

International Symposium on Triassic and later Marine Vertebrate Faunas

Workshop of Major International Joint Research Project 40920124002,
National Science Foundation of China



August 28-September 8

THIRD CIRCULAR

Geological Museum and Department of Geology

School of Earth and Space Sciences

Peking University, Beijing 100871, China



School of Earth and Space Sciences
Peking University



Key Laboratory of Evolutionary Systematics of Vertebrates
Chinese Academy of Sciences



Dear colleagues,

Since the first report on the fossil reptiles from the Late Triassic of Guanling, Guizhou Province, in China in 1999, the Triassic marine vertebrate faunas of Guizhou-Yunnan, including the Guanling Biota, the Xingyi Fauna, the Panxian Fauna and Luoping Fauna, have been attracting much greater interests from scientists all over the world. Research on these faunas featured prominently at the 2nd IPC and at the 64th, 65th, 66th, 67th, 68th, 69th SVP meetings. To provide an opportunity to review progress of research in recent years, and to further discuss the Triassic marine vertebrates from Guizhou-Yunnan, “The International Symposium on Triassic and later Marine Vertebrate Faunas” will be held at Peking University on August 28-29, 2010, sponsored by Peking University and Key Laboratory of Evolutionary Systematics of Vertebrates, Chinese Academy of Sciences, combined with a post-symposium field trip to Guanling, Xingyi, Panxian (Guizhou), Luoping (Yunnan) and Chaohu (Anhui).

The major academic topic of the symposium is: “Triassic marine vertebrate faunas in southwestern China: The evolution, paleogeography, paleoenvironment, paleoecology and the response to the recovery of the Triassic biosphere”. This is augmented by the overview of the evolution of marine vertebrates after the Triassic.

A discussion forum will be held around Triassic Paleontology and interrelated subjects such as the construction of geological parks, development of a local museum, the organization of international cooperation and talent cultivation at the site of Guanling after the symposium during the field trip to Guizhou-Yunnan.

Other than the abundant and well-preserved Triassic marine vertebrate fossils and typical stratigraphic sections, there are a lot of beautiful landscape sites, charming minor nationality’s cultural sites and ecological villages in the mountains, too. You are welcome to visit Peking University, Beijing and southwestern China, and to experience these natural and cultural rarities.

Chairs,

PAN Mao, HAO Wei-cheng, ZHU Min

Olivier Rieppel, Andrea Tintori, Ryosuke Motani

Persons interested in attending the symposium who need more information, please contact:

Dr. JIANG Da-yong, Professor

Secretariat of symposium

Department of Geology and Geological Museum

School of Earth and Space Sciences

Peking University

Yiheyuan Str. 5, Haidian District, Beijing 100871

P. R. China

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Fax: +86-10-62754154

OR please visit the website: <http://marinereptile.org/>

1 Events of the symposium

1.1 The academic activities

- Symposium: Triassic and later marine vertebrate faunas: its evolution, paleogeography, paleoenvironment, paleoecology and the responses to the recovery of the Triassic biosphere.
- Workshop of NSFC Major International Joint Research Project 40920124002: “Radiation bio-event sequence of marine reptile faunas and global migratory-evolutionary pattern within the course from early recovery to radiated reconstruction of Early-Middle Triassic ecosystem after the end-Permian Mass Extinction”.

1.2 Academic sessions

The symposium will include platform presentations and poster presentations. Leading authorities will be invited to be the conveners (chairs) for the following academic sessions:

1. “The diversity evolution and paleogeography on the Triassic and later marine reptiles ”.
Conveners: Olivier Rieppel, Ryosuke Motani, WU Xiao-chun
2. “The evolution and paleogeography of Triassic fishes and invertebrates”.
Conveners: Andrea Tintori, JIN Fan, SUN Yuan-lin, LUO Yong-ming, HU Shi-xue

1.3 Important Dates and sites

- Registration: August 27, 2010, 8:00 am – 18:00 pm
Shaoyuan Hotel of Peking University, Beijing
- Academic sessions: August 28-29, 2010
Yifu Building No 2 (New Geoscience Building)
Peking University
Yiheyuan Street 5#, Haidian District, Beijing 100871

1.4 Program of Academic sessions

- August 28, 2010
8:30-9:00, OPENING CEREMONY; Moderator: Prof. PAN Mao
Prof. CHANG Mee-mann, address
Director of Guizhou Provincial Department of Land and Resource
Mayor of Anshun City

Mayor of Guanling County

Mayor of Meride, Monte San Giorgio, Switzerland

9:00-11:00, SYMPOSIUM KEYNOTE SPEECHES

Moderator: Prof. CHANG Mee-mann;

9:00-9:30, Prof. Dr. Olivier Rieppel: Triassic Marine reptiles (Sauropterygia, Protorosauria, Thalattosauria) from the Eastern and Western Tethyan Faunal Provinces

9:30-10:00, Dr. WU Xiao-chun: Reproductive patterns of the Mesozoic aquatic reptiles

10:00-10:30, Prof. Dr. Andrea Tintori: How fast was the recovery after the Permo/Triassic crisis? The answer from the actinopterygian fishes

10:30-11:00, Prof. SUN Yuan-lin: Stratigraphy and sequence of Triassic marine vertebrate faunas of south China

11:00-11:30, photograph, in front of the Yifu Building No 2

11:30-13:00, lunch, on site packet food

13:00-16:00, ACADEMIC SESSIONS I-1: THE DIVERSITY EVOLUTION AND PALEOGEOGRAPHY ON THE TRIASSIC AND LATER MARINE REPTILES

Moderator: Olivier Rieppel, Ryosuke Motani, WU Xiao-chun

13:00-13:20, Marta S. Fernández, Zulma Gasparini, Yanina Herrera: Tithonian Marine Herpeto Faunas from the Neuquen Basin (Northwest Patagonia, Argentina)

13:20-13:40, Benjamin P. Kear: Cretaceous ichthyosaurs: current perspectives on diversity, relationships and palaeobiology

13:40-14:00, F. Robin O'Keefe: New plesiosaur discoveries from the Jurassic Sundance Formation: novel body morphologies and inferences of prey selection

14:00-14:20, Nicholas Fraser: The tanystropheids and their distribution

14:20-14:40, Heinz Furrer: Palaeogeography, palaeoecology and taphonomy of Middle Triassic vertebrate fossil lagerstätten in the Swiss Alps

14:40-15:00, Jun LIU, Da-yong JIANG, Olivier Rieppel, Ryosuke Motani,

Michael J. Benton, Jonathan C. Aitchison, Shi-xue HU, Qi-yue ZHANG, Chang-yong ZHOU: A preliminary review of the diversity of marine reptiles from Luoping Fauna

15:00-15:20, Long CHENG, Xiaohong CHEN and ZHANG Baomin: *Anshunsaurus huangnihensis*, Cheng (Reptilia: Thalattosauria) from the Middle Triassic of Guizhou, China: A transitional node in Askeptosauridae ingroup

15:20-15:40, Tamaki Sato and Xiao-Chun Wu: Late Cretaceous plesiosaurian fauna of Manitoba Escarpment, Canada

15:40-16:00, Torsten M. Scheyer and James M. Neenan: evolution and paleobiology of marine reptiles: using placodontia as a case study for integrating osteological and 3d imaging, developmental, and paleohistological data

16:00-17:00, Exhibition in Geological Museum of Peking University
Poster and free discussion

17:00-18:00, Symposium Banquet

● August 29, 2010

8:20-9:40, ACADEMIC SESSIONS I-2: THE DIVERSITY EVOLUTION AND PALEOGEOGRAPHY ON THE TRIASSIC AND LATER MARINE REPTILES

Moderator: Olivier Rieppel, Ryosuke Motani, WU Xiao-chun

8:20-8:40, Cheng JI: True Tailbend Occurred in Triassic—Evidence from the Triassic Ichthyosaur Skeletons of South China

8:40-9:00, Jun LIU, Da-yong JIANG, Ryosuke Motani, Olivier Rieppel, Jonathan C. Aitchison, Shi-xue HU, Qi-yue ZHANG, Chang-yong ZHOU: A review of Chinese mixosaurids

9:00-9:20, Le-tian MA: The Restudy of the “*Dingxiaosaurus luyinensis*” from Guizhou, China

9:20-9:40, Peng-fei YANG and Wen-qi CHEN: Morphological study on *Mixosaurus panxianensis* from the Middle Triassic of Guizhou, China

9:40-11:20, ACADEMIC SESSIONS II: THE EVOLUTION AND PALEOGEOGRAPHY OF TRIASSIC FISHES AND INVERTEBRATES

Moderator: Andrea Tintori, JIN Fan, SUN Yuan-lin,
LUO Yong-ming, HU Shi-xue

9:40-10:00, Wan-lu FU, George D.F. Wilson, Da-yong JIANG, Yuan-lin SUN, Wei-cheng HAO and Zuo-yu SUN: New taxon of Phreatoicidea (Crustacea, Isopoda) from Luoping Fauna (Middle Triassic) and Its Significance of Paleogeography

10:00-10:20, Tomaž Hitij, Andrea Tintori, Jure Žalohar, Silvio Renesto: New Fossil Sites with Triassic Vertebrate Fauna from the Kamnik-Savinja Alps, Slovenia

10:20-10:40, Hun-qin LIN, Zuo-yu SUN, Tintori Andrea, Wei-cheng HAO, Da-yong JIANG: New insights on *Habroichthys* Brough, 1939 (Actinopterygii: Habroichthyidae): the material from the Middle Triassic of Yunnan Province, South China

10:40-11:00, Wen WEN: A new Triassic Actinopterygian fishes from Luoping, Yunnan Province

11:00-11:20, Fei-xiang WU and Yuan-lin SUN: New saurichthyids (Actinopterygii, Saurichthyidae) from the Middle Triassic (Pelsonian, Anisian) of Southwest China

11:20-13:00, lunch, on site packet food

13:00-17:00, visit Paleozoological Museum of China, IVPP

17:00-18:30, Symposium Banquet

1.5 Post-symposium trip

The post-symposium field trip, will visit the fossil sites, excavation exposures, stratigraphic sections and field museums in Guanling County, Xingyi City, Panxian

County of Guizhou Province, Luoping County of Yunnan Province, and Chaohu City of Anhui Province.

During the stay in Guanling, from August 30 to September 1, we may attend the social activities of the symposium such as the forum on the development of Geological park, construction of field museum on site, fossil protection and exchange.

The preliminary schedule is as following:

- August 30: 6:00 am, take a university bus leave the Shaoyuan Hotel, to the Beijing airport;
Early morning flight from Beijing to Guiyang, tour bus to visit Huangguoshu Waterfall, arrive at Guanling in the evening.
- August 31: stratigraphic sequence from Lower Triassic Yongningzhen Formation, Middle Triassic Guanling Formation, Yangliujing Formation, and Middle/Upper Triassic Zhuganpo Member of Falang Formation, Upper Triassic Wayao Member of Falang Formation.
Visit the Guanling National Geological Park and field museum.
- September 1: attend the Guanling forum, and visit local village of minor nationality in the mountain.
- September 2: from Guanling to Xingyi (3 hours), visit the fossil site and *Keichousaurus* Museum at Dingxiao (Xingyi), and Malinghe gorge, arrive at Xingyi City in the evening.
- September 3: visit the fossil sites at Wusha of Xingyi, stratigraphic sequence of later Ladinian Zhuganpo Member of Falang Formation, and excavation exposure. Visit Wanfenglin (the famous karstland site).

- September 4: visit the fossil site at Yangjuan, Xinmin of Panxian, stratigraphic sequence of Anisian Guanling Formation, excavation exposures, return back to Xingyi City in the evening.
- September 5: visit the fossil site at Luoping of Yunnan Province, and excavation exposures, return back to Guiyang in the evening.
- September 6: take flight from Guiyang to Hefei of Anhui Province, then transfer to Chaohu City.
- September 7: visit the fossil site of *Chaohusaurus* at Chaohu, stratigraphic sequence of Lower Triassic Yinkeng Formation, Helongshan Formation Nanlinghu Formation, and the excavation exposure.
- September 8: end the trip and back to Beijing from Hefei.

2 Organization

2.1 Sponsors:

- School of Earth and Space Sciences, Peking University
- Key Laboratory of Evolutionary Systematics of Vertebrates, Chinese Academy of Sciences

Co-sponsors

- Palaeontological Society of China
- Department of Earth Science, National Natural Science Foundation of China
- Chengdu Centre of Chinese Geological Survey
- Office of Geological Environment, Department of Land and Resources, Guizhou Provincial Government
- Guanling County Government, Guizhou Province

2.2 Executive Unit:

- Geological Museum, and Department of Geology, Peking University

Co-executive units:

- Paleozoological Museum of China, IVPP
- Zhejiang Museum of Natural History

2.5 Hosts

(1) Honorary Chair:

- **CHANG Mee-mann**, Peking University and Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences

Co-chairs of Organization Committee:

- **PAN Mao**, Dean of SESS, Peking University
- **HAO Wei-cheng**, Director of Geological Museum, Peking University
- **ZHU Min**, Director of Key Laboratory of Evolutionary Systematics of Vertebrates, Chinese Academy of Sciences
- **Olivier RIEPPEL**, The Field Museum, Chicago, USA
- **Andrea TINTORI**, Milano University, Italy
- **Ryosuke MOTANI**, University of California (Davis), USA

(2) Members of Organization Committee:

WU Xiao-chun Canadian Museum of Nature, Ottawa, Canada

YANG Qun Nanjing Institute of Geology and Palaeontology, Chinese Academy of Science

YAO Jianxin Institute of Geology Chinese Academy of Geological Sciences

TONG Jinnan China University of Geosciences, Wuhan

WANG Yangeng Bureau of Geology and Mineral Exploration and Development of Guizhou Province

WANG Liting Bureau of Geology and Mineral Exploration and Development of Guizhou Province

LUO Yongming Bureau of Geology and Mineral Exploration and Development of Guizhou Province

ZHANG Qiyue Chengdu Centre of Chinese Geological Survey, Sichuan Province

ZHAO Lijun Zhejiang Museum of Natural History

WANG Yuan Paleozoological Museum of China, Institute of Vertebrate Paleontology and

Paleoanthropology, Chinese Academy of Sciences

LIU Jun Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences

LI Chun Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences

ZHANG Lifei School of Earth and Space Sciences, Peking University

WU Chaodong Office of Scientific Research, Peking University

BAI Zhiqiang Institute of Paleontology and Paleoenvironment, School of Earth and Space Sciences, Peking University

MA Xueping Institute of Paleontology and Paleoenvironment, School of Earth and Space Sciences, Peking University

SUN Yuanlin Institute of Paleontology and Paleoenvironment, Department of Geology and Geological Museum, School of Earth and Space Sciences, Peking University

LIU Jianbo Institute of Paleontology and Paleoenvironment, School of Earth and Space Sciences, Peking University

JIANG Da-yong Institute of Paleontology and Paleoenvironment, Department of Geology and Geological Museum, School of Earth and Space Sciences, Peking University

(3) **Secretary-General:** JIANG Da-yong, LI Chun

(4) **Offices of Committee**

● **Administrative Office:**

Member: Qin Jianghong, Yin Chao, Ma Letian, Sun Jicai, Li Meizheng
Zou Xiaodong, Lin Hunqin, Huang Jiwei, Chen Wenqi

Duty: registration on site, symposium materials, gifts, meeting-rooms organizing, accommodation and ground transportation

● **Academic Office:**

Member: Sun Zuoyu, Wu Feixiang, Ji Cheng, Yang Pengfei, Fu Wanlu

Duty: pre-registration, organization of presentations and thematic meetings, editing abstracts, arrangement of post-symposium trips, special issue of publication

3 **Travel Information in Beijing**

Peking University is the top university in China. The campus, known as "Yan Yuan" (the garden of Yan), is situated at Yiheyuan Street 5#, Haidian District in Beijing, near to the Yuanmingyuan Garden and the Summer Palace.

- **Transportation from Beijing Capital International Airport to Peking University:**

Shuttle Bus: The airport is linked to central Beijing by Airport Express buses from 8:30 am to 9:30 pm. Bus ticket price is RMB 16 and the two-way shuttle interval is about 30 minutes. Airport Express buses Route 5 has arrival terminal at Zhongguancun (the 4th bridge). Then walk 150m east, at Baofusi bridge west bus station, take bus route 696 or 498 after two stops and get off at Zhongguanyuan bus station, Peking University east gate arrival.

Taxi: It takes about 60 minutes by taxi to get to Peking University from airport. The taxi station is located just outside the airport terminal.

Subway: First take Subway Airport Line to Sanyuanqiao Station, transfer to Subway Line 10 and get off at Haidianhuangzhuang Station. Then transfer to Subway Line 4 and get off at the east gate arrival.

To get more information of the airport, go to the web site of Beijing Capital International Airport, <http://en.bcia.com.cn/index.shtml>.

The host will try to arrange to pick you up at the airport, if you require.

- **Hotels in the campus of Peking University:**

- ◆ Shaoyuan Hotel: near the west gate of the campus

Tel: +86-10-62752218, +86-10-62752200

Website: <http://162.105.113.240/index.aspx>

The host has made room pre-reservation for the attendees who prefer to stay in the Shaoyuan Hotel, and negotiated to get the best discount from the Hotel. For standard two-bed room, the basic fare is about 380 Yuan/per room (including breakfast).

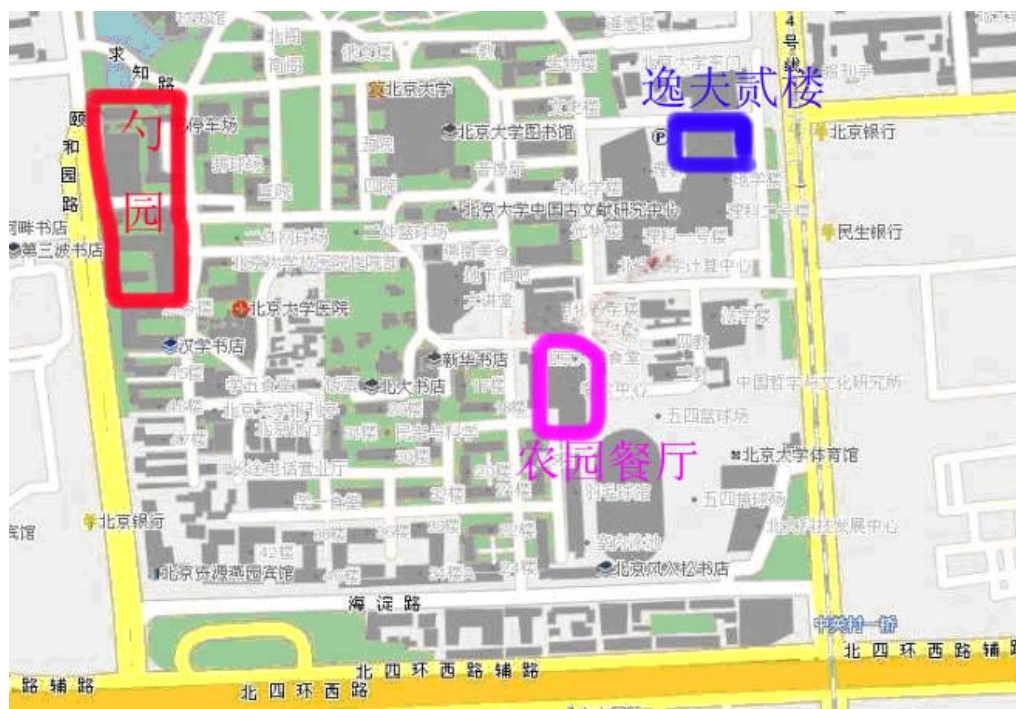
- ◆ Lake View Hotel :

Tel: +86-10-82689999

Website: http://www.thelakeviewhotel.com.cn/index_en.html

The standard room fare is expensive, around 1000 Yuan/per room. If you prefer to stay in this hotel, you may contact the hotel directly, OR the host may help you to make the

reservation if you ask before the 20th of July.



- **Weather in Beijing**

The climate in Beijing is of the continental type. The end of August is coming into the Autumn, the best season with good weather, not too hot with cool night. In autumn, jeans and a sweater are usually enough. Rain gear is necessary.

4 Fees of registration and post-symposium field trip

Registration fee will be ¥800 (RMB Yuan) for regular participants, ¥500 for students. The registration fee will cover the symposium documents, drinks and meals in the Campus refectory during the symposium in PKU.

The fee of the entire post-symposium field trip, including the inland flights (Beijing to Guiyang, Guiyang to Hefei, and Hefei to Beijing or your destination), hotels, tour bus and insurance, will basically be the charge of the attendees. The Guanling County Government promises to cover the accommodation and regional travel cost during the stay in Guanling area from August 30 to September 1. And the host will provide part of fund for the meals. In this case, we estimate the amount ¥9000 (RMB Yuan) for the field trip. The host will arrange the trip and accommodation for the attendees, who must pay for the trip when registration.

6 Important Dates:

Third Circular: July 1, 2010

Registration: August 27, 2010

Academic sessions: August 28 to 29, 2010

Post-symposium field trip: August 30 to September 8, 2010

Please regularly check the website for information update.