



15th INTERNATIONAL GROUSE SYMPOSIUM  
September 11-15, 2023, Białystok, Poland

## Conference Schedule

### 15<sup>th</sup> International Grouse Symposium

#### September 11-15, 2023

University of Białystok Faculty of Biology  
Ciołkowskiego 1J Street, Białystok  
the Auditorium 2003 (1<sup>st</sup> floor)

### *Monday, September 11*

9:00	Registration - Main lobby (ground floor)
9:30-18:00	Pre-Conference Workshop - rooms 2002, 2041, 2042 (1 <sup>st</sup> floor) and 3023 (2 <sup>nd</sup> floor) Lunch and coffee break provided

### *Tuesday, September 12*

7:45	Registration - Main lobby (ground floor)
8:45	Opening of the Conference - the Auditorium 2003 (1 <sup>st</sup> floor)
	<b><i>Session: Environmental and social aspects of grouse conservation</i></b> Moderator: Marek Konarzewski
9:00	<b><i>Invited Plenary Speaker</i></b> <b><i>Ilse Storch:</i></b> Research and the Conservation of Grouse in Europe: Past experiences and future challenges
10:00	Coffee break - the main hall at the Auditorium 2003 (1 <sup>st</sup> floor)
10:30	<b><i>Peter Coates:</i></b> Spatiotemporal trends of sage-grouse populations in stochastic environments: six decades of declines in the American West (presented by Steven Mathews-Sanchez)
10:50	<b><i>Farina Sooth:</i></b> ‘Ghost of hunting past’ in rock ptarmigan: assessing long-term effects on behavior



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11:10	<b>Marius Kjønsberg:</b> Towards a science-based rock ptarmigan ( <i>Lagopus muta</i> ) management in Scandinavia
11:30	<b>Vincent Gardet:</b> Conservation of the Capercaillie in the French Jura mountains: Have we tried everything yet?
11:50	<b>Megan Milligan:</b> Changes in spatial distribution versus abundance for greater sage-grouse in a Distinct Population Segment
12:10	<b>Jeffrey Beck:</b> Development of Management Recommendations for Greater Sage-Grouse Winter Concentration Areas
12:30	Lunch - the main hall at rooms 2058-2060 (1 <sup>st</sup> floor)
<b>Session: Environmental and social aspects of grouse conservation</b> Moderator: Ilse Storch	
13:15	<b>Invited Plenary Speaker</b> <b>Robert Moss:</b> Civilisation and its discontents: human impact on grouse, from large-scale niche loss accompanying climate change to local disturbance from outdoor recreation
14:15	<b>Nicole Frey:</b> Implications of climate change on Greater sage-grouse conservation at their southernmost distribution
14:35	<b>Daniel Appenroth:</b> Seasonal timing mechanisms in the Svalbard ptarmigan ( <i>Lagopus muta hyperborea</i> )
14:55	<b>Justine Dewilde:</b> Post-release acclimation of translocated Black Grouse ( <i>Lyrurus tetrix</i> ): a multi-time scale analysis using telemetry (presented by Johann Delcourt)
15:15	Coffee break - the main hall at the Auditorium 2003 (1 <sup>st</sup> floor)
15:45	<b>Michał Adamowicz:</b> How environmental factors and human disturbance affect the occurrence of black grouse ( <i>Lyrurus tetrix</i> )
16:05	<b>Torfinn Jahren:</b> Effects and mitigation of wind-power on populations of capercaillie and black grouse in central Scandinavia (presented by Mikkel Kvasnes)



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16:25	<b>Marc Montadert:</b> High anthropogenic specific mortality rate for black grouse in ski resort
16:45	<b>Jeffrey Beck:</b> Increasing Feral Horses Decrease Greater Sage-Grouse Nest and Brood Survival
18:30	Departure for banquet dinner from the University Campus to Supraśl, a small town located 16 kilometers east of Białystok. The dress code is casual, for a cool evening. Dinner will be outside under a covered pavilion (grill) and inside as well.
19:00	Banquet Dinner - The Five Oaks Restaurant in Supraśl

## Wednesday, September 13

8:00	Registration - Main lobby (ground floor)
	<b>Session: Monitoring and conservation of natural grouse population</b> Moderator: Paweł Mirski
9:00	<b>Invited Plenary Speaker</b> <b>Gail L. Patricelli:</b> Robots, Telemetry & the Sex Lives of Sage-Grouse: using technology to study courtship and conservation
10:00	Coffee break - the main hall at the Auditorium 2003 (1 <sup>st</sup> floor)
10:30	<b>Olga Jordi Torres:</b> Vocal individuality of the Western Capercaillie ( <i>Tetrao urogallus</i> L.) male calls, an ambisonic bio-acoustic approach
10:50	<b>Lucie Hambálková:</b> Acoustic signals of male black grouse: individual and subpopulation level
11:10	<b>Corina Sanchez:</b> Improving greater sage-grouse nest survival through oiling common raven eggs
11:30	<b>Michael Schroeder:</b> Behavior of female grouse: are we missing something important?
11:50	<b>Elizabeth Leipold:</b> Developing Unbiased Methods for Monitoring Populations of Dusky Grouse in the Western USA (presented by Lance McNew)



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12:10	<b>Trapper Haynam:</b> Movement-based Metrics of Nesting Area Fidelity Determine Nest Success in Sage-Grouse: Implications for Grouse Conservation (presented by Lance McNew)
12:30	Lunch - the main hall at rooms 2058-2060 (1 <sup>st</sup> floor)
<b>Session: Monitoring and conservation of natural grouse population</b> Moderator: Robert Rutkowski	
13:15	<b>Invited Plenary Speaker</b> <b>Sara J. Oyler-McCance:</b> Harnessing Molecular Innovation for Improved Management of Sage-grouse
14:15	<b>Shawna Zimmerman:</b> Greater Sage-grouse Genome-wide Adaptive Divergence May Influence Conservation Translocation Effectiveness
14:35	<b>Alex Ball:</b> Conservation genetics of Capercaillie in the Cairngorms National Park, Scotland, UK
14:55	<b>Václav Tomášek:</b> Black Grouse Conservation in the Krkonoše and Jizera Mountains
15:15	Coffee break - the main hall at the Auditorium 2003 (1 <sup>st</sup> floor)
15:45	<b>Jennifer Forbey:</b> It takes guts to conserve grouse: unraveling the intestine to manage and monitor grouse from the bite to the biome
16:05	<b>Johann Delcourt:</b> Is the black grouse ( <i>Lyrurus tetrix</i> ) an indirect victim of the sylvatic rabies eradication by fox vaccination?
16:25	<b>Emmanuel Ménoni:</b> Quantitative estimation of Capercaillie habitats in the French Alps as a prerequisite for their reintroduction
16:45	Photo of 15 <sup>th</sup> IGS participants (square in the front of Faculty of Biology)
17:00-17:20	Open meeting dedicated to the goals of the IUCN (International Union for Conservation of Nature) - the Auditorium 2003 (1 <sup>st</sup> floor)  Moderator: Michael Schroeder
17:00-19:00	Poster session - at the corridor connecting Biology and Chemistry Faculties



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## Thursday, September 14

	<b>Conference Field Trip - Głębokki Bród Forest District</b> <b>Board buses from 7:30 (University Campus parking lot)</b>
8:00	Departure to Głębokki Bród

## Friday, September 15

8:00	Registration - Main lobby (ground floor)
	<b>Session: Improving breeding methods for the development of conservation breeding</b> Moderator: Michael Schroeder
9:00	<b>Invited Plenary Speaker</b> <b>Robert Rutkowski:</b> Tetraonidae - dying knights of Polish forests: genetic diversity and population structure in space and time
10:00	Coffee break - the main hall at the Auditorium 2003 (1 <sup>st</sup> floor)
10:30	<b>Arne Ludwig:</b> Genetic evidence for reproduction of released capercaillie in Southern Brandenburg, Germany (presented by Alexander Erdbeer)
10:50	<b>Artur Kowalczyk:</b> Reproductive parameters of capercaillie kept in aviary system in Wisła Forestry (presented by Ewa Łukaszewicz)
11:10	<b>Artur Kowalczyk:</b> Artificial insemination procedure in black grouse ( <i>Lyrurus tetrix</i> ) reproduction (presented by Ewa Łukaszewicz)
11:30	<b>Emma O'Brien:</b> Effect of midazolam sedation on sperm quality of capercaillie
11:50	<b>Joanna Rosenberger:</b> Capercaillie ( <i>Tetrao urogallus</i> ) egg incubation behavior - is there seasonal and environment depended variation?
12:10	<b>Joanna Rosenberger:</b> Evaluation of eggshell ultrastructure as a method of assessing egg status and embryo development - Capercaillie example
12:30	Lunch - the main hall at rooms 2058-2060 (1 <sup>st</sup> floor)



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	<b><i>Session: Improving breeding methods for the development of conservation breeding</i></b> Moderator: Dorota Ławreszuk
13:15	<b><i>Invited Plenary Speaker</i></b> <b><i>Agnieszka Kloch:</i></b> Parasites and conservation biology
14:15	<b><i>Lena Larsson:</i></b> Captive Propagation of the Attwater's Prairie-Chicken: Updates on Production and Fostering Methodologies
14:35	<b><i>Paul Senner:</i></b> Living Fast on the Texas Prairies: Overcoming stochasticity to establish populations of an endangered prairie grouse (presented by Aaron Pratt)
14:55	<b><i>Steven Mathews-Sanchez:</i></b> Benefits and costs of translocation on augmented and source populations of greater sage-grouse
15:15	Coffee break - the main hall at the Auditorium 2003 (1 <sup>st</sup> floor)
15:45	<b><i>Janusz Kobielski:</i></b> Capercaillie <i>Tetrao urogallus</i> recovery program in the Bory Dolnośląskie Forest, south-west Poland (presented by Marek Kmiec)
16:05	<b><i>Mariusz Rydzik:</i></b> Optimization of capercaillie breeding ( <i>Tetrao urogallus</i> ) in ex situ in vivo conditions
16:25	<b><i>Mateusz Grzębkowski:</i></b> Active protection of Black Grouse and Western Capercaillie in the State Forests in Poland
16:45	Final remarks and closing of the conference

## *Saturday, September 16*

<b><i>Post-Conference Field Trips - Białowieża National Park or Biebrza National Park</i></b> <b><i>Board buses from 7:30 (University Campus parking lot)</i></b>	
8:00	Departure to Białowieża National Park or Biebrza National Park