

# IUFRO CONFERENCE

Global challenges and innovative management  
of bark and wood borers in planted and natural  
forests



## AGENDA



29-31 AUGUST 2023



# IUFRO CONFERENCE - GLOBAL CHALLENGES AND INNOVATIVE MANAGEMENT OF BARK AND WOOD BORERS IN PLANTED AND NATURAL FORESTS

## AGENDA - 29 August

Start Time	End Time	Talk	Sessions	Name of Presenter	Abstract_short title
08:40	09:20	Registration			
09:20	09:40	Welcome			
09:40	10:00	T1	Session #1 - Monitoring and management of <i>Hylobius abietis</i> (mod. Hervé Jactel)	H. Jactel	Monitoring of the pine weevil with attractive traps
10:00	10:20	T2		K. Bakouri	Alternative control methods of the large pine weevil
10:20	10:40	T3		P. Dolezal	Adult Feeding Preference in the Large Pine Weevil, <i>Hylobius abietis</i> ; can natural regeneration of silver birch contribute to less damage to conifer seedlings?
10:40	11:10	Coffee break			
11:10	11:30	T4	Session #2 - Population dynamics of <i>Ips typographus</i> (mod. Sigrid Netherer)	T. Hallas	A novel spruce bark beetle information system as cornerstone for a holistic early warning platform in Austria
11:30	11:50	T5		R. McElderry	Disentangling multiple drivers of spruce bark beetle outbreaks for forecasting and management planning
11:50	12:10	T6		S. Kärvemo	Population dynamics of <i>Ips typographus</i> in forest conservation areas
12:10	13:40	Lunch break			
13:40	14:00	T7	Session #3 - Molecular and physiological studies of wood boring insects (mod. Jess Hartshorn)	A. Bollmann-Giolai	Friends and foes of the European spruce bark beetle <i>Ips typographus</i>
14:00	14:20	T8		G. Morgante	Physiological, molecular, and behavioural investigations of <i>Ips typographus</i> vision (Coleoptera, Scolytinae)
14:20	14:40	T9		Q. Guignard	Color vision in the European woodwasp, <i>Sirex noctilio</i>
14:40	15:00	T10		J. Hartshorn	Integrating -omics for use in bark and wood-boring beetle management
15:00	15:30	Coffee break			
15:30	15:50	T11	Session #4 - Drought and heat related host tree - bark beetle interactions (mod. Sigrid Netherer)	S. Netherer	Drought and bb associated fungi influence defense ability of Norway spruce against <i>Ips typographus</i>
15:50	16:10	T12		P. Öhrn	Seasonal and site specific variation in Norway spruce response to <i>Grossmannia europhoides</i>
16:10	16:30	T13		J.-N. Candau	Overwintering conditions and temperature dynamics in potential MPB beetles host species
16:30	16:50	T14		K. Kitchens	Interspecific competition by woodborers may prevent bb outbreaks after wildfires
16:50	17:10	T15		C. Ranger	Type and duration of water stress influence host selection by exotic ambrosia beetles
20:00	22:00	Conference dinner			

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## AGENDA - 30 August

Start Time	End Time	Talk	Sessions	Name of Presenter	Abstract_short title
08:30	08:50	T16	Session #5 - Invasions of bark beetles and wood borers (mod. Ecki Brockerhoff)	D. Avtzis	To the ends of the world – trapping and hunting down Mediterranean pine bark beetles in five continents
08:50	09:10	T17		N. Meurisse	An overview of invasive bark and ambrosia beetles in New Zealand
09:10	09:30	T18		E. Brockerhoff	Retracing the world-wide invasion of the pine bark beetle <i>Hylurgus ligniperda</i>
09:30	09:50	T19		Y. Yuan	Comparative phylogeographic histories of two conifer-damaging <i>Hylurgus</i> bark beetles in Eurasia
09:50	10:10	T20		C. Ranger	Ecology of <i>Anisandrus maiche</i> , a newly established ambrosia beetle in North America
10:10	10:40	Coffee break			
10:40	11:00	T21	Session #5 - Invasions of bark beetles and wood borers (mod. Dimitrios Avtzis)	J. Ribeiro-Correia	Native and non-native ambrosia beetles and their fungal associates in Switzerland
11:00	11:20	T22		D. Cocos	Establishment and spread of non-native bark- and wood-boring beetles
11:20	11:40	T23		D. Inward	Research update on Cross-channel dispersal of <i>Ips typographus</i> , and the risk the beetle poses to Sitka spruce in Britain
11:40	12:00	T24		M. Stastny	Regional adaptation of Integrated Pest Management to control invasive forest insects
12:00	13:00	Lunch break			
13:00	18:00	Field trip			
18:00	21:00	Wine tasting + dinner			

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## AGENDA - 31 August

Start Time	End Time	Talk	Sessions	Name of Presenter	Abstract_short title
09:00	09:20	T25	Session #6 - Precision pest management of bark and wood borers (mod. Quentin Guignard)	C. Helbig	Interference in bark beetle host selection: Effects of allochthonous kairomones, anti-aggregation substances and non-host volatiles on bark beetles and their antagonists
09:20	09:40	T26		D. Ross	Douglas-fir beetle anti-aggregation pheromone, 3-methylcyclohex-2-en-1-one (MCH): Unparalleled success of a bark beetle pheromone treatment
09:40	10:00	T27		J. Queffelec	Semiochemical context influences the response of <i>Ips avulsus</i> to different enantiomeric ratios of pheromone compounds
10:00	10:20	T28		D. Avtzis	Suppression of bark beetle populations using pheromone traps - a case study on the island of Samothraki (Greece)
10:20	10:50	Coffee break			
10:50	11:10	T29	Session #6 - Precision pest management of bark and wood borers (mod. Josephine Queffelec)	A. Kuhn	Do pheromone traps help to reduce new attacks of <i>Ips typographus</i> at the local scale after a sanitary cut?
11:10	11:30	T30		L. Lehmannski	Primary attraction in <i>Ips typographus</i>
11:30	11:50	T31		J. Zeleny	A reliable method for pyrethroid detection using GC-MS
11:50	12:10	T32		N. Meurisse	Portable electroantennograms - working towards a field-based tool for applied chemical ecology
12:10	13:40	Lunch break			
13:40	14:00	T33	Session #7 - Novel monitoring and modelling tools for the management of bark beetles (mod. Jean-Noël Candau)	J.N. Candau	New tools for monitoring the phenology, dispersal and population dynamics of forest insects
14:00	14:20	T34		R. Modlinger	Detection of bark beetle attacked trees - comparison tradition technique with snifferdogs
14:20	14:40	T35		A. Clopeau	Development of tools to anticipate pine wood nematode infestation via <i>Monochamus</i>
14:40	15:10	Coffee break			
15:10	15:30	T36	Session #8 - Biotic interactions in bark and wood beetles (mod. Robert McElderry)	M. Knizek	Recent bark beetle outbreaks in Czechia
15:30	15:50	T37		A. Sallé	Forest decline as a driver of spatial distribution and temporal dynamics of oak-associated borers
15:50	16:10	T38		A.P. Banos-Quintana	Gut symbiont acquisition and transmission in the Eurasian spruce bark beetle, <i>Ips typographus</i>
16:10	16:30	T39		G. Williams	Fungi associated with ambrosia beetles in southern beech forests of Patagonia, Argentina