The NECLIME Conference

Sofia, October 1\textsuperscript{st} - 4\textsuperscript{th}, 2012

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

Scientific Program

Monday October 1\textsuperscript{st}

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\textsuperscript{nd}

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 2nd and 3rd at the Conference Room.*
Wednesday October 3rd

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, Dimitar 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 Kirsch: Early Pleistocene Vegetation and Climate in Southern Caucasus

14:40 – 15:00 Viktoria Hristova and Dimitar Ivanov: Late Miocene vegetation change in Karlovo Basin, Central Bulgaria

15:00 – 15:20 Boris Tsenov and Dimitar 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 4th

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 5th
08:00 – Departure from Sofia

Saturday October 6th
19:00 – Return to Sofia, Accommodation in the hotel

Sunday October 7th
Departure of participants