



2nd Asian Palaeontological Congress

— *Science in deep time in a new epoch* —

Second Circular



3rd – 7th August

2023 Tokyo, Japan

<http://www.apc2.org>



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MESSAGE

1 September, 2022

Time flies and we have less than a year to go before the 2nd Asian Palaeontological Congress (APC2) to be held from 3rd to 7th of August 2023 in Tokyo, Japan.

The effect of COVID 19 ebbs and flows, and different countries have different measures to cope with it. Although the pandemic is yet to be under control and we face challenges, in-person activities such as academic meetings have become increasingly common, while other events benefit from the use of various online tools introduced to us in the last few years. I believe we have demonstrated the adaptability of the people and society to the changing situations.

As announced in the 1st circular, APC2 will be held in-person but there will be one “online-day” where all participants can give/see online presentations. I hope you enjoy the meeting, regardless of the style you choose. Meanwhile, we keep a close eye on the changing situation. In case it turns out to be non-viable to operate in-person programs, APC2 will be held fully online; see “Switch to Online Operation” in this circular.

Looking forward to seeing many of you in Tokyo in 2023,

Tamaki SATO
Chair of the Japanese Organising Committee



CODE OF CONDUCT

It is expected that meeting attendees respect other people's rights regardless of gender, age, physical appearance etc. Harassments and abusive behaviors will not be tolerated, either in personal or electronic interactions.

Do not record/photograph presentation without the author's prior permission.

All attendees are required to comply with local and national COVID-19 guidelines. For the current border measures taken by Japanese government, see the Ministry of Foreign Affairs website, https://www.mofa.go.jp/ca/cp/page22e_000925.html.



INTERNATIONAL SCIENTIFIC COMMITTEE

Co-Chairs:

- Kazuyoshi ENDO University of Tokyo, Japan
Renbin ZHAN Nanjing Institute of Geology and Palaeontology, CAS, China

Members (listed alphabetically):

- Dany AZAR Lebanese University, Lebanon
Rinchen BARSBOLD Institute of Palaeontology, MAS, Mongolia
Tao DENG Institute of Vertebrate Palaeontology and
Palaeoanthropology, CAS, China
Hiroshi NISHI Fukui Prefectural University, Japan
Min HUH Korea Dinosaur Research Centre, Korea
Dong-Chan LEE Chungbuk National University, Korea
Makoto MANABE National Museum of Nature and Science, Japan
Kazuyoshi MORIYA Waseda University, Japan
Rei NAKASHIMA National Institute of Advanced Industrial Science and
Technology, Japan
Tatsuo OJI Nagoya University, Japan
Muhammad QASIM University of Peshawar, Pakistan
Tze Tshen LIM Geology Department, Universiti Malaya, Malaysia
Sergey ROZHNOV Palaeontological Institute, RAS, Russia
Tamaki SATO Kanagawa University, Japan
Khishigjav TSOGTBAATAR Institute of Palaeontology, MAS, Mongolia
Mongkol UDCHACHON Mahasarakham University, Thailand
Takao UBUKATA Kyoto University, Japan
Yongdong WANG Nanjing Institute of Geology and Palaeontology, CAS, China



JAPANESE ORGANISING COMMITTEE

Chair:

Tamaki SATO Kanagawa University

Vice-chairs:

Takao UBUKATA Kyoto University

Rei NAKASHIMA National Institute of Advanced Industrial Science and Technology

Secretary:

Kazuyoshi MORIYA Waseda University

Members (listed alphabetically):

Kazuyoshi ENDO University of Tokyo

Yoichi EZAKI Osaka Metropolitan University

Tatsuya HIRASAWA University of Tokyo

Rie S. HORI Ehime University

Yukio ISOZAKI University of Tokyo

Robert JENKINS Kanazawa University

Aya KUBOTA Chuo University

Azumi KUROYANAGI Tohoku University

Julien LEGRAND Shizuoka University

Makoto MANABE National Museum of Nature and Science, Tokyo

Atsushi MATSUOKA Niigata University

Hiroshi NISHI Fukui Prefectural University

Harufumi NISHIDA Chuo University

Tatsuo OJI Nagoya University

Megumi SAITO-KATO National Museum of Nature and Science, Tokyo

Shin-ichi SANO University of Toyama

Takenori SASAKI University of Tokyo

Noritoshi SUZUKI Tohoku University

Hideko TAKAYANAGI Tohoku University

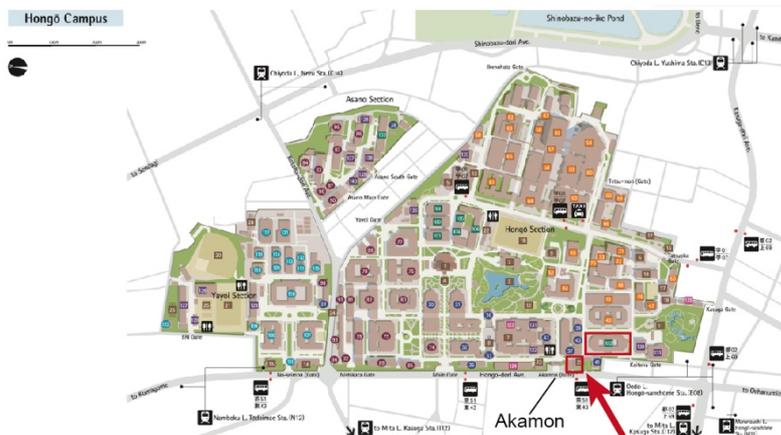
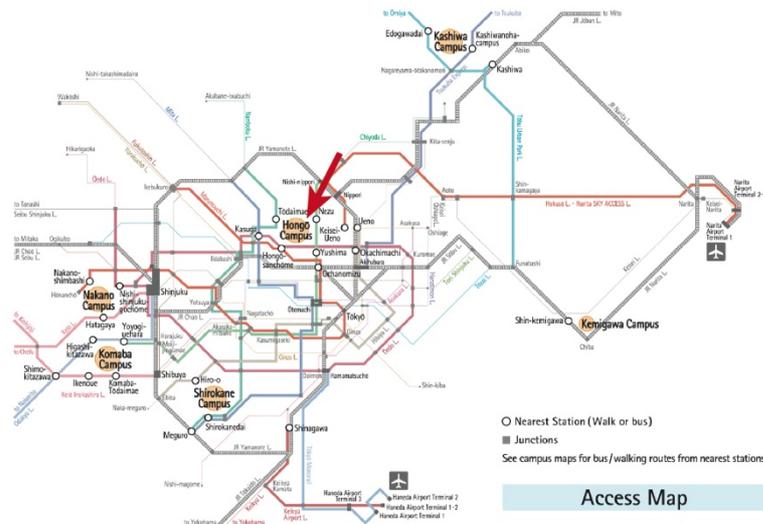
Takanobu TSUIHIJI National Museum of Nature and Science, Tokyo

Atsushi YABE National Museum of Nature and Science, Tokyo



VENUE

The venue for the on-site sessions will be the Hongo Campus of the University of Tokyo, the oldest national university in Japan. Most of what now constitutes the Hongo Campus was the official residence of the daimyo (magnate) family ruling the Kaga Domain during the Edo Period (1603-1868), leaving behind a number of interesting historical spots, such as Akamon (Red Gate; frontal cover photo). The Campus is about 1 hour and 2 hours from the Haneda International Airport and Narita International Airport, respectively.



ACCOMMODATION

Tokyo provides a wide variety of types of accommodation, from high-class to affordable options. Our service partner JTB Corporation can help you to choose one at their online reservation website "JAPANiCAN" (in English) and "Rurubu Travel" (in Japanese).

<https://www.japanican.com/?cid=1839015m>

<https://www.rurubu.travel/>

PRELIMINARY SCHEDULE

- 3rd, Thu: Registration, ice-breaker (on site)
- 4th, Fri: Welcome ceremony, oral sessions, posters (on site)
- 5th, Sat: Plenary symposium, oral sessions, posters (on site)
- 6th, Sun: Plenary symposium, oral sessions, posters (online),
APA business meeting, banquet (on site)
- 7th, Mon: Plenary symposium, oral sessions, posters, ceremony (on site)



TOPICS

The topics of the congress will include all aspects of palaeontology. Tentative themes of scientific sessions include the following:

- Early life, Cambrian explosion, and later macroevolutionary events

Yukio Isozaki (University of Tokyo), Renbin Zhan (Nanjing Institute of Geology and Palaeontology)

- Secular fluctuations in microbialite development throughout Earth's history

Yoichi Ezaki (Osaka Metropolitan University), Jianbo Liu (Peking University)

Microbialites are organo-sedimentary rocks with a long geologic record on Earth. Microbial activity is ubiquitous today and in the past, and has played a key role in the creation of Earth environments throughout geologic time. Through studies of microbialites, we can understand the long-term rise and fall of microorganisms, the nature of their environments, and their interrelationships. This session is relevant to microbial palaeontology, palaeoecology, palaeoenvironment, organo-mineralisation, sedimentology, mass extinction events, and other related topics. Reports on experimental approaches using living microorganisms are also welcome.

- Mesozoic and Paleozoic Oceanic Anoxic Events

Reishi Takashima (Tohoku University)

Oceanic Anoxic Events (OAEs) record pronounced change in the paleoceanography and marine ecosystems associated with global perturbation of carbon cycle. This session focuses on stratigraphic, paleoenvironmental and paleontological studies of the Oceanic Anoxic Events (OAEs) during the Paleozoic and Mesozoic periods. Studies of terrestrial ecosystems and climate change during the OAEs will also be included.

- Linkage of Cretaceous solid earth dynamics, greenhouse climate, and response of ecosystems on land and in the oceans in Asia (IGCP679 Joint Session)

Takashi Hasegawa (Kanazawa University), Gang Li (Nanjing Institute of Geology and Palaeontology)

This session is a collaborative session with IGCP 679. Discussion on linkage of Cretaceous ecosystems and paleoenvironments on land and in the oceans based on the paleontological, geochemical and other point of view is welcomed.

- Evolution of reptiles including birds

Soki Hattori (Fukui Prefectural University)

- Secondary aquatic adaptation of tetrapods

Yasuhisa Nakajima (Tokyo City University)



- Diversity of non-tetrapod vertebrates

Shinya Miyata (Josai University), Yoshitaka Yabumoto (Kitakyushu Museum of Natural History and Human History)

- Fossil record of mammals and their allies

Yuri Kimura (National Museum of Nature and Science)

- Diversification and evolution of vascular plants

Toshihiro Yamada (Osaka Metropolitan University), Yondong Wang? (Nanjing Institute of Geology and Palaeontology)

Fossils provide direct evidences on innovations in plant body plans, as well as on the background in which these innovations had been happened. We will discuss on them in this session. Related evo-devo papers are also welcomed.

- Mesozoic terrestrial biota in the realm of Angiosperm diversification

Harufumi Nishida (Chuo University), Ge Sun (College of Paleontology, Shenyang Normal University)

In this session, we will focus on the floristic changes during the Mesozoic including the rise of angiosperms. We will also welcome contributions on the Mesozoic terrestrial biota and environments which should have been influenced by floristic changes.

- Cenozoic floristic evolution in Asia

Atsushi Yabe (National Museum of Nature and Science), Tao Su (Xishuangbanna Tropical Botanical Garden)

Origin of floristic diversity in the Asian region has been greatly documented for the past decade based on Cenozoic paleobotanical studies in new and known fossil sites. We would like to discuss the latest knowledge on paleobotany, phytogeography and paleoclimate to synthesize our understandings on floristic evolution in the Cenozoic of Asia.

- Diversity change and evolutionary history of radiolarians

Noritoshi Suzuki (Tohoku University), Zhang Lanlan (South China Sea Institute of Oceanography, Chinese Academy of Science)

This session is ready for any topics on radiolarians and advanced studies mainly based on radiolarians. Oceanographic, paleoceanographic and geotectonic topics as well as new technologies like machine learning are much welcomed.

- Foraminiferal biology and paleontology for understanding life, environmental histories and biostratigraphy

Takashi Toyofuku (Japan Agency for Marine-Earth Science and Technology), Hiroki Hayashi (Shimane University), Hiroki Matsui (Akita University), Haruka Takagi (Chiba University), Akira Tsujimoto (Shimane University)



Foraminifera are important microfossils that have supported the development of the Earth Science as excellent index and facies fossils, as they change their distribution in response to the microenvironment and their occurrence are well documented. Especially in the Asian region, where population growth and industrial development are rapid, coastal environmental changes and the effects of land use changes on the ocean are important issues that must be monitored to make a safe marine environment, and foraminifera are excellent environmental indicator organisms. In this session, we would like to include in the scope the ecology and biology of foraminifera, as well as their applications as indicators of such geologic times and environments.

- Molecular palaeobiology and molecular evolution

Kazuyoshi Endo (University of Tokyo), Yanhong Pan (Nanjing University)

This session explores multifaceted aspects of molecular palaeontology and molecular phylogeny, including molecular fossils, biomineralization, molecular phylogeny of fossiliferous taxa, resurrection of ancestral genes, and (paleo-)evo/devo of multicellular organisms. Presentations on any topics related to this field will be welcome.

- Geochemical proxies discovering palaeoecology, palaeoenvironment, and their interactions

Kazuyoshi Moriya (Waseda University), Kotaro Shirai (University of Tokyo)

Geochemical proxies have helped to discover ecological interactions and “coevolution” between life on Earth and its environment. Recent advancement in analytical instrumentation have allowed us to disclose faint and/or hidden signatures of ecosystem preserved in fossils and rocks. Conventional techniques hitherto established can also be powerful tools when they are applied to unexamined taxa, physiological pathways, ecological aspects, and/or elements. This session focuses on any subject of geochemical proxies in palaeoecology, palaeoclimatology, and palaeoceanography. Topics on proxy and/or instrument development are also welcome.

- Tomographic techniques and computer-aided visualization in palaeontology

Soichiro Kawabe (Fukui Prefectural University)

- Analytical approaches for evolutionary morphology

Takao Ubukata (Kyoto University)

Numerical methods are of growing importance in morphological studies of fossils. The past several decades have seen the introduction and development of many analytical techniques aimed at addressing palaeontological questions related to morphological data. This symposium will focus on the practical aspects of morphological analysis and will cover a broad range of methodologies such as morphometrics, allometry, theoretical morphology, morphospace analysis, disparity analysis, analysis of evolutionary rates, phyllogenetic analysis, functional morphological analysis, and so on.

- Open sessions



FIELD TRIPS

There will be pre- and post-congress field trips and tours. Tentative plans are as follows:



Triassic cherty deposits in Inuyama



Ginkgo fossil from the Tetori Group
© Shiramine Inst. Palaeont., Hakusan City



Gigantic inoceramid bivalves from
the Yezo Group

Pre-congress trip

1. Permo-Triassic boundary and Triassic to Jurassic succession in pelagic setting in Inuyama, central Japan

Post-congress trip

2. Upper Mesozoic marine and non-marine deposits in Tetori area, northern Central Japan: A unique window into the Early Cretaceous terrestrial ecosystem in Asian eastern margin
3. Mid- to Upper Cretaceous Yezo Group in Hokkaido: Ammonites and other marine fossils

More information concerning the congress schedule and excursions will be included in the next circular.



REGISTRATION

Register online at www.APC2.org; the registration is scheduled to open in February, 2023.

	Early (by March 31, 2023)	Full (by July 15, 2023)	Last minute (after July 16, 2023)
Regular	30,000 JPY	40,000 JPY	50,000 JPY
Student	10,000 JPY	15,000 JPY	25,000 JPY
Virtual (Online-Day only)	5,000 JPY		15,000 JPY

ABSTRACT SUBMISSION

Abstract submission will start in February, 2023.

CANCELATION AND REFUND POLICY

Please note that all cancellations are subject to a cancellation fee.

Requests for refunds must be received via email to apc2@jtb.com by the dates indicated below. If you have any inquiries, please send email to: apc2@jtb.com

<By June 1st, 2023>

Regardless of the types of registration (early, full, student, online), you are eligible for a full refund minus cancellation fee.

<After June 1st, 2023>

There will be no refunds.

POSSIBLE SWITCHING TO A FULL ONLINE OPERATION

In case it is non-viable to operate in-person programs due to pandemic and/or other circumstances, APC2 will be held fully online. The Organizing Committee will make the decision by March 2023 and announce the change of registration fees and refund policy.





KEY DATES

*JST = Japan Standard Time, GMT +9:00

- **Opening of early registration:** Feb. 28, 2023, 0:00 JST
- **Opening of abstract submission:** Feb. 28, 2023, 0:00 JST
- **Deadline for early registration:** Mar. 31, 2023, 23:59 JST
- **Deadline for abstract submission:** Mar. 31, 2023, 23:59 JST
- **Opening of regular registration:** April 1, 2023, 0:00 JST
- **Deadline for regular registration:** July 31, 2023, 23:59 JST

CONTACT ADDRESS

If you have any inquiries, please send email to: apc2@jtb.com

