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THE INTERNATIONAL CONFERENCE

FORESTS AT RISK: BIAŁOWIEŻA AND BEYOND

Warsaw, 12-13 February 2019

Conference Programme

Tuesday, 12 February 2019

8:00 REGISTRATION OF PARTICIPANTS

9:00 OPENING CERMONY AND PLENARY LECTURE 1 (HALL 9B):

William J. Sutherland – *Forest management in a changing world*

PARALLEL ORAL SESSIONS

Session 1A (HALL 9B)

10:00-11:30 Cryptogams in forest ecosystems

Chair: Bengt Gunnar Jonsson

Péter Ódor, Erik Aude, Rasmus Fuglsang Frederiksen, Örjan Fritz, Marketa Táborská, Csaba Németh, Jacob Heilmann-Clausen, Morten Christensen, Claus Bässler, Klaas Walter van Dort – *Conservation patterns of deadwood dwelling bryophytes in European beech dominated old-growth forests*

Sylvia Wierzcholska, Amy E. Eycott, Fride Høistad Schei, John-Arvid Grytnes, Patryk Czortek, Olga Cholewińska, Bogdan Jaroszewicz – *Diverse and natural forest buffers the effect of ash dieback on bryophyte communities*

Hanne Ellegård Larsen, Hanne Nina Rasmussen – *Differential distribution of corticolous lichens with respect to tree species and height*

Patryk Czortek, Martin Kukwa, Bogdan Jaroszewicz, Anna Łubek – *Lichen hosts or microhabitats – factors determining diversity of lichenicolous fungi in the Białowieża Primeval Forest*

Marta Wrzosek, Ewa Chečko, Olga Cholewińska, Julia Pawłowska, Bogdan Jaroszewicz – *The heart of wood. A hidden history of fallen trees*

Yu Fukasawa, Kimiyo Matsukura, Yoko Ando, Satoshi Suzuki, Kunihiro Okano, Zewei Song, Mineaki Aizawa – *Factors affecting functional composition of fungal communities in spruce logs among patchily located five subalpine forests in central Japan*

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Session 1B (HALL 103B)

10:00-11:30 Interspecies interactions in forest ecosystems

Chair: Nuria Selva

Dries Pieter Jan Kuijper, Marcin Churski, Jakub Bubnicki – *Wolves and tree logs shape patterns of natural tree regeneration in the Białowieża Primeval Forest*

Lasse Gottlieb, Jon Buttenschøn, Rita M. Buttenschøn – *Long-term effects of cattle grazing in an oak-dominated (*Quercus robur*) woodland at Mols, Denmark*

Anna Maria Pyziel – *What do we know about the causative agent of European bison dictyocaulosis?*

Finn Rehling, Jan Schlautmann, Jörg Albrecht, Bogdan Jaroszewicz, Dietmar Matthies, Nina Farwig, Dana G. Schabo – *How does logging affect the seed dispersal loop of frugivore-mediated plant communities?*

Rafał Zwolak, Aleksandra Wróbel, Michał Bogdziewicz – *Beyond enemy release: biotic interactions in native and co-occurring invasive oak species*

Alek Rachwald, Marta Szurlej, Aneta Zapart – *Analysis of the occurrence of *Barbastella bat Barbastella barbastellus* (Schreber, 1774) in the European lowland forest and the influence of local environmental factors on its distribution. The Białowieża Forest case study*

11:30-12:00 Coffee Break

PARALLEL ORAL SESSIONS

Session 2A (HALL 9B)

12:00-13:30 Vascular plants in forest ecosystems

Chair: Guntis Brumelis

Kris Verheyen – *Forests at risk: interacting effects of multiple global change drivers on understorey biodiversity in temperate forest*

Amy Elizabeth Eycott, Sylwia Wierzcholska, Anna Łubek, Martin Kukwa, Wojciech Adamowski, Frida Høistad Schei, Bogdan Jaroszewicz – *Death might not be such a bad thing: effects of forest change in Białowieża National Park*

Frida Høistad Schei, John-Arvid Grytnes – *Study of temporal changes in forest vegetation reveals large differences between species groups*

Thilo Heinken, Martin Diekmann, **Anna Orczewska**, Jaan Liira – *European Forest Vascular Plants List – a useful tool in spatio-temporal forest vegetation studies*

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Asier Herrero, Nere Amaia Laskurain – *Vulnerability of an endangered dioecious tree species: lessons from main demographic rates*

Cecilia Cacciatori, Stefano Chelli, Enrico Simonetti, Piotr Klub, Giandiego Campetella, Roberto Canullo, Andrzej Bobiec – *Trait-based mechanisms of understory fine-scale species persistence in Tilio-Carpinetum stands of the Białowieża Forest under different management regimes*

Session 2B (HALL 103B)

12:00-13:30 **Restoration of natural forest values**

Chair: Bogdan Jaroszewicz

Tord Snäll, Louise Mair, Mari Jönsson – *Land use changes could modify future negative effects of climate change on old-growth forest indicator species*

Linda K. Petersson, Daniel Dey, Adam M. Felton, Emile Gardiner, Magnus Löf – *Manage disturbance to promote natural oak regeneration – ensuring long-term persistence of forests valued for conservation*

Mariangela Fotelli, Filippos Bantis, Vera Holland, Kalliopi Radoglou, Wolfgang Brüggemann – *The FUTURE OAKS project: ecophysiological performance of Mediterranean oaks for future forestry in the light of climate change*

Jonas Morsing, Kaj Sand-Jensen, Karsten Raulund-Rasmussen, Lars Baastrup-Spohr – *Early biodiversity responses to ecological restoration of a riparian zone cultivated with Norway spruce, Bornholm, Denmark*

Viktar Fenchuk, Alexandr Bury, Vasilij Arnolbik, Michael Brombacher – *Blocking the drain. Wetland restoration at National park «Bielaviežskaja pušča» – results and perspectives*

Petri Keto-Tokoi – *Let it burn! - Fire suppression causes severe threats to species diversity in natural Scots pine forests*

13:30-14:30 **Lunch Break**

PARALLEL ORAL SESSIONS

Session 3A (HALL 9B)

14:30-16:00 **Birds in forest ecosystems**

Chair: Grzegorz Mikusiński

Tomasz Wesolowski – *Adaptations of hole-nesting birds to tree holes: why studies in primeval conditions are irreplaceable*

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Przemysław Chylarecki, Zbigniew Borowski, Krzysztof Stereńczak, Karol Zub – *Is dead wood important for common forest birds? The case of Białowieża Primeval Forest*

Michał Bełcik, Piotr Skórka – *Factors influencing the functional and phylogenetic diversity of bird communities in forest patches*

Cezary Mitrus – *Repeated clutches as a chance for breeding success under high predation pressure*

Martin Korňan, Ľudovít Kocian, Karel Pavelka, Rudolf Kropil, Jan Pavelka, Peter Lešo, Marek Svitok – *Conservation value of breeding bird assemblages of primeval and natural forests of the Western Carpathians: a meta-analysis*

Dorota Czeszczewik – *What can we learn from long-term bird studies in pristine forests?*

Session 3B (HALL 103B)

14:30-16:00 **Management and naturalness of forest ecosystems**

Chair: Pierre Ibisch

Ireneusz Ruczyński – *Influence of forest management on selection of roosting habitats by bats in Białowieża Forest*

Leszek Bartkowicz, **Jarosław Paluch** – *Silviculture for old-growth attributes in mixed-species deciduous forests*

Jakub Baran, Remigiusz Pielech, Jan Bodziarczyk – *Influence of forest management on diversity and structure of ravine forests*

Roberto Canullo, Stefano Chelli, Giandiego Campetella, Sandor Bartha – *Monitoring forest dynamics and conservation: a new approach for explicit representation of spatio-temporal patterns*

Katarzyna Maria Staszyńska, Anna M. Zielonka, Ewa M. Grabska, Jerzy Szwagrzyk, Katarzyna A. Ostapowicz – *How can remote sensing improve primeval mountainous forest monitoring and preservation?*

Michał Ciach – *Paradise lost? Degradation and restoration of biodiversity in temperate forests*

16:00-17:00 **POSTER SESSION** accompanied by coffee

Full list of posters is presented at the end of the programme

17:00 **PLENARY LECTURE 2 (HALL 9B):**

David B. Lindenmayer – *Key issues associated with multiple interacting disturbances in natural forests*

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Wednesday, 13 February 2019

9:00-10:30 **PLENARY LECTURE 3 AND 4 (HALL 9B):**

Malcolm L. Hunter Jr. – *Old-growth forest ecology and conservation: the fundamentals*

Robin L. Chazdon – *View from the tropics: global redistribution and modification of forests undermines their value for climate mitigation and saving species*

10:30-11:00 **Coffee Break**

PARALLEL ORAL SESSIONS

Session 4A (HALL 9B)

11:00-13:00 **Policy for forest conservation**

Chair: Jerzy Szwagrzyk

Per Angelstam – *Land-sparing or land-sharing for functional green infrastructure? A multi-scale perspective on the Białowieża forest*

Stefan Kreft – *When no forest is left: Land use at Lake Tana, Ethiopia, in the middle of an environmental catastrophe*

Marek Giergiczny – *What drives the recreational value of the Białowieża Forest?*

Pavel Mezei, Miroslav Blaženec, Rastislav Jakuš – *Forestry and nature conservation in Slovakia: how much forests are strictly protected?*

Tzvetan Mladenov Zlatanov, Georgi Asenov Gogushev, Georgi Hinkov Ivanov, Momchil Panayotov, Alexander Dountchev, Nina Doncheva – *Societal and climate changes steadily melt the last old-growth forests in Bulgaria*

Johan Svensson, Grzegorz Mikusiński, Jakub Bubnicki, Jon Andersson, Bengt Gunnar Jonsson – *Forest landscape conservation and restoration deriving from remnant natural and near-natural boreal forest areas*

Abdulla Diku, Lulëzim Shuka, Admir Seci – *Old beech forests in Albania*

Session 4B (HALL 103B)

11:00-13:00 **Man and disturbances in forest ecosystems**

Chair: Pierre Ibisch

Tomasz Samojlik – *Human factor in the environmental history of Białowieża Primeval Forest*

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Roman Wójcik, **Wojciech Kędziora**, Katarzyna Szcyc – *Historical changes of spruce occurrence in Białowieża Primeval Forest as a tool for forest protection*

Eneli Põldveer, Laura Peedosaar, Diana Laarmann, Henn Korjus – *Evaluating spatial stand structure of hemiboreal coniferous forests according to different levels of naturalness*

Olga Orman, Mamoru Kanzaki, Kriangsak Sri-ngernyuang, Witchaphart Sungpalee, Kazusa Hasegawa – *The demography and dynamics of tree species in a tropical montane forest in Doi Inthanon, northern Thailand*

Guntis Brumelis, Līga Strazdiņa, Ilze Liepiņa (Kokarēviča) – *How natural is broad-leaved woodland after 100 years of strict protection? Case study of Moricsala, Latvia*

Janusz Czerepko, Radosław Gawryś – *Structure and composition dynamics of old-growth and unmanaged riparian forests at Białowieża National Park*

Teele Paluots, Henn Korjus – *Structural diversity of Western taiga habitat type in Estonia*

Monika Teresa Hoffmann, Nuria Selva, Stefan Kreft, Pierre L. Ibisch – *Roadless areas prevent boreal forest fires*

13:00-14:00 Lunch Break

PARALLEL ORAL SESSIONS

Session 5A (HALL 9B)

14:00-15:45 Policy for forest conservation

Chair: Przemysław Chylarecki

Bengt Gunnar Jonsson – *What does the IPBES Europe and Central Asia assessment have to say about forests?*

Jeanette Silvin Blumroeder, Peter R. Hobson, Susanne Winter, Natal'ya V. Burova, Pierre L. Ibisch – *The ecological effectiveness of FSC-certification in the boreal forest of the Arkhangelsk Region in the Russian Federation*

Andrzej Bobiec – *How good is Natura for the forests nature?*

Grzegorz Mikusiński, Ewa H. Orlikowska, Jakub Bubnicki, Bengt Gunnar Jonsson, Johan Svensson – *Strengthening network of high conservation value forests in boreal Europe*

Peter Ralph Hobson, Pierre L. Ibisch – *'Futurescapes' and forward-thinking policy are necessary to allow forests to adapt to climate change*

Sebastian Kepfer-Rojas, Inger K. Schmidt, Torben Riis-Nielsen, David B. Byriel, Mathias J. Justesen, Peter Friis Møller, Vivian K. Johannsen – *Effects of forest*

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management on multi-taxa diversity in Danish forest: importance of landscape vs stand structural elements

Adam Bohdan, Marta R. Grundland, Michał Kolbusz, Michał Książek, Augustyn Mikos, Jakub Rok, Andrzej Szkodzin – *Post-disturbance salvage logging in biodiversity hot-spot: Białowieża Forest as a case study*

Session 5B (HALL 103B)

14:00-15:45 **Effects of management and disturbances**

Chair: Nuria Selva

Andreas Sommerfeld, Marco Heurich, Torben Hilmers, Jörg Müller, Werner Rammer, Rupert Seidl – *Do current bark beetle outbreaks amplify or dampen future bark beetle risk in Central Europe?*

Miroslav Blaženec, Mária Potterf, **Rastislav Jakuš**, Pavel Mezei, Peter Baláž – *The analyse of the wind and bark beetle caused disturbances in areas with non-intervention regime and their surroundings in Slovakia*

Jerzy Szwagrzyk, Anna Gazda, Tomasz Zwijacz-Kozica, Antoni Zięba, Jan Bodziarczyk – *Large-scale intense disturbances enhance the stand conversion process; results from the Tatra National Park, southern Poland*

Simon Thorn – *Reconciling pest control, nature conservation and recreation in coniferous forests*

Zbigniew Borowski, Dorota Dobrowolska, Radosław Plewa, Radosław Gawryś, Wojciech Gil, Przemysław Chylarecki, Karol Zub – *Forest fire and biological diversity*

Kostadin Bogomilov Georgiev, Simon Thorn – *Effects of salvage logging on functional and phylogenetic resilience*

Torben Hilmers, Nicolas Friess, Claus Bässler, Marco Heurich, Roland Brandl, Hans Pretzsch, Rupert Seidl, Jörg Müller – *Biodiversity along temperate forest succession*

15:45-16:15 **Coffee Break**

16:15-17:00 **PLENARY LECTURE 5 (HALL 9B):**

Pierre L. Ibisch, Jeanette S. Blumroeder, Peter R. Hobson, Stefan Kreft – *Policy fails to address net loss of ecosystem functionality in global forests*

17:00 **CONFERENCE RESOLUTION (HALL 9B)**

Moderator: Malcolm Hunter

18:00 **CLOSING OF THE CONFERENCE**

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FORESTS AT RISK: BIAŁOWIEŻA AND BEYOND

Białowieża, 14-15 February 2019

Field Trip Programme

Thursday, 14 February 2019

- 7:30** Departure to Białowieża from the front of the venue building
- 12:00** Check-in and lunch in the hotel in Białowieża
- 13:00** Departure to the forest: *Forest management in the mosaic of protected areas.*
Leading: Bogdan Jaroszewicz, Mateusz Szymura, Ewa Zin, Karol Zub
- 18:00** **LECTURE** (hotel's conference room)
Bogdan Jaroszewicz - *Białowieża Forest - the relic of naturalness*
- 19:00** Dinner

Friday, 15 February 2019

- 7:30** Breakfast
- 6:30/8:30** Departure to the forest: *Core area of the Białowieża National Park – structure and dynamic of natural temperate mixed deciduous forest.* Leading: Bogdan Jaroszewicz, Patryk Czortek, Mateusz Szymura, Ewa Zin, Karol Zub
- 13:00** Farewell lunch
- 14:00** Departure from Białowieża (arrival in Warsaw expected between 18 and 19 o'clock; stops at the Fryderyk Chopin Airport and in the Warsaw City Centre)

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LIST OF POSTERS

Michał Adamus, Janusz Szewczyk, Jerzy Szwagrzyk – *Natural regeneration processes in strictly protected subalpine spruce forests in western Carpathians*

Andrzej Norbert Affek, Maria Zachwatowicz, Agnieszka Sosnowska, Alina Gerlée, Anna Kowalska – *Impact of modern forestry on selected elements of the environment (the case of eastern part of Polish Carpathians)*

Jutta Buschbom – *Developing a predictive statistical framework characterizing the informativeness of reference datasets for assignment decisions*

Rita Merete Buttenschøn, Lasse Gottlieb – *Woodland grazing as a tool to improve biodiversity – a case story from Tofte Skov in Denmark*

David Bille Byriel, Inger K. Schmidt, Mathias J. Justesen, Thomas Pape, Aslak Hansen, Sebastian Kepfer-Rojas – *Crane fly diversity in unmanaged vs. managed forests*

Marta Cholewa, Tomasz Wesołowski – *Great tits' breeding and the nestling food availability: is synchronization important in a primeval forest?*

Olga Cholewińska, Wojciech Adamowski, Ireneusz Smerczyński, Bogdan Jaroszewicz – *Long-term changes in species composition of understorey in oak-lime-hornbeam forest in the strict reserve of the Białowieża National Park*

Sambor Czerwiński, Mariusz Lamentowicz, Monika Karpińska-Kończak, Mariusz Gałka, Piotr Guzowski, Maciej Gąbka, Katarzyna Kujakało-Drygalska, Johanna Schwarzer, Piotr Kończak – *Loss of virgin forest in central Greater Poland (western Poland, Central Europe) in the last 1000 years reconstructed from the peat archive*

Irene Di Lecce, Joanna Sudyka, Marta Szulkin – *Natural home or concrete? Breeding biology of urban birds breeding in natural and artificial nesting sites*

Markus Dietz, Viktor Fenchuk, Olaf Simon, Elleni Vendras, Michael Brombacher – *The standing dead – important roosting sites of tree-dwelling bats*

László Gálhidy, Tamás Frank, János Böllöni, Pal Bódis, Reka Aszalós – *Structure and composition enhancement and its monitoring in five Natura 2000 oak forest habitat types in Hungary and Italy*

Mariusz Gałka, Angela Gallego-Sala, Katarzyna Kujakało, Klaus-Holger Knorr, Piotr Kończak, Mariusz Lamentowicz, Katarzyna Marcisz, Kazimierz Tobolski – *Response of peatland and forest ecosystem to hydrological changes, fire and pollutions during the last 350 years; palaeoecological insights from Białowieża Forest (CE Europe)*

Michał Gorczak, Kamil Kisło, Julia Pawłowska, Marta Wrzosek – *Overlooked biodiversity of spruce bark beetle associated microfungi*

Jakub Gryz, Dagny Krauze-Gryz – *Long term trends in ungulate density in Polish part of Białowieża Primeval Forest*

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Vera Holland, Sonja Ströll, Mariangela Fotelli, Kalliopi Radoglou, Wolfgang Brüggemann - *FUTURE OAKS II – assisted migration of Mediterranean oaks to Central Europe*

Gábor Illés, Reka Aszalós – *Analysis of wind disturbance data of Hungarian forests from the last 50 years*

Krzysztof Kajzer, Wojciech Sobociński, Patryk Rowiński, Karol Zub – *Occurrence of two rare flycatcher species in stands of different protection regime in the Białowieża Forest*

Oliwia Karpińska, Katarzyna A. Kanclerska, Patryk Rowiński – *Natural nest sites of European Robin in Białowieża National Park*

Julian Klein, Paul Haverkamp, Eva Lindberg, Michael Griesser, Sönke Eggers – *Shedding light on Siberian jays: ALS proxy for understory density explains reproductive success and nest site selection at different spatial scale*

Jozef Kollár, Lukáš Zima, Andrej Palaj – *The evolution of soil properties in the forests formed on the sites of former vineyards in the Little Carpathians (SW Slovakia)*

Armin Komposch, Marcus Fischer – *Plant-soil interactions in European forests*

Peter Kotrade, Eva-Maria Sehr, Wolfgang Brüggemann - *Identification of drought resistance genes in oaks for assay-based selection of drought-tolerant genotypes*

Anna Kowalska, Andrzej Norbert Affek, Jarosław Baranowski, Ewa Kołaczowska, Bogusława Kruczkowska, Edyta Regulska, Jacek Wolski, Izabela Zawiska – *Relationships between degradation of riparian mixed forests and their potential to provide regulating services*

Katarzyna Kubicka, Dorota Czeszczewik, Ziemowit Kosiński, Wioletta Puła, Wiesław Walankiewicz – *Elms (*Ulmus* spp.) mortality and regeneration in old-growth *Tilio-Carpinetum* oak-lime-hornbeam forest following invasion by fungus *Ophiostoma ulmi* in the Białowieża National Park, Poland*

Anna Kujawa – *Białowieża Forest – a hotspot of macromycetes diversity*

Martin Kukwa, Beata Guzow-Krzemińska, Anna Łubek – *Where the new lichen species grow – a case of Białowieża Forest*

Pavol Littera, Lukáš Zima – *Management optimization for habitat 91E0* – ash–alder alluvial forests*

Anna Łubek, Martin Kukwa, Patryk Czortek, Bogdan Jaroszewicz – *Epiphytic lichens biota of Białowieża Forest resistant to climate warming*

Zbigniew Maciejewski, Ewa Maciejewska, Jerzy Szwagrzyk – *Long-term dynamics of tree populations in ancient forests of the Roztoczański National Park*

Andrzej Oleksa, Igor Chybicki, Jacek Hilszczański, Tomasz Jaworski, Radosław Plewa, Grzegorz Tarwacki, Krzysztof Sućko – *Higher genetic diversity in the continuous primary forest than in secondary fragmented habitats: a case study of the hermit beetle in the Białowieża Forest and agricultural landscape*

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Adrienne Ortmann-Ajkai, Gábor Csicssek, Ferenc Horváth – *Newcomers unwelcome: Morus alba and Jugland regia start invading Natura 2000 forest habitats in the Drawa floodplain, southern Hungary*

Monika Barbara Podgórska – *Last fragments of the mesophilous ancient forests on the specific iron-ore habitat islands in the northern foreland of the Świętokrzyskie Mountains – importance for local biodiversity*

Zigmars Rendenieks, Guntis Brumelis, Olgerts Nikodemus – *Broadleaved forests in Latvia – geographic distribution, management and conservation challenges*

Inger Kappel Schmidt, Sebastian Kepfer-Rojas, Torben Riis-Nielsen, David B. Byriel, Mathias J. Justesen, Peter F. Møller, Vivian K. Johannsen – *Understory vegetation and tree regeneration in unmanaged and managed forests*

Małgorzata Sławska, Marek Sławski – *Seven decades of spontaneous forest regeneration after large-scale clear-cutting in Białowieża Forest do not ensure the complete recovery of soil collembolan communities*

Tomasz Szymura, Krzysztof Świerkosz – *How to destroy in the name of conservation – sad history of the last remnants of natural forests in the center of Europe*

Joanna Tusznió, Marianna Strzelecka, Mariusz Boćkowski, Małgorzata Grodzińska-Jurczak – *The role of tourism in restitution of European bison. Tourists' perceptions of European bison in eight show and breeding reserves in Poland*

Emilia Wysocka-Fijorek – *Changes in the forest regeneration into the Las Bielański in Warsaw*

László Zoltán, Soma Horváth, Tibor Standovár – *Effects of salvage logging on the herbaceous layer after a catastrophic ice storm in a Natura 2000 forest in Hungary*

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