

Pre-Cenozoic Climates International Workshop

- when data and modeling meet



Géosciences Environnement Toulouse
Observatoire Midi-Pyrénées- Université Paul Sabatier

June 17-19th 2013
Toulouse, France

Second Circular

Welcome to PC²IW

'Pre-Cenozoic climates' is a multidisciplinary workshop that broadly addresses the pre-Cenozoic climatic phenomena and processes. The purpose of the workshop is to extend our understanding of the natural variations that take place within the earth's climate system in deep times by bringing together specialists from diverse fields including sedimentology, paleontology, geochemistry (data-community) and numerical modeling (model-community).

It is with great pleasure that we invite you to Toulouse. We are confident that you will have a truly memorable and rewarding stay in the "Ville Rose".

Objectives

This workshop aims at exploring climate reconstructions and processes throughout the pre-Cenozoic time. In recent years, the number of available data has grown exponentially, including paleontological, sedimentological, isotopic, and geochemical data. Two questions arise: (1) is there a unified picture of the pre-Cenozoic climates and environmental evolution emerging from this large amount of data, and (2) how can we promote dialogue between numerical models, which deliver large amounts of climatic and environmental parameters, and geological observations? The workshop offers data- and model-workers an opportunity to discuss the strengths and weaknesses of the geological proxies and numerical models, to share their vision about the reconstruction of pre-Cenozoic climates, and to debate about emerging scientific questions such as:

- 50 years of reconstruction of the paleoclimate: what has been learned? What is true, what is wrong?
- What can be learned from the pre-Cenozoic world for the future? (Is there something to learn?)
- By how much does differ the past from the modern Earth system, in terms of stability, sensitivity...?
- How to integrate non-quantitative data in climate reconstruction?
- Do we have access to the absolute temperatures of the past world?
- Are biodiversity trends reliable climatic markers?

Organized by

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<http://pc2iw.sciencesconf.org/>



Provisional scientific topics

Our meeting is designed to reinforce exchanges between the data- and model-communities and to initiate promising collaborations about paleoclimate reconstructions. Contributors are encouraged to present state-of-the-art results from sedimentological/paleontological archives, climate modeling and/or data analyses. The workshop is intentionally informal, in order to ease meetings and to open discussions.

Sessions will be organized focusing on the following main topics:

- Theme 1. Sediments as proxies in climate reconstructions
- Theme 2. Modeling past climate
- Theme 3. Isotopic records and past climate
- Theme 4. Processes and timing of glacial and warm events
- Theme 5. New frontiers in data acquisition and modeling
- Theme 6. Data assimilation in models
- Theme 7. Links between climate and biota
- Theme 8. Filling gaps in Earth History: doubt and forgotten periods

Oral presentations will be allocated 30 minutes including time for discussion (20+10). The conference room will be equipped with a computer and a videoprojector. Poster presentations are welcomed and encouraged (DIN A0 in portrait form).

Keynote speakers

Christian J. Bjerrum (University of Copenhagen, Denmark)
Michael Joachimski (GeoZentrum, Erlangen, Germany)
Isabel Montañez (University of California, Davis, USA)
Chris J. Poulsen (University of Michigan, USA)
Bas van de Schootbrugge (University of Frankfurt, Germany)
Richard J. Twitchett (Plymouth University, UK)
Paul Valdes (University of Bristol, UK)

Important Dates

20th January-15th March 2013: Period for abstract submission

1st April 2013: Formal notification to authors of acceptance and presentation type

15th April 2013: Deadline for payment and registration

End of April 2013: 3rd circular with program

Registration fees

Registration packages will cover morning and afternoon refreshments, a ticket to the welcome reception and congress materials including detailed program and abstracts.

<u>Fee</u>	<u>until 15.04.2013</u>
Senior	50 €
Student	25 €

Registration link will be available between January 20th 2012 and April 15th 2013, on the PC2IW website (<http://pc2iw.sciencesconf.org/>).

Abstract form

Abstracts must be submitted in an extended format (1-5 pages, figures and references admitted) in English language (template available on the website or see below) and specify the wished type of presentation (poster or talk). Abstracts will be published in a non-periodic scientific journal (STRATA, <http://strata.mp.free.fr/>).

Title [Times New Roman 16]

Forname Name¹, Forname Name² [Times New Roman 14]

¹Address; e-mail [Times new Roman 10]

²Address; e-mail [Times new Roman 10]

Text..... [Times New Roman 11]

References [Times New Roman 10]

Name X., Name X. & Name X. (Year). Title of the paper. *Journal*, Vol(Issue), pp-pp.

Name X. & Name X. (Year). Title of the paper ; In Name X. & Name X. (Eds), *Title of the book*. Collection and Publisher, Town, pp. 11-11.

*Illustrations: greyscale (color admitted for the pdf version), max 200*160mm (height*width, two columns) or max 200*80mm (one column).*

Language

The official language of the workshop will be English and no translation facilities will be available.

Venue

Destination

Young, modern and dynamic, Toulouse tingles your spine with a Latin heat that inspires both its temperature and architecture. Toulouse is the 4th largest French city, in the heart of southwestern France. The town is ideally located halfway between the Pyrénées Mountains, the Atlantic Ocean and the Mediterranean Sea. Toulouse is traversed by the Garonne River and the charming Canal du Midi. The city seduces by its small sinuous streets and diverse medieval to modern monuments, as the City Hall and its Donjon (XVIth), or the numerous noble townhouses (XVIth-XIXth). Toulouse is a cosmopolitan and enthusiastic town, mixing historical heritage and modern lifestyle. Toulouse has one of the most intense cultural calendars sustained by one of the best symphonic orchestra of France, a variety of music festivals and theatres, and a large variety of museums. Gastronomic specialties include the famous 'saucisse de Toulouse', the 'Cassoulet', the 'garbure' and the delicate 'foie gras'. Toulouse is also well known for its rugby union club, its professional football team and the top-level handball and volleyball teams. The university is the third largest in France, one of the oldest in Europe. Major fields are Aeronautics, Electronics and Electrotechnics, Agronomy, and Earth and Planetary sciences.

Climate: The Toulouse region has pleasant warm climate at the beginning of the summer (~ 20-25°C).



Location

The Department of Geology (GET) is housed in the Observatoire Midi-Pyrénées. However the workshop will take place in the **Osète room, in the Duranti building** (Lieutenant Colonel Pélissier street). The conference room is in the historical city center, easily reachable via the metro stations Capitole (line A) and Jean-Jaurès (lines A and B).



Accommodation

Toulouse offers a diverse range of stylish hotels, comfortable vacation apartments, and guesthouses. Prices for suitable accommodations start at 65 euros/night. Complete list can be found on the website of the Tourist Office (<http://www.toulouse-visit.com/>).

Transport

Toulouse can be easily reached by car (Motorways A 61, A62, A64, A68), train (Toulouse Matabiau station) and airplane (Airport Toulouse Blagnac).

The following links may be useful:

www.tisseo.fr/

www.toulouse.aeroport.fr/

www.voyage-sncf.com