

THE INTERNATIONAL CONFERENCE

IMPACT OF CLIMATE CHANGE ON THE RANGES OF SPECIES AND SPECIES COMPOSITION OF PLANT COMMUNITIES

24-26 January 2017 The European Centre for Geological Education in Chęciny near Kielce

Conference Programme

Tuesday, 24 January 2017

16:00 - 21:00 REGISTRATION OF PARTICIPANTS

18:00 - 20:30 SUPPER

Wednesday, 25 January 2017

7:30 - 8:45 BREAKFAST

SESSION 1 GLOBAL WARMING AND ITS DIVERSE EFFECTS

09:00 - 09:10 Bogdan Jaroszewicz & John Arvid Grytnes – Welcome addresses

09:10 - 09:50 OPENING LECTURE

Szymon Malinowski – *Physics of global warming for naturalists*

ORAL PRESENTATIONS (15 min. each):

09:50 **Bogdan Zagajewski**, Anna Jarocińska, Adriana Marcinkowska-Ochtyra, Adrian Ochtyra, Anita Sabat, Edwin Raczko, Łukasz Sławik, Jan Niedzielko, Dominik Kopeć, Justyna Wylazłowska, Dorota Michalska-Hejduk, Anna Halladin-Dąbrowska, Agnieszka Błońska, Teresa Nowak, Beata Babczyńska-Sendek, Andrzej Pasierbiński, Barbara Tokarska-Guzik – *Assessment of hyperspectral and lidar data for identification of non-forest Natura 2000 habitats*

Anna Znój, Katarzyna J. Chwedorzewska, Maciej Wódkiewicz, Halina Galera – *Poa annua invasion on King George Island - one of the consequences of climate change in the Antarctic?*

Adam Rostański, Paweł Wąsowicz, Andrzej Pasierbiński, Starri Heidmarsson, Mariusz Wierzoń – *Management of biodiversity change caused by global warming and invasive alien species - plan and objectives of the project*

Edyta Sierka, Agnieszka Błońska, Damian Chmura, Barbara Tokarska-Guzik, **Gabriela Woźniak** – *Dynamics of alien plant species in response to climate change*

11:10 - 11:40

COFFEE BREAK

SESSION 2

CLIMATE CHANGE, PLANTS AND LICHEN BIOTA – THE RESULTS OF THE KLIMAVEG PROJECT

11:40 - 12:20 OPENING LECTURE

John-Arvid Grytnes – *Plant distribution shifts in a warmer world*

ORAL PRESENTATIONS (15 min. each):

12:20

Siri Vatsø Haugum, Jutta Kapfer, Amy Eycott, John-Arvid Grytnes – *The effect of grazing and hiking on the elevational range shift of vascular plant species in the Scandes during recent decades*

Patryk Czortek, Jutta Kapfer, Halina Ratyńska, Amy E. Eycott, Anna Delimat, Antoni Zięba, Anna Orczewska, John-Arvid Grytnes, Bogdan Jaroszewicz – *Long-term plant species composition shifts in Morskie Oko Valley (Tatry Wysokie mts) as a response to changes in environment*

Fride Høistad Schei, Magne Sætersdal, Einar Heegaard, Bogdan Jaroszewicz, John-Arvid Grytnes – *Changes in Norwegian woodlands related to climate change or legacies of the past?*

Amy E. Eycott, Bogdan Jaroszewicz, Sylwia Wierzcholska, Anna Łubek, Martin Kukwa, Wojciech Adamowski – *Species richness increase in Białowieża Forest: Habitat change, climate change or observer effect?*

Richard Telford, Bogdan Jaroszewicz – *Phenological response of the Białowieża Forest understorey to climate change*

14:20 - 16:00

LUNCH BREAK

SESSION 3

CLIMATE CHANGE & FORESTS

16:00 - 16:40 OPENING LECTURE

Jerzy Szwagrzyk – *Global climate change and species composition of forest stands; challenges for the forestry in Central Europe*

ORAL PRESENTATIONS (15 min. each):

- 16:40 **Marcin K. Dyderski**, Sonia Paż, Andrzej M. Jagodziński – *What we can expect from trees under changing climate?*
- Dorota Dobrowolska** – *Changes of silver fir (*Abies alba* Mill.) distribution in Poland*
- Aleksandra Jasińska**, Mirela Tulik – *Tree-ring width variations in European beech (*Fagus sylvatica* L.) growing within and outside its natural distribution range*
- Marek Ksepko** and coauthors – *The dynamics of spruce *Picea abies* (L.) in Polish part of Białowieża Primeval Forest after the Second World War*

SESSION 4 – POSTER SESSION COMBINED WITH COFFEE BREAK

18:00 -19.30

- Lidia Borkowska, Krzysztof Stereńczak** – *Changes in the spatial structure of vegetation on unmown meadow: the impact of climate or/and the effect of succession*
- Olga Cholewińska, Andrzej Keczyński, Bogdan Jaroszewicz** – *European ash (*Fraxinus excelsior* L.) dieback in Białowieża National Park*
- Patryk Czortek, Anna Delimat, Marcin K. Dyderski, Antoni Zięba, Bogdan Jaroszewicz** – *Response of the high-alpine sedge *Carex lachenalii* to recent tourism and climate change*
- Patryk Czortek, Amy E. Eycott, John-Arvid Grytnes, Jutta Kapfer, Anna Delimat, Bogdan Jaroszewicz** – *Climate change drives shifts in plant species composition of Tatra Mountain summits over the past 100 years*
- Wojciech Ejankowski, Tomasz Lenard** – *Effect of climatic variability on aquatic vegetation in a hard water lake*
- Sławomir Guzikowski, Renata Piwowarczyk** – *The impact of global warming on the effect of virulence and spread of parasitic *Cuscuta epithimum* in the Nida Basin (S Poland)*
- Maria Janicka, Maria Anna Janicka** – *Flowering of selected xerothermic plant species in drought conditions in the reserve "Winnica"*
- Maria Janicka, Bogumiła Pawluśkiewicz, Elżbieta Małuszyńska** – *Characteristics of diaspores of selected wild flowers ripening in conditions of extreme drought*
- Izabela Jaszczuk, Sylwia Wierzcholska, Bogdan Jaroszewicz** – *Consequences of dieback of black alder *Alnus glutinosa* for bryophyte communities in natural forest*
- Martin Kukwa, Anna Łubek** – *Lichens new to science and new to Poland discovered in Białowieża National Park*
- Anna Łubek, Martin Kukwa** – *Does *Fraxinus excelsior* dieback in Circaeo-Alnetum forest affect the lichen biota?*



WICLAP
Polish-Norwegian Project

Michalina Panek, Karolina Ruraż, Renata Piwowarczyk – *Identification of an urban heat island in the city of Sandomierz (SE Poland) based on the distribution of thermophilic plants - preliminary results*

Marek Podsiedlik – *The causes of changes in the geographical distributions of *Senecio erucifolius* in Poland, with particular emphasis on changes in the phytocenotic spectrum*

Karolina Ruraż, Michalina Panek, Renata Piwowarczyk – *The impact of climate change on species composition of xerothermic grasslands of the Sandomierz Upland based on origin of the geographical elements of flora*

Sylwia Wierzcholska, Marcin K. Dyderski, Andrzej M. Jagodziński – *Modelling the climate and habitat driven distribution of bryophytes at different spatial scales*

Magdalena Zarzycka, Joanna Gołębiewska, Anna Kuczyńska, Wojciech Zarzycki – *Climate changes vs. species ranges - research methods*

Maciej Ziemiański, Maciej Wódkiewicz – *Influence of changes induced by the urban heat island (UHI) on the microclimate conditions, conducive to existence of island communities*

20:00 OFFICIAL DINNER

Thursday, 26 January 2017

7:30 - 8:45 BREAKFAST (+LUNCHBOXES FOR FIELD TRIP)

09:00 DEPARTURE BY BUSES TO ŚWIĘTOKRZYSKI NATIONAL PARK

17:30 RETURN FROM THE FIELD TRIP, DINNER

