@sbg.ac.at, www.archaeoplus.sbg.ac.at

Für den Inhalt der Beiträge und die Einholung von Bildrechten sind die Autoren verantwortlich.

Redaktion und Satz: Ulrike Höller, Felix Lang

Layout: David Wilhelm

Druck: Frick Digitaldruck, Krumbach Germany

Contents

- 7 Preface
- 9 Manuel Altamirano García / Trinidad Nájera Colino / Fernando Molina González
Bronze Age Osseous Projectile Points from the Archaeological Site of La Motilla del Azuer
- 25 Ekaterina E. Antipina
Serrated Iron Sickles and Ancient Bone ‘Rasps’ from the Northern Black Sea Region:
Destiny of the Innovation
- 33 Christopher Arabatzis
The Bone Tools from the Neolithic Settlement of Proskinites, Greece
- 41 Jakob Baerlocher / Sabine Deschler-Erb
On a Bed of Bones:
An early imperial burial from Vindonissa
- 57 Andrzej Boguszewski / Frédéric Guédon / Ludomir R. Lozny
Over the Borders:
‘The Jaggeds’, Mystery Edge-Modified Bone Tools as the New Witness of Long-Distance Contact
in Northern and Central Europe from the Neolithic to the Iron Age
- 71 Maria Borao Álvarez
The Technological Study of the Manufacturing Process of the Bone and Antler Industry in the
Upper Magdalenian of Cova de les Cendres (Alicante, Spain)
- 87 Barbara Carè
Knucklebones from the Greek Necropolis of Locri Epizefiri, Southern Italy (VIth-IIIth century BC):
Typological and Functional Analysis
- 101 Katarzyna Cebula
Bone Needles from the Early Middle Ages in the Odra River Valley
- 107 Erika Gál
Two Bone Artefacts from the Sanctuary of Iuppiter Heliopolitanus in Carnuntum (Lower Austria)
- 117 Kordula Gostenčnik
Ibex Horn Cores and the *sacrificium Capricorni* Graffito from Magdalensberg (Austria)
- 133 Nejma Goutas
New Data on the Osseous Industry from the Eastern Gravettian (Russia):
Technological Analyses and Sociological Perspectives
- 155 Aleta Guadelli / Philippe Fernandez / Jean-Luc Guadelli / Viviana Miteva / Nikolay Sirakov
The Retouchers from the Gravettian Levels in Kozarnika Cave
- 163 Bénédicte Khan
The Workshop of Petra, Jordan:
Highlights of the Bone Industry of the Late Fourth-Early Fifth Century A.D. in the Levant

- 173 Heidi Luik / Valter Lang
Late Bronze Age Elk Antler Tools in the Eastern Baltic Region
- 185 Owen Mapp
The Situation of an Ivory/Bone Carver in Juxtaposition with Archaeology and Museum Research
- 191 András Markó
Leaf-shaped Lithic and Osseous Tools from Old Excavated Cave Sites:
Demonstrating Associations
- 203 Jean-Marc Pétillon / Aurore Lemoine / Katharina Müller / Ina Reiche
Arrowheads from the Santa Cruz Islands (Temotu, Solomon Islands):
Design, Raw Material, and how they are linked
- 217 Marloes Rijkelijkhuisen
Horn and Hoof – Plastics of the Past:
The Use of Horn and Hoof as Raw Materials in the Late and Post-Medieval Periods
in the Netherlands
- 227 Isabelle Sidéra
Chronology or Not Chronology, That is the Question:
Synthetic Analysis of the LBK Bone Assemblage from Germany to the Paris Basin
- 237 José-Miguel Tejero / Bárbara Avezaula / Ruth Maicas / Carmen Cacho
Osseous Material Industry from the Magdalenian Levels of La Peña de Estebanvela (Segovia):
A Preliminary Technological Study
- 251 Zsuzsanna Tóth
Rules and Misrules:
'Hide Beamer' Variability in the Hungarian Late Neolithic
- 263 Selena Vitezović
Bone Industry from Starčevo-Grad:
Technology and Typology
- 277 ArchaeoPlus Publications