

# Farming in the Forest

## Ecology and Economy of Fire in Prehistoric Agriculture

3rd International Schöntal Conference, 11-15 July 2012, Kloster Schöntal, Germany

### *Preliminary Program*

Wednesday, 11 July 2012:

*Workshop* (14:00 to 18:00) Early arrived participants may already look at the material from 10.00 on.

*Opening lecture* (about 19:00, after evening meal)

- Farming in the forest: Slash-and-burn agriculture and its potential role in the diffusion of Neolithic economy. **Wolfram Schier**

Thursday, 12 July 2012:

*Neolithic land use in Central Europe*

Morning (8:00, after breakfast), Session 1:

*Investigations from the pre-alpine lowland:*

- Secondary Forest Cycles, Charcoal, Neolithic Settlements: New palynological, sedimentological and archaeological evidence from Degersee. **Angelika Kleinmann, Josef Merkt, Martin Mainberger**
- Modelling subsistence strategies and spatio-temporal dynamics of the lake-dwellings in Sipplingen (Lake Constance) and in Lake Degersee in the 4<sup>th</sup> millennium BC. **Tilman Baum**
- Accessing human impact by quantitative vegetation reconstruction (REVEALS and LOVE) – a case study from the Western Lake Constance area. **Jutta Lechterbeck**
- Geräte zur Wald- und Landwirtschaft? - Holzobjekte aus neolithischen Feuchtbodensiedlungen. **Helmut Schlichterle**
- Neolithische Steinbeile aus Feuchtbodensiedlungen des nördlichen Alpenvorlands und ihre Herstellung. **Michael Kaiser**

Afternoon (13:00, after lunch), Session 2:

*Investigations from Northern Germany and Eastern Europe:*

- New evidence for early Funnelbeaker slash-and-burn activity from northern Germany. **Ingo Feeser**
- Clearance, woodland management and agriculture in primeval forests. **Wiebke Kierleis**
- Neolithic land use in northwestern Germany reconstructed by pollen and charcoal data. **Annette Kramer**
- Holocene forest dynamics and human impact: a palaeoecological study of Lake Lünsee in the Westensee area, northern Germany. **Mykola Sadovnik** and Oliver Nelle
- Traces of "Forchtenberg" slash and burn cultivation in the sediments of the Komořany Lake, Czech Republic? **Dagmar Dreslerová, Tomáš Bešta, Jan Novák**

### *Historic examples for fire cultivation and recent slash-and-burn experiments*

- Slash-and-burn experiments in Estonia. **Kersti Kihno** and Liisi Jääts

POSTER: • Changing slash-and-burn landscapes in South Estonia. **Pille Tomson**

Friday, 13 July 2012:

### *Models for farming systems of the Neolithic and different aspects of their economy*

**Morning (8:00, after breakfast), Session 3:**

- Slash-and-burn agriculture: advantage, risk, side effects – the archaeobotanical view. **Manfred Rösch**
- A simulation of the potential for farming in the European Forest. **Carsten Lemmen**
- The Bandkeramik agricultural system - a new vision of subsistence? **Angela Kreuz**
- Permanent vs. shifting cultivation: the farming system of Neolithic LBK (7800-6900 BP). **Mehdi Saqalli** and **Aurélie Salavert**
- Models of Land Cultivation in the Neolithic in Southeastern Poland. **Renata Zych**
- Fire-Dependent Subsistence Economies in Anthropogenic Ecosystems: Theory and Archaeological Evidence from the American Southwest. **Alan Sullivan**
- Actual agricultural practices and tools in developing countries of Africa and Asia as support for model development with regard to Neolithic agriculture. **Ludger Herrmann**, U. Schuler, P. Erbe
- Wood-pasture: types and models for prehistory. **Eva Rosenstock** and Rolf Minhorst

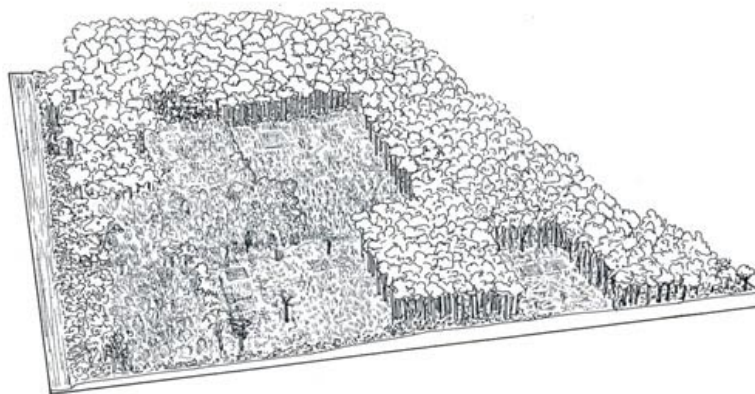
Short presentation of the Forchtenberg Project. **Manfred Rösch**

POSTER:

- Modeling a typical LBK hamlet functioning at the household level. **Mehdi Saqalli**
- Land-use history in the south of Valdai Hills (Russia) – an example of agriculture on its natural limit. **Ekaterina Kuznetsova** and E.Yu. Novenko
- Millet farming in tropical moist deciduous forests of western India. **Mukund Kajale**

**From noon to evening: Excursion to the experimental site**

(with lunch and barbecue in the evening)



Saturday, 14 July 2012:

## *Brandspuren in Böden und archäologischen Befunden*

### *Traces of fire in soils and archaeological records*

Session 4 and Session AG Boden und Archäologie (8:00, after breakfast):

- Past fires in the forest - what can soils tell us about it? **Eileen Eckmeier**

### *Vegetation history, landscape changes, human impact and fire*

- Integrated modeling of Holocene land cover in Europe. **Jed Kaplan**, Kristen M. Krumhardt, Mirjam Pfeiffer, Basil A. S. Davis, Achille Mauri, Pamela M. Collins, and Marco Zanon
- Evidences of prehistoric forest disturbance in central part of European Russia (pollen and macro charcoal data). **Elena Novenko**, I.S. Zuganova, E. M. Volkova
- Charcoal from soil: the history of fire and landscape changes related to human activities in a mountain system (Mont Lozère, France). **Marie-Claude Bal-Serin**, Ph. Allée, M. Liard, R. Julia Bruges, G. Servera-Vives, Y. Miras, S. Riera Mora, A. Maria
- Late Holocene man-made fire in Central Europe, quantitative and qualitative comparison of soil charcoal records from local to regional levels. **Vincent Robin** and Oliver Nelle

POSTER:

- Fire and Water - The dendro-ecological reconstruction of a Late-Glacial pine forest in Reichwalde, E-Germany. **Hans-Peter Stika**, I. Boeren, M. Friedrich, M. Knipping, M. Küppers
- Modeling of natural and anthropogenic burning over the course of the Holocene. **Mirjam Pfeiffer** and Jed O. Kaplan
- Holocene vegetation change and woodland fire in tropical dry deciduous monsoon forest. First results from Lonar Crater Lake, Maharashtra, Central India. **Nils Riedel** (*possibly cancelled*)
- The double mosaic. Ideas on regeneration from the Forchtenberg-experiment. **Erhard Schulz**
- Beyond Forchtenberg. Soil development and stabilisation of artificial deposits. **Stelian Nistor** mit Erhard Schulz

### *Soils and prehistoric agriculture*

- Investigating soils and palaeosoils across central Europe to better understand the relationship between Neolithic farmers and their landscapes. **Damien Ertlen**, Vysloužilová B., Delhon C., Berger J.-F., Kalicki T., Šefrna L., Schwartz D.
- Black Soil relics in the Lower Rhine Region as cryptic (young-end-) neolithic features. **Renate Gerlach**, Eileen Eckmeier, Peter Fischer, Alexandra Hilgers

POSTER:

- Subfossil "black soils" at the western border of the Nördlinger Ries (Southern Germany) – evidence for prehistoric human impact on the environment? **Sonja Mailänder**, Joachim Eberle & Wolf Dieter Blümel
- P-status in archaeological top soil relicts - is it possible to reconstruct impacts of the prehistoric agriculture. **Franziska Lauer**, Stefan Pätzold, Wulf Amelung, Renate Gerlach
- Some aspects on tillage induced colluvial deposits at archaeological excavation sites. **Julia Gerz** and Mechthild Klamm

### *Charcoal properties*

- Reconstruction of past fire regimes by geochemical analyses of charcoals. **Mareike Wolf**, E. Lehdorff, G.L.B. Wiesenberg, L. Schwark, W. Amelung
- Reflectance of Forchtenberg charcoal: implications for fire temperature and preservation potential. **Christoph Hartkopf-Fröder**, Otto Ehrmann, Renate Gerlach, Sven Dauber, Kai Jasper und Ralf Littke
- Micromorphological observations on the alteration of charcoals in soils. **Otto Ehrmann**
- Technical and legal chances and delimitations of the production of biochar for soils at the current time 2012. **Carola Holweg**

### POSTER:

- Variations in the combustion record of Middle to Lower Rhine Valley loess-palaeosoil sequences. M. Mrowald, **M. Wolf**, E. Lehdorff, M. Frechen, M. Kehl, J. Protze, W. Amelung

Sunday, 15 July 2012:

### **Excursion to the Nördlinger Ries**