## THE 7TH FROM THE SOIL TO THE IRON PRODUCT – THE TECHNOLOGY OF MEDIEVAL IRON SMELTINGIRON SMELTING CAMP IN HUNGARY IN 2015

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Nowadays, the development of technology rushes past the people of the machine-based technical civilisation, therefore we fail to understand the technological wonders that surround us. One of these is the ancient technology of iron smelting. Every summer, a five-day long international Iron Smelting Camp is organised in Somogyfajsz in which you can get to know the hard and laborious work through which we will get from the iron ore to the iron products.

## **General information**

Place: Somogyfajsz (40km south from Lake Balaton in Hungary) Time: 1-5th July 2015 (Wednesday-Sunday)

Fee: EUR 100, which contains five-day full board accommodation in the mansion of Somogyfajsz

Registration: Adam Thiele, mechanical engineer, PhD student, smith, thiele.adam@gmail.com, +36 30 374 0671

Organiser: Somogy Provincial Association for Nature Conservation and Green Corridor Public Foundation

Budapest University of Technology and Economics, Faculty of Mechanical Engineering, Department of Materials Science and Engineering

## **Detailed program**

1st day: Visiting the Bloomery Museum of Somogyfajsz, constructing charcoal piles, building furnaces

 $2^{nd}$  day: Mining and roasting bog iron ore, building furnaces, burning charcoal

 $3^{rd}$  day: Iron smelting, forging the resulted blooms to bars  $4^{th}$  day: Opening the charcoal piles, iron smelting, forging the resulted blooms to bars

5<sup>th</sup> day: Forging iron products of the iron bars

For more information please visit to the website: www.bucavasgyuro.net



Fig. 1: Remains of excavated embedded furnaces in the Somogyfajsz Bloomery Museum dated to the second half of the 10th century





Fig. 2, 3: Mining bog iron ore which situated in bog iron ores form lenses close to the surface of the ground. These lenses can be found in the beds of brooks, where the brook has eroded one to two metres below ground level



Fig. 4: Iron smelting in reconstructed bloomery furnaces



Fig. 5: Burning charcoal in two charcoal piles of 1–2 m² volume. The place of the camp is in a forest near to a brook where a ca. 300m² free area is provided for the participants



Fig. 5: Forging the iron bloom to bar



Fig. 6: Forging the iron bloom to bar