



PROGRAMME

Day 1 (Sunday, 5th August 2012)

16.00–20.00 Visit to the Nature and Forest Museum of the Białowieża National Park (BPN) and the European Bison Show Reserve (optional)

20.00–21.30  Welcome dinner (Parkowa Restaurant)

Day 2 (Monday, 6th August 2012)

7.30–9.00  Registration at the Information Point (the main hall of the BNP)
SIGN UP for field trips

Opening and plenaries (conference hall of the Białowieża National Park headquarters)

9.00–9.30 Opening of the Symposium
(*Rafał Kowalczyk, MRI PAS, Aleksander Bołbot, BNP*)

9.30–10.20 **Plenary lecture:** Evolutionary and distributional history of moose
(*Adrian Lister, UK*)

10.20–11.10 **Plenary lecture:** Moose and climate change: will they be winners or losers?
(*Kris Hundertmark, USA*)

11.10–11.40  Coffee break

Session 1: Population genetics of moose (conference hall of BNP headquarters)



11.40–12.00 Phylogeography and genetic diversity of the European moose subspecies inhabiting Europe and Western Siberia
(*Marina V. Kholodova, Russia*)

12.00–12.20 Factors shaping genetic diversity of moose in Europe
(*Magdalena Niedziałkowska, Poland*)

12.20–12.40 Genetic diversity of a relic moose population, *Alces alces* in the Biebrza Valley, NE Poland
(*Magdalena Świsłocka, Poland*)


12.40–13.00 Dynamic of moose population in the Russian European North
(*Pjotr Danilov, Russia*)

13.00–14.30  Lunch (Parkowa Restaurant)

- 14.30–19.30  Field trip – Biodiversity of the Strict Reserve of Białowieża National Park and the structure of primeval forest (8-km walk)
- 20.00–23.00  Dinner at the bonfire in Białowieża Forest (meeting in front of the BNP headquarters, departure by bus)


Day 3 (Tuesday, 7th August 2011)

Session 2: Population productivity and foraging strategy of moose (conference hall of BNP headquarters)


- 9.00–9.20 Can variation in food supply, browsing pressure and population density explain the spatial variation in moose performance in Norway? (*Erling J. Solberg, Norway*)
- 9.20–9.40 Spatio-temporal relationship between calf body mass and population productivity in Fennoscandian moose *Alces alces* (*Raisa Tiilikainen, Finland*)
- 9.40–10.00 Modeling the dynamic of population size and comparative analysis of the demographic parameters (sexual and age structure) of moose in the Russia and Finland using long-term monitoring (*Varos G. Petrosyan, Russia*)
- 10.00–10.20 The nutritional goal of moose: Using the Geometric Framework to create a cohesive ecological theory of nutrition and more diverse production forests (*Annika M. Felton, Sweden*)
- 10.20–10.40 Winter feeding preferences of moose (*Alces alces andersoni*) and mule deer (*Odocoileus hemionus*) for some North American and European conifers (*Roy V. Rea, USA*)
- 10.40–11.00 Moose (*Alces alces*) foraging in an experimental gradient of tree species diversity and composition in SW Finland (*Harriet Milligan, UK*)
- 11.00–11.30  Coffee break

Session 3: Movements and habitat selection by moose (conference hall of BNP headquarters)


- 11.30–11.50 Spatiotemporal variation in moose resource utilisation: effects of habitat quality, sex and reproductive status (*Kari Bjørneraas, Norway*)

- 11.50–12.10 Effects of movements tactic on components of fitness in a large ungulate reproductive performance is higher in migratory than in resident female moose (*Christer M. Rolandsen, Norway*)
- 12.10–12.30 Identifying cow movements and parturition sites using GPS collars with short location intervals (*Ron Moen, USA*)
- 12.30–12.50 Space use and seasonal migrations of moose in the Biebrza Marshes- preliminary results (*Norbert Duda, Poland*)
- 12.50–14.20  Lunch (Parkowa Restaurant)
- 14.20–16.00 Visit to Mammal Research Institute PAS

Session 3: Movements and habitat selection by moose – continued (conference hall of BNP headquarters)


- 16.00–16.20 The use of airborne laser scanning data in assessing habitats of moose (*Alces alces*) (*Juho Matala, Finland*)
- 16.20–16.40 Habitat use in moose (*Alces alces*) and European bison (*Bison bonasus*) reflected by ¹³C and ¹⁵N abundance in bones (*Emilia Hofman-Kamińska, Poland*)
- 16.40–17.00 Landscape scale distribution of moose in Northeastern Vermont: A GIS analysis (*Thomas L. Millette, USA*)
- 17.00–17.30  Coffee break

Session 3: Movements and habitat selectivity of moose – continued (conference hall of BNP headquarters)


- 17.30–17.50 Seasonal movements of moose in Karelia (*Danila Panchenko, Russia*)
- 17.50–18.10 Beautiful but dangerous season: there is an increased risk for human injuries in moose-vehicle collisions in the summer time (*Milla K. Niemi, Finland*)
- 18.10–18.30 Are moose close to infrastructure in different human-modified landscapes due to a behavioural trade-off? (*Wiebke Neumann, USA and Sweden*)
- 18.30–18.50 The effects of winter weather and population density on moose (*Alces alces*) antler size in Estonia (*Rauno Veeroja, Estonia*)
- 18.50–20.00  Dinner (Parkowa Restaurant)



Day 4 (Wednesday, 8th August 2012)

Session 3: Movements and habitat selection by moose – continued (conference hall of BNP headquarters)

- 09.00–09.20 Behavioural responses to thermal conditions affect seasonal weight change in a heat-sensitive northern ungulate (*Jos M. Milner, Norway*)
- 09.20–09.40 Individual variation in environmental tracking by moose – effects of movement patterns (*Ivar Herfindal, Norway*)
- 09.40–10.30 **Plenary lecture:** Metrics of predation: perils of predator-prey ratios (*R. Terry Bowyer, USA*)
- 10.30–11.00  Coffee break
- 11.00–11.50 **Plenary lecture:** Brown bear – moose relationships: metanalysis of data from three continents (*Bogumiła Jędrzejewska, Poland*)

Session 4: Moose in the environment (conference hall of BNP headquarters)



- 11.50–12.10 Effects of moose (*Alces alces*) management on diversity and reproduction of passerine birds (*Karen M. Mathisen, Norway*)
- 12.10–12.30 Moose – mediated endozoochoric seed dispersal in fen and forest habitats (*Bogdan Jaroszewicz, Poland*)
- 12.30–12.50 The impact of simulated moose densities on pine needle cast infection along a productivity gradient (*Otso Suominen, Finland*)
- 12.50–13.10 Heavy metals, radionuclides, persistent organic pollutants and moose populations in the Dehcho region of the Northwest Territories, Canada (*Nicholas C. Larter, Canada*)
- 13.10–14.40  Lunch (Parkowa Restaurant)
- 14.40–15.00 Impact of forestry on moose distribution in East Fennoscandia (*Juri Kurihnen, Finland*)
- 15.00–15.20 The economy of feeding dense moose populations in winter (*Torstein Storaas, Norway*)
- 15.20–15.40 Including ecosystem aspects in moose management to improve balance between wanted and unwanted effects of moose density levels (*Christer Kalén, Sweden*)

- 15.40–16.10  Coffee break
- 16.10–18.50 Poster session (Mammal Research Institute PAS)
- 20.00–23.00  Gala dinner (Hotel Białowieski)

Day 5 (Thursday, 9th August 2012)

Session 5: Moose management (conference hall of BNP headquarters)

- 9.00–09.50 **Plenary lecture:** The moose population history and genetics as hints for evidence-based management in Poland (*Mirosław Ratkiewicz, Poland*)
- 09.50–10.40 **Plenary lecture:** On moose browsing and management (*Christina Skarpe, Norway*)
- 10.40–11.00 A new adaptive Swedish Moose Management: Parts, Processes and Science (*Goran Ericsson, Sweden*)
- 11.00–11.30  Coffee break
- 11.30–11.50 Towards forecasting patterns of moose browsing on Scots pine (*Pinus sylvestris*) in young forest stands (*Martha Wallgren, Sweden*)
- 11.50–12.10 Hunting – most important factor affecting moose population in Latvia (*Gundega Aizupiete, Latvia*)
- 12.10–12.30 Harvesting and monitoring data predict life-history strategies in moose (*Fredrik Widemo, Sweden*)
- 12.30–12.50 The trophy characteristic of a moose (*Alces alces*) in Russia (1960–2009) (*Viacheslav V. Kolesnikov, Russia*)
- 12.50–14.20  Lunch
- 14.20–15.10 **Plenary lecture:** Why moose are not numerous in Russia? (*Leonid M. Baskin, Russia*)
- 15.10–15.30 History and fragmentation of Eurasian moose population (*Taras Sipko, Russia*)
- 15.30–15.50 Adaptation of moose, society and governance (*Jere Nieminen, Finland*)


- 15.50–16.20  Coffee break
- 16.30–16.50 A new method for timing of moose rutting period – carcass inspection by hunters (*Tuire Nygren, Finland*)
- 16.50–17.10 Reduced population size fail to improve moose (*Alces alces*) re-productive performance (*Olav Hjeljord, Norway*)
- 17.10–17.25 Biebrza National Park - introduction to field trip (*Karol Zub, Poland*)
- 17.30–17.50 Moose population in the Biebrza River Valley (*Edward Komenda, Poland*)
- 17.50–18.00 Best Poster Award ceremony
- 18.00–18.15 Closing ceremony of the Symposium
- 18.15–19.15  Dinner

Day 6 (Friday, 10th August 2012)



Excursion to Biebrza National Park

Leaders: workers of Biebrza National Park, dr R. Kowalczyk, dr hab. M. Ratkiewicz, Dr K. Zub

- 6.45 Departure from Białowieża (2 buses)
- 9.00–9.30 Observation Tower Duża Luka (example of active protection of marshlands)
- 9.45–12.30 Gugny – Lisie Nory – Barwik – hiking to observation Tower (moose watching)
- 13.00–14.30 Lunch in Goniądz
- 15.00–15.15 Osowiec (old military forts)
- 16.00–16.30 Burzyn view point (landscape of Biebrza marshes)
- 16.30–17.30 Bus ride to Białystok (possibility to Take train back to Warsaw)
- 19.30 Arriving to Białowieża
- 20.00  Supper