

## SESSION 2

## MANAGEMENT PRACTICES IN AGROFORESTRY SYSTEMS IN THE TEMPERATE ZONES, BREEDING AND CULTIVATING ASPECTS, TECHNICAL AND POLITICAL PROBLEMS, MULTIFUNCTIONAL MODELS

*Main lecture*

- Forest management practices in temperate-zone agroforestry: silvicultural and policy aspects in the United States  
H. E. GARRETT and L. BUCK, USA . . . . . 127

*Contributions*

- Agroforestry system improves reafforestation method  
S. T. WAKO, CZECH REPUBLIC . . . . . 157
- Concept for designing multifunctional site-specific agroforestry systems by using dynamic optimization  
H. H. GERKE, GERMANY . . . . . 169
- The effects of fast growing trees on soils - results from long term studies in Germany  
F. MAKESCHIN, GERMANY . . . . . 183
- Afforestation of former farm land and forest tree breeding  
N. KOHLSTOCK, G. NAUJOKS and V. SCHNECK, GERMANY . . . . . 209
- The importance of non-timber forest products (Forest fruits, edible mushrooms, medical plants)  
L. SISAK, CZECH REPUBLIC . . . . . 213
- Multipurpose trees in traditional farming systems, two case studies (Africa, Europe)  
F. HERZOG, GERMANY . . . . . 219
- Study of the effect of the polyethylene mulching on the early growth of Walnut (*Juglans* spp.) intercropped with alfalfa (*Medicago sativa* L.)  
P. PARIS, F. CANNATA and G. OLIMPIERI, ITALY . . . . . 233
- Alternative agricultural land-use with fast growing trees: technical research and development of a biologically-based economic modelling system for Europe  
D. AUCLAIR, FRANCE . . . . . 251
- Root and nitrogen dynamics in the hedgerow-field crop interface, consequences for land use management  
R. METTE and B. SATTELMACHER, GERMANY . . . . . 275