

**Training School**

**FPS COST Action FP1401 GLOBAL WARNING**

“***Fungal taxonomy and fungal identification using traditional (i.e. not molecular) techniques***”

**22nd – 24th November 2016**

**Forest Research Institute, Sękocin Stary, Poland**

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**Monday 21 November**

arrival of participants to Warsaw and transfer to Groman Hotel in Sękocin Stary

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**Day 1 – Tuesday 22 November**

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**IBL, Building A**, conference room, 2nd floor

**09:00 Registration**

**09:15** Welcome by the IBL authority (Janusz Czerepko, Director)

**09:30** Welcomeby the Chair of the COST Action (René Eschen)

**09:45** Methods of tree and stand health assessment based on defoliation, discoloration, vitality and synthetic index of damage (Tomasz Oszako)

**10:30** Coffee break

**11:00** Health condition and genetic differentiation level of forest tree species e.g. ash, oak, beech (Justyna Nowakowska)

**11:30** Monitoring of forest stands infected by *Phytophthora* with air and satellite imagery – poster presentation and Quercus platform (Rynkiewicz A., Kotlarz J., Kacprzak M., Nasiłowska S., Rotchimmel K.)

**12:00** Lunch

**Building B**, small conference room, 1st floor

**Practical courses**

**14:00-15:30** Field trip in the forest surrounding IBL to observe ash dieback and alder decline phenomenon (Tomasz Oszako, Miłosz Tkaczyk)

Sampling of ascomycetes (David Minter with IBL staff)

**15:30** Coffee break **Building A**, 2nd floor

**16:00-17:30** Morphological studies of root rot fungi *Armillaria* spp., *Heterobasidion* *annosum* and other basidiomycetes (Antonio Moretti, Anna Żółciak)

**19:00** Dinner at Groman Hotel

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**Day 2 – Wednesday 23 November**

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**Building A**, conference room, 2nd floor

**09:00** Taxonomy and identification of basidiomycetes (Antonio Moretti)

**10:30** Coffee break

**11:00** Biology, ecology, taxonomy and identification of oomycetes (Tomasz Oszako)

**12:00** Lunch

**Building B**, conference room, 1st floor

**Practical courses**

**14:00-15:30** Laboratory exercises on entomopathogenic fungi, soil-borne pathogens present in nurseries like *Fusarium* spp., *Rhizoctonia* spp., antagonistic microorganisms like *Bacillus* spp. and *Trichoderma* spp. used as biocontrol agents in plant protection (Alicja Sierpińska, Katarzyna Kubiak-Siwiec, Hanna Szmidla, Aleksandra Rosa-Gruszewska)

**15:30** Coffee break **Building A**, 2nd floor

**16:00-17:30** Microscopic observation of oomycetes present in forest nurseries and stands (Miłosz Tkaczyk)

**19:00** Dinner at Groman Hotel

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**Day 3 – Thursday 24 November**

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IBL, **Building A**, conference room, 2nd floor

**09:00** Taxonomy and identification of ascomycetes (David Minter)

**10:30** Coffee break

**11:00** The role of science in Pest Risk Assessment (Tomasz Oszako)

**12:00** Lunch

**Building B**, small conference room, 1st and 2nd floor

**Practical courses**

**14:00-15:30** Practical exercises in greenhouse concerning ash dieback, *Chalara fraxinea* and *Phytophthora* spp. inoculation according to Koch postulate – group I (Tomasz Oszako, Miłosz Tkaczyk)

Microscope observation of Ascomycetes including *Chalara fraxinea* – group II (David Minter, Anna Żółciak)

**15:30** Coffee break **Building B**, 1st floor

**16:00-17:30** Practical exercises in greenhouse concerning ash dieback, *Chalara fraxinea* and *Phytophthora* spp. inoculation according to Koch postulate – group II (Tomasz Oszako)

Microscope observation of Ascomycetes including *Chalara fraxinea* – group I (David Minter, Anna Żółciak)

**17:30** **Closing remarks** (René Eschen)

**19:00** Dinner at Groman Hotel

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**Friday 25 November - departure**