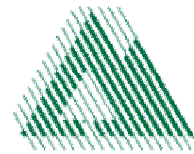


## Program

**Austro2003: High Tech Forest Operations for Mountainous Terrain**

October, 5<sup>th</sup>-9<sup>th</sup> 2003  
Schlaeggl, Austria



<b>Sun, October 5, 2003</b>	
17:00 – 19:00	Meeting registration
19:00 – 21:00	Ice breaker
<b>Mon, October 6, 2003</b>	
07:00 onwards	Meeting registration
09:00 – 09:30	Welcome address
09:30 – 10:00	Coffee break
	<b>Computer-aided Engineering Approaches to Forest Operations</b>
10:00 – 10:20	Modeling steep terrain harvesting risks using GIS ( <i>Rien Visser</i> )
10:20 – 10:40	A GIS-based interactive Spatial Decision Support System (SDSS) for SFM-oriented alternative forest harvesting strategies in mountainous terrain ( <i>Masami Shiba</i> )
10:40 – 11:00	Gradeability analysis of forest vehicles ( <i>Hans Rudolf Heinemann</i> )
11:00 – 11:20	Improving automatic grid cell based road route location procedures ( <i>Hans Rudolf Heinemann</i> )
	<b>Ergonomics</b>
11:20 – 11:40	An ergonomics checklist on the analysis of occupational accident risk factors ( <i>Mehmet Erker</i> )
11:40 – 12:00	Mental stress on harvester operators ( <i>Christiane Berger</i> )
12:00 – 13:30	Lunch
	<b>Environmental Impact Analysis</b>
13:30 – 13:50	Residual stand damage caused by mechanized harvesting systems ( <i>Barbara Limbeck-Lilienau</i> )
13:50 – 14:10	Growth after biomass removal during precommercial thinning ( <i>Hubert Sterba</i> )
14:10 – 14:30	Comparative study about the impact of wheeled and tracked forest machines on roots ( <i>Bettina Wolf</i> )
14:30 – 14:50	Comparative study about the impact of wheeled and tracked forest machines on soil structure ( <i>Dietmar Matthies</i> )
14:50 – 15:10	Determining the performance and the environmental impact on forest machines – classification numbers and performance diagrams ( <i>Günther Weise</i> )
15:10 – 15:30	Quantification of environmental performance indicators EPIs for forest roads ( <i>Hans Rudolf Heinemann</i> )
15:30 – 16:00	Coffee break
	<b>Environmental Impact Analysis</b>
16:00 – 16:20	Environment impact assessment (E.I.A.) for the evaluation of forest roads in mountainous conditions ( <i>Kosmas Doukas</i> )
16:20 – 16:40	Environmental conservation effects of forest roads ( <i>Hideo Sakaï</i> )
	<b>Operations Planning</b>
16:40 – 17:00	Technology development as driving force for rationalisation in forest companies ( <i>Mathias Hoesch</i> )
17:00 – 17:20	Harvest layout planning for high altitude protection forests ( <i>Hans Rudolf Heinemann</i> )
17:20 – 17:40	Forest Service Enterprises in the enlarged Europe ( <i>Werner Große</i> )
17:40 – 18:00	Planning the technologies of wood extraction for minimizing impact on environment ( <i>Oleg Styranivsky</i> )
19:30 – 21:30	Reception

<b>Tue, October 7, 2003</b>	
	<b>Operations Analysis</b>
08:00 – 08:20	Thinning with the Valmet 500T steep-terrain harvester ( <i>Raffaele Spinelli</i> )
08:20 – 08:40	Technical evaluation of mobile forest skylines in steep terrain ( <i>Özgür Topalak</i> )
08:40 – 09:00	Productivity of single grip harvesters in nature oriented forestry – preliminary results out of standardized long term data recordings ( <i>Reinhard Pausch</i> )
09:00 – 09:20	Factors of the efficiency of harvesters and forwarders in logging ( <i>Jindrich Neruda</i> )
09:20 – 09:40	The new Valmet 801 Combi – First operational test results under Central European conditions ( <i>Ekkehard von Bodelschwingh</i> )
09:40 – 10:00	Productivity of a tracked excavator-based processor in the North-eastern Italian Alps ( <i>Raffaele Cavalli</i> )
10:00 – 10:30	<b>Coffee break</b>
	<b>Operations Analysis</b>
10:30 – 10:50	Documentation and evaluation of vehicle movements in the forest – an element for quality management of machine operations ( <i>Joachim Hamberger</i> )
10:50 – 11:10	Leadtime estimation and harvesting methods: a simulation approach ( <i>Peter Daxner</i> )
11:10 – 11:30	Are forest operations on steep terrain (average of 70 % slope inclination) with wheel mounted forwarders without slippage possible? ( <i>Friedbert Bombosch</i> )
11:30 – 11:50	Quality damage at the forest landings caused by blue stain fungi Evaluation of the value loss ( <i>Klaus Friedl</i> )
11:50 – 12:10	Development of a highly accurate navigation system for forestry vehicles and workers ( <i>Tetsuhiko Yoshimura</i> )
12:10 – 12:30	Synthetic rope to replace wire rope in mountain logging operations ( <i>John Garland</i> )
12:30 – 14:00	<b>Lunch</b>
	<b>Road Engineering</b>
14:00 – 14:20	Evaluation of forest road network effectiveness ( <i>Thomas Steinmüller</i> )
14:20 – 14:40	The application of satellite images to forest road network layout in turkish forestry ( <i>Burak Aricak</i> )
14:40 – 15:00	A research on the determination of the forest roads groundbase type by terrestrial methods ( <i>Hulusi Acar</i> )
15:00 – 15:20	Soil stabilization with waste of paper industry (WPI) for sub-base of forest roads ( <i>Habip Eroglu</i> )
15:20 – 15:40	Building of forest roads database by GPS/GIS techniques for turkish forestry ( <i>Selcuk Gumus</i> )
15:40 – 16:00	Inventory of primary and secondary forest communications by the use of GPS in Croatian mountainous forest ( <i>Tibor Pentek</i> )
16:00 – 16:20	A case study using by GIS database for determining dimensions of hydraulic construction of forest roads for stream crossing ( <i>Erhan Caliskan</i> )
16:20 – 17:00	<b>Coffee break</b>
17:00 – 17:30	<b>Concluding remarks</b>
19:00 – 21:00	<b>Dinner</b>
<b>Wed, October 8, 2003</b>	
08:00 – 10:00	<b>FORMEC meeting</b>
08:00 – 18:00	<b>Visit Austrofoma</b>
<b>Thu, October 9, 2003</b>	
08:00 – 18:00	<b>Visit Austrofoma</b>

Sponsors

