

## **2 Post - When tectonics and climate take over: Quaternary depositional history of extensional Tuscan basins** (It refers to INQUA Commissions: PALCOMM and TERPRO)

**Excursion Leaders:** **A. Bertini** (Univ. Florence), **A. Brogi** (Univ. Bari), **E. Capezzuoli** (Univ. Florence)

Proposed Excursion Dates: 21.07.-23.07.2023

Draft Itinerary: Rome - Siena - Florence

Definitive cost per head: € 400

Accommodation arrangements: Hotel

### **Proposer Contact Details:**

#### **Adele Bertini**

Institution and Address: Department of Earth Sciences – University of Florence. Via La Pira, 4 50121 Florence

Phone: 3488715460 Email: [adele.bertini@unifi.it](mailto:adele.bertini@unifi.it)

**Fieldguides:** The Pre- (A) and Post-(C) Congress excursions will include field-guides. (Guides can be produced for Mid-congress fieldtrips too if organisers wish). The field-guides will be published in <https://www.socgeol.it/316/geological-field-trips-maps.html>The investigation of the tectono-sedimentary history of extensional basins and of their infill is a key-study to understand role in providing and maintaining the sinks into which sediments can be delivered due to the complex interaction among eustatism, climate and tectonics. During Quaternary, due to their location in the internal portion of the Northern Apennines, extensional Tuscan Basins have recorded thick



Travertine at Bagni San Filippo (Siena)

sequences of continental sedimentation that has been strongly controlled by tectonic, volcanism and climatic processes. In this view such Basins are able to illustrate a detailed record of Quaternary climatic changes and tectonic leading significant changes of such portion of the Apennine Mountain range. Spectacular examples of this interaction during the last 3 Ma will be illustrated in different depositional systems (fluvio-lacustrine - Valdarno Basin; volcanic - Mt. Amiata Volcano; travertines - Rapolano Terme and Bagni San Filippo). All the field trip is nestled in the historical and scenic view of the Tuscan landscape.