Historical wood utilization in the district of Opava in the Middle Ages

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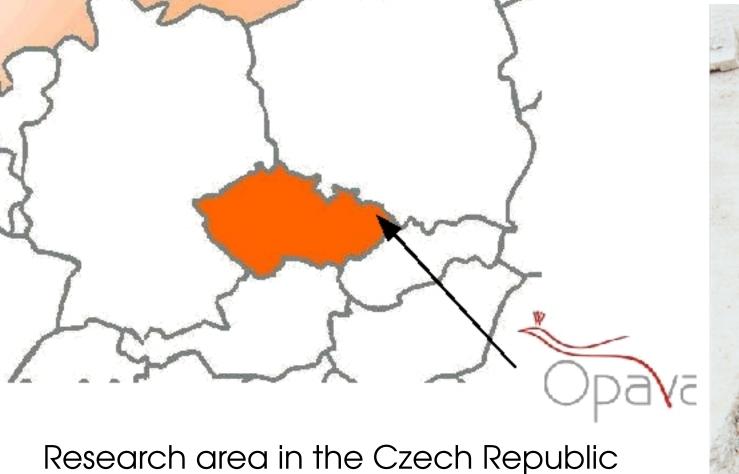
GOAL

Austria 2011

Microscopic species identification of wooden samples from archeological research of Opava town.

Material and Methods

During 2002–2006 various archaeological research of rescue character was carried out in the historical centre of the Opava town. Besides usual found objects (china; glass; leather, bone and horn products; metal artefacts) a lot of wooden objects and wooden construction elements were found. Wooden artefacts preserved in Opava conditions are usually in a good state.





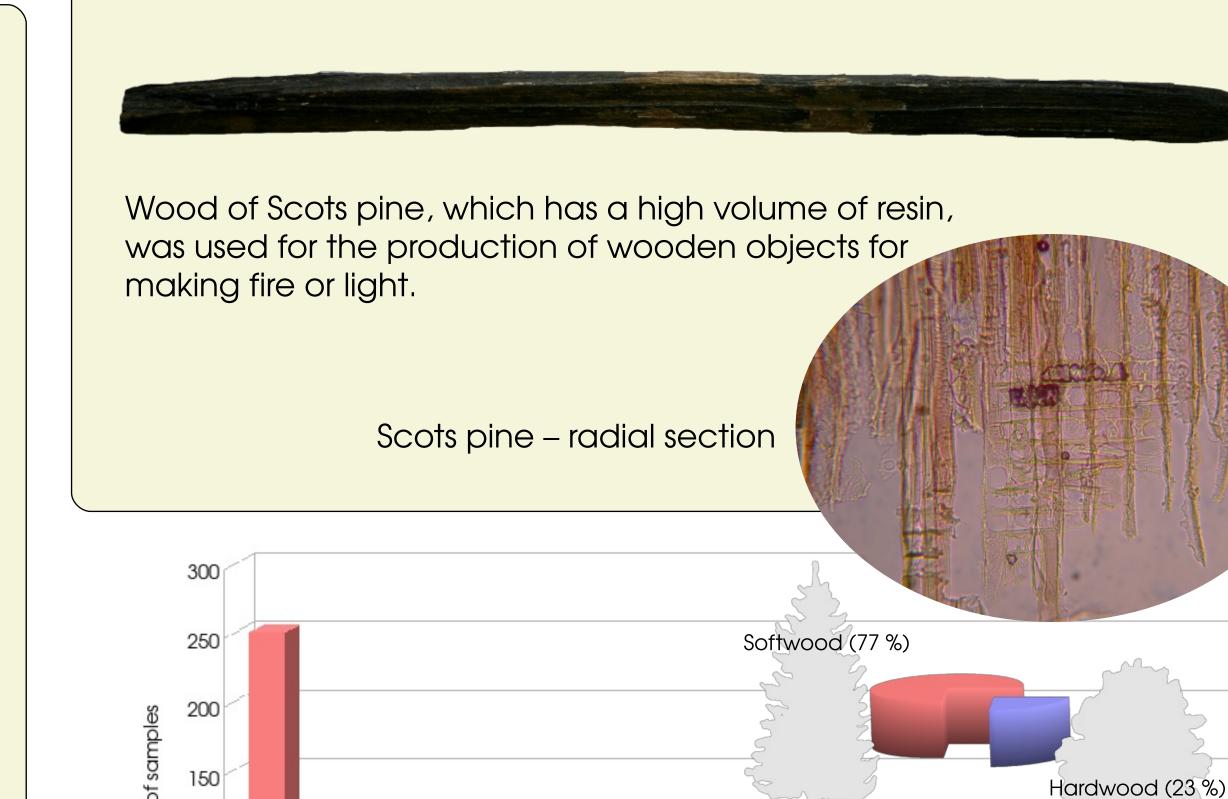


Thin sections were made from samples with use of a blade. Subsequently, temporary micro slides were made for microscopic observation.



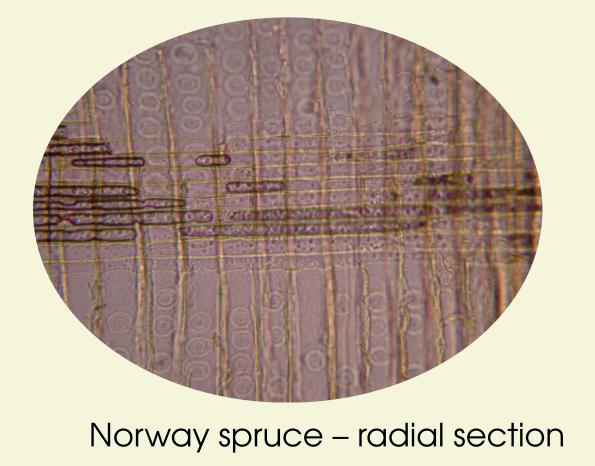
Pavement made of wood (spruce, fir)

Waste reservoir (fir, spruce)

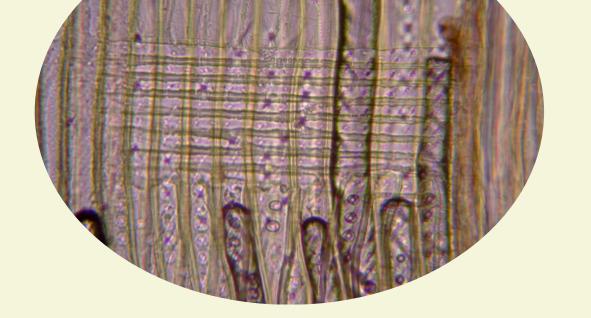


Results

In total, 616 wooden samples from Opava findings were microscopically analysed. Wood of the following species was identified: Picea, Abies, Pinus, Larix, Quercus, Fraxinus, Ulmus, Cerasus, Fagus, Tilia, Acer, Alnus and Carpinus.







Fir – radial section

Bottoms and segments of dishes. Made of spruce, larch and fir.

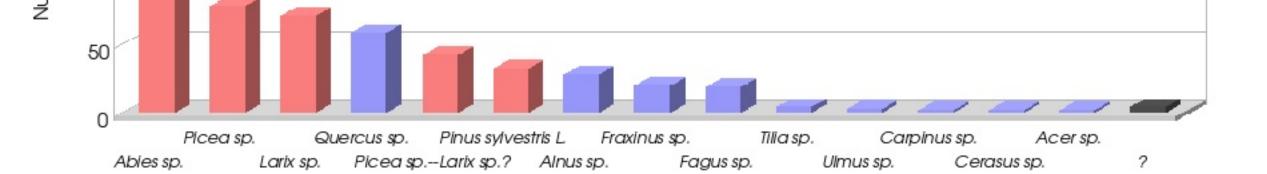


Chart of wood species occurence in identified samples (small samples only)

Image: Contract of the section of t

Hardwood was preferred for the production of turned wooden containers. As an example, there are parts of a turned bowl made of ash.

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Ash – transverse section

CONCLUSION

The found wooden artefacts prove that wood was an important building material and a raw material to produce artefacts in the life of a medieval person.



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