



Dear colleagues and members of NECLIME,

We are very pleased to announce that the 6th Workshop of the NECLIME working group on taxonomy of the Neogene palynomorph record will be held in Warsaw, Poland, on November 26 - 27, 2015 at the Polish Geological Institute.

If you have interest to attend, please register **until August 31, 2015** by replying to this email, or send a message to Barbara Słodkowska <bslo@pgi.gov.pl>.

Please hand in a working title of your intended presentation. A summary of previous activities of the working group and topics proposed for our meeting in Poland are available in the attached circular. Access to reference materials of the Warsaw palynomorph collections can be organized on appointment.

We are looking forward to welcoming you all in Warsaw.

All the best,
Barbara Słodkowska, Torsten Utescher and Dimiter Ivanov.



NECLIME working group on taxonomy of the Neogene palynomorph record

6th workshop in Warsaw, Poland, November 26 - 27, 2015

FIRST CIRCULAR

Dear colleagues and NECLIME members,

As has been stated on our last annual meetings (Izmir'2014, Kütahya'2014, and previous palynological workshops and NECLIME meetings) there is some need to update our data base concerning taxonomy and Nearest Living Relatives of fossil taxa we use for climate and vegetation reconstructions.

Microfloras make up a considerable part of the Neogene palaeobotanical record, and are even essential when studying time series. To obtain consistent palaeoclimate and vegetation reconstructions from pollen and spores it is crucial to have a good, up to date standard. Therefore, the NECLIME working group on taxonomy of Neogene palynomorphs works since 2010 on critical problems of taxonomy and palaeoecology. The working group started with the organization of data input coming from current taxonomical research of NECLIME members, and made available new results obtained in their specific fields of interest. The working group aims to concentrate on key pollen types, identification of palynomorphs, assignment of NLRs, or on any other topic you might propose. A co-operation with the "macro group" ("taxonomy of the Neogene macrobotanical record of Eurasia") started with the joint workshop of both working groups, after the NECLIME annual meeting '2012 in Sofia, allowing for an integrative perspective.

On the 5th workshops of the working group "taxonomy of Neogene palynomorphs" the following topics were appointed for our next meeting:

- Critical palynomorph taxa with respect to taxonomy and climatic evaluation
 - improvement of the NECLIME data base – systematic studies on families and form taxa. As a first step, the working group focused on the following families: Rutaceae, Salicaceae, Ulmaceae, Celastraceae, Fagaceae, and the discussion is still open.
 - interpretation of problematic elements in the Neogene palynomorph record and revision of corresponding data base entries, e.g. *Tricolporopollenites satzveyensis*; *T. edmundi*; *T. villensis*; *T. pseudocingulum*; *T. liblarensis*
 - determination of Vitaceae/Staphyleaceae, the problem of Oligopollis - natural taxon or abnormal form of pollen, pollen of Styracaceae, others.....



- improvement of the NECLIME data base - drought indicators in Neogene palynomorph records.
- Re-evaluation of Neogene palynomorph records using TLM/SEM in combination
 - corresponding activities and information on ongoing research.
- Key atlases for identifying fossil and recent materials
 - relevant resources available to palynologists, especially Chinese resources.
- Integration of data published in the Atlas of Pollen and Spores of the Polish Neogene into the NECLIME data base
 - all new entries are available at the NECLIME website at http://www.neclime.de/Palaeoflora_update_micro_01_11.xls, and are open for discussion.
- Palynomorph reference collections
 - the importance of reference collections in the context of the improvement of our data basis was outlined at our meetings in Sofia and Budapest. Access to reference materials of Warsaw palynomorph collections can be organized on appointment.

This year's workshop will be focused on the taxonomy of Neogene palynomorphs and will be organized as a round-table discussion, where all participants present their achievements in the form of a short presentation. The workshop will include as well a general discussion and planning of further co-operations within the NECLIME framework.

We cordially invite you and your colleagues interested in climate change recorded in Cenozoic strata to participate in the workshop.

Preliminary topics proposed:

- 1) The application of TLM/SEM on fossil pollen flora as a specific focus. A lot of work was done here by our colleagues on North Sea, Central and Eastern Paratethys materials.
- 2) The Central European pollen record – taxonomy, palaeoecology. Possibilities for correlation with the Eastern Paratethys and Mediterranean.
- 3) The browncoal sections in Poland as a model for vegetation dynamics in the Cenozoic and possible high resolving palynological studies including analyses of short-term climate and vegetation dynamics.
- 4) The Polish Atlas of Neogene Palynomorphs – what's next?
- 5) Non-pollen palynomorphs in Neogene sediments.
- 6) PLEASE feel free to propose to us more topics according to your preference. They will be included in the programme

The fee for workshops participation of 50 Euros (incl. workshop materials, coffee breaks, lunches and workshop dinner) is payable in favour of the Polish Geological Institute -



National Research Institute, 4, Rakowiecka Str, PL-00-975 Warsaw, account number 73 1560 0013 2366 2335 1965 0011.

For the Polish participants the equivalent in Polish zlotys (200 zł) payable to account number 52 1560 0013 2366 2335 1965 0001.

In the transfer title, the name of the participant should be given, and "NECLIME workshop" as reason for payment.

To all who register for the workshop more details will be communicated in a second circular.

We would like to call your attention to the **2nd Scientific Conference on Climate change in the geological past** (2. Konferencję Naukową Zmiany klimatyczne w przeszłości geologicznej) which will be held at the Polish Geological Institute in Warsaw on November 24 – 25, 2015, right before the NECLIME workshop. Information on this conference is available at: <http://konferencje.pgi.gov.pl/pl/paleoklimat.html>.

With kindest regards, and looking forward to welcoming you in Warsaw,
Barbara Słodkowska, Torsten Utescher and Dimiter Ivanov.