

# ***The NECLIME Conference***

Sofia, October 1<sup>st</sup> - 4<sup>th</sup>, 2012

## ***Climate and vegetation evolution in the Paratethys, Eastern Mediterranean and Black Sea area***

### **Scientific Program**

#### **Monday October 1<sup>st</sup>**

**Registration: 16:00 – 19:00** Conference Hall, Institute of Biodiversity and Ecosystem Research,  
23, Acad. G. Bonchev Str.

**Welcome dinner: 20:00** Restorant “Pri Yafata”, 40, Rayko Aleksiev Str., Sofia

#### **Tuesday October 2<sup>nd</sup>**

##### **Conference Hall**

Institute of Biodiversity and Ecosystem Research  
23, Acad. G. Bonchev Str.

##### **Opening ceremony: 9:30**

**9:30 – 9:50** **Welcome address**

**9:50 – 10:10** Torsten Utescher and Angela A. Bruch: **Introduction and NECLIME news**

**10:10 – 10:30** Mehmet Serkan Akkiraz, Nazire Özgen Erdem and Özgen Kanga: **Palynoflora and palaeoclimate of gypsiferous formations of the Oligo-Miocene Sivas Basin, Central Turkey**

- 10:30 – 10:50 Vladimir Bozukov, Dimiter Ivanov and Torsten Utescher: ***Ficus* sp. in Early Oligocene flora of Ustren (South Bulgaria)**
- Coffee break:** 10:50 – 11:30
- 11:30 – 11:50 Dimiter Ivanov, Elżbieta Worobiec and Nadezhda Djorgova: **Trends in Badenian (Middle Miocene) vegetation and climate dynamics in Poland and Bulgaria based on pollen data**
- 11:50 – 12:10 Ilaria Mazzini, Natália Hudáčková, Peter Joniak, Marianna Kováčová, Tamás Mikes, Andreas Mulch, Bora Rojay, Stella Lucifora, Daniela Esu and Ingeborg Soulié-Märsche **Palaeoenvironmental and Chronological Constraints on the Tuğlu Formation (Çankiri Basin, Central Anatolia, Turkey)**
- 12:10 – 12:30 Saida Nigmatova: **Evolution of climate, landscape and vegetation of the continental regions of Central Asia during the Neogene and Quaternary**
- Lunch break:** 12:30 – 14:00
- 14:00 – 14:20 Vladimir Bozukov: **A revision of species *Pleiomeris formosa* (Heer) Palamarev et Petkova in Bulgarian palaeoflora**
- 14:20 – 14:40 Andrea K. Kern, Jan-Peter Friedrich, Franziska Göhringer, Johanna Kovar-Eder, James H. Nebelsick, Michael W. Rasser, Anita Roth-Nebelsick and Reinhard Ziegler: **First small-scale insight from varved maar sediments in the environmental and climatic situation during the Middle Miocene Climatic Optimum**
- 14:40 – 15:00 Svetlana Popova, Torsten Utescher, Elena Herzog, Dmitry Gromyko and Volker Mosbrugger: **Cenozoic palaeovegetation patterns for Western Siberia and the Northeast of Russia reconstructed from plant functional type diversity**
- 15:00 – 15:20 Mircea Țicleanu, Radu Nicolescu, Adriana Ion, Viorel Ilinca: **The climate of the Carpathian Miocene reflected by the saliferous facieses**
- Coffee break:** 15:20 – 16:00
- 16:00 – 16:20 Dimiter Ivanov, Marianna Kováčová and Nela Doláková: **Early Late Miocene vegetation and climate dynamics in Slovakia and Bulgaria**
- 16:20 – 16:40 Nadja Ognjanova-Rumenova, Marlena Yaneva and Gabriel Nikolov: **Diatom-based correlation of Neogene lacustrine sediments from Gotse Delchev Basin, Southwestern Bulgaria**
- 16:40 – 17:00 Elżbieta Worobiec: **New palynological studies of the Pliocene freshwater deposits from the Mizerna locality, West Carpathians, Poland**
- 17:00 – 18:00 Poster Session\* and Discussion
- Poster No. 1.** Andrea K. Kern, Mathias Harzhauser, Ali Soliman, Werner E. Piller: **The potential of non-laminated Miocene sedimentary records for multi-proxy-environmental analysis on a decadal- to centennial-scale**

\*Posters will be exposed on October 2<sup>nd</sup> and 3<sup>rd</sup> at the Conference Room.

## Wednesday October 3<sup>rd</sup>

### Conference Hall

- 9:30 – 9:50 Felix T. Portmann: **Modern gridded climate data - Effect of resolution on differences of CRU and WorldClim data sets**
- 9:50 – 10:10 Adele Bertini and Angela A. Bruch: **Plio-Pleistocene vegetation response on orbitally forced climatic cycles in Southern Europe**
- 10:10 – 10:30 Louis François, Torsten Utescher, Noémie Hamon, Boglárka Erdei, Marie Dury, Alexandra Henrot and Eric Favre: **Testing palaeoclimate and palaeovegetation model reconstructions with the NECLIME palaeovegetation database: application to the Paratethys and Eastern Mediterranean region in the Middle Miocene**
- 10:30 – 10:50 Boglárka Erdei, Torsten Utescher, Lilla Hably and Volker Mosbrugger: **Late Miocene Vegetation of the Pannonian Basin as reflected by plant functional types**
- Coffee break:** 10:50 – 11:30
- 11:30 – 11:50 Felix T. Portmann and Torsten Utescher: **Climate response to variations of the Gulf Stream intensity - Comparisons of model results with palaeovegetation records for the Late Miocene**
- 11:50 – 12:10 Torsten Utescher, Dimiter Ivanov, Andreas Dreist and Volker Mosbrugger: **Assessing aridity in palynomorph records – tests with a novel technique of signal enhancement and employment of aridity indices**
- 12:10 – 12:30 Angela A. Bruch: **Quantifying openness of palaeovegetation with modern LAI data – an attempt towards a new approach**
- Lunch break:** 12:30 – 14:00
- 14:00 – 14:20 Edoardo Martinetto, Elena Vassio and Giovanni Monegato: **East-European affinity of a fruit and seed flora from NE Italy**
- 14:20 – 14:40 Angela A. Bruch, Ivan Gabrielyan, Steffen Scharrer, Klaudia Kuiper and Uwe Kirscher: **Early Pleistocene Vegetation and Climate in Southern Caucasus**
- 14:40 – 15:00 Viktoria Hristova and Dimiter Ivanov: **Late Miocene vegetation change in Karlovo Basin, Central Bulgaria**
- 15:00 – 15:20 Boris Tsenov and Dimiter Ivanov: **Comparative analysis of climate reconstructions results from Gotse Delchev Basin (SW Bulgaria)**

- Coffee break:** 15:20 – 16:00
- 16:00 – 16:20 Ivan Gabrielyan: **New species of the fossil macroflora from Early Pleistocene lake sediments of Sisian Formation, Southern Armenia**
- 16:20 – 16:40 Grzegorz Worobiec and Elżbieta Worobiec: **Preliminary results of investigations on fungal remains from Pliocene deposits of Mizerna (southern Poland)**
- 16:40 – 18:00 Final discussion and synthesis, outlook to future NECLIME research: Climate and vegetation evolution in the Paratethys, Eastern Mediterranean, and Black Sea area; NECLIME annual meeting 2013, St. Petersburg: presentation of the venue.
- Moderators:** A. Bruch and T. Utescher
- Goodbye:** 18:00

# The NECLIME Workshop

## Thursday October 4<sup>th</sup>

9:30 – 13:00 Joint Workshop of the NECLIME Working Groups on Taxonomy of the Macrobotanical and Palynomorph Record.

**Moderators:** T. Utescher, B. Erdei, E. Worobiec and D. Ivanov

Torsten Utescher: **Report on recent activities of the NECLIME working groups on Taxonomy of Neogene palaeobotanical record**

Dimiter Ivanov: **Objectives and progress of the NECLIME working group on taxonomy of Neogene palynomorphs**

Elżbieta Worobiec: **Some new ideas from the “Atlas of pollen and spores of the Polish Neogene – Angiosperms (2)”**

Adele Bertini and Edoardo Martinetto: **Palaeofloristic, vegetational and climatic reconstructions: a comparative analysis from micro- (pollen) and macropalaeobotanical (leaves, fruits and seeds) data**

Boglárka Erdei and Torsten Utescher: **Introduction to the single points to be discussed and opening of the discussion:**

- *integration of diverse plant records - the prospects of joint studies*
- *taxon complexes in the Cenozoic plant record and novelties in the taxonomy of Cenozoic plants*
- *NECLIME database - updating the taxonomy of fossil plant taxa and their NLRs, identification of synonyms; recent critique concerning CA methodology and Palaeoflora climate data*
- *potential exchange of palaeobotanical/botanical data from China*
- *possibilities to develop/improve available data (e.g revisions, reinvestigation of localities) - prospects of cooperation with Chinese colleagues*
- *Plant Functional Types - recent advances in pft classifications*
- *forthcoming NECLIME workshops*
- *additional suggestions, ideas on topics to be discussed in the scope of the workshop are highly welcome.*

**Lunch break:** 13:00 – 14:00

14:00 – 17:00 Optional:

- **Work with reference and palaeobotanical collections**

Organizers: V. Hristova and B. Tsenov

- **Sightseeing tour of Sofia**

Organizers: V. Bozukov and D. Ivanov

# ***The NECLIME Field trip***

**Organizers: D. Ivanov, V. Bozukov, T. Utescher, D. Ivanova**

## **Friday October 5<sup>th</sup>**

08:00 – Departure from Sofia

## **Saturday October 6<sup>th</sup>**

19:00 – Return to Sofia, Accommodation in the hotel

## **Sunday October 7<sup>th</sup>**

Departure of participants