

XXI CONGRESS OF THE  
INTERNATIONAL UNION FOR QUATERNARY RESEARCH  
"TIME FOR CHANGE"



FIRST CIRCULAR AND CALL FOR SESSIONS

ORGANISED BY



SAPIENZA  
UNIVERSITÀ DI ROMA



INQUA



SCIENTIFIC PATRONAGE



Ministero della Transizione Ecologica



The Geological Surveys of Europe





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General distribution of this and subsequent circulars for the XXI INQUA Roma Congress will be via email. Please feel free to forward it to others who may be interested.

**The Second Circular is scheduled for electronic distribution in April 2022.**

### Congress and pandemic

Despite the fact that we are still dealing with the pandemic situation and many restrictions, we are optimistic about the future and about the possibility to organize in person the next INQUA Congress in summer 2023. In any case, thanks to the good weather we are expecting in Rome and the facilities of the Sapienza University Campus, we plan to have as many activities as possible in open spaces outdoors. However, **if the situation is intermediate** (to read which is unlikely in summer, but we have to foresee this possibility) we are not planning a hybrid format but we will adopt a number of measures to protect congress participants for instance: 1) set up a test centre at the Congress venue; 2) adopt *ad-hoc* measures during the meeting such as mask wearing, hand disinfection, lunch bag and dispersed seating for meals, specific strategies to avoid queues; 3) organize the oral sessions with a limited number of participants in the room, even duplicating the screen between two or more adjacent lecture rooms. Only **if the situation is very bad** and travel abroad becomes impossible due to formal rules or restrictions issued by Italy or by the originating country, we plan to fully reimburse all the expenses for registration, including bank transfer costs.

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## LETTER OF INVITATION OF THE PRESIDENT OF INQUA



Dear colleagues,

It is an honour for me, President of INQUA, to invite you to attend the INQUA Congress that will take place in Rome in July 2023. The INQUA Congress that generally takes place every 4 years is, by far the most important event for our Union. INQUA was nominally founded almost 100 years ago, in 1928 at a geological conference in Denmark. Several meetings followed including the IV INQUA Congress in Italy in 1953. More recent meetings were in 2003 (Reno, USA), 2007 (Cairns, Australia), 2011 (Bern, Switzerland), 2015 (Nagoya, Japan) and 2019 (Dublin, Ireland).

The International Council (IC) of INQUA decided at the Dublin Congress that the XXI INQUA Congress will take place in Rome; a decision that acknowledge the importance of the region and the role Italian Quaternary scientists play in the international debate. By awarding the Italian bid, the IC also acknowledge the fact that Italian scientists played an active role within INQUA. During the past decades, Italy was well represented at different levels of the INQUA organisation.

The organisers of the INQUA Rome 2023 Congress offer a very ambitious programme around the theme **“Time for Change”** emphasizing the critical role of Quaternary sciences in contributing the knowledge we need to face current societal and climate challenges. **“Time for Change”** characterises also INQUA’s current phase. The changing world and the pandemic in particular, have a major impact on INQUA’s core objectives, i.e., to promote improved communication and international collaboration in experimental and applied aspects of Quaternary research. It is time to improve our communication with the Quaternary scientific community by launching a monthly INQUA Newsletter, to improve our service to the Quaternary research community by increasing the number of funding categories and by simplifying the funding application procedure, to mention some of the changes. In order to support the INQUA Executive in making the changes, a secretary has been employed by January 15, 2022.

The organisers of the INQUA Roma 2023 Congress not only offer a Congress with an attractive and inspiring scientific program, they organise the meeting in a unique venue; at the campus of the Sapienza University of Rome an architectural masterpiece, in the centre of Rome.

I am convinced that the participants of XXI INQUA Roma 2023 Congress will go home inspired, with many new ideas, increased knowledge and with an indelible memory of the Congress and its venue.

Professor **Thijs van Kolfschoten**  
INQUA President

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## LETTER OF INVITATION OF THE RECTOR OF SAPIENZA, UNIVERSITY OF ROME

Dear participants at the XXI INQUA Congress,

As Rector of Sapienza University of Rome, I am pleased to welcome you to our main campus in summer 2023.

We are an innovative and comprehensive research University built on a long-standing teaching tradition. Founded in 1303, Sapienza is the largest University in Europe with more than 100,000 students and 3,359 academics organized in 11 Faculties, 58 Departments and 18 Museums; during its 700 years of history, Sapienza has always promoted cultural events, with a particular focus on scientific conferences and meetings.

We are very proud to be hosting such an important Congress about Quaternary Research. Although representing a small percentage of the Earth's history, the Quaternary Period is unique among the divisions of geological eras in that it includes the present day. Thus, the events of this short time interval are important to society, as our genus appeared during the Quaternary, and significant and abrupt climate changes have shaped its evolution.

Quaternary sediments, glaciers, landforms contain most of the proxies about past climate changes and catastrophes relevant to us. As scientists, we know that the geological past, which most people consider remote, directly links with present-day life. With a long-term perspective, you are studying the processes that created and characterized the present-day environment, landscape, and climate. Only your geological perspective may allow you to discriminate between trends and cycles, frame the high-tech environmental observations within the proper time scale, and understand the relationship between the different factors controlling the environmental changes we are experiencing. As Quaternary researchers, you are at the forefront of the scientific community to provide information to the public and policymakers. The 17 UN Sustainable Development Goals are guidelines for the future, and Quaternary research should serve as a key instrument in transforming more innovative and more sustainable societies. Sapienza University is deeply involved in this process and is proud to be hosting your Congress.

I warmly invite you to our campus, and I hope to see you at the opening ceremony in 2023.

Professor **Antonella Polimeni**

Rector of Sapienza University of Rome



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## LETTER OF INVITATION FROM THE PRESIDENT AND SECRETARY-GENERAL OF THE XXI INQUA CONGRESS

Dear Colleagues

It is our pleasure to invite you to Rome for the XXI INQUA Congress from 13 - 20 July 2023. We strongly believe that in-person conferences provide unique opportunities for networking and collaboration; therefore, despite the uncertainty linked to the circumstances related to the future pandemic in summer 2023, in agreement with INQUA officials, we are planning an in-person meeting with a full scientific program, including plenary talks, session keynotes, symposia, courses, and abstracts. The scientific programme has therefore been planned as in-person presentations only. However, we do reserve the possibility to cancel the Congress or part of it (fieldtrips, for instance) if the situation requires it (see refund policy for details).

We want to take this occasion to rekindle the pioneering spirit of the 4th INQUA Congress, held in 1953 in Rome and Pisa. The 2023 venue will be the Sapienza University main Campus (conveniently located in the east of Rome, close to main train and subway stations) in order to present our research in a friendly university environment with reduced registration fees. Moreover, in 2023 we will join celebrations with special events commemorating the 720th year since the foundation of Sapienza University and the 150th anniversary of the Italian Geological Survey.

The theme of our congress is **“Time for Change”** to emphasize the critical role of Quaternary sciences in contributing the knowledge we need to face current societal and climate challenges. In fact, the understanding of the global changes cannot be achieved without the scientific knowledge of how Earth has changed during the recent geological past. As such, it is very appropriate to convene the international Quaternary community in Italy; the Mediterranean region is so geologically young and active, it is the ideal location to discuss the process and events that shaped the landscape, environments and ecosystems over the last 2.58 million years.

From the glacial systems in the Alps to the desert facing the southern shore, from the large coastal plains and deltas to the rocky coasts where the mountain ranges reach the sea, from the karst to the lacustrine to the volcanic environments, numerous Quaternary features are present in the region. From early humans in Durban, the view from the Alps in Bern, the geohazard in Nagoya, and the life on the edge in Dublin, in Rome we will have the opportunity to deepen discussions about all these subjects together, and to discuss their mutual interactions at a Quaternary scale. For instance: did the climatic/eustatic changes in palaeogeography and palaeoenvironment influence the early humans' dispersal and the Neolithic revolution from east-to-west or from south-to-north? How did changes in tectonic activity, climate and eustasy (and in some cases massive volcanic inputs) interact in determining the stratal architecture of high-order depositional sequences? Are the long-lasting historical archives the clue to fill the gap between the instrumental data and the geological record in defining climate, seismic, volcanic cyclicity and/or evolution? These are just examples that will be dealt during fieldtrips and scientific sessions in Rome/Italy/ Mediterranean region in 2023.

The Congress is being organised by Sapienza University, the National Research Council and the Italian Association for Quaternary Research, with the support of the whole Italian and Mediterranean Quaternary scientific community for the organisation of fieldtrips in the region.

The organizing committee is enthusiastically working to make the Congress a notable experience and many outreach and national scientific initiatives are rising around it, the main one being the **METIQ** (evolutionary model of Italy during Quaternary), aimed at producing a 1:500.000 map of the Quaternary deposits in Italy that will be presented at the Congress.

The Local Organising Committee and the Quaternary Community of Italy and the Mediterranean invite you to attend the XXI INQUA Congress and extend the famous Italian hospitality to all Quaternary scientists globally.

Professor **Francesco Latino Chiocci**, President XXI INQUA Congress  
Dr. **Ilaria Mazzini**, Secretary-General XXI INQUA Congress

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*Val d'Orcia Quaternary hillslope, Tuscany, Unesco World Heritage*



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# ORGANISING COMMITTEES

## Local Organising Committee

**Chairperson** Francesco Latino Chiocci (Sapienza University)

**Vice Chairperson** Laura Sadori (Sapienza University)

**Secretary General** Ilaria Mazzini (CNR-IGAG)

**Field Excursions Committee** Emanuela Falcucci (INGV) and Alessandro Maria Michetti (Insubria University)

**Finance Committee** Vincenzo Pascucci (Sassari University)

**Fellowships Committee** Laura Sadori (Sapienza University) and Andrea Zerboni (Milano Statale University)

## Local Committee Members

*Logistics* Alessia Masi and Daniele Casalbore (Sapienza University)

*Website and Apps* Luca Guerrieri and Anna Maria Blumetti (ISPRA)

*Social Media* Kathleen Nicoll (University of Utah) and Guido Stefano Mariani (Cagliari University)

*Patronage* Luca Guerrieri (ISPRA)

*Sponsors and Expo* Fabrizio Lirer (Sapienza University) and Paolo Mozzi (Padova University)

*Relations with Local Institutions* Raffaele Sardella (Sapienza University) and Martina Pierdomenico (CNR-IAS)

*Social Programme* Federico Di Rita and Daniele Spatola (Sapienza University)

*Early Career Researchers* Maria Francesca Ferrario (Insubria University)

*Workshops and Short Courses* Pierluigi Pieruccini (Torino University)

*Outreach* Ilaria Mazzini and Laura Sanna (CNR-IGAG), Annalisa Iadanza (CNR-DSSTTA) and Valerio Ruscito (ISPRA)

*Other members:* Adele Bertini, Alessandra Smedile, Alessandro Vanzetti, Anna Maria Mercuri, Assunta Florenzano, Cecilia Conati, Donatella Magri, Enza Elena Spinapolice, Fabrizio Antonioli, Francesca Bozzano, Giorgio Manzi, Giovanni Zanchetta, Letizia Di Bella, Mary Anne Tafuri, Matteo Vacchi, Mauro Coltorti, Paolo Carafa, Piero Lionello, Roberta Pini.

## INQUA Executive committee

*President* Thijs van Kolschoten

*Secretary General* Enikő Magyar

*Treasurer* Freek Busschers

*Vice Presidents* Zhengtang Guo, Laura Sadori and Lynne Quick

*Past President* Allan Ashworth

*ECR Chair* Nivedita Mehrotra

*Secretary* Aritina Haliuc



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MARINE





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## SCIENTIFIC COMMITTEES

### Scientific Programme Committee

**Chairs:** Alessandro Maria Michetti (Insubria University), Giovanni Monegato (CNR-IGG) and Sandro Rossato (Padova University)

#### Commissions Presidents and Italian Representatives

*CMP-Coastal and Marine Processes*

Sarah Woodroffe (Durham University, UK), Matteo Vacchi (Pisa University, IT)

*HABCOM-Humans and Biosphere*

Anupama Krishnamurthy (Institute Francais de Pondichery, IN), Anna Maria Mercuri (Modena University, IT)

*PALCOM-Palaeoclimates*

Tom Johnson (University of Massachusetts Amherst, US), Lucilla Capotondi (CNR-ISMAR, IT)

*SACCOM-Stratigraphy and Chronology*

Lewis Owen (North Carolina State University, US), Adele Bertini (Firenze University, IT)

*TERPRO-Terrestrial Processes, Deposits and History*

James Mc Calpin (Geo-Haz consulting, Colorado US), Franz Livio (Insubria University, IT)

### Italian Honorary Scientific Committee

Francesco Carraro, Maria Bianca Cita, Mauro Cremaschi, Daniela Esu, Carlo Giraudi, Odoardo Girotti, Giuseppe Orombelli, Maria Rita Palombo, Leonello Serva, Giovambattista Vai

### INQUA Honorary Scientific Committee

Nat Rutter (Canada), John J. Clague (Canada) Allan Chivas (Australia), Margaret Avery (South Africa)

### Scientific Advisory Committee

Abderrezak Djerrab (Algeria), Amel Chakroun (Tunisia), Amit Mushkin (Israel), Asfawossen Asrat (Botswana/Ethiopia), Daniela Kröhling (Argentina), Franck Audemard (Venezuela), Frank Preusser (Germany), Zhengtang Guo (China), Giancarlo Scardia (Brazil), Gilles Lericolais (France), Goran Durn (Croatia), Guzel A. Danukalova (Russia), Ioannis Papanikolaou (Greece), Jin Cheul Kim (South Korea), José Sebastian Carrion (Spain), Jürgen M. Reitner (Austria), Katerina Kouli (Greece), Kristine Asch (Germany), Kyoung-nam Jo (South Korea), Larbi Boudad (Morocco), Ljerka Marjanac (Croatia), Lynda Petherick (New Zealand), Marc Luetscher (Switzerland), Maria Fernanda Sanchez-Goñi (France), María Magdalena Velázquez Bucio (Mexico), Marie-France Loutre (Switzerland), Sokol Marku (Albania), Mehmet Akif Sarıkaya (Turkey), Miloš Bavec (Slovenia), Neil Glasser (UK), Ollivier Vincent (France), Pablo Silva Barroso (Spain), Peter Coxon (Ireland), Petra Jamšek Rupnik (Slovenia), Philip Hughes (UK), Russell Drysdale (Australia), Stefanie Wirth (Switzerland), Takashi Azuma (Japan), Vandana Prasad (India), Yoshi Saito (Japan), Fawzi Doumaz (Italy).



*Stromboli volcano, Sicily*

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## IMPORTANT DEADLINES

<b>31 March 2022</b>	<b>Session proposals deadline</b>
<b>30 April 2022</b>	<b>Second Circular: abstract submissions open</b>
<b>1 November 2022</b>	Deadline abstract submission and financial support request, Early Bird registration opens
<b>9 January 2023</b>	Formal notification of acceptance for abstract and financial support
<b>20 February 2023</b>	Early Bird registration closes Field trip registration closes Regular Registration opens
<b>20 March 2023</b>	Deadline for presenting author registration (to be included in or be deleted from the final programme)
<b>15 June 2023</b>	<b>Third Circular: final programme</b>
<b>10 July 2023</b>	Regular registration closes
<b>13 July 2023</b>	Late registration opens

## OVERALL STRUCTURE OF THE XXI INQUA CONGRESS

<b>Pre-Congress Field Trips</b>	Friday 7 July to Thursday 13 July 2023
<b>Onsite registration opens, Exhibition setup, some business meetings</b>	Thursday 13 July 2023
<b>Icebreaker party</b>	Thursday evening, 13 July 2023
<b>Opening Ceremony and First Session</b>	Friday 14 July 2023
<b>Scientific Programme</b>	Friday 14 July to Thursday 20 July 2023
<b>Mid-Congress Field Trips</b>	Sunday 16 July 2023
<b>Congress Dinner</b>	Tuesday 18 July 2023
<b>General Assembly and Closing Ceremony</b>	Thursday 20 July 2023
<b>Post Congress Field Trips</b>	Thursday 20 July to Tuesday 25 July 2023

## REGISTRATION AND REFUND POLICY

Congress registration fees are reported hereafter; they will be confirmed in the second circular, to be issued on 30 April 2022.

Early Registration	450 €
Regular Registration	580 €
Late Registration	750 €
Student Early Registration	180 €
Student Regular Registration	220 €
Student Late Registration	300 €
One-day Registration	350 €

Registration fees will cover lunches, morning and afternoon refreshments, the icebreaker party and congress materials including a congress programme and abstracts (on pendrive). We are planning to provide the programme and abstracts on a Congress app, which will be downloadable for tablets and smartphones and will allow users to compile their own personalised programme.

Early registration will be available until 20 February 2023, after which the regular registration fees will apply. On-site registration will be possible at higher rate (late registration).

Please note that due to the unknown pandemic condition in summer 2023, we reserve the possibility to cancel the Congress or part of it (fieldtrips, for instance). In case of cancellation the full registration fees that have been transferred will be reimbursed. This would be the only reason the refund applies.

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# SCIENTIFIC THEMES

The following Themes and Subthemes have been identified. Call for session refer to them (see later). If you have any queries regarding the Scientific themes, please contact: [scientific.programme@inquaroma2023.org](mailto:scientific.programme@inquaroma2023.org)

## **1. From Natural Processes to Geohazards**

- a) Earthquakes, palaeo-earthquakes and seismic hazard
- b) Active volcanoes
- c) Tsunami and marine geohazard
- d) Active tectonics as multi-scalar driving processes
- e) Short to long-term environmental changes (flooding, landslides, desertification, tectonics), and societal response

## **2. Landforms, facies architecture and sequence stratigraphy**

- a) Geomorphic processes and sedimentary record
- b) Glacial and periglacial geomorphology
- c) Wetlands and paralic environments
- d) Coastline changes under the effects of climate and geological processes
- e) Geomorphology and stratal architecture of continental margins
- f) Karst process, deposits, landforms, and landscape

## **3. Quaternary environments and Human evolution: fossil record, phylogeny, palaeobiology, palaeoecology and cultural models**

- a) Geological and climate forcing on ancient societies and feedbacks
- b) Geoarchaeology: from landscape to site and back
- c) Preserving and disseminating the cultural heritage
- d) Palaeoanthropology

## **4. Ecosystems and biogeography from latest Pliocene to “Anthropocene”**

- a) Response of biota to palaeoenvironmental changes
- b) Islands, continental bridges and drowned landscapes
- c) Palaeoecology as a tool for ecosystem management
- d) Human environment in the (palaeo-) Anthropocene

## **5. Climate record, processes and models**

- a) Climate proxies
- b) Palaeogeographic, palaeoclimatic, palaeoceanographic and palaeoecological changes in marine and terrestrial systems
- c) Past global climate records in polar and mountain ice
- d) Reconstruct past abrupt and extreme climate changes
- e) Climate changes on sub-millennial to Milankovitch time scale
- f) Climate modelling and data assimilation: simulate past changes and future scenarios
- g) Global, regional and local sea-level changes and drivers

## **6. The Quaternary time machine**

- a) Marine and terrestrial stratigraphy. Advances in correlation
- b) GSSPs and stratotypes
- c) Geochronology: Advances in dating techniques
- d) Quaternary Mapping and modelling

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## CONTRIBUTION TO THE SCIENTIFIC PROGRAMME

The programme will be based on submitted session proposals in the framework of the scientific themes. We invite everyone to submit proposals for sessions!

### CALL FOR SESSIONS

Sessions should fall under one of the themes identified in the previous page and focus on current and emerging issues on Quaternary Sciences. Sessions devoted to exploring the contribution of Quaternary research to different societal challenges (e.g. palaeoclimate, environmental changes, human impact, geohazards and geo-resources) are welcome.

Session proposals should include a clear and concise session title (max 150 characters including spaces) and descriptions (max 1,500 characters, including spaces). A simplified description for non-specialist (to be used for outreach) is also requested (max 1,000 characters including spaces). Sessions will have a minimum 7 oral presentations plus posters; among them a session keynote presentation (double time allowed) that will be selected by the session conveners.

Session proposals must be submitted on-line by **March 31, 2022**. Each submission will be reviewed by the organizing and scientific committees that will select the sessions for the abstract call in the second circular. By mid-December 2022, the conveners of the selected sessions will receive a status report with information about the submissions for a specific session. The organizing committee reserves the possibility to cancel or merge sessions if the number of abstracts is insufficient. The final decisions regarding the sessions that will be held at the Congress will be announced by mid-December 2022, and the overall session programme will be finalized by March 2023.

#### **Proposal of Session for XXI INQUA Rome 2023**

**Proposers should send a document with the following details by email to the address [scientific.programme@inquaroma2023.org](mailto:scientific.programme@inquaroma2023.org)**

Lead convener: name, affiliation and e-mail address
Co-conveners: name(s), affiliation and e-mail addresses
Session title (max 150 characters, including spaces):
Running title (10 words or less)
Session description (Max 1500 characters including spaces)
Relevant INQUA Commission (CMP, PALCOMM, HABCOM, SACCOM, TERPRO): 1- Principal Commission 2- Secondary Commission (Optional)
Keywords (max 5)
Belonging to the Scientific theme #, #
Outreach session description for non-specialist (max 1000 characters including spaces)

### CALL FOR WORKSHOPS and SHORT COURSES

A range of expert workshops or short courses for students, ECRs or any interested researchers, will be available for free or at an additional cost if organizers require. Information will be made available through the Congress website as it becomes available; the workshop, short courses and field trip list will be published in the third circular/final programme. If you wish to deliver a workshop, or suggest a topic, please follow the instruction here after.

#### **Workshops**

Workshops should be seen as oral sessions held in lecture rooms, open to the discussion of data, models, concepts regarding a specific Quaternary issue, i.e., International Workgroups, Projects, Commissions, proposals preparation and so on. Workshops may take up to 8 hours (1 day) and should be held pre-, post- or mid- Congress (that is on Sunday, the free-day in the middle of the Congress).

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### Information required

If interested to propose a Workshop, please provide the following information.

<b>Name, affiliation and e-mail</b> address of the convener(s)
<b>Title</b> (max 150 characters, including spaces):
<b>Topic</b>
<b>Timing (pre/post/mid- Congress)</b>
<b>Duration</b> (min 2 hours, max 8 hours)
<b>Requirements:</b> Please present <b>how you plan to conduct the workshop</b> . Indicate the requirements of the lecture room (i.e., Lighting/Sound/AV/Any other tech required, space requirements and any other additional information.). The Congress venue technical capabilities will be limited, so please be as self-contained as possible. Please, specify which elements you will bring by yourself and which elements should be provided by the Congress Organizers.
<b>Description:</b> Brief description of the workshop issue, its main goals and how it fits with Quaternary science. Please, provide if there are specific requirements for participants' skills
<b>Participants</b> maximum and minimum number of participants
<b>Costs/Fee:</b> Organizing Committee cannot provide any financial support for Workshops. Specify if Participant Fees are required and their amount.
<b>Relevant INQUA commission</b>

Please, send your manifestation of interest to [pierluigi.pieruccini@unito.it](mailto:pierluigi.pieruccini@unito.it) **by the end of March 2022**.

### Short Courses

Short Courses should be regarded as max 1 day of practical and interactive session focused on methods, tools, instruments and analytical methods provided by specialists, private or public Companies or Agencies etc. Short Courses may take up to 8 hours (1 day) and should be held pre-, post- or mid- Congress. In the last case, Short Courses will be organized on Sunday, the free-day in the middle of the Congress.

### Information required

If interested to propose a Short Course, please provide the following information. They are needed to plan the location and the logistic for the event

<b>Name, affiliation and e-mail</b> address of the convener(s)
<b>Title</b> (max 150 characters, including spaces):
<b>Topic</b>
<b>Timing (pre/post/sin- congress)</b>
<b>Duration</b> (min 2 hours, max 8 hours)
<b>Location:</b> Specify if the Short Course will be indoor or outdoor (i.e., in the field), if planned with visit to Labs or within location out of the Congress venue.
<b>Description:</b> Brief description of the workshop issue, its main goals and how it fits with Quaternary science (max 3000 characters, including spaces). Please, provide if there are specific requirements for participants' skills
<b>Participants</b> maximum and minimum number of participants
<b>Costs/Fee:</b> Organizing Committee cannot provide any financial support for Workshops. Specify if Participant Fees are required and their amount.
<b>Technical Requirements:</b> Please present your ideas for the Short Course and how you plan to conduct it. Requirements and physical environment in case the Short Courses will be within or outside of the Congress venue (i.e., Lighting/Sound/AV/Any other tech required, space requirements and any other additional information such as potential health and safety hazards, ethical issues etc.). The congress venue technical capabilities will be limited, so please be as self-contained as possible. Please, specify which elements you will bring by yourself and which elements should be provided by the Congress Organizers.
<b>Relevant INQUA commission</b>

Please, send your manifestation of interest to [pierluigi.pieruccini@unito.it](mailto:pierluigi.pieruccini@unito.it) **by the end of March 2022**.

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## CONGRESS PARTICIPATION

All members of the global Quaternary community are welcome to participate in the INQUA Congress and are cordially invited to attend. The INQUA monthly newsletter, the INQUA Roma 2023 (<http://www.inquaroma2023.org>) website and our social media platforms will keep you informed about the Congress.

All delegates are required to register online and pay the appropriate Congress registration fee, which is compulsory for having their oral or poster presentation included in the final program.

## VISA REQUIREMENTS

The entry formalities and vaccination requirements for Italy vary according to the country of origin.

The website of the Italian Ministry of Foreign Affairs contains information about visa requirements and can be accessed [here](https://vistoperitalia.esteri.it/home/en#BMQuestionario) (<https://vistoperitalia.esteri.it/home/en#BMQuestionario>).

It is the delegate's responsibility to investigate the visa requirements for Italy and to apply for a visa, if necessary. The Organizing Committee will inform the Italian embassies that the congress is happening and that researchers may apply for visa to participate in the congress.

Generally, visas should be requested **at least 4 months before departure** as the application process can take several weeks. Please consult the Italian embassies in your home country for further details.

### Letter of Invitation

The congress organisers will be pleased to send a formal letter of invitation to delegates requesting an invitation letter for visa or to help potential delegates to raise funds. This letter is not a commitment from the organisers to provide any financial support. Letters of invitation may be requested to the congress secretariat. The letters will be sent via email.

## FELLOWSHIPS

The XXI INQUA Roma2023 Organizing Committee is working hard to support attendance at the Congress by delegates from low-income countries with a special programme providing financial support through INQUA and Congress sponsors.

It will be necessary for those wishing to be considered for support to complete the application process and agree to present a paper or poster during the XXI INQUA. Individuals who do not wish to present papers or posters are not eligible for the fellowship program. It is anticipated that the application process for individuals asking for support will be announced in the Second Circular, planned for April 2022.

## SOCIAL MEDIA

We will be using social media platforms to keep you informed and feeling connected to INQUA both before the Congress, during the meeting, and beyond!

On Twitter, Facebook and Instagram, please use the hashtag **#INQUARoma2023**.

Check for our accounts and follow us online to stay current with all the latest developments, plans and deadlines. We will be posting updates and reminders – and we look forward to connecting with you and meeting you in Rome!

## OUTREACH

One of the aims of INQUA Roma 2023 is to increase public awareness of the scientific work of the Quaternary scientific community and to facilitate dissemination of information beyond our community.

The INQUA Roma 2023 webinar series **“All road leads to Rome 2023”** has already started and you can find more information on our social media and website.

We are planning several outreach activities which will involve schools, university students but also the general public. We are also open to proposals by research groups that involve artistic activities (i.e., small plays, photographic exhibitions, competitions) for the dissemination of their work.

If you are interested in proposing outreach activities, contact [valerio.ruscito@ispra.it](mailto:valerio.ruscito@ispra.it) by **March 31, 2022**.

## FIELD TRIPS

A diverse array of Field Trips is being organised for delegates and accompanying persons. Field Trips will be held in Italy and in some other Mediterranean Countries. Field Trips will run both prior to and after the XXI INQUA Congress. Please consider that we will be in full tourist season especially after the Congress so that the number of pre-Congress fieldtrips is greater than post-Congress. There will also be various one-day mid-congress trips on Sunday 16 July, both in Rome and its surroundings.

Details of the Field Trips being planned are available on the website. Their costs will be detailed in the second circular to be issued in April 2022. The deadline for fieldtrip registration will be available on February 2023. The cancellation policy due to possible Covid restriction will be the same as that of the Congress registration (full reimbursement if due to travelling limitation).

### PRE-CONGRESS FIELDTRIPS



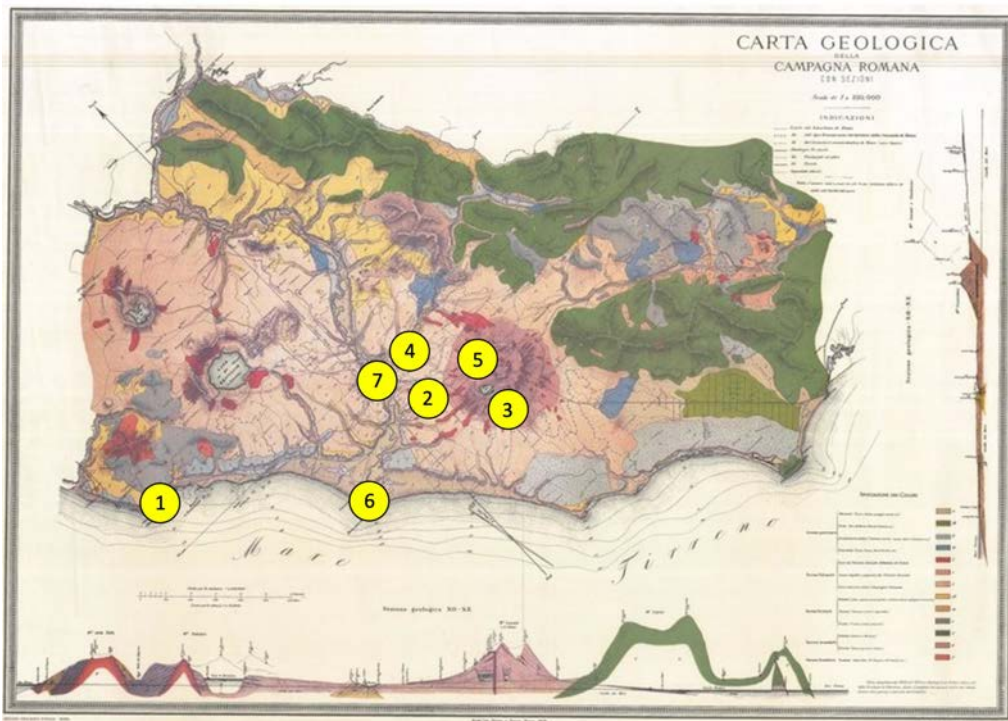
- 1) Late Pleistocene-Holocene uplift and active tectonics at the southern margin of the Central Anatolian Plateau (Southern Turkey). **Cosentino et al.**
- 2) Late Quaternary landscapes and palaeoenvironments through the Mediterranean and the Alps. **Ollivier et al.**
- 3) Pleistocene slope, shallow-marine and continental deposits of eastern central Italy wedge-top basin: a record of sea-level changes and mountain building. **Celma et al.**
- 4) Life with geohazard at the contact of the Alps, the Dinarides and the Pannonian Basin. **Jamšek Rupnik et al.**
- 5) Palaeolithic Cave deposits and Karst evolution in the Venetian Pre-Alps. **Peresani and Sauro**
- 6) Large landslides, climate changes and human impact in the Italian Dolomites since the Lateglacial. **Soldati et al.**
- 7) The Bradanic Trough: stratigraphic response to subsidence, shortening and uplift of the Quaternary south-Appennine's foreland-basin. **Tropeano et al.**
- 8) LGM and Lateglacial at the southern end of the Alps (Maritime Alps). **Ribolini et al.**
- 9) Decoding Upper Pleistocene in Sardinia (Western Mediterranean). **Orru et al.**
- 10) Palaeogeographical evolution of the Egadi Islands (western Sicily, Italy). Implications for Late Pleistocene and Early Holocene sea-crossings by humans and other mammals. **Antonioli et al.**
- 11) Active Tectonics, Earthquake Geology, Palaeoenvironment and Quaternary sequences: A transverse along the Corinth Gulf Rift to Zakynthos Island. **Papanikolaou et al.**
- 12) Santorini island (Greece): four days in a volcano. **Nomikou et al.**
- 13) Quaternary glacialism of the Aosta Valley: a transept from the Ivrea end moraine system to the Monte Bianco Massif. **Gianotti et al.**
- 14) A tour through volcanology and archaeology at the Neapolitan volcanoes. **Petrosino et al.**
- 15) Geology, Geomorphology in active zones, Archaeology in active zones. **Doumaz et al.**
- 16) MIS 5, Relative Sea-level, U/Th dating, Cave stratigraphy, Archaeology. **Isola et al.**
- 17) Palaeosols across the N. Apennines: insights into the Late Quaternary dynamics of an active orogen. **Andretta et al.**
- 18) The Lower Pleistocene of Ionian Calabria (Southern Italy) and the Vrica GSSP. **Capraro and Maiorano**
- 19) The Middle Pleistocene to Early Holocene of southern Apulia (southern Italy). **Sardella et al.**

## POST-CONGRESS FILELTRIPS

- 1) Active tectonics and major seismicity in Central Italy. **Gori et al.**
- 2) When tectonics and climate take over: Quaternary depositional history of extensional Tuscan basins. **Bertini et al.**
- 3) Glacial history of Croatian Dinarides. **Ljerka Marjanac et al.**
- 4) LGM glacial and glaciofluvial environments in a tectonically active area (southeastern Alps). **Monegato et al.**
- 5) The Quaternary evolution of Sulmona basin, central Italy. **Giaccio et al.**
- 6) Drainage system adjustment in response to the opening of the Rieti intermontane basin. **Fubelli et al.**
- 7) Quaternary archives in the Northeastern Adriatic karst environments. **Furlani et al.**
- 8) Holocene marine and lake landscapes of Dalmati- the National Parks Krka and Kornati. **Slobodan et al.**
- 9) Messinian/Zanclean, Zanclean/Piacenzian and Piacenzian/Gelasian GSSPs in Sicily. **Caruso et al.**



## MID-CONGRESS FIELDTRIPS



1875 Geological Map of the Rome region after P. Mantovani. The map is made of mainly Quaternary deposits: Pleistocene volcanoes (pink to reddish), eolianites (gray), coastal marshland (light green), travertine (blue), Holocene Tiber River delta

- 1) Late Holocene sea-level changes and the Roman fish tanks (Civitavecchia). **Enei et al.**
- 2) The INGV National earthquake center. **Stramondo et al.**
- 3) The secrets of the Albano crater lake. **Anzidei et al.**
- 4) Archaeoseismological evidence of past earthquakes in Rome. **Galadini et al.**
- 5) Volcanology of Roma. **Palladino et al.**
- 6) Late Holocene evolution of the Tiber River delta plain. **Mazzini et al.**
- 7) Rome before Rome: a river among two volcanoes. **Pantaloni et al.**



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## CONGRESS VENUE

Sapienza University of Rome is an ancient (700 years) Institution and the largest in Europe; the main campus (Città Universitaria) is an architectural masterpiece of the rationalist style. It is located in central Rome, a few hundred metres from main railway station where shuttle trains and buses from international airports arrive. Countless hotels and tourist facilities are present nearby, as well as along the subway lines, at walking distance from the campus. Within the wall encircling the main campus we have 25 seminar rooms with 100-400 seats each available for the Congress, plus open spaces to relax and have informal discussions, bars, a post office, a bank, a police station and a kindergarten. Many smaller seminar rooms will be available for group meetings.

Free Wi-Fi access will be available in the University campus.

Website: <https://www.uniroma1.it/en>

Physical Address: Piazzale Aldo Moro 5 00185 - Roma, Italy. GPS Co-ordinates: 41.9038° N, 12.5144° E

## SPONSORSHIP AND EXPO

With the expectation to attract more than 3,000 scientific experts in the specializations of geology, palaeoclimatology, natural risks, marine and continental ecosystems, human evolution, environmental changes and other related fields, the INQUA XXI Congress 2023 represents a unique opportunity to expand promotion, attract talented future employees and engage with future collaborators.

Sponsors and exhibitors are invited to participate in the Congress and will receive headline status on all Congress marketing materials, all press releases and media coverage, and promotion at the time of the event. All sponsors and exhibitors will be acknowledged on the Congress website, in promotional materials and onsite at the Congress venue. We will support our sponsors to ensure they receive maximum return on their investment and receive the exposure to which we agree.

INQUA Rome 2023 offers different sponsorship levels. For further information contact [fabrizio.lirer@uniroma1.it](mailto:fabrizio.lirer@uniroma1.it)

## REDUCING THE ENVIRONMENTAL IMPACT OF THE XXI INQUA CONGRESS

Recent years have seen a growing focus on sustainability, recycling and ecology.

Sapienza University has joined the Network of Universities for Sustainable Development and is aiming to reduce the use of disposable plastic objects. Plastic bottles and cups have been banned at the speakers' tables during conferences in Sapienza since 2019.

While organising the XXI INQUA Roma 2023, we are also focusing on sustainability. Firstly, because we want to take responsibility for the Society, we are part of, and secondly because we can save resources by thinking in different ways than we are used to. We will keep you informed about all the initiatives and we welcome your input to reduce the environmental impact of INQUA Roma 2023.



*Alban Hill Quaternary volcano in the background*

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## DESTINATION: ROME, ITALY

Enjoy the opportunity of INQUA 2023 to discover Rome and Italy - our diverse country is overflowing with rich traditions, delicious food, culture and abundant history. Italy is a country of 20 regions, each of them proudly distinct, offering their own unique culinary, architectural, art, history, fashion, sightseeing, and cultural scenes. Please note that summer is Italy's high season. The coastal towns and sandy beaches attract both international tourists and Italians who want to escape the heat. Thus, we suggest you to organise your travel and book your accommodation well in advance.

## TRAVELLING TO ROME

### By plane

**Fiumicino Airport** – IATA code –FCO is Rome's main international airport 30 km from city centre.

Rome is easy to reach from anywhere in Europe with a maximum of one stopover. Direct flights are also available from many major European hubs. Once you arrive in Rome, the Conference venue is about 35 min by car from FCO. FCO can be easily reached by taxi or with two different trains. The Leonardo express is the non-stop train service that connects Roma Termini station and Roma Fiumicino airport in just 32 minutes, with programmed departures every 15 minutes (every 30 minutes during certain time periods). The FL1 regional line trains from/to other Rome stations have programmed departures every 15 minutes on working days and every 30 minutes on weekends and holidays.

**Ciampino Airport** (IATA code –CIA) – 15 km from city centre.

CIA is mostly served by low-cost airlines. It can be easily reached by taxi. The Conference venue is about 40 min by car from CIA. A bus shuttle service takes passengers to the closest train station, where you can catch a train to Roma Termini Station. Slightly more convenient is the direct shuttle bus from the airport to the city centre.

### By train

High speed trains connect Rome with every major Italian city and many European hubs. Rome's main railway station, Roma Termini Station, is located 15 minutes walking distance from the Sapienza University of Rome. The station handles trains from Italy's neighbouring countries, but current travel restrictions may heavily impact train services from abroad. Purchase your tickets as early as possible to get the best deal and book a high-speed train whenever possible. If you have a ticket for a regional train, make sure you validate it before boarding.

### By Car

Rome is accessible by E45 / E80 roads from the north and E45 from the east. You can also arrange to hire a car from Fiumicino or Ciampino International Airports before you arrive.

In Italy, one drives on the right-hand side of the road, and the cars (automatic and manual gearbox) – rental cars included – are left-hand drive vehicles. All distances, speed limits (and speedometers) are in kilometres. The law requires wearing of seat belts and using hand-held phones while driving is against the law.

If you plan to travel to Rome by car, please note that Sapienza University will not provide parking for private vehicles during the event. Parking spaces in the city centre are scarce and can be expensive.

### By Coach

Long-distance national and international buses use Autostazione Tiburtina. It is linked with the city centre by metro line B.



*Fiumicino Airport, built on the Holocene Tiber River delta*



# XXI INQUA CONGRESS

"TIME FOR CHANGE"