

## Third Circular and Call for Papers



International Meeting AROUND the **Jurassic-Cretaceous** Boundary

**JK2018**

**Muséum d'Histoire Naturelle de Genève (CH)**

**December 5<sup>th</sup> – 7<sup>th</sup>, 2018**

Jacques Ayer (Director of the Museum), Dr Nadir Alvarez (Head of the 'Research and Collections' Unit), Dr Lionel Cavin (Curator, Editor-in-Chief of *Revue de Paléobiologie*), and the rest of the organizing committee (Prof. Rossana Martini, Prof. Andreas Strasser, Dr Christian Meister, Dr André Piuze, Dr Éric Monteil, and Prof. Bruno Granier, JK2018 President) extend a welcome to all those planning to come at the MHN in Geneva (CH) and attend this meeting that brings together people with interests in the transition period spanning the latest Jurassic to the earliest Cretaceous times.

The poster was designed by **Karen Carr**, <http://www.karencarr.com/>, a famous paleo-Artist.

The success of the forthcoming **JK2018** will rely on your contribution, support and help. For instance, you can easily help us by disseminating this first circular to your network. You should also consider and plan to submit abstracts of presentations or posters with your students, and encourage your colleagues, research group members and fellow scientists to contribute to and participate in this special meeting.

The **JK2018** meeting will focus on a ca. 20 My interval of time spanning the Tithonian – Berriasian / Volgian – Ryazanian / – Valanginian interval (eventually overlapping slightly its lower and upper boundaries) in the Tethys area, as well as in the Panthalassa, Boreal and Austral regions. In parallel to the oral presentations, we expect to have a poster exhibition dedicated to regional charts in order to get a global view.

This meeting should feature disciplines covering the many aspects of stratigraphy (litho-, bio-, magneto-, chemo-, cyclo-, sequence), as well as sedimentology, paleontology, paleogeography and global tectonics, at all scales from the SEM – Scanning Electron Microscopy – to the basin analyses. We would also like to present posters displaying information from the various disciplines and technical approaches.

Examples for presentation/poster titles:

- C-isotope records - proxies for paleoenvironmental change and stratigraphic tool - Where is the Jurassic-Cretaceous boundary? [Guest Speaker]
- A Berriasian paleo-beachrock near Crozet, Jura Mountains (France)
- Unique aragonitic microfossils (foraminifers and algae) from a Berriasian locality (Bosnia and Herzegovina)

Examples for session titles:

- The advantages (or not!) of shifting the JK systems' boundary from the Tithonian-Berriasian boundary to the Berriasian-Valanginian boundary
- Correlation of global, low-latitude radiolarian events with nannofossil-calpionellid and magneto- stratigraphy around the Jurassic-Cretaceous boundary
- Examples of paleogeographical changes (in relation to global tectonics and eustasy) during the –155 Ma to –120 Ma interval

We are still in the process of building our scientific committee with experts in most of the fields (thematic/geographic) that should be covered during the meeting. A preliminary list can be found at <https://php5.univ-brest.fr/conference/ocs/index.php/JK2018/JK2018/about/organizingTeam>

On the same page, there are also national and international scientific organizations that are either supporting or sponsoring the meeting. It is expected that additional partners will join us because invitations are still under evaluation, and other partnerships may yet show up. The preliminary list of these scientific partners can also be found at <https://php5.univ-brest.fr/conference/ocs/index.php/JK2018/JK2018/about/organizingTeam>

We want to make **JK2018** as accessible to as many interested people as possible. With this aim in mind we are making a very special “Early Bird” registration offer at an unbeatable fee of 50€. The deadline for this early full registration is 30<sup>th</sup> September 2018.

We encourage you to act quickly, take advantage of this special time-limited offer, and join us in Geneva for **JK2018**.

The **JK2018** meeting will follow the format of **STRATI2010**, with both oral presentations and posters (note: some posters may eventually duplicate or supplement oral presentations to allow more time for discussion of the presentation content). A number of lecturers (ca. 50) will be selected from all the abstracts submitted by potential participants. All those intending to

attend are asked to register (“preliminary registration”) as soon as possible at <https://php5.univ-brest.fr/conference/ocs/index.php/JK2018/JK2018> and to submit their abstracts as Word doc. Files for both oral presentations and posters in English, the language of the meeting, **not later than 31st October 2018**. This deadline will allow a quick peer-reviewing of the abstracts, some language edits, if necessary, and the assembly of the final programme. Ideally all accepted abstracts will be published in the **JK2018** abstract volume. Any presenting author not fully registered before 31st October 2018 will be assumed to be a non-attendee and will be removed from the programme unless some special arrangements are in place and agreed by the organisers. An example of the style of abstract required is given at the end of this circular.

### **Code of conduct**

The **JK2018** is conducted for the benefit of all attendees, guests, speakers, scientific partners and their representatives, exhibitors (if any), volunteers, members of the scientific committee, and members of the organizing committee to advance the knowledge around a key system boundary. As such, it should facilitate networking and collaboration between researchers within the world’s geosciences community.

We value the participation of all and we would like all JK2018 attendees to have an enjoyable and fulfilling experience. Accordingly, everyone is expected to show respect and courtesy to other attendees throughout the conference and at all conference-related events.

### **Muséum d’Histoire Naturelle de Genève**

The meeting will be hosted by the Natural History Museum of Geneva (CH) <http://institutions.ville-geneve.ch/fr/mhn/>. Since it first opened to the public in 1966, its natural history exhibition, the largest in Switzerland, has attracted over 250,000 visitors a year. The first three floors mainly contain animal collections (including reconstitutions of extinct dodo bird, great auk and King Island emu). The top floors originally hosted exhibits related to the geosciences, astronomy, and the evolution of man; these parts of the exhibition are currently not accessible to the public.



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The paleontological collections (Vertebrates, Invertebrates, micropaleontology, and paleobotany) consist of more than 150,000 specimens, corresponding to the historical collections of XVIII<sup>th</sup> and XIX<sup>th</sup> century scholars and scientists (*e.g.*, E. Boissier, B. Delessert, G.-A. Deluc, J.A. Deluc, A. Humbert, P. de Loriol, F.-J. Pictet, H.-B. de Saussure), and to significant XX<sup>th</sup> century additions. Annotated lists of these collections are partly published in *Revue de Paléobiologie*. Today the paleontological research team primarily focuses on Mesozoic topics, including fossil fishes, ammonites *sensu lato*, and foraminifera, as well as palynology.

### **MHN's location** (46°11'56.5"N 6°09'30.3"E)

The Museum is located in the area of Eaux-Vives:

1, route de Malagnou • 1208 Genève (CH) • Phone +41 (0)22 418 6300

Bus 5 or 25 (stop Muséum)

Bus 1 or 8 (stops Tranchées or Muséum)

Tram 12 (stop Villereuse)

Interactive map:

<https://www.google.ch/maps/place/Mus%C3%A9um+d'Histoire+Naturelle/@46.198815,6.158051,15z/data=!4m5!3m4!1s0x478c6534eca5c76d:0x8cb8d63ea7a95008!8m2!3d46.198895!4d6.158321?hl=fr>

### **Cafeteria**

There is a café with a seating capacity of some 150 people in the Museum premises. It is suggested that you take full advantage of the on-line registration options to make sure you can get your lunch there (75€ for the 3 days, or 50€ for days 2<sup>nd</sup> and 3<sup>rd</sup>). Otherwise, you still have the options to bring your own picnic, provided that you buy a drink, or to look for a place in the neighbourhoods of the Museum.

### **Getting to Geneva (CH)**

Geneva is a city of more than 200,000 people – the second most populous city in Switzerland. It is located in the valley at the south-western end of Lake Geneva and entirely surrounded by three mountain chains with Jurassic and Cretaceous outcrops: the Jura main range to the north-west, the Vuache to the south, and the Salève to the south-east.

Geneva is known as one of the world's most important financial center as well as a worldwide center for diplomacy. It hosts the highest number of international organizations in the world (*e.g.*, the Red Cross and some agencies of the United Nations): <http://www.ville-geneve.ch/plan-ville/>

Please contact the conference organisation if you have any specific queries about travel. The city airport (Aéroport de Genève) is served by a huge number of airlines and can be reached from almost any part of the world <http://www.gva.ch/en/desktopdefault.aspx>

There are also trains from Switzerland and neighbouring countries, which arrive at the Gare Cornavin in the town center

<http://www.raileurope.com/place/geneva-cff>

Hotels could be more expensive in Geneva (CH) than in neighbouring Annemasse or Gaillard (FR), which are only 10 to 15 minutes by tram from the Museum. There are other cheap options to explore, like Airbnb offers. Upon request the organisers (see § “Contacts” below) can provide a list of hotels.

## **Contacts**

Prof. Bruno Granier [bgranier@univ-brest.fr](mailto:bgranier@univ-brest.fr) / [bgranier@ku.edu](mailto:bgranier@ku.edu) (primary contact)

Dr Lionel Cavin [Lionel.Cavin@ville-ge.ch](mailto:Lionel.Cavin@ville-ge.ch) (secondary contact)

Dr André Piuz [Andre.Piuz@ville-ge.ch](mailto:Andre.Piuz@ville-ge.ch) (secondary contact)

Mailing list: <http://www-connexe.univ-brest.fr/geosciences/dada/mail.cgi/list/TB/>

## **Draft schedule for the Meeting**

This draft schedule gives a brief summary of the meeting, although timings may change. The number of talks and posters being offered will dictate the final programme. Please regard this as only a guide to the events.

1) Preliminary registration is LIVE on-line at <https://php5.univ-brest.fr/conference/ocs/index.php/JK2018/JK2018/user/account>

You first need to register as a user (select “reader”, “author”, and/or “reviewer”).

It will allow you to upload an abstract when you are ready

2) Full registration is also LIVE on-line at <https://php5.univ-brest.fr/conference/ocs/index.php/JK2018/JK2018/schedConf/registration>

Once you are registered as a user you are entitled to make the formal registration and payment.

Note that “Early Bird” registration (full registration before October 1st, 2018) is almost at cost price and it includes coffee breaks, badge and abstract volume. For those persons interested there is an option to have lunches at the MHN’s cafeteria, but it is recommended to book in advance due to capacity limitations (see § “Cafeteria” above). The conference dinner will be scheduled for the last evening (Friday). That will involve an extra charge that should be paid the first day at the registration desk. Anyone with difficulties over advance payment will have to contact the organisers (see § “Contacts” above).

## **Programme Outline (for planning purposes only)**

### **Wednesday 5<sup>th</sup> December 2018**

09:30 Registration opens, Museum, 3rd Floor  
10:00 – 12:00 Posters  
12:00 – 14:00 Lunch break and Posters  
14:00 – 14:30 Welcome and Introduction  
14:30 – 16:00 Talks of 15 minutes  
16:00 – 16:30 Coffee break and Posters  
16:30 – 17:50 Talks of 15 minutes  
17:50 End of session

### **Thursday 6<sup>th</sup> December 2018**

08:30 – 10:00 Talks of 15 minutes  
10:00 – 10:30 Coffee break and Posters  
10:30 – 12:00 Talks of 15 minutes  
12:00 – 14:00 Lunch break and Posters  
14:00 – 16:00 Talks of 15 minutes  
16:00 – 16:30 Coffee break and Posters  
16:30 – 17:50 Discussion  
17:50 End of session

### **Friday 7<sup>th</sup> December 2018**

08:30 – 10:00 Talks of 15 minutes  
10:00 – 10:30 Coffee break and Posters  
10:30 – 12:00 Talks of 15 minutes  
12:00 – 14:00 Lunch break and Posters  
14:00 – 16:00 Talks of 15 minutes  
16:00 – 16:30 Coffee break and Posters  
16:30 – 17:30 Discussion and close  
17:30 – 17:50 End of session, removal of posters from boards, *etc.*  
19:30 (for 20:00) Conference Dinner at "to be determined"

## **On-line Registration**

Username: make it simple (try your family name or your first initial(s) followed by your family name), only lowercase letters, *e.g.*, "oppel" or "caoppel"

Password: your password must be at least 6 characters

Salutation: Prof., Dr, or leave it empty

First name: your given name, *e.g.*, "Carl"

Middle name(s): other given name(s) if more than one or their initials, *e.g.*, "Albert" or "A."

Last name: your family name, *e.g.*, "Oppel"

Initials: your initials, *e.g.*, "CAO"

Affiliation: your company/university name

Email: your valid contact email, *e.g.*, "oppel@lrz.uni-muenchen.de"

## Abstract Submission

Abstracts for both talks and posters should be sent as Microsoft Word (doc., not docx. please) files using the following format:

Title (14 pt Arial, bold, centred)

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Authors (12pt, bold, centred, presenting author in blue color, using given name, initial(s), underlined family name for all authors; use superscript numbers to identify addresses)

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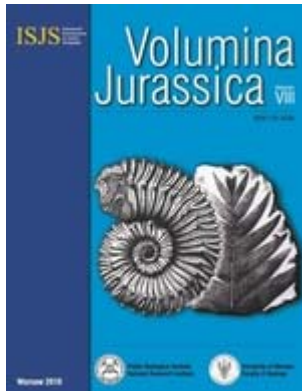
Addresses (11pt, left justified, identified by superscript numbers, in the order department, institution, address, city, post-code, country) and E-mail(s)

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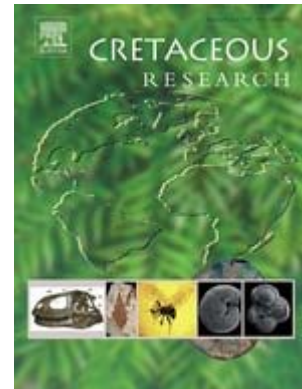
Abstract (12pt, no indentation, right and left justified, fossil names italic, references may be included, written in full in 11pt at the end of the written abstract). If you wish to substitute a simple diagram (black/white) within the abstract this can be done provided that the total length stated below is not exceeded.

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Bibliographic references (11pt, left justified, identified by superscript numbers, in the order department, institution, address, city, post-code, country) and E-mail(s)



Selected papers from the meeting will be published in "**Volumina Jurassica**" (Editor in Chief: Prof. Andrzej Wierzbowski) and in "**Cretaceous Research**" (Editor in Chief: Dr Eduardo Koutsoukos). There will also be possibilities to submit some manuscripts to "**Revue de Paléobiologie**" (Editor in Chief: Dr Lionel Cavin) and in "**Carnets Geol.**" (Editor in Chief: Prof. Bruno Granier).



# The Jurassic-Cretaceous system boundary as we viewed it

**Alcide D. d'Orbigny<sup>1</sup>, Carl Albert Oppel<sup>2</sup>**

<sup>1</sup> Muséum National d'Histoire Naturelle, 57 Rue Cuvier, 75005 Paris (France) E-mail: orbigny@mnhn.fr

<sup>2</sup> Paläontologisches Museum, Richard-Wagner-Straße 10, 80333 München (Germany) E-mail: oppel@lrz.uni-muenchen.de

The second author (C.A.O.) has defined the “Tithonische Etage” (Oppel, 1865, p. 535) as certain strata comprised between the Kimmeridgian Stage and the lowermost strata of the Neocomian (a “stage” originally defined from the Neuchâtel area, and cropping out near Valangin and Hauterive) bearing ammonites described by the first author, e.g., *Neocomites neocomiensis* (Orbigny, 1841), *Kilianella roubaudiana* (Orbigny, 1841), and *Saynoceras verrucosum* (Orbigny, 1841). Our young colleague Henri Coquand (1871, p. 232) introduced the “Berriasien” some 14 years after the passing of the senior author (A.D.O.) and 6 years after that of the junior author (C.A.O). Accordingly (and although this abstract is a “pure fake”, used as an example), pretending that both of us formally ascribed the Berriasian into the Cretaceous would be a complete anachronism and an unpardonable scientific falsehood. In order to have fair, unbiased, and open discussions on the system boundary during the **JK2018** meeting and to give all sides the possibility to defend their views, it is suggested that, in both abstracts and figures, the author(s) should refrain as much as possible from using “JK system boundary”, but should preferably refer to stage boundaries instead.

Coquand H. (1871).- Sur le Klippenkalk des départements du Var et des Alpes-Maritimes.- *Bulletin de la Société géologique de France*, 2<sup>e</sup> série, t. 28, p. 208-234.

Oppel C.A. (1865).- Die Tithonische Etage.- *Zeitschrift der Deutschen geologischen Gesellschaft*, Jahrgang 17, p. 535-558.

Orbigny A.D. d' (1841).- Paléontologie française, terrains crétacés, I - Céphalopodes.- Masson, Paris, 662 p.

**NOTE THAT THE TOTAL LENGTH OF THE ABSTRACT SHOULD NOT EXCEED TWO PAGES A4 PAPER, BUT MAY BE LESS THAN THIS. NOTE THAT THE FOLLOWING IS AN EXAMPLE OF THE STYLE AND SIZE OF LETTERING.**

## **Members of the Organizing Committee**

Prof. Rossana Martini, Université de Genève, Switzerland  
Dr Lionel Cavin, Muséum d'Histoire naturelle (MHN) de Genève, Switzerland  
Prof. Jean J. Charollais, Université de Genève, Switzerland  
Prof. Bruno R.C. Granier, Université de Bretagne Occidentale, France  
Dr Christian Meister, Muséum d'Histoire naturelle de Genève, Switzerland  
Dr Éric Monteil, Muséum d'Histoire naturelle (MNH) de Genève, Switzerland  
Dr André Piuze, Muséum d'Histoire naturelle (MHN) de Genève, Switzerland  
Prof. Andreas Strasser, University of Fribourg, Switzerland

## **Members of the Scientific Committee**

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Dr Cinzia Bottini, Università degli Studi di Milano, Italy  
Dr Špela Goričan, ZRC SAZU, Slovenia  
Dr François Atrops, CNRS, Université Claude Bernard (Lyon 1), France  
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Dr Mohssine Ettachfini, Université Cadi Ayyad, Marrakesh, Morocco  
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Dr Hartmut Jäger, GeoResources STC, Germany  
Prof. Mikheil Kakabadze, I. Javakishvili Tbilisi State University, Georgia  
Prof. Jaap Klein, Naturalis Biodiversity Center, Netherlands  
Dr Stephen Lokier, Bangor University, United Kingdom  
Dr Carles Martín-Closas, Universitat de Barcelona, Spain  
Dr Mathieu Martinez, Université de Rennes 1, France  
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Jean-Loup Rubino, Total, France  
Prof. Mariusz A. Salamon, Uniwersytet Śląski, Poland  
Dr Christian Salazar, Universidad del Desarrollo, Chile  
Dr Robert W. Scott, The University of Tulsa, United States  
Dr Mike Simmons, Halliburton, United States  
Prof. Andreas Strasser, University of Fribourg, Switzerland  
Prof. Helmut J. Weissert, ETH Zürich, Switzerland  
Prof. Ismail Omer Yilmaz, Middle East Technical University (Ankara), Turkey

## Scientific partners

The Paleontological Society

Asociación Paleontológica Argentina (APA)

Association Paléontologique Française (APF)

Società Paleontologica Italiana (SPI)

Societatea Paleontologilor din România (SPR)

Sociedad Española de Paleontología (SEP)

International Research Group on Ostracoda (IRGO)

Comité Suisse de Stratigraphie (strati.CH)

**International Subcommission on Stratigraphic Classification (ISSC)**

Stratigraphy, Sedimentology and Palaeontology (SSP) - European  
Geosciences Union (EGU)

**Меловая комиссия МСК** (Russian "Cretaceous Commission")

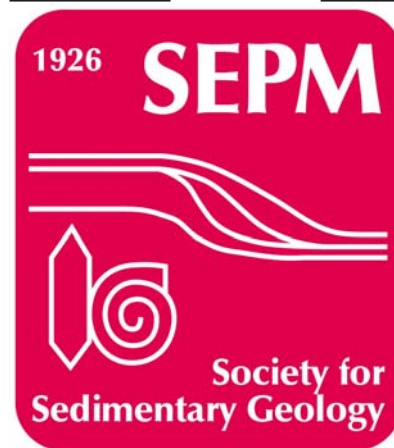
**Юрская комиссия МСК** (Russian "Jurassic Commission")

International Association of Sedimentologists (IAS)

Society for Sedimentary Geology (SEPM)

## Websites with links to us:

- European Geosciences Union (EGU)  
<https://www.egu.eu/ssp/meetings/>
- The Palaeontological Association  
<https://www.palass.org/meetings-events/future-meetings/jk2018>
- International Subcommission on Jurassic Stratigraphy (ISJS)  
<https://jurassicdotstratigraphydotorg.wordpress.com/meetings/>
- International Subcommission on Cretaceous Stratigraphy (ISCS)  
<http://cretaceous.stratigraphy.org/the-international-meeting-around-the-jurassic-cretaceous-boundary-will-be-held-from-5-to-7-december-2018-in-geneve-switzerland-for-more-information-visit-the-meeting-website/>



<b>SUMMARY</b>	<b>SHORT CUTS</b>
1) Mailing list (subscribe, unsubscribe, archives):	<a href="http://www-connexe.univ-brest.fr/geosciences/dada/mail.cgi/archive/TB/">http://www-connexe.univ-brest.fr/geosciences/dada/mail.cgi/archive/TB/</a>
2) Pre-registration + abstract submittals:	<a href="https://php5.univ-brest.fr/conference/ocs/index.php/JK2018/JK2018">https://php5.univ-brest.fr/conference/ocs/index.php/JK2018/JK2018</a>
3) Full registration (payment):	<a href="http://paleopolis.rediris.es/cg/registration.html">http://paleopolis.rediris.es/cg/registration.html</a>
4) The latest circular issued:	<a href="http://paleopolis.rediris.es/cg/JK2018.pdf">http://paleopolis.rediris.es/cg/JK2018.pdf</a>
5) IAS grants for IAS student members	<a href="https://www.sedimentologists.org/grants">https://www.sedimentologists.org/grants</a>

<b>KEY DATES</b>	<b>AGENDA</b>
Early bird registration:	before October 1st
Author registration:	before October 1st
Abstract submittals:	before November 1st
First day of the meeting:	December 5
Last day of the meeting:	December 7
'Gala dinner' (fondue):	December 7 (evening)