

**4<sup>th</sup> International Meeting  
of the Worked Bone Research Group  
26<sup>th</sup>–31<sup>st</sup> of August 2003  
Institute of History,  
Rüütli 6, Tallinn, Estonia**



**Wednesday, 27.08.**

**08.30.–09.00. Registration**

**09.00.–09.30. Welcome. Introduction. Information**

**09.30.–10.00. Ilga Zagorska.** Late Palaeolithic antler and bone hunting equipment from East Baltic

**10.00.–10.30. Annelou van Gijn.** Use wear analysis of Mesolithic bone and antler objects from the Netherlands

**10.30.–11.00. Coffee break**

**11.00.–11.30. Yolaine Maigrot.** Bone and antler tool production systems at the Late Neolithic site of Chalain 4 (Jura, France)

**11.30.–12.00. Rozalia Christidou.** Investigating technical and functional variability in the Neolithic bone tool assemblages of Eastern Macedonia (Northern Greece): Methods and preliminary results

**12.00.–12.30. Alexandra Legrand.** New evidence on bone reduction methods from Khirokitia, a Neolithic site in Cyprus (VIIth millennium cal. B.C)

**12.30.–14.00. Lunch**

**14.00.–14.30. Isabelle Sidéra.** New classification of European Neolithic bone tools based on techniques

**14.30.–15.00. Ulla Saluäär.** Stone Age bone and antler artifacts from the lower reaches of Pärnu River (SW Estonia)

**15.00.–16.00. Poster session:**

**Kristiina Mannermaa.** Bird bone artefacts from the Finnish Mesolithic and Neolithic

**Rozalia Christidou & Alexandra Legrand.** Hide working and bone tools: Experimentation design and applications

**16.00.–16.30. Coffee break**

**16.30.–18.30** Exhibition “Estonian fauna through the time”, guided by **Lembi Lõugas**;

**Eva David.** The bone and antler industry of the oldest Mesolithic site of Estonia, Pulli;

Archaeological exhibition of the Institute of History, guided by **Gurly Vedru**;

**General Discussion**

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**Thursday, 28. 08.**

**09.00.–09.30. Mikko Hietala, Janne P. Ikäheimo & Juha-Pekka Joona.**

Wretchedly poor, but amazingly practical: Archaeological and experimental evidence on the bone arrowheads of the *Fenni*

**09.30.–10.00. Erika Gál.** Worked bird bones from the Carpathian Basin with special reference to Hungarian and Romanian data

**10.00.–10.30. László Bartosiewicz.** Worked pieces of elk (*Alces alces* L. 1758) antler from Central Europe

**10.30.–11.00. Coffee break**

**11.00.–11.30. Cornelia Becker.** Bone processing at the Bronze Age castelliére of Monkodonja with special reference to spindle whorls

**11.30.–12.00. Alice M. Choyke.** The exploitation of red deer and bone working at the Bronze Age tell site of Jászdózsa in the north of the Great Hungarian Plain

**12.00.–12.30. Tina Tuohy.** Bone & antler combs as an indicator of site phasing and function at the Iron Age lake villages of Meare East and West, Somerset, Britain

**12.30.–14.00. Lunch**

**14.00.–14.30. Barbara Stopp & Günther Karl Kunst.** Evidence for jawbone sledges from the Late Iron Age and the Roman Period of Switzerland and Austria

**14.30.–15.00. Mária Bíró.** Bone objects in Roman women's dress in Pannonia

**15.00.–15.30. Sabine Deschler-Erb.** Borderline production: A Late Roman antler workshop in eastern Switzerland

**15.30.–16.00. Coffee break**

**16.00.– 17.00. Excursion to Niguliste Church–Museum, guided by Anu Mänd**

Niguliste Church is architecturally one of the most integral and harmonious medieval churches in Estonia. Its history goes back to the 13th century – it is assumed to have been founded around 1230 by German merchants. Besides Baroque epitaphs and other masterworks of carving, a remarkable collection of Renaissance and Baroque chandeliers, as well as the 14–17th century tombstones covering the floor of the Chapel of St Matthew (later St Anthony), but also such invaluable rarities from the 15–16th centuries as the high altar (made between 1478–1481 in the workshop of Hermen Rode, master from Lübeck), the initial fragment of the famous painting "Dance Macabre" (painting by the Lübeck master Bernt Notke) and the altar of St Anthony survived.

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**Friday, 29. 08.**

**Excursion**

**09.00.** Departure from the Hostel Tehnika 16

**09.30.** Departure from the Hotel Rotermanni Viiking

**10.15.–11.15.** Bronze Age Cemetery and Museum in Jõelähtme, guided by  
**Triinu Mets**

The burial places from late Bronze Age were founded between the 8th and 7th cent. BC. In the process of a new road construction archaeological rescue excavations took place from 1982 to 1984. During the excavations 36 stone cist barrows were found. The area was thoroughly excavated and the barrows were "lifted" beside the new road according to a photographed map. The dead had been buried in central coffins with their heads pointing to the north, facing the life-giving Sun. They were surrounded by a limestone wall, as if representing the world model of the man of that time - standing in the center of a circle, man could only look at the horizon, forever unattainable to him.

**12.00.–13.30.** Lunch (Jõgisoo Forellipüük – Trout Camp)

**14.00.–15.00.** Varbola hill-fort, guided by **Gurly Vedru**

Varbola hill-fort, one of the biggest and best fortified in the Baltic region, has been dated to the 11th–13th centuries. The fort was surrounded by a strong circular wall of limestone slabs which in places reaches a height of 9 m. Including the wall and the moat at its foot, its total area exceeded 5 ha of which the enclosure made up 2.

**16.00.–18.00.** Open Air Museum

The Estonian Open Air Museum (founded in 1957) is the central museum of Estonian rural architecture, situated at a 8 km distance from the centre of Tallinn. 68 farmhouses from West-, North- and South-Estonia as well as from the islands, together with public buildings, are exposed on a 84 ha territory. The farmbuildings assembled to farmyards, nine of which have been completed by now. The village church, an inn, mills and a fire station add a special touch to the village atmosphere.

**18.00.–20.00.** Picnic in the Open Air Museum

**20.15.** Arrival to the Hostel Tehnika 16

**20.30.** Arrival to the Hotel Rotermanni Viiking

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**Saturday, 30. 08.**

**09.00.–09.30. Etan Ayalon.** The assemblage of bone and ivory artifacts from Caesarea Maritima, Israel, 1st-13th centuries CE

**09.30.–10.00. Yehoshua Dray.** The technology of bone and ivory artifacts production in Caesarea Maritima, Israel

**10.00.–10.30. Edit Czeglédi.** Avar Period bone manufacturing in Hungary: The reconstruction of purse closures

**10.30.–11.00. Coffee break**

**11.00.–11.30. Steven Ashby.** Bone and antler combs: Towards a methodology for the understanding of trade and identity in Early Medieval England and Scotland

**11.30.–12.00. Heidi Luik & Liina Maldre.** Bone and antler artefacts from the settlement site and cemetery of Pada in North Estonia

**12.00.–12.30. István Kovács.** Bone artifacts from the medieval Royal Palace of Visegrád, Hungary

**12.30.–14.00. Lunch**

**14.00.–14.30. Hans Christian Küchelmann & Petar Zidarov.** Let's skate together: Skating on bones in the past and today

**14.30.–15.00. Colleen Batey.** Worked fish bone in Iceland from the Vikings to Modern Times

**15.00.–15.30. Coffee break**

**15.30.–17.00. Final discussion**

1. Demands and deadline for papers for the conference publication
2. Place and time for the 5<sup>th</sup> Meeting of the WBRG

**19.00.–21.00. Conference dinner in the Olde Hansa restaurant, Vana Turg 1.**

Olde Hansa is a rich merchant's home, where 15th-century delicacies and atmosphere can be enjoyed. Hand-made tableware for grand feasts and an authentic interior take the guests back to medieval Tallinn. Their merchants' banquets and medieval house drinks are most popular.

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## **Posters**

1. **Corneliu Beldiman.** Palaeotechnology of antler working in the Mesolithic of the Iron Gates, Romania
2. **Corneliu Beldiman.** Bone and antler industry in the Upper Palaeolithic of Romania: Projectile points
3. **Patricia Bonnaud.** An unusual manipulation of Caprinae long bones in Autun (Burgundy–France) in the Middle Ages
4. **Rozalia Christidou & Alexandra Legrand.** Hide working and bone tools: Experimentation design and applications
5. **Emanuela Cristiani, Francesca Alhaique.** Flint vs metal: The manufacture of osseous tools in the Eneolithic site of Conelle di Arcevia (Central Italy)
6. **Emanuela Cristiani, Cristina Lemorini, F. Martini & L. Sarti.** The use of shell tool-kit: Some comments on the *Callysta* industry from a Middle Palaeolithic site of Southern Italy
7. **Jack Frazier.** Marine turtles: The ultimate tool kit
8. **Kordula Gostenčnik.** Worked bones from Virunum
9. **Aleta Guadelli.** The retouchoirs from the gravettian levels in Kozarnika cave
10. **Kristiina Mannermaa.** Bird bone artefacts from the Finnish Mesolithic and Neolithic
11. **Lyuba Smirnova (Holden).** Weights, not bludgeons. A reappraisal of the functionality of a particular category of objects in metal and bone materials
12. **Milena Stancheva.** Some remarks on worked bone technology in the Middle Ages
13. **Adam Vecsey.** Reconstruction of a Roman doll
14. **Adam Vecsey.** Reconstruction of a Gepid comb
15. **Petar Zidarov.** Comparative analysis of the worked bone assemblages from the Late Chalcolithic settlement and necropolis at Durankulak, NE Bulgaria