



Universitatea
Ștefan cel Mare
Suceava



IUFRO WP 7.03.10 Methodology of forest insect and disease survey in Central Europe
“Recent Changes in Forest Insects and Pathogens Significance”
Working Party Meeting 16-20 September 2019 - Suceava, Romania

Meeting programme (overview)

Monday, 16 September 2019

13:00 – 19:00 **Arrival**

17:00 – 19:00 **Registration**

19:30 **Dinner**

Tuesday, 17 September 2019

07:30 – 08:30 ***Breakfast*** and registration

09:00 – 09:40 **Conference welcome and opening**

09:40 – 10:00 **Phytosanitary situation of Suceava County forests**

10:00 – 11:20 **Meeting Session 1: Oral presentations (4 presentations) (hotel conf. hall)**

11:20 – 11:40 ***Coffee break***

11:40 – 13:00 **Meeting Session 2: Oral presentations (4 presentations) (hotel conf. hall)**

13:00 – 14:00 ***Lunch break***

14:00 – 15:40 **Meeting Session 3: Oral presentations (5 presentations) (hotel conf. hall)**

15:40 – 16:00 ***Going to “Ștefan cel Mare” University***

16:00 – 17:30 **Poster session (*coffee break included*) (University E Building hall)**

17:30 – 19:30 **Free time (optional short Suceava City tour)**

19:30 ***Dinner***

Wednesday, 18 September 2019

07:30 – 08:30 **Breakfast**

08:30 **Field trip**

Thursday, 19 September 2019

07:30 – 08:30 **Breakfast**

09:00 – 10:40 **Meeting Session 4: Oral presentations (5 presentations) (hotel conf. hall)**

10:40 – 11:00 **Coffee break**

11:00 – 12:40 **Meeting Session 5: Oral presentations (5 presentations) (hotel conf. hall)**

12:40 – 14:00 **Lunch break**

14:00 – 15:40 **Meeting Session 6: Oral presentations (5 presentations) (hotel conf. hall)**

15:40 – 16:00 **Coffee break**

16:00 – 17:40 **Meeting Session 7: Oral presentations (5 presentations) (hotel conf. hall)**

17:40 – 18:30 **Workgroup meeting, Closing conference (hotel conf. hall)**

19:30 **Conference dinner**

Friday, 20 September 2019

07:30 – 08:30 **Breakfast**

09:00 – 13:00 **Visit the Princely Fortress of Suceava and Bukovina Village Museum**

13:00 – 14:00 **Lunch break**

14:00 **Departure**

Meeting programme (detailed)

Monday, 16 September 2019

13:00 – 19:00 **Arrival**

17:00 – 19:00 **Registration**

19:30 **Dinner**

Tuesday, 17 September 2019

07:30 – 08:30 **Breakfast and registration**

09:00 – 09:40 **Conference welcome and opening**

Valentin Popa, Rector of "Ștefan cel Mare" University of Suceava

Miloš Knížek, Coordinator of IUFRO WP 7.03.10 Methodology of forest insect and disease survey in Central Europe

Gheorghe Flutur, President of Suceava County Council

Gheorghe Mihăilescu, Director of National Forest Administration ROMSILVA

09:40 – 10:00 Phytosanitary situation of Suceava County forests

Daniela Lupaștean, "Ștefan cel Mare University" of Suceava, Forestry Faculty, Romania

Session 1: Information platform on pests occurrence in Europe

Chair: Mihai-Leonard Duduman/ Daniela Lupaștean

10:00 – 10:20 Bark beetle community changes in north

Bjørn Økland, Norwegian Institute of Bioeconomy Research (NIBIO), Norway

10:20 – 10:40 Occurrence of forest damaging agents in 2018 in Czechia

Miloš Knížek, Forestry and Game Management Research Institute, Czechia

10:40 – 11:00 The first reported outbreak of *Cephalcia abietis* (L.) (Hymenoptera: Pamphiliidae) in Romania

Nicolai Olenici, National Institute for Research and Development in Forestry "Marin Drăcea", Romania

11:00 – 11:20 Biodiversity and insect pests - a study from south-eastern Poland

Wojciech Grodzki, Forest Research Institute, Poland

11:20 – 11:40 **Coffee break**

Session 2: Information platform on diseases occurrence in Europe

Chair: Dănuț Chira

- 11:40 – 12:00 Ophiostomatoid fungi associated with bark beetles on Scots pine in Ukraine
Kateryna Davydenko, *Ukrainian Research Institute of Forestry & Forest Melioration, Ukraine*
- 12:00 – 12:20 The Pine Wilt Disease threat to the European conifers: Lessons from 20 years containment experience in Portugal and recent research developments
Luis Bonifacio, *National Institute of Agricultural and Veterinary Research, Portugal*
- 12:20 – 12:40 Powdery mildew fungi on trees and shrubs in forests of Azerbaijan
Dilzara Aghayeva, *Institute of Botany, Azerbaijan National Academy of Sciences, Azerbaijan*
- 12:40 – 13:00 The occurrence of the pathogenic fungi *Cryptostroma corticale*, *Prosthecium pyriforme* and *Eutypella parasitica* on *Acer pseudoplatanus* from 2017 to 2019 in Slovakia
Andrej Kunca, *National Forest Centre – Forest Protection Service, Slovakia*
- 13:00 – 14:00 **Lunch break**

Session 3: The pest and disease controls in the certificated forests

Chair: Miloš Knížek

- 14:00 – 14:20 Development of semiochemical based bark beetle management methods for spruce stands
Rastislav Jakus, *Institute of Forest Ecology, Slovak Academy of Sciences, Slovakia*
- 14:20 – 14:40 Integrated Pest Management of the Pine Weevil (*Hylobius abietis*)
Frauke Fedderwitz, *Crop Research Centre, Ireland*
- 14:40 – 15:00 Biological approach for another newcomer pest within Romanian spruce forests: *Cephalcia abietis* (L.) (Hymenoptera: Pamphiliidae)
Marius Paraschiv, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*
- 15:00 – 15:20 Sanitation methods for landings of bark beetle infested wood
Petr Zahradnik, *Forestry and Game Management Research Institute, Czechia*
- 15:20 – 15:40 Integrated control methods for the most important lethal invasive pathogens
Danut Chira, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*
- 15:40 – 16:00 **Going to "Ștefan cel Mare" University for Poster Session**

Poster Session: Forest Pests and Diseases – Monitoring – Risk Assessment – Control

Location: "Ștefan cel Mare" University, E Building, the Large Hall

Chair: Daniela Lupaștean, Mihai-Leonard Duduman

- 16:00 – 17:30 **Poster presentations – the details of titles and authors of the posters are listed at the end of the programme.**
- 17:30 – 19:30 **Free time (optional short Suceava City tour)**
- 19:30 **Dinner**

Wednesday, 18 September 2019

- 07:30 – 08:30 **Breakfast**
- 08:30 – 21:00 **Field trip**
- Zamostea old growth forest: *Fraxinus excelsior* diseases and other aspects;
 - Voroneț Monastery - Sistine Chapel of the East (UNESCO - World Heritage sites);
 - Field lunch;
 - Valea Putnei location: Bark beetle foci in mountain Norway spruce forests (*Ips typographus*, *Ips duplicatus* etc.);
 - Giupalău spruce old growth forest: biodiversity and stability
 - Field dinner: Valea Putnei Forest House.

Thursday, 19 September 2019

- 07:30 – 08:30 **Breakfast**

Session 4 Non-native organisms - network for sharing information on distribution and spreading

Chair: Wojciech Grodzki

- 09:00 – 09:20 The oak lace bug (*Corythucha arcuata*) in Hungary – many questions but only few answers so far
Marton Jozsef Paulin, NARIC Forest Research Institute, Hungary
- 09:20 – 09:40 Preliminary results on the presence of *Hymenoscyphus fraxineus* in Western and North-Western Romania
Ecaterina Fodor, University of Oradea, Faculty of Environmental Protection, Forestry and Forest Engineering Department, Romania

- 09:40 – 10:00 *Ips typographus* in the UK - Establishment and Eradication
Max Blake, *Forest Research, United Kingdom*
- 10:00 – 10:20 Wild Spotter: Engaging and empowering citizen science volunteers to protect against invasive species
G. Keith Douce, *University of Georgia, USA*
- 10:20 – 10:40 Population growth and overwintering potential of the invasive ambrosia beetle *Xylosandrus germanus* in the West Carpathians, Central Europe
Peter Zach, *Institute of Forest Ecology, Slovak Academy of Sciences, Slovakia*
- 10:40 – 11:00 **Coffee break**

Session 5 Diagnostic tools and evidence systems for forest pests and diseases

Chair: Andrej Kunca

- 11:00 – 11:20 Ten years of monitoring in declining oak woodland
Nathan Brown, *Rothamsted Research, United Kingdom*
- 11:20 – 11:40 Distribution and behaviour of the northern bark beetle (*Ips duplicatus*) in Austria
Bernhard Perny, *Federal Research Centre for Forest (BFW), Austria*
- 11:40 – 12:00 ‘Oak bodyguards’ citizen science program: Can school children contribute to ecological research by playing with modelling clay?
Elena, Valdes-Correcher, *INRA UMR Biogeco, France*
- 12:00 – 12:20 Emerald ash borer in European part of Russia: 2019 situation update
Yuri Baranchikov, *Sukachev Institute of Forest FRC KSC, Russian Academy of Sciences, Russia*
- 12:20 – 12:40 Case study concerning the *Leucaspis* genus in Romania
Isaia Gabriela-Aurora, *Transilvania University of Brasov, Faculty of Silviculture and Forest Engineering, Romania*
- 12:40 – 14:00 **Lunch break**

Session 6 Risk assessment of actual and introduced pests and diseases

Chair: Bjørn Økland

- 14:00 – 14:20 Assessment and prediction of biotic risks in the forests of Ukraine
Valentyna Meshkova, *Ukrainian Research Institute of Forestry & Forest Melioration, Ukraine*
- 14:20 – 14:40 Development of the mobile application for assessment and management of bark beetle infestation
Alexander Mraz, *Czech University of Life Sciences Prague, Czechia*
- 14:40 – 15:00 Insect traps are an excellent way to survey for fungal pathogens
Jean Berube, *Canadian Forest Service, Canada*

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- 15:00 – 15:20 Historical herbaria collections are treasure troves for the study of forest pest invasions
Natalia Kirichenko, *Sukachev Institute of Forest FRC KSC, Russian Academy of Sciences, Russia*
- 15:20 – 15:40 The distribution and spread of the non-native *Ips amitinus* in Sweden
Dragos Cocos, *Swedish University of Agricultural Sciences, Sweden*
- 15:40 – 16:00 **Coffee break**
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Session 7 Forest pest and diseases: ecology and control

Chair: Valentyna Meshkova

- 16:00 – 16:20 The quantification of alleles of a resistance gene encoding leucoanthocyanidin reductase (PaLAR3) from Norway Spruce
Muhammad Kashif, *Natural Resources Institute Finland (LUKE), Finland*
- 16:20 – 16:40 Are Mediterranean climate conditions suitable for *Lecanosticta acicola* establishment and spreading?
Giorgio Maresi, *Foundation Edmund Mach, Italy*
- 16:40 – 17:00 Analysis and next-year forecast of beetle, borer, and drought-induced tree mortality in California
Jason Maxfield, *Portland State University, USA*
- 17:00 – 17:20 Seasonal response of bark and wood boring insects to (-) α pinene and ethanol in three resinous forests
Lupaștean Daniela, *"Ștefan cel Mare University" of Suceava, Forestry Faculty, Romania*
- 17:20 – 17:40 The influence of principal weather parameters of the *Ips duplicatus* flight activity
Duduman Mihai-Leonard, *"Ștefan cel Mare University" of Suceava, Forestry Faculty, Romania*
- 17:40 – 18:30 **Workgroup meeting, Closing conference**
- 19:30 **Conference dinner**

Friday, 20 September 2019

- 07:30 – 08:30 **Breakfast**
- 09:00 – 13:00 **Visit the Princely Fortress of Suceava and Bukovina Village Museum**
- 13:00 – 14:00 **Lunch break**
- 14:00 **Departure**
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**Poster Session (coffee break included) – "Ștefan cel Mare" University, E Building, the Large Hall
Tuesday, 17 September, between 16:00 – 17:30**

Chair: Daniela Lupaștean/ Mihai-Leonard Duduman

Note: All posters are positioned in alphabetically order, after the name of first author

1. Distribution of the oak lace bug, *Corythucha arcuata* (Say.) (Hemiptera: Tingidae), in Romania
Flavius Balacenoiu, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*
2. Micological complex, associated with the four-eyed fir bark beetle *Polygraphus proximus* Blandford in its secondary range and its role in beetle/tree communications
Yuri Baranchikov, *Sukachev Institute of Forest FRC KSC, Russian Academy of Sciences, Russia*
3. Possibilities of using global positioning system (GPS) in the aerial treatments application against forest defoliators insects in Romania
Andrei Buzatu, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*
4. The regression of epidemic diseases by alien fungi: *Seiridium cardinale* as case study
Paolo Capretti, *Department of Agriculture, Food, Environment and Forestry (DAGRI), University of Florence, Italy*
5. *Ceresa bubalus* (Hemiptera: Membracidae) in oak plantations in north – eastern Romania
Constantin Ciornei, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*
6. Romanian *Beauveria bassiana* strain with potential for biological control of the invasive oak splendour beetle, *Agrilus biguttatus*
Daniel Cojanu, *Research-Development Institute for Plant Protection, Romania*
7. Field experience of *Beauveria brongniartii* application in the control of white grubs in nurseries and forest plantations in Moldova region
Ana-Cristina Fatu, *Research-Development Institute for Plant Protection, Romania*
8. *Pityogenes chalcographus* (Coleoptera: Scolytidae) in unmanaged and managed forests of Apuseni Natural Park, Romania
Ciprian George Fora, *Banat`s University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Romania*
9. Preliminary results on forest protection ecosystem services of red wood ant (*Formica rufa* group) and birds (Aves) in oak (*Quercus* sp.) forests of Hungary
Agnes Furjes-Miko, *NARIC Forest Research Institute, Department of Forest Protection, Hungary*
10. Monitoring of non-native insect species in forests of Slovakia
Andrej Gubka, *National Forest Centre – Forest Protection Service, Slovakia*

11. New diagnostic techniques for Pine wilt disease caused by pine wood nematode (*Bursaphelenchus xylophilus*)
Hyerin Han, *National Institute of Forest Science, Republic of Korea*
12. Influence of thermal-humidity and snow conditions on winter mortality of developmental stages of *Pityogenes chalcographus* (L.) under field and laboratory studies
Magdalena Kacprzyk, *University of Agriculture in Cracow, Institute of Forest Ecosystems Protection; Department of Forest Protection, Entomology and Forest Climatology*
13. The Last Tree Standing: a pilot study of spruce surviving bark beetle outbreak in the Bohemian Forest Mountains
Nataliya Korolyova, *Czech University of Life Sciences Prague, Faculty of Forestry and Wood Sciences, Czechia*
14. Late flushing trees avoid attack by moth larvae
Jan Kulfan, *Institute of Forest Ecology, Slovak Academy of Sciences, Slovakia*
15. Attraction of trap trees for *Ips duplicatus* Sahlb., *Ips typographus* L. and *Pityogenes chalcographus* L. (Coleoptera: Curculionidae) trapping
Jan Lubojacky, *Forestry and Game Management Research Institute, Czechia*
16. Future hormonal control method for a well-known problem
Ioan Andrei Manea, *Forest Research, United Kingdom*
17. The favorability of the oak forests in Romania for *Acrobasis tumidana* Denis & Schiffermuller, 1775 (Pyralidae, Lepidoptera) outbreak
Constantin Netoiu, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*
18. Seasonal dynamics of *Xylosandrus germanus* (Coleoptera: Curculionidae, Scolytinae) flight and attack in the northern part of the Eastern Carpathians (Romania) - preliminary results. National Institute for Research and Development in Forestry "Marin Drăcea", Romania
Nicolai Olenici, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*
19. Development and application of Loop-Mediated Isothermal Amplification for a simple and precise detection of the pinewood nematode *Bursaphelenchus xylophilus* in Korea
Lee Sang-Hyun, *National Institute of Forest Science, Republic of Korea*
20. Dynamics of a bark beetle community in a Norway spruce forest in the High Tatra Mountains, Slovakia
Nick Schafstall: *Czech university of Life Sciences in Prague, Czechia*
21. Identification of Forest Deceases by Combination of Baiting method and PCR
Tatiana Surina, *All-Russian Plant Quarantine Center, Russia*
22. Monitoring pathogens present in forest cultures in the current climate context
Ioan Tăut, *National Institute for Research and Development in Forestry "Marin Drăcea", Romania*

23. *Brenneria* and *Lonsdalea* species in Europe
Imola Tenorio-Baigorria, National Agricultural and Research Innovation Centre, Forest Research Institute, Department of Forest Protection, Hungary
24. Combination of Verbenone and MCH pheromone repellents for the management and control of *Ips typographus*
Ştefania Totos, Raluca Ripan Institute for Research in Chemistry, Babes-Bolyai University, Romania
25. Associational effects of European beech (*Fagus sylvatica*) on pine weevil damage received by Norway spruce (*Picea abies*)
Amelia Augusta Tudoran, Swedish University of Agricultural Sciences, Sweden
26. Vertical transmission of the *Beauveria bassiana* between the double-spined bark beetle *Ips duplicatus*
Jozef Vakula, National Forest Centre – Forest Protection Service, Slovakia
27. Processes are the same: case study of bark beetles in national park zones with different intervention
Hana Vanicka, Czech University of Life Sciences Prague, Faculty of Forestry and Wood Sciences, Czechia
28. Synthesis, formulation and field test of synthetic sex pheromone of *Lymantria monacha* L. (Lepidoptera: Lymantriidae)
Iuliana Vasian, Raluca Ripan Institute for Research in Chemistry, Babes-Bolyai University, Romania