



17<sup>th</sup> International Meeting on Fossil and Living  
Radiolaria

September 22<sup>nd</sup>-26<sup>th</sup> 2025

*Auditorium Santa Apollonia, Florence, Italy*

*First Circular (updated)*



**Dipartimento  
di Geoscienze**

**REGIONE  
TOSCANA**



**The  
Micropalaeontological  
Society**



Dear Colleagues,

The Organizing Committee is pleased to invite you to the 17<sup>th</sup> InterRad meeting, held every three years, and convened by the International Association of Radiolarists (InterRad). InterRad promotes research on radiolarians of all aspects, including taxonomy, biostratigraphy, evolution, biology, ecology, palaeobiology, palaeoecology, palaeobiogeography and palaeoceanography.

The 17<sup>th</sup> InterRad meeting will be held in the "Auditorium Santa Apollonia" in the center of Florence (Italy), and will include three full days of scientific sessions. The pre-meeting excursion will be focused on various aspects of the Jurassic and Cretaceous succession of the Umbria-Marche Basin (Northern Apennines - Umbria region, Central Italy). The post-meeting excursion will be dedicated to illustrate the stratigraphy and the evolution of the Lagonegro Basin (Southern Apennines - Basilicata region, Southern Italy), while the mid-meeting excursion will elucidate the "Geology of Florence's historical heritage".

We are looking forward to seeing you in Florence.

Marco Chiari

*President of the InterRad*



*Cover: The venue of the meeting "Auditorium Santa Apollonia"*

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Dario FERRARI (University of Florence, Italy, *Sub-Secretary*)

## ***EXCURSION LEADERS***

Pre-conference excursion: Marco CHIARI (CNR-IGG, Italy), Peter O. BAUMGARTNER (University of Lausanne, Switzerland), Angela BERTINELLI (University of Perugia, Italy), Atsushi MATSUOKA (Niigata University, Japan), Francesco MINIATI (University of Bari, Italy)

Mid-conference excursion: Fabio FRATINI (CNR-ISPC, Italy), Rosalia LASTELLA (Le Vie Narranti, Italy)

Post-conference excursion: Manuel RIGO (University of Padua, Italy), Angela BERTINELLI (University of Perugia, Italy), Tetsuji ONOUE (Kyushu University, Japan), Honami SATO (Kyushu University, Japan), Giuseppe PALLADINO (Akkodis S.R.L., Italy), Giacomo PROSSER (University of Basilicata)

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Sophie WESTACOTT (University of Bristol, United Kingdom)

## *VENUE*

The meeting will be held in the “Auditorium Santa Apollonia” (via San Gallo, 25), in the center of Florence, near San Marco Square.

The Santa Apollonia complex is a former monastery in the historic center of Florence, and was founded in 1339. The former church has a single hall, with a colonnade supporting the nuns' choir. On the wooden ceiling, carved and gilded, stands a large coat of arms of the monastery. The presbytery has a quadrangular apse, where additional grates for the nuns open in the upper part, and it features frescoes by Bernardino Poccetti.





### ***DATES***

**10<sup>th</sup> April 2025** Registration and abstract submission can be made through the official website <http://www.interrad2025.com>

**10<sup>th</sup> June 2025** Deadline for registration and submission of Abstracts, as well as for payment of meeting fees and pre and post excursions

**31<sup>st</sup> July 2025** Abstract acceptance

**1<sup>st</sup> September 2025** Second circular with the detailed program announcement

### ***PROGRAM***

**19<sup>th</sup>-21<sup>st</sup> September** (Friday-Sunday), Pre-meeting excursion (3 days, 2 nights): Jurassic and Cretaceous of the Umbria Basin (Central Italy)

**22<sup>nd</sup> September** (Monday evening), Registration and Icebreaker Party at the “Auditorium Santa Apollonia”

**23<sup>rd</sup> September** (Tuesday morning and afternoon), Opening ceremony, Oral presentations, Poster Session, Paleozoic Working Group session



**24<sup>th</sup> September** (Wednesday), Oral presentations, Poster Session, Mesozoic Working Group session and Conference Dinner

**25<sup>th</sup> September** (Thursday morning or evening), Mid-meeting excursion: Geology of Florence historical heritage

**26<sup>th</sup> September** (Friday), Oral presentations, Poster Session, Cenozoic Group session, Business Meeting, Closing ceremony, Farewell Party at the “Auditorium Santa Apollonia”

**27<sup>th</sup>-30<sup>th</sup> September** (Saturday-Tuesday), Post-meeting excursion (4 days, 3 nights): Stratigraphy and evolution of the Lagonegro Basin (Basilicata region, Southern Italy).

### ***SCIENTIFIC SESSIONS, PRELIMINARY TITLES***

**S1** - Biostratigraphy and Taxonomy of Paleozoic Radiolarians

**S2** - Biostratigraphy and Taxonomy of Mesozoic Radiolarians - Special Session in memory of Patricia Whalen (February 28<sup>th</sup> 1942 - July 7<sup>th</sup> 2024) and Emile A. Pessagno (January 23<sup>rd</sup> 1933 - May 26<sup>th</sup> 2024)

**S3** - Biostratigraphy and Taxonomy of Cenozoic and Recent radiolarians

**S4** - Biology and ecology of radiolarians in modern and past oceans

**S5** - Paleoceanography and paleoclimate

**S6** - Radiolarian biochronology and paleobiogeography in geodynamic research

**S7** - Radiolarians and global change: insights from ecology, biodiversity and biogeochemistry




**S8** - The importance of radiolarians in supporting the establishment of GSSP

**S9** - Radiolarians and siliceous sedimentation

**S10** - ECR day (Early Career Radiolarist Day), Special Session dedicated to Master, PhD and Post-Doc researchers

**The number of symposia and their final titles may change based on the received abstracts.**

## **REGISTRATION FEES**

	<i>Early Registration until 10<sup>th</sup> June</i>	<i>Late Registration after 10<sup>th</sup> June</i>
Regular - Non-member InterRad fee	350 euros	450 euros
Regular - Active InterRad member fee*	300 euros	400 euros
Retired person fee	250 euros	350 euros
Student fee	200 euros	300 euros
Accompanying person fee	200 euros	300 euros
Conference Dinner**	50 euros	
Pre-meeting excursion***	530 euros	
Post-meeting excursion***	630 euros	

\*Active InterRad member = membership dues of \$45 USD were paid during 16<sup>th</sup> InterRad (2022). If you wish to check whether your membership is active, please contact the InterRad Treasurer, Paula Noble at [noblepj@unr.edu](mailto:noblepj@unr.edu)

\*\* Please indicate your dietary requirements and food allergies by contacting [info@interrad2025.com](mailto:info@interrad2025.com)

\*\*\* For further information or requests please send a message to the official email of the meeting ([info@interrad2025.com](mailto:info@interrad2025.com))

The registration fee includes coffee breaks, icebreaker and farewell parties, in addition to conference materials (backpack, T-shirt, notepad, pencil and pen with the meeting logo), the mid-meeting excursion the entrance ticket for the “Opificio delle Pietre Dure“ Museum and a yoga lesson (one hour).

Payment for the registration fees, excursions and conference dinner **will only be possible via bank transfer** to the bank account of **GRUPPO AVIS MINERALOGIA PALEONTOLOGIA SCANDICCI**. On-site, it will only be possible to pay the registration fees **by cash**.

**Please indicate in the payment clause your name used in the registration form and the phrase “LIBERAL PROVISION FOR INTERRAD2025 MEETING” .**

The bank transfer will **NOT BE ACCEPTED** if it does not include the phrase “**LIBERAL PROVISION**” in the payment clause

The “Gruppo Avis Mineralogia Paleontologia Scandicci” = GAMPS is a *non-profit organization*.

### ***CANCELLATION***

In the event of cancellation, 50% of the registration cost will be refunded, while no refunds are allowed for the cancellation of field trips.

### ***REGISTRATION AND ABSTRACT SUBMISSION***

Registration and abstract submission will be available through the website <http://www.interrad2025.com> by April 10<sup>th</sup>, 2025. Detailed instructions on abstract submission (length, font, etc) will be posted on the website. The duration of the talks will depend on the number of expected contributions and will be communicated after abstract acceptance. The official language of the meeting will be English.

### ***SPECIAL PRIZES***

During the business meeting, three meeting prizes will be awarded: Best Talk, Best Poster sponsored by InterRad2025 and Best Student Presentation sponsored by The Micropalaeontological Society.

### ***TRAVEL GRANTS***

The Organizing Committee and the International Association of Radiolarists (InterRad) can provide some travel grants to help members to attend and present at InterRad XVII.

Preference will be given to early career researchers and those with financial need presenting at the meeting. If you wish to be considered for a travel grant, please fill out the “Travel Grant Request Form” (download it on the website) and email it to the official email address ([info@interrad2025.com](mailto:info@interrad2025.com)) by the 10<sup>th</sup> of June, 2025. The applications will be evaluated by the Organizing Committee.

## ***CONFERENCE DINNER***

The conference dinner will take place on Thursday 25<sup>th</sup> September at the Cafaggi Restaurant (via Guelfa 35r), near San Marco Square.

## ***PROCEEDINGS***

### ***MARINE MICROPALAEONTOLOGY***

Guest Editor: Giuseppe Cortese

*Marine Micropaleontology* is an international journal publishing original, innovative and significant scientific papers in all fields related to marine microfossils, including ecology and paleoecology, biology and paleobiology, paleoceanography and paleoclimatology, environmental monitoring, taphonomy, evolution and molecular phylogeny. The journal strongly encourages the publication of articles in which marine microfossils and/or their chemical composition are used to solve fundamental geological, environmental and biological problems. However, it does not publish purely stratigraphic or taxonomic papers.

### ***OFIOLITI***

Guest Editors: Marco Chiari and Francesco Miniati

Since 1976, *Ofioliti* provides an international forum for original contributions and reviews in the field of geodynamics, petrology, geochemistry, biostratigraphy, stratigraphy, tectonics and paleogeography applied to ophiolitic terrains and modern oceanic lithosphere, including their sedimentary cover. Studies of topics such as geodynamics of the mantle, the evolution of orogens including ophiolites and paleoceanography are also welcome.

### ***REVUE DE MICROPALÉONTOLOGIE***

Guest Editor: Taniel Danelian

The journal *Revue de Micropaleontologie* publishes original articles with international interest concerning all fields of micropaleontology. The journal encourages the publication of articles in which data derived from microfossil assemblages coupled (or not) to the chemical composition of their walls are used to refine stratigraphical and paleoenvironmental issues along the geological time.

**The deadlines of the special issues will be announced in September during the meeting.**

## ***EXCURSIONS***

### **Pre-meeting excursion: Jurassic and Cretaceous of the Umbria Basin (Central Italy)**

Leaders: Marco CHIARI, Peter O. BAUMGARTNER, Angela BERTINELLI, Atsushi MATSUOKA, Francesco MINIATI

Cost: 530 Euros

The fee covers transportation, accommodation in double room with breakfast, lunch, dinner and field trip guidebook.

Date: 19<sup>th</sup>-21<sup>st</sup> September (3 days, 2 nights)

Participants: Maximum 40

The pre-meeting excursion, departing from Florence, will take place in central Italy with a visit to the Umbria-Marche Apennines, characterized by unique and fascinating stratigraphic successions. Near the town of Cagli, we will visit the Bosso section, a potential candidate for the Jurassic-Cretaceous (J/K) boundary, while in Gorgo a Cerbara, near the town of Piobbico, it will be possible to observe the organic-rich "Selli Level" (OAE1). In the Contessa Gorge, we will visit the classic site for another organic-rich level, the "Bonarelli Level" (OAE2). The last stops of the excursion will be in the Bottaccione Gorge, which represents one of the most complete Cretaceous to Paleogene pelagic successions and a global reference section for bio- and magnetostratigraphy. In this valley, we will observe the K-Pg boundary in the famous section where the iridium anomaly was first detected and the section where the GSSP for the base of the Campanian was recently established. This three-day field trip will allow the exploration of landscapes and the architectural heritage of the medieval town of Gubbio while savouring delicious wines and gastronomic meals.



Lithological succession around the Jurassic-Cretaceous boundary in the Bosso Valley section

**Mid-meeting excursion: *Geology of Florence historical heritage***

Leaders: Fabio FRATINI, Rosalia LASTELLA

Date: 25<sup>th</sup> September (two groups morning and evening)

Participants: Maximum 50 each group

Welcome to Florence, the cradle of the Renaissance, a city where art, history, and science intertwine in an urban fabric of extraordinary beauty. During InterRad2025, you will view a new face of Florence: a guided tour will take us through its main monuments, churches and palaces, with a particular focus on the building stones used and their geological and historical significance.

By the end of the tour, you will have acquired a new awareness of the architectural heritage of Florence, understanding its indissoluble link with the geology of the region. You will also have appreciated how the stones, with their millennial history, are silent witnesses of human creativity and ingenuity.



Cathedral of Santa Maria del Fiore

**Post-meeting excursion: *Stratigraphy and evolution of Lagonegro Basin (Basilicata region, Southern Italy)***

Leaders: Manuel RIGO, Angela BERTINELLI, Tetsuji ONOUE, Honami SATO, Giuseppe PALLADINO, Giacomo PROSSER

Cost: 630 Euros

The fee covers transportation, accommodation in double room with breakfast, lunch, dinner and field trip guidebook

Date: 27<sup>th</sup>-30<sup>th</sup> September (4 days, 3 nights)

Participants: Maximum 40

The post-meeting excursion, departing from Florence, will take us to southern Italy (Basilicata region) to explore outcrops within the Lagonegro Basin. The stratigraphic succession of the Lagonegro Basin ranges from the Middle Triassic to the Paleogene, with a particular focus on the Triassic and Jurassic periods. This excursion includes a visit to the terrigenous-carbonate succession of the Monte Facito Formation, dating from the Middle Triassic to Carnian, and the Carnian Pluvial Episode exposed at the Pignola 2 section. We will also visit the transition between the Calcari a Selce and Scisti Silicei

formations at the Sasso di Castalda and Pignola-Abriola sections, the latter being a candidate GSSP for the base of the Rhaetian. The excursion will conclude with a return trip to Florence.



Sasso di Castalda

### ***YOGA LESSON (YOGARADS)***

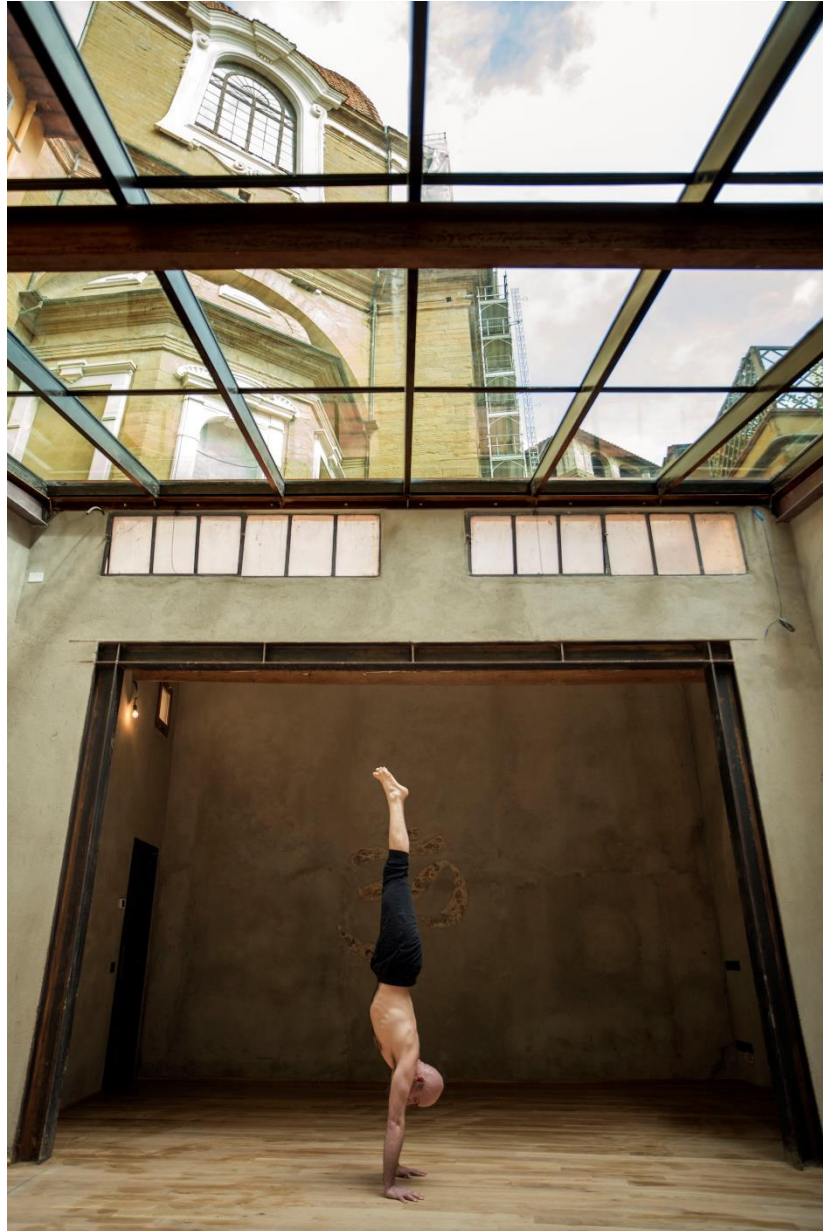
**Teacher** Francesca Chiari

**Date:** 25 September (one class in the morning and one in the afternoon)

Would you like to relax your body and mind after the first days of meeting? The class, in English and Italian, is adaptable for all skill levels and ages. Vinyasa is breath and movement, connect with yourself for yourself, gift yourself a energizing and relaxing trip.

Come practice with Francesca at the beautiful Yoga Garage school near the Cappelle Medicee in the center of Florence.





### ***“OPIFICIO DELLE PIETRE DURE” MUSEUM***

The Museum is annexed to the “Opificio delle Pietre Dure” (Via degli Alfani, 78). Today a modern center specializing in restoration, the latter represents a direct offshoot of the Court Manufactory, which was founded in 1588 by Ferdinando I de Medici, for the processing of semi-precious stones.

The structure of the Museum, founded in 1882, does not correspond to a precise collections plan, but is instead a reflection of the events that shaped its centuries-old production activity. The most prestigious creations, often presented as gifts by the Florentine Grand Dukes, are preserved in palaces and museums throughout Europe. The production workshops of the museum contain still unfinished works, some that are the result of subsequent modifications and dismantling, and those that survived

nineteenth-century dispersion. The latter ended in 1882 with the collection being turned into a museum. The collection, which includes specimens of great charm and refinement, is sufficient to outline the manufacturing history over three centuries. The museum also houses a large inventory of ancient marble and semi-precious stones.



Top table with parrot, flowers and military trophies, early seventeenth century  
(Medici's collection)

### ***HOW TO GET TO FLORENCE***

Downtown Florence can be easily reached from the Amerigo Vespucci airport (Florence airport) using a new city tramway (<https://www.gestramvia.it/?lang=en>). From the airport, it takes 25 minutes to reach Santa Maria Novella Station (the main railway station) and 35 minutes to reach San Marco Square. The airport is located only 5 km from downtown, making taxi an option as well. For more information, visit the airport website at: <http://www.aeroporto.firenze.it/en/>.

Downtown Florence can also be reached in one hour by bus shuttles and trains from Pisa airport (Galileo Galilei airport, about 80 km from Florence) or in around one hour by trains from Bologna airport (Guglielmo Marconi airport, about 100 km from Florence, <https://www.bologna-airport.it/en/welcome-to-bologna-airport/?idC=62175>).

Other international airports which allow connections to Florence by railway (ca. 3 hours), or domestic flights (less than an hour) are located in Roma (Fiumicino airport <https://www.adr.it/web/aeroporti-di-roma-en/>) and in Milano (Linate airport <https://www.milanolate-airport.com/en> and Malpensa airport <https://www.milanomalpensa-airport.com/en>), all of them about 300 km from Florence.

To check train schedules for Florence and make reservations: <https://www.trenitalia.com/en.htm> and <https://www.italotreno.com/en/booking-train-ticket>

### ***CLIMATE IN FLORENCE***

After the hot summer months of July and August, temperatures begin to cool down in September. During this month, temperature in the city is typically about 27°C during daytime, dropping to ca. 15°C during late evening.

### ***ACCOMMODATION***

Downtown Florence hosts many hotels, B&B and apartments. Due to high tourist numbers in September, we suggest booking your accommodation as soon as possible.

Useful websites: [www.booking.com](http://www.booking.com) and [www.expedia.com](http://www.expedia.com). If you have any doubts about your booking options, please send a message to the official email of the meeting.

### ***VISA INFORMATION***

Participants who need an invitation letter to obtain a visa to enter Italy, are kindly asked to send a message to the official email of the meeting ([info@interrad2025.com](mailto:info@interrad2025.com)).

### ***PERSONAL INSURANCE***

Organizers can't take responsibility for any accidents that might happen during the conference and the excursions. Participants are therefore advised to obtain their own travel insurance.

### ***REQUEST OF INFORMATION***

For further information/help about the meeting, please send your request to the official email of the meeting: **[info@interrad2025.com](mailto:info@interrad2025.com)**

***LOGOS OF THE MEETING***

Thanks to Mariella Chiari and Francesco Miniati for drawing the meeting logos.

