

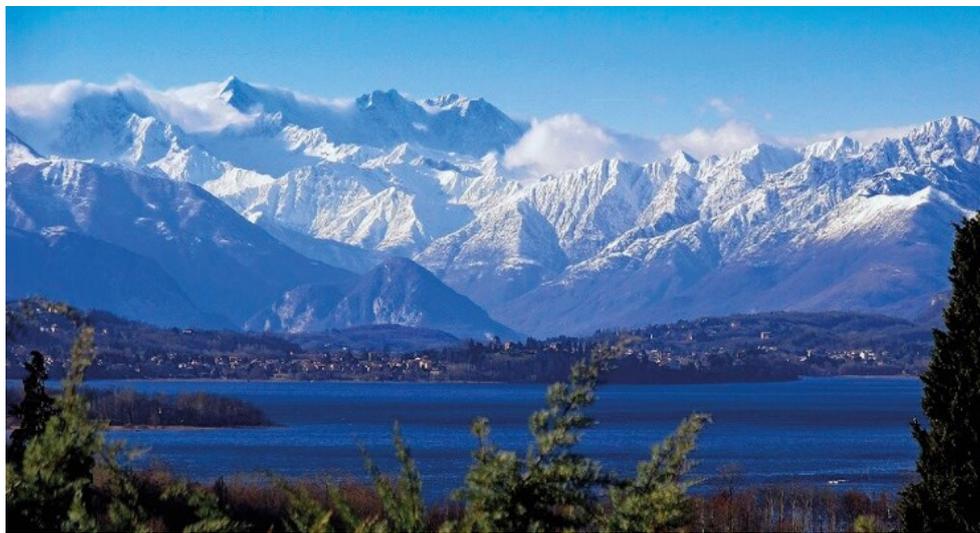


**International Commission on the  
History of Geological Sciences  
Italian Society for  
the History of Sciences**

**44<sup>th</sup> INHIGEO SYMPOSIUM**

**Varese - Como (Italy), 2 - 12 September 2019**

**Third Circular**





Università degli Studi  
dell'Insubria



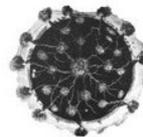
*Fondazione Visconti di San Vito Onlus*



**CAVE BONOMI**  
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International Union of History and Philosophy of Science and Technology  
**IUHPST/DHST**  
Division of History of Science and Technology



The History of  
Earth Sciences  
Society



COMUNE DI  
**VARESE**



## **ORGANIZATION**

Italian Society for the History of Science (SISS)  
in collaboration with  
Center for the History of the Mountains, Material Culture and Earth Sciences (CHMCES),  
Department of Theoretical and Applied Sciences, University of Insubria, Varese  
Transnational Association Official Guides of Monte San Giorgio  
Visconti di San Vito Foundation, Somma Lombardo  
Institute of Geosciences and Earth Resources (IGG) - Turin unit

## **SPONSORS**

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Amici della Terra - Friends of the Earth, Varese  
Fondazione Comunitaria del Varesotto  
Secondo Mona SpA, Somma Lombardo

## **PARTNERSHIP**

Comune di Varese  
Comune di Como  
Comune di Induno Olona  
Comune di Somma Lombardo  
Italian Geological Society  
The History of Earth Sciences Society (HESS)  
ISPRA - Italian Institute for Environmental Protection and Research  
Club Alpino Italiano (CAI) - Sezione di Varese  
Grignolo - miniere ricerca geologia turismo srl  
Società Operaia Mutuo Soccorso (SOMS), Viggiù

## **ORGANIZING AND SCIENTIFIC COMMITTEE**

**Ezio Vaccari**, *chair*

President of the Italian Society for the History of Science - SISS  
Director of the Center for the History of the Mountains, Material Culture and Earth Sciences -  
CHMCES, Department of Theoretical and Applied Sciences, University of Insubria;

**Libera P. Arena**

CHMCES, University of Insubria, Varese

**Andrea Candela**

CHMCES, University of Insubria, Varese

**Carlo Dossi**

Department of Theoretical and Applied Sciences, University of Insubria, Varese

**Maria Faccioli**

CHMCES, University of Insubria, Varese

**Francesca Gambino**

Department of Earth Sciences, University of Turin

**Pietro Mosca**

Institute of Geosciences and Earth Resources, National Research Council, Turin

**Alessandro Michetti**

Department of Science and High Technology, University of Insubria, Como

**Marco Pantaloni**

ISPRA, Department of Geological Survey of Italy, Rome

**Donatella Reggiori**

Transnational Association Official Guides of Monte San Giorgio, Meride

**Silvio Renesto**

Department of Theoretical and Applied Sciences, University of Insubria, Varese

**Luigina Vezzoli**

Institute of Geosciences and Earth Resources, National Research Council, Pisa

with collaboration from **Fabiana Console** (ISPRA Library, Rome / Italian Geological Society) and

**Franz Livio** (Department of Science and High Technology, University of Insubria, Como)

## WELCOME TO INHIGEO 2019 IN ITALY !

The Organizing Committee of the 44th INHIGEO Symposium is looking forward to welcoming you to Varese and Como, the two main cities of the University of Insubria, in an area of North-Western Lombardy also known as the Italian 'lake district', located within the mountains and the attractive scenery of the Prealps bordering Switzerland.

The Insubric region includes the northern territories of Varese, Como, Lecco and Verbania, with their landscapes of lakes, small rivers, woods and mountains. This geographical area of great cultural interest and scientific value, for its respective geological and naturalistic features represents a unique reality both in Italy and in Europe, already defined in the nineteenth century the "paradise of geologists".

The Symposium is organized by the *Center for the History of the Mountains, Material Culture and Earth Sciences* (CHMCES) of the University of Insubria in Varese, in conjunction with the *Italian Society for the History of Science* (SISS) and with the collaboration of the *Visconti di San Vito Foundation*, the *Transnational Association of Official Guides of Monte San Giorgio*, the Turin unit of the *Institute of Geoscience and Earth Resources* (National Research Council of Italy).

The scientific sessions will be held at the University of Insubria in Varese and Como and a final session, honouring the legacy of Nicoletta Morello within the history of the geological sciences, will take place at the Visconti di San Vito medieval castle in Somma Lombardo.

### CONFERENCE THEMES

- History of the Earth sciences in mountain environments
- History of communication in the geological sciences.
- General contributions on the history of geology

The *Program and Book of Abstracts* and the *Field Trip Guidebook* will be given to the participants as part of the conference material.

## CONFERENCE VENUES

### Salone Estense - Varese City Hall

via Sacco 5, Varese

The **Welcoming Reception** will take place in the *Salone Estense*, in the City Hall of Varese. The *Palazzo Estense* was built between 1766 and 1771 by the Duke of Modena Francesco III d'Este who, having obtained the Seigniorship of Varese from Maria Theresa of Austria, moved his court here. The building and the garden, inspired by the Viennese Imperial residence in Schönbrunn and designed by the architect Giuseppe Bianchi, were completed in 1787.



**Registration will be available on September 2nd, from 17.00 to 19.00 at the Salone Estense.** Early registration is recommended, so if you wish you can visit the garden *Giardini Estensi* (open daylight hours only).

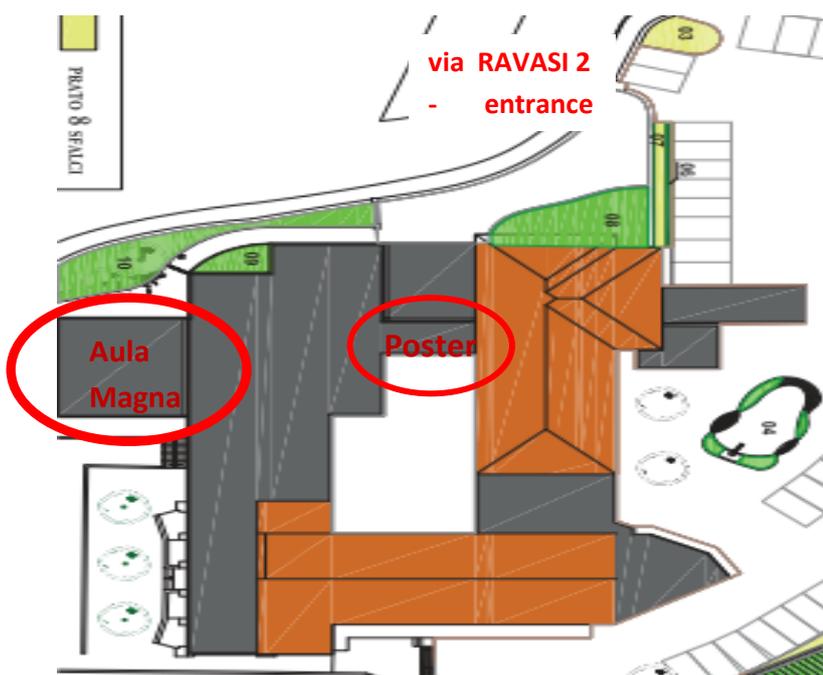




## University of Insubria

via Ravasi 2, Varese

The **Scientific Sessions of the first two days** of the Symposium will take place in the **Aula Magna (Great Hall)** of the University of Insubria, in the building known as Collegio Sant'Ambrogio, which is also the seat of the Rectorate and is located in Varese city center, near Piazza Repubblica. The **Poster Session** will also take place in this building.



The *Aula Magna* is on the ground floor of the University building (on the right-hand side of the main entrance).

The **Coffee Breaks** and the **Poster Session** will take place on the first floor, near the Rectorate.

## Villa Mirabello

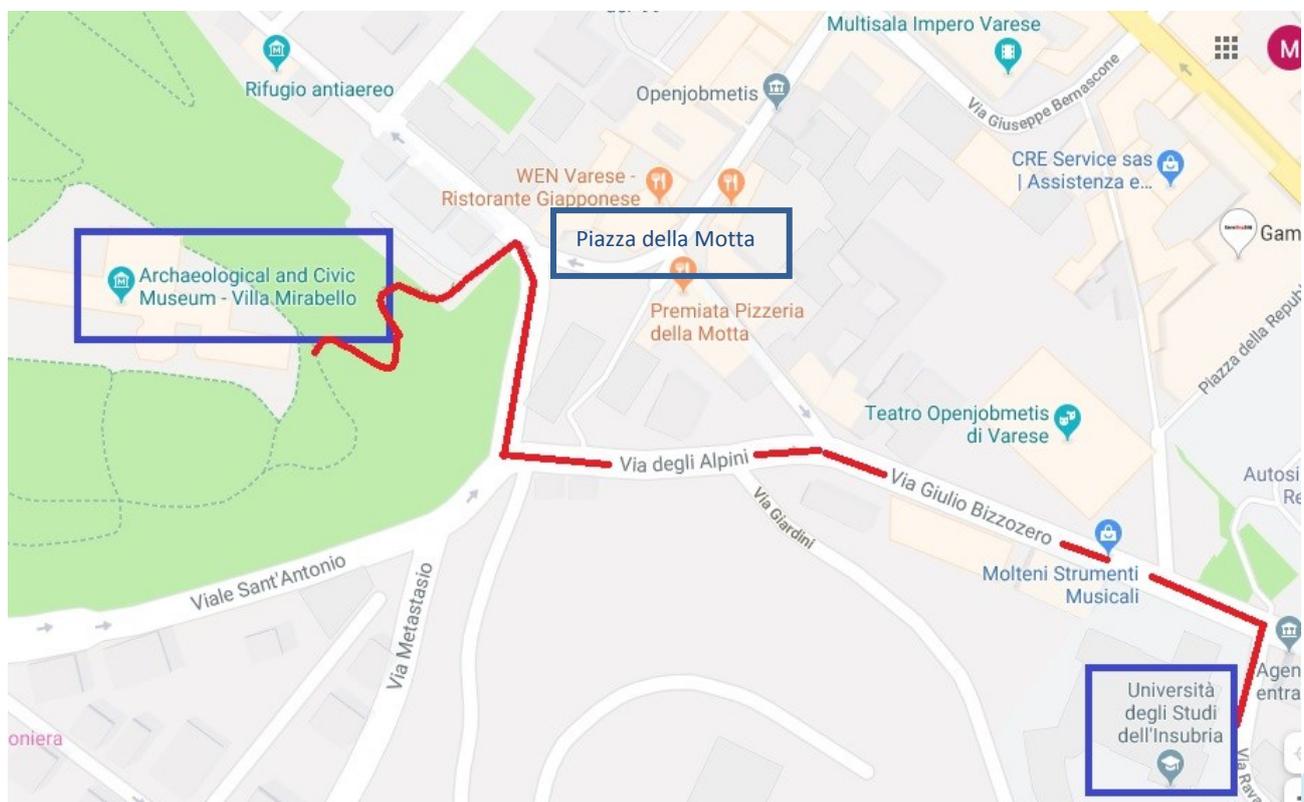
Piazza della Motta 4, Varese

**Lunch on the first two days** of the meeting will be served in the *Salone del Risorgimento* of Villa Mirabello. The Villa, built in the 18th century, was owned by Count Gaetano Stampa of Soncino, then the Taccioli family and later the Litta Modignani family. In 1843, the Villa was renovated and a beautiful English style garden was added. Vestiges of the 18th-century construction include the Oratory of Beata Vergine Addolorata, designed by architect Giuseppe Veratti from Varese in 1767. The Villa is currently the location of the Archaeological and Civic Museum of Varese, which houses a complete prehistoric collection from the local area, originating from several pile-dwelling settlements from the Neolithic period to the Bronze Age.



**A guided tour to the exhibition on the painter Renato Guttuso**, one of the most interesting artists and intellectuals of the Italian twentieth century, will be offered to the participants after lunch.

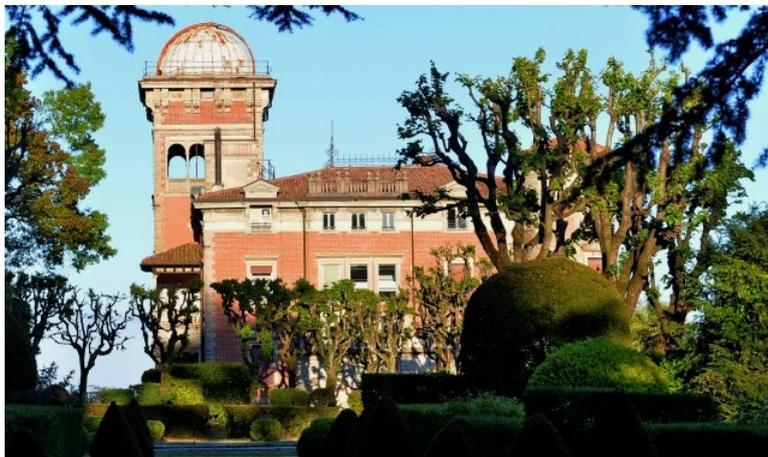
**Villa Mirabello is located 10 minutes walk from the University of Insubria**



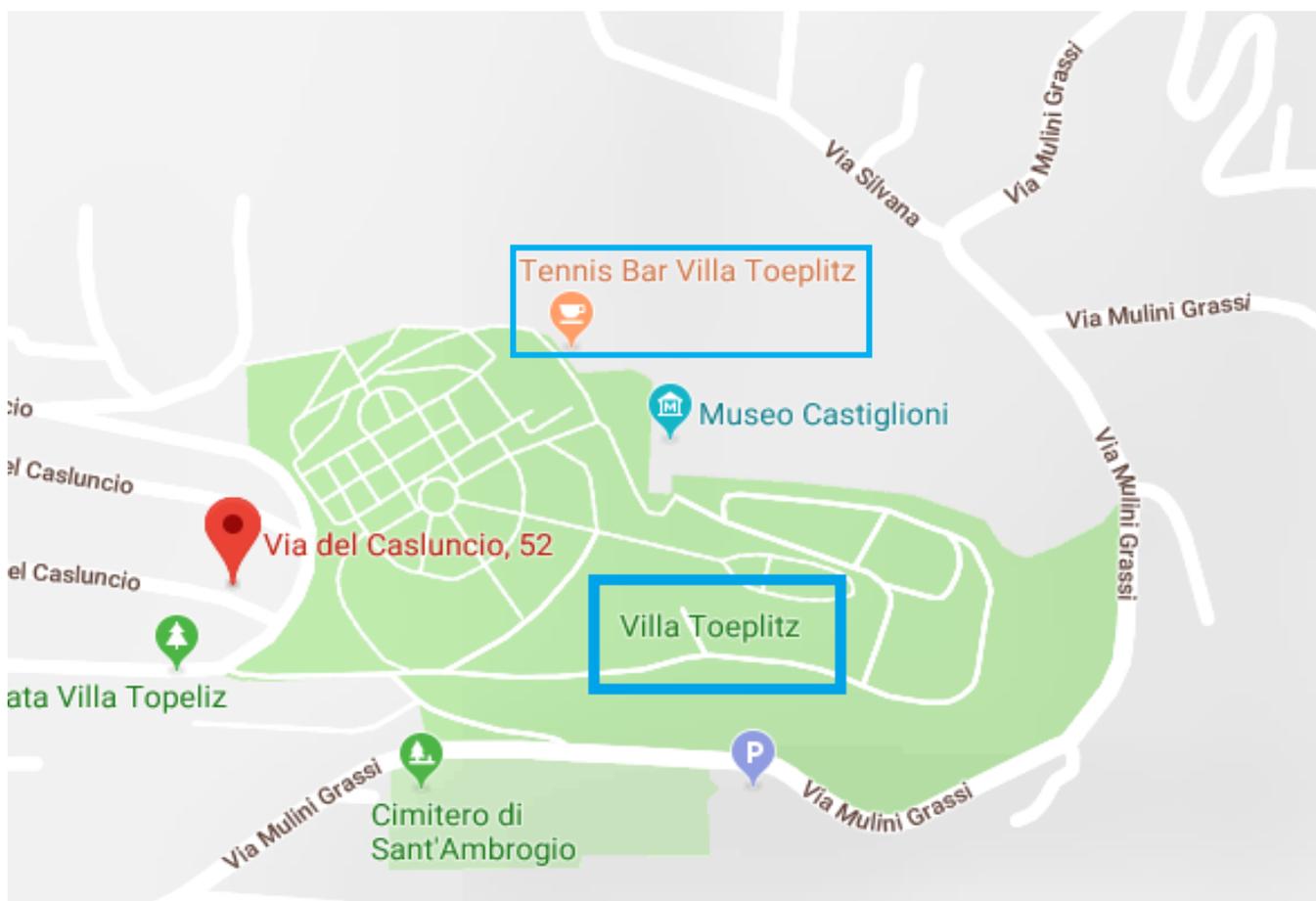
## Villa Toeplitz

via del Casluncio 52, Varese

The **INHIGEO Business Meeting** will be held in **Villa Toeplitz** (University of Insubria), built towards the end of the 19<sup>th</sup> century on a hill in the Varese district of Sant’Ambrogio Olona. The *Villa* was bought in 1914 by the founder of the Banca Commerciale Italiana, Giuseppe Toeplitz and was renovated with addition of a metal dome where an astronomic specula was installed. The building is surrounded by an eight-hectare garden-park, designed in the Italian and English styles, with some recently restored water features.



A free **visit to the garden** (*Parco di Villa Toeplitz*) will be followed by a **cocktail** at the **Tennis Bar Villa Toeplitz**.



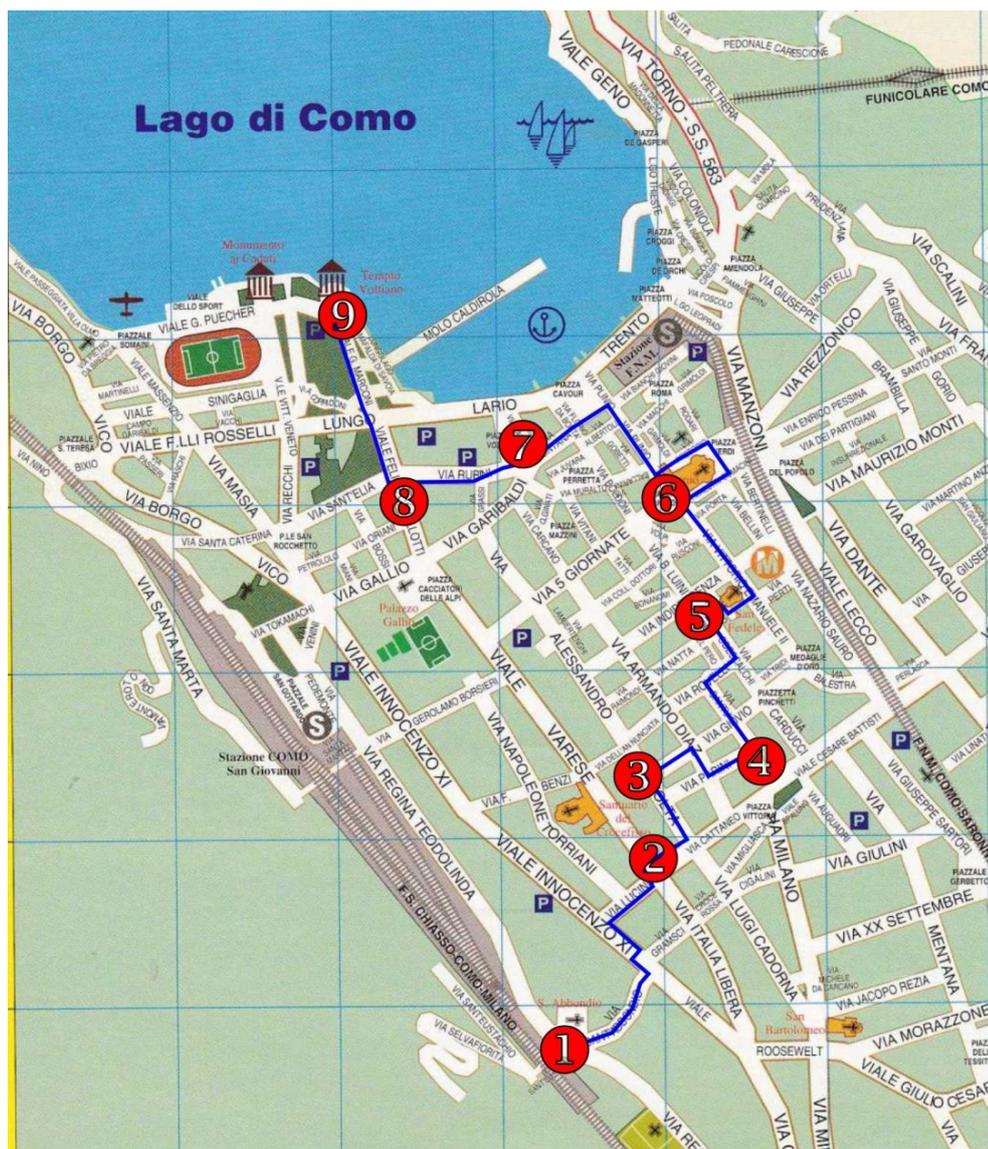
## Sant'Abbondio Cloister - University of Insubria

via Sant'Abbondio 12, Como (bus transport for registered participants from and to Varese will be provided)

The *Aula Magna* of the *Chiostro di Sant'Abbondio* (University of Insubria) is the venue for the **Scientific Session on the morning of the 4th day** of the Symposium, in Como. The cloister, built in the 16<sup>th</sup> century as part of the medieval Basilica di Sant'Abbondio, is a great example of the Como Romanesque style. It is located outside the town walls, at the side of Monte Croce, in an area of great archaeological importance. It was restored both in the 19<sup>th</sup> and in the 20<sup>th</sup> century.



A walking tour on the historical-scientific heritage and the building stones of Como will be led in the afternoon by **Luigina Vezzoli** and **Franz Livio**, including the following stops:



Stop 1 - Saint Abbondio Basilica and cloister / University of Insubria

Stop 2 - Frederick I Barbarossa City Walls - Gattoni Tower

Stop 3 - Alessandro Volta House - lake flood mark - San Donnino church

Stop 4 - Porta Torre - Liceo Volta

Stop 5 - Piazza S. Fedele - San Fedele Basilica

Stop 6 - Cathedral of Como - Pliny's statues

Stop 7 - Piazza Cavour - Piazza Volta

Stop 8 - Museo Casartelli - Nobel's Hall

Stop 9 - Tempio Voltiano

## Visconti of San Vito Castle

Piazza Carlo Ermes Visconti, Somma Lombardo (bus transport for registered participants from and to Varese will be provided)



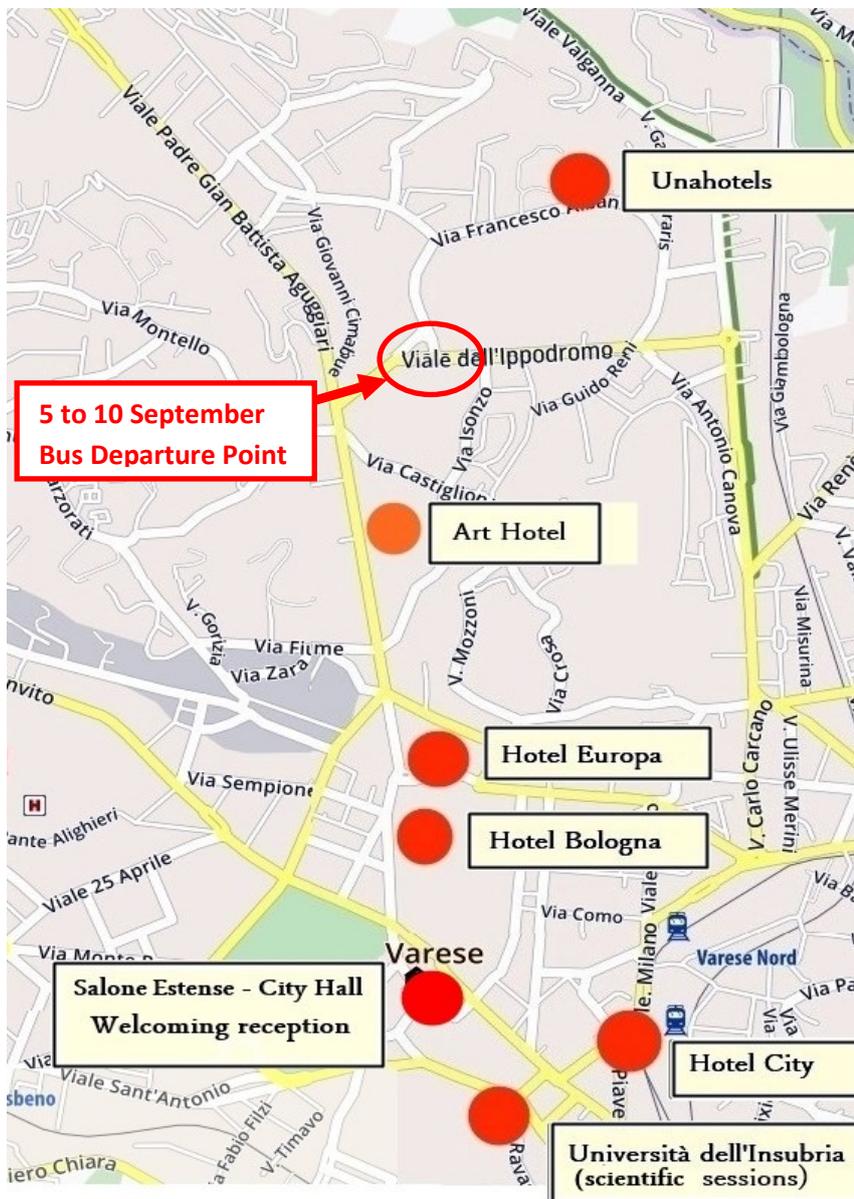
The medieval **Visconti of San Vito Castle** in Somma Lombardo (south of Varese) is the venue for the **5th and last day of the Symposium, which includes a scientific morning session honouring the legacy of Nicoletta Morello**, hosted by the Visconti di San Vito Foundation. The castle was built in 1448, when the brothers Francesco and Guido Visconti (members of the noble family Visconti of Milan), in order to escape disputes with the Ambrosian Republic, took refuge in their estate of

Somma. In 1473, due to disagreements, the brothers decided to divide up the ownership of the house and of the village of Somma, marking its legal division until 1950, when the Marquis Alberto Visconti of San Vito reunited the entire property. The last descendant of the family was Gabrio Visconti of San Vito who, in his will, left the castle to the Visconti of San Vito Foundation in 1997, which currently deals with the maintenance and acts as custodian of the history and heritage of the castle. Today the castle, having a large exterior quadrilateral appearance, encloses three castles built around three large courtyards, enhanced by porticos and with independent entrances.

After lunch, a **guided tour** through the magnificent rooms, interior decorations, furniture and collections **of the Castle**, will be offered to all the participants, as well as a visit to the historical **Geodetic Point of Somma Lombardo**, built in 1833. Before the **Conference Dinner** at the **Grotte di Valganna** (Induno Olona, near Varese) it will be possible to visit the travertine blocks and caves around the waterfall at the entrance of the Valganna valley.



## DEPARTURE POINT FOR COMO, SOMMA LOMBARDO, MID-MEETING AND POST-MEETING FIELD TRIPS



### The departure point of the bus:

- for the Mid-Meeting Fieldtrip (5 September);
- to Como (6 September);
- to Somma Lombardo (7 September);
- for the first day of the Post-Meeting Fieldtrip (8 September);
- for the second day of the Post-Meeting Fieldtrip (9 September);
- for the third day of the Post-Meeting Fieldtrip (10 September);

will be at the parking in front of the racecourse Ippodromo Le Bettole, in Viale Ippodromo, Varese, at the junction with via Francesco Albani.

The *Ippodromo* may be reached by bus from the city center:

- line A, direction *Litta*, stop *Ippodromo*
- line B, direction *Sangallo*, stop *Ippodromo*
- line Z, direction *Bregazzana*, stop *Aguggiari - Montello*



**It is warmly recommended to arrive at the departure point at least 15 minutes before the departing time indicated in the Program** ♦

# CONFERENCE PROGRAM

## Monday 2<sup>nd</sup> September

*Salone Estense* (City Hall), *Palazzo Estense*, via Sacco 5, Varese

17.00 - 19.00      **Registration and free visit to the *Estensi* Gardens**

19.00 - 20.00      **Welcome Address**

- Mayor of the City of Varese: **avv. Davide Galimberti**
- Provost of the University of Insubria: **prof. Angelo Tagliabue**
- President of the Visconti San Vito Foundation: **avv. Gaetano Galeone**
- Director of the Department of Theoretical and Applied Sciences, University of Insubria: **prof. Mauro Ferrari**
- INHIGEO President: **prof. Barry J. Cooper**
- INHIGEO General Secretary: **prof. Marianne Klemun**
- Chair of INHIGEO 2019 Organizing Committee: **prof. Ezio Vaccari**

20.00 - 22.00      **Reception with buffet ... and music from the Italian mountains**

## Tuesday 3<sup>rd</sup> September

*Aula Magna*, University of Insubria, via Ravasi 2, Varese

8.00 - 9.00      **Registration and poster arrangement**

Scientific Session: **History of the Earth Sciences in Mountain Environment - 1**

Chair: **Ezio VACCARI**

9.00 - 9.10      **Introduction**

9.10 - 9.30      **Gregory GOOD**, *The Astronomers who Fell to Earth: Or, How the Copernican Revolution was Completed in the Alps*

9.30 - 9.50      **Gaston GODARD\***, **Simone TUMIATI**, *The ancient manganese mine of Praborna (Aosta Valley, Italian Alps): witness to the multi-centenarian evolution of mineralogy and glassmaking*

9.50 - 10.10      **Ernst HAMM**, *Mountains and the Construction and Formation of the Earth: Leopold von Buch as Geologist and Naturalist*

10.10 - 10.30 **Sharad MASTER**, *Geological exploration of the Ruwenzoris, the legendary Mountains of the Moon*

10.30 - 10.45 **Discussion**

10.45 - 11.00 **Coffee break**

Scientific Session: **History of the Earth Sciences in Mountain Environment - 2**

Chair: **Stephen ROWLAND**

11.00 - 11.20 **Mike JOHNSTON**, *The “Dun Mountain Inoceramus” and the Maitai Controversy - a major stratigraphic problem in 19<sup>th</sup> century New Zealand*

11.20 - 11.40 **Paolo MACINI\***, **Ezio MESINI**, *Development of Geosciences and Petroleum Exploration in the Italian Apennines between 19<sup>th</sup> and Early 20<sup>th</sup> Century*

11.40 - 12.00 **Margret HAMILTON**, *The geographer Ferdinand Löwl (1856-1908). His representation of the Tonalit of the Rieserferner group in 1893*

12.00 - 12.20 **Adele GARZARELLA\***, **Wojciech NAREBSKI**, **R. DEERE**, **M. PATRICELLI**, **K. PIOTROWSKY**, **F. LARCINESE**, *The impact of geology in the Italian Campaign: new contributions from Polish, Italian and British archives and documents for the study of the Mountain Warfare from the Gustav (Lazio-Abruzzo) to the Gothic Line (Toscana-Emilia Romagna)*

12.20 - 12.35 **Discussion**

12.45 - 13.45 **Lunch at Villa Mirabello**

13.45 - 14.30 **Visit to Guttuso Exhibition or Archaeological Museum at Villa Mirabello**

Scientific Session: **General contribution on the History of Geology - 1**

Chair: **Luz AZUELA**

14.40 - 15.00 **Francesca GAMBINO\***, **Pietro MOSCA**, **Luca BARALE**, **Alessandro BORGHI**, **Anna D'ATRI**, **Luca MARTIRE**, *A geo-historical tour through the city of Torino and the Susa Valley (NW Italy)*

15.00 - 15.20 **Ivan VTOROV**, *The importance of A.E. Fersman research on Elba Island (1908)*

15.20 - 15.40 **Lucero MORELOS**, *Dolores Rubio Ávila. A First Engineer's Scholar and Academic in Mexico, 1910*

15.40 - 16.00 **Dorothy SACK**, *Israel Cook Russell, Paradigmatic Pragmatist?*

16.00 - 16.15 **Discussion**

Scientific Session: **General contribution on the History of Geology - 2**Chair: **Kennard BORK**

16.30 - 16.50 **Daniele MUSUMECI\***, **Stefano BRANCA**, **Luigi INGALISO**, *The Magmatological Tectonics: Alfred Rittmann's paradigm (1893-1980)*

16.50 - 17.10 **Tina ASMUSSEN**, *Rich Ores and Barren Rock: A Material History of Finding in the 16th and 17th centuries*

17.10 - 17.30 **Khallaf EL-GHALBI**, *Rocks in Arab-Islamic scientific heritage*

17.30 - 17.50 **Tatiana IVANOVA**, *Natural stone in the history of the Russian culture (XII - XV centuries)*

17.50 - 18.05 **Discussion**

18.10 - 19.00 **Poster Session**

**Alessio ARGENTIERI\***, **Giovanni DE CATERINI**, *1969-2019: half century after the "Upper Liri Basin hydrogeology" study by Bruno Accordi and the new Roman geological school*

**Fabiana CONSOLE\***, **Simone FABBI**, *Bonaventura Montani: A forgotten pioneer of Italian Geological Mapping*

**John DIEMER**, *The Geology of the Ural Mountains as Understood by Roderick Murchison in 1845*

**Maria FACCIOLI**, *Mineralogical journeys in the 18th century as tools of knowledge of the Earth: the case of Marco Carburi*

**Algimantas GRIGELIS**, **Leonora Živilė GELUMBAUSKAITĖ**, *The Prussian origin of Baltic amber: a history of discoveries*

**Loredana LANCINI**, *Myths and legends as a source of reality: the place of geomorphology in the history of geology*

**Lamberto LAURETI**, *The geological School of Torquato Taramelli*

**Daniele MUSUMECI**, *The Magmatological Tectonics: Alfred Rittmann's paradigm (1893-1980)*

## Wednesday 4<sup>th</sup> September

*Aula Magna*, University of Insubria, via Ravasi 2, Varese

8.30 - 9.00 **Registration**

Scientific Session: **History of Communication in the Geological Sciences - 1**

Chair: **Martina KÖLBL-EBERT**

9.00 - 9.20 **Fabio D'ANGELO**, *From the Kingdom of Naples to Germany. The travel around Europe of six neapolitan naturalists (1789-1796)*

9.20 - 9.40 **Paolo SAMMURI**, *Two letters on Mining sites in Tuscany by Giovanni Targioni Tozzetti to Count of Richecourt*

9.40 - 10.00 **Luz AZUELA**, *Long distance collaboration: the Case of Joseph Burkart's Mexican Partners*

10.00 - 10.20 **Claudia SCHWEIZER**, *Landscape and Economy: Ami Boué and his Suggestion of Efficient Routes and Railways in the "European Turkey"*

10.20 - 10.35 **Discussion**

10.35 - 10.50 *Coffee break*

Scientific Session: **History of Communication in the Geological Sciences - 2**

Chair: **John DIEMER**

10.50 - 11.10 **Marianne KLEMUN**, *Communicating Geology between Bureaucracy, Public, Society and Laymen: the Geological Survey in the Habsburg Monarchy*

11.10 - 11.30 **Leonid KOLBANTSEV**, *History of the Geological Mapping in Russia: from the first sketches to the State Geological Map*

11.30 - 11.50 **Barry COOPER**, *Geological maps from South Australia: their fundamental historic role in communicating geological information*

11.50 - 12.10 **Marco PANTALONI**, *The 1:1M Geological Map of Italy: a milestone in geological knowledge*

12.10 - 12.25 **Discussion**

12.35 - 13.35 *Lunch at Villa Mirabello*

13.35 - 14.20 *Visit to Guttuso Exhibition or Archaeological Museum at Villa Mirabello*

Scientific Session: **History of Communication in the Geological Sciences - 3**

Chair: **Silvia FIGUEIRÔA**

- 14.30 - 14.50 **Johannes MATTES**, *Communicating between Research and the Public: The Role of Earth Sciences & (Popular) Scientific Societies for the Distribution of Knowledge in Nineteenth-Century Vienna*
- 14.50 - 15.10 **Michiko YAJIMA**, *The first report of fossils from Japan based on showpieces of the world exposition*
- 15.10 - 15.30 **Zoya BESSUDNOVA\***, **Galina LYUBINA** *Paleontologist Maria Pavlowa's communication with foreign scientists in the late 19th - early 20th century*
- 15.30 - 15.50 **Andrew HOPKINS**, *The Collapse of an Argument: Alfred Wegener's Use of Geodetic Data*
- 15.50 - 16.05 **Discussion**

16.05 - 16.20 *Coffee break*

Scientific Session: **History of Communication in the Geological Sciences - 4**

Chair: **Mike JOHNSTON**

- 16.20 - 16.40 **Toshihiro YAMADA**, *Geoscientists and the Buddhism Terms: the Popularization of Science and 'Cosmic Consciousness' in 1920s Japan*
- 16.40 - 17.00 **Martina KÖLBL-EBERT**, *Limits of Communication: Letters by German Geologists in context of the Nazi regime*
- 17.00 - 17.20 **Stephen ROWLAND**, *Fritz Zerritsch's Mid-Twentieth-Century History-of-Life Wall-Chart Roll-Ups and his Collaboration with Paleontologist Erich Thenius*
- 17.20 - 17.35 **Discussion**

17.40 - 18.00 *Bus transfer to Villa Toeplitz*

18.00 - 19.30 **INHIGEO Business Meeting at Villa Toeplitz (Sala Seminari)**

19.30 - 20.00 *Visit to Villa Toeplitz Garden*

20.00 - 21.30 *Cocktail at Villa Toeplitz Tennis Bar*

21.30 *Return by bus to Varese city center*

## Mid-Meeting Field Trip

The mid-meeting one-day field trip, as a reconstructed Geo-Historical Itinerary, will start from Varese and will follow the path of the geo-paleontological excursion undertaken by the participants of the 7<sup>th</sup> meeting of the Italian Society of Natural Sciences in September 1878 in the area of Monte San Giorgio and Valceresio, within the Prealps north of Varese. Some ancient stone quarries and sites of 19<sup>th</sup> century paleontological excavations will be visited.

Field trip leaders: **Donatella Reggiori, Maria Faccioli, Andrea Candela, Ezio Vaccari**

- 8.30** *Departure by bus from Varese:* parking in front of the *Ippodromo Le Bettole* (racecourse), viale Ippodromo, Varese (see above, p. 12)
- 9.00** *Stop 1 - Brenno Useria - site of La Predera:* the history of a subterranean quarry of sandstone called *pietra bianca*
- 10.30** *Stop 2 - Viggiù - Beltrami quarry:* a limestone (calcarenite) quarry from the late 19th century
- 13.00** *Lunch* at the S.O.M.S. in Viggiù (*Società Operaia di Mutuo Soccorso*, a local association and school of arts and handcrafts)
- 14.30** *Departure from Viggiù*
- 15.00** *Stop 3 - Besano - bituminous shales quarries:* a section of the Geo-Paleontological Path of the UNESCO World Heritage site of Monte San Giorgio, from Besano to the bituminous shales (*scisti bituminosi*) quarries and the Middle Triassic paleontological site of Rio Ponticelli
- 17:30** *Stop 4 - Besano - Museum of Fossils:* visit to the paleontological collections
- 18.30** *Return to Varese (arrival at 19.00)*

**Please, note that transfers will be by bus and on foot along hiking trails. We recommend clothing and footwear suitable for hiking trails on uphill paths (sturdy footwear, walking poles, clothing in accordance with weather forecasts (sun hat, rain jacket).**

**Please consider that the fieldtrip will include about 4 hours of walking distributed during the day, with some uphill sections.**

More details will be provided in the *INHIGEO 2019 Field Trip Guidebook*, included in the conference bag.

8.00 **Departure by bus to Como from the parking in front of the racecourse Ippodromo Le Bettole, via Ippodromo, Varese (see above, p. 12)**

*Aula Magna*, University of Insubria, via Sant'Abbondio 12, Como

Scientific Session: **Visual Language in the Geological Sciences**

Chair: **Marianne KLEMUN**

9.10 - 9.30 **Renee CLARY**, *Illustration within Informal Geological Communication during the Golden Age of Geology (1788-1840)*

9.30 - 9.50 **Alberto VIANELLI**, *The illustrations (1802-1809) of Grignon (Paris Basin Eocene) fossils commissioned by Lamarck: a tool to understand how he coped with a rapidly changing science of nature*

9.50 - 10.10 **Maddalena NAPOLITANI**, «*Réunir à une belle exécution artistique une grande véracité géologique*»: *the painted decoration of the École des Mines of Paris during the 1850s*

10.10 - 10.30 **Simon NATHAN**, *The photography of Alexander McKay and Lloyd Homer: recording the geology and landscapes of mountainous New Zealand*

10.30 - 10.45 **Discussion**

10.45 - 11.00 **Coffee break**

Scientific Session: **General contributions on the History of Geology - 3**

Chair:

11.00 - 11.20 **Pietro Daniel OMODEO**, *Geoenvironmental Management in Renaissance Venice: When A Galilean Mathematician Tried to Solve the Hydrogeological Problems of the Lagoon*

11.20 - 11.40 **Eugenija RUDNICKAITĖ**, *The most prominent scientists who spread the geological knowledge at the very beginning of the history of Vilnius University*

11.40 - 12.00 **Barbara MOHR**, *Teaching geosciences from the 19th century on in central Europe and its influence on society*

12.00 - 12.20 **Maria Margaret LOPES**, *Paleontology for Oil. The Brazilian Geological and Mineralogical Survey's works, in the first decades of 20th century*

12.20 - 12.40 **Peter SCHIMKAT**, *Commemorating "Vulkanismusstreit und Geochemie" (1991) - A Forgotten Modern Classic Revisited*

12.40 - 13.00 **Discussion**

13.00 - 14.00

*Lunch at Sant'Abbondio Cloister - ground floor*

14.00 - 18.00

*Historical-Scientific Walking Tour in Como city center*  
(tour leaders: Luigina Vezzoli and Franz Livio / see above, p. 10)

18.00 - 18.45

*Cocktail by Lake Como*

19.00 - 20.00

*Return to Varese by bus*



**The *Tempio Voltiano* in Como**

8.00 **Departure by bus to Somma Lombardo from the parking in front of the racecourse Ippodromo Le Bettole, viale Ippodromo, Varese (see above, p. 12)**

Salone d'Onore, Castello Visconti di San Vito, Piazza Carlo Ermete Visconti, Somma Lombardo

Scientific Session: **Honouring the legacy of Nicoletta Morello**

Chair: **Ezio VACCARI**

9.00 - 9.10 **Introduction**

9.10 - 9.30 **Ezio VACCARI**, *Nicoletta Morello and the history of geology in Italy*

9.30 - 9.50 **Claudine COHEN**, *Early modern Earth theories and scenarios of Human origins*

9.50 - 10.10 **Luca CIANCIO**, *"In centro terrae est Sol centralis". The debate between Naudé, Peiresc and Gassendi around volcanic fires (1631-1649)*

10.10 - 10.30 **Silvia FIGUEIRÔA**, *Nérée Boubée (1806 - 1862), an activist for communication in the geological sciences*

10.30 - 10.50 **Claudia PRINCIPE**, *The contribution of the "Riunioni degli Scienziati Italiani" (Congresses of Italian Scientist) to the circulation of the Geological Ideas, and as part of the process of unification of Italy*

10.50 - 11.10 **Discussion**

11.10 - 11.25 *Coffee break*

Scientific Session: **History of the Earth Sciences in Mountain Environment - 3**

Chair: **Barry COOPER**

11.25 - 11.45 **Norman HENNIGES**, *Glacier Men: Albrecht Penck, Eduard Brückner and the experience of Quaternary fieldwork in the Alps and the Alpine Foreland, c. 1900*

11.45 - 12.05 **Maria CONFORTI**, *The volcano and the sea: discussions on the role of waters in eruptions in Italy in the 17th century*

12.05 - 12.25 **Andrea CANDELA**, *Visualising the theory of the Alps: the first geological map of the Western Lombard Prealps by Christian Leopold von Buch (1829)*

12.25 - 12.45 **Discussion and INHIGEO 2019 Best Poster Award to a young scholar**

12.45 - 13.45 *Lunch*

13.45 - 15.45

*Visit to the Visconti di San Vito Castle*

15.45 - 16.45

*Visit to Geodetic Point of Somma Lombardo*

16.45 - 17.45

*Return to Varese by bus*

17.45 - 19.45

*Visit to the Valganna Waterfall and Caves*

20.00 - 22.30

*Conference dinner at the Grotte di Valganna*

22.30 - 22.45

*Return to Varese city center by bus*

## Sunday 8<sup>th</sup> September - Thursday 12<sup>th</sup> September

### Post-Meeting Field Trip

The post-meeting five-day field trip will begin in Varese on Sunday 8th September in the morning and will end in Varese on Thursday 12th September, not earlier than 7pm. Please note that accommodation for the first two nights (8th-9th September) is not included in the fieldtrip fee: the participants are advised to extend their reservation at the hotels in Varese booked for the days of the conference.

Please, note that transfers will be by bus and on foot along hiking trails. We recommend sturdy footwear suitable for hiking trails on uphill paths, as well as clothing in accordance with weather forecasts and average temperature inside the mines (sun hat, sweatshirt, rain jacket).



### Day 1 - 8th September 2019

Field trip leaders: **Simone Bonomi, Andrea Candela, Silvio Renesto, Ezio Vaccari**

**8.00** *Departure by bus from Varese:* parking in front of the *Ippodromo Le Bettole* (racecourse), viale Ippodromo, Varese (see above, p. 12)

**8.30** *Stop 1 - Cuasso al Monte - Cave Bonomi:* visit to the quarry *Cave Bonomi* in Cuasso al Monte (Valceresio, north of Varese), where the *Porfido Rosso di Cuasso* (red porphyry or granophyre) has been extracted and worked since the early 20th century

**13.00** *Lunch at the Ristorante Alpino, Cuasso al Monte*

**14.00** *Departure from Cuasso al Monte*

**14.30** *Stop 2 - Besano - Ca' del Frate:* visit to the paleontological site of *Ca' del Frate* in the UNESCO World Heritage Site of Monte San Giorgio, one of the most important fossil localities in the world for the Middle Triassic (studied since the mid-19th century). The excursion will include 30 minutes of walking uphill to the Ca' del Frate section.

**17.30** *Stop 3 - Clivio - Monte San Giorgio Visitor Center:* visit to the fossil collections of the Museum Insubrico of Natural History in Clivio.

**18.30** *Return to Varese (arrival at 19.00)*



## Day 2 - 9th September 2019

Field trip leaders: **Andrea Candela, Carlo Dossi, Ezio Vaccari**

**8.00** *Departure by bus from Varese:* parking in front of the *Ippodromo Le Bettole* (racecourse), viale Ippodromo, Varese (see above, p. 12)

**10.00** *Stop 1 - Cortabbio di Primaluna mining Park (Valsassina, Prealps north of Lecco):* baryte, exploited since the middle of the 19th century. Please note: inside the mine it is wet and temperature may drop to 10° C

**12.30** *Transfer by bus to Piani Resinelli*

**13.15** *Lunch at the Rifugio S.E.L. - Piani Resinelli*

**14.30** *Stop 2 - Piani Resinelli Mining Park (Valsassina, Prealps north of Lecco):* silver galena and blenda or sphalerite, exploited since the 16th century. Please note: inside the mine it is wet and temperature may drop to 10° C

**17.00** *Return to Varese (arrival at 19.00)*



 PARCO MINERARIO  
PIANI RESINELLI



 PARCO MINERARIO  
CORTABBIO DI  
PRIMALUNA

## Day 3 - 10th September 2019

Field trip leaders: **Andrea Candela, Maria Faccioli, Francesca Gambino, Alessandro Borghi, Luca Barale, Pietro Mosca, Ezio Vaccari**

**8.00** *Departure by bus from Varese:* parking in front of the *Ippodromo Le Bettole* (racecourse), viale Ippodromo, Varese (see above, p. 12)

**9.30** *Stop 1 - Ornavasso - Moschini ancient marble quarry:* visit to the marble quarry *Antica Cava Moschini* in Ornavasso (north-west from Lake Maggiore), which has been exploited since the 14th century and provided building material for some of the masterpieces of Italian art, including the Duomo of Milan, in particular for the outer covering and the slabs of the floors, the coatings of the apses of San Carlo and Santa Cristina in Turin, the facade of the Certosa di Pavia, the coating of the pillars in the Octagon of the Cathedral of Pavia.

**12.00** *Lunch at the Antica Trattoria Boden, Ornavasso*

**14.00** *Departure by bus to Turin*

**16.00** *Stop 2 - "Tourinstone" in Turin:* geo-touristic walking-tour in Turin from the *Parco del Valentino* to the city center, including historical and architectural aspects of the buildings, as well as their geological features: the participants will be shown a variety of Alpine rocks used in palaces and historical monuments for both esthetic and structural reasons.

**18.00** *Cocktail at the Caffè Fiorio, Turin*

**19.00** *Check-in at the Hotel Victoria, Turin*

Please, note that in the marble quarry at Ornavasso it is extremely wet. The internal temperature is between 8 and 12° C. A sturdy waterproofing footwear, suitable clothing and a raincoat are recommended for a short walk. The guided tour is on two quarry levels within the gallery: one will be visited on foot and the other by train. The length of the tour is about 45 - 60 minutes.



## Day 4 - 11th September 2019

Field trip leaders: **Pietro Mosca, Luca Barale, Francesca Gambino, Alessandro Borghi**

**8.30 *Departure by bus from Turin*** to its adjacent Susa Valley in the Piemonte region (NW Italy)

*Valsusa valley*: the Valsusa is a long valley located in the core of the Western Alps and is identified as one of the main corridors of communication between Italy and France. Selected sites will be used both to describe principal geological and geomorphological features of this part of the Western Alps and to discuss the development of theories and interpretation proposed by geologists during the 19th and 20th centuries. Buildings and monuments will be visited focusing on the rocks used in their construction. Morning stops will include Avigliana, Chianocco and Susa, with an introduction to the geology and the history of geology of the area

**13.00 *Lunch at Pizzeria Gianka, Oulx***

**14.30 *Departure from Oulx***

*Valsusa valley*: afternoon stops in Oulx, Cesana, view of Mt. Chaberton and Monginevro, in order to present some fundamental historical profiles for Alpine geology.

**16.30 *Departure to Turin (arrival 17.30)***



## Day 5 - 12th September 2019

Field trip leaders: **Pietro Mosca, Luca Barale, Francesca Gambino, Alessandro Borghi, Ezio Vaccari, Maria Faccioli, Andrea Candela**

**9.30 *Visit to the Egyptian Museum, Turin***: the *Museo Egizio* in Turin city center is the second most important Egyptian museum of the world. An archaeological and archaeometric itinerary will be explained by an archaeologist and conservation scientists

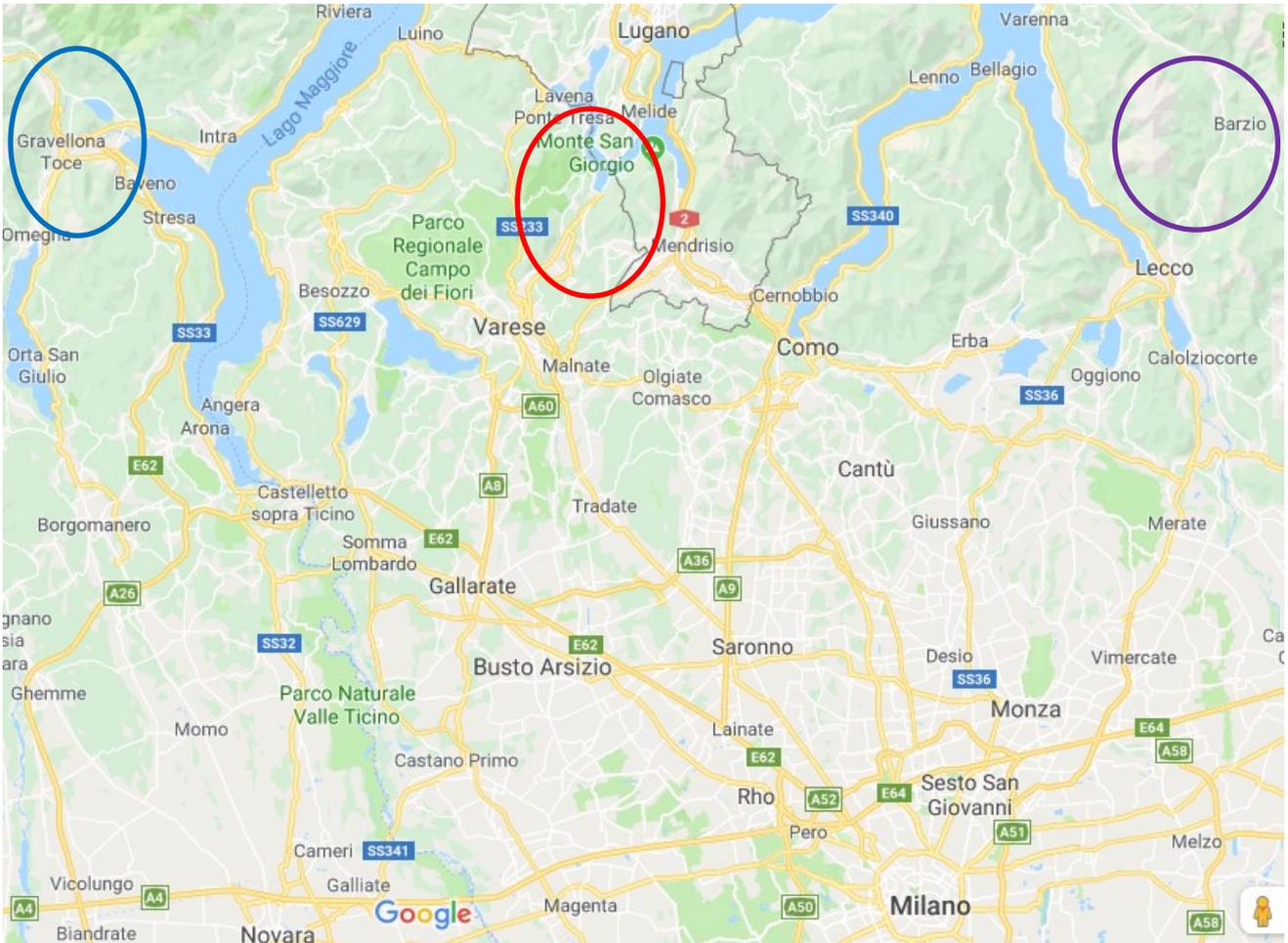
**12.00 *Lunch*** - participants will be free to have their lunch (not included in fieldtrip fee) in the city center of Turin

**14.00 *Departure by bus to the National Museum of the Mountain, Turin***

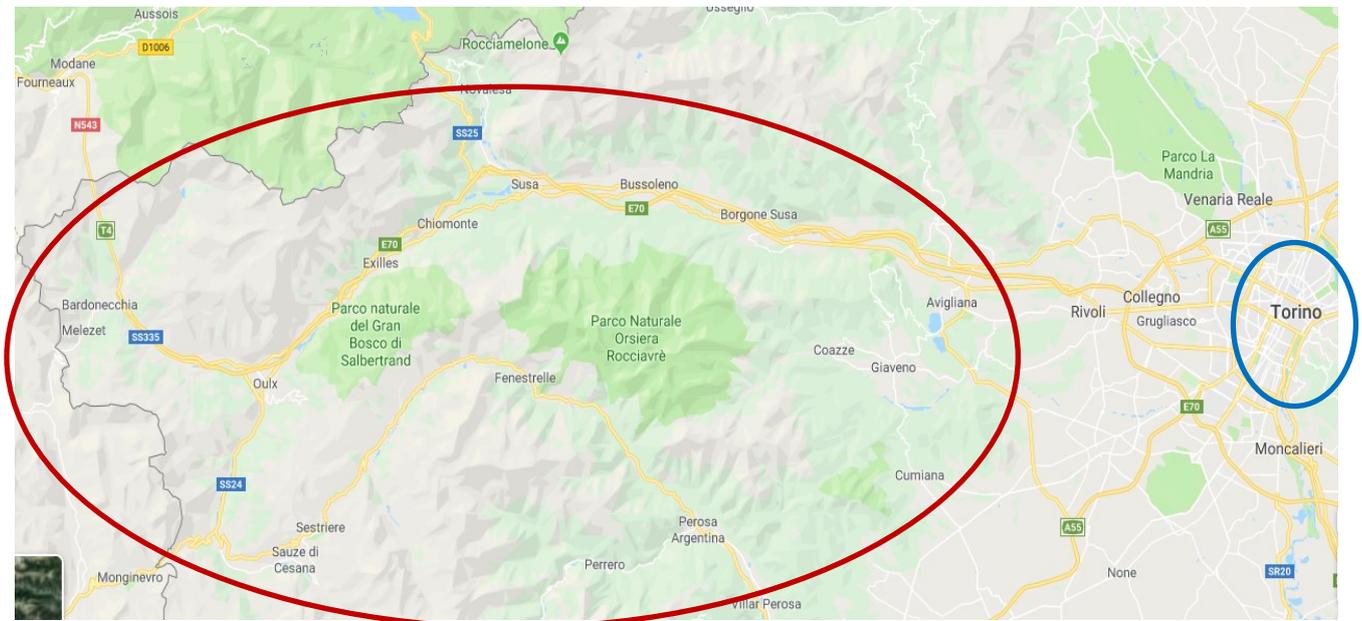
**14.30 *Visit to the National Museum of the Mountain, Turin***: the visit to the *Museo Nazionale della Montagna*, located on the hill *Monte dei Cappuccini*, will be followed by a farewell cocktail.

**17.00 *Departure to Varese (arrival not earlier than 19.00)***

More details will be provided in the *INHIGEO 2019 Field Trip Guidebook*, included in the conference bag.



The location of **Day 1**, **Day 2** and **Day 3 (morning)** of the Post-Meeting Field Trip



The location of **Day 3 (afternoon)**, **Day 4** and **Day 5** of the Post-Meeting Field Trip

## SPECIAL PROGRAM FOR ACCOMPANYING PERSONS

The special program includes guided tours to various sites and localities of cultural, artistic and archeological interest. Accompanying person program leader: **Kathleen Histon** (hiscat@interfree.it)

**3rd September** (full day): departure from Varese, University of Insubria, via Ravasi 2, h. 9.00  
*Villa della Porta Bozzolo, Eremo S. Caterina al Sasso, Rocca d'Angera*  
Lunch by Lake Maggiore  
Return to Varese (University of Insubria, via Ravasi 2) h. 18.30

**4th September** (full day): departure from Varese, University of Insubria, via Ravasi 2, h. 9.00  
UNESCO site *Sacro Monte, Santuario di Santa Maria del Monte* (uphill walk)  
Lunch in Santa Maria del Monte  
*Liberty style* tour of architectural heritage  
Return to Varese (Villa Toeplitz, University of Insubria) h. 18.30

**6th September** (morning): departure from Varese, Parking of Ippodromo, viale Ippodromo, h. 8.00  
Como city center : *Chilometro della Conoscenza tour:*  
*Villa Olmo, Villa del Grumello, Villa Sucota,*  
*panoramic view Lake Como by Brunate cable-railway*

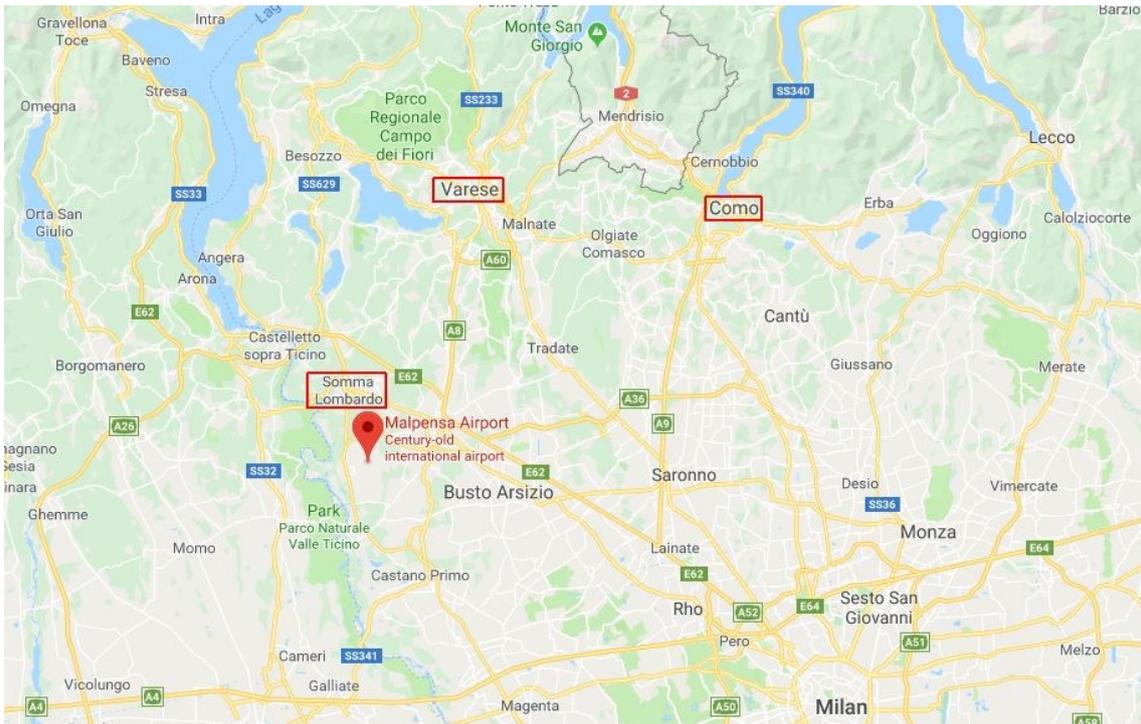
**7th September** (morning): departure from Varese, Parking of Ippodromo, viale Ippodromo, h. 8.00  
UNESCO site *Archeological Park of Castelseprio* near Somma Lombardo.

Accompanying persons will join the delegates for the welcoming reception in the *Salone Estense*, in the City Hall of Varese (evening event 2<sup>nd</sup> September), for the *Visit to Villa Toeplitz Garden* (University of Insubria) and *Cocktail at Villa Toeplitz Tennis Bar* (evening event 4<sup>th</sup> September), for lunch at the *Chiosstro di Sant'Abbondio* (University of Insubria, Como) and on the walking tour on the historical-scientific heritage in **Como city center** (6th September, afternoon ) ending with a *Cocktail by Lake Como* (6th september, evening event), for lunch and tour of the **Visconti Castle** and visit to the **Geodetic Point in Somma Lombardo** (7th september, afternoon), visit to the **Valganna Waterfall and Caves** and **Conference dinner at the Grotte di Valganna** (7<sup>th</sup> September, evening event). Good walking shoes, rain jacket and sun hat are recommended.



**The Sacro Monte of Varese**

# TRAVEL ARRANGEMENTS



## HOW TO GET TO VARESE

### By Airplane

Milan Malpensa International Airport (MXP) is located about 40 km south from Varese and there are connections to the city by train, taxi and shuttle bus service.

- **Rail Lines** from Malpensa Terminal 1 or 2 to Varese F.S. railway station (the city center is about 10 minutes walk).  
<https://www.trenitalia.com/en.html>  
<http://www.malpensaexpress.it/en/>  
<http://www.tilo.ch/en/>
- **Bus Line “Morandi”** provides a private shuttle services from Malpensa airport Terminal 1 (exit number 5/6) or Terminal 2 ( parking number 10) to Varese F.S. railway station.  
[http://www.varese-malpensa.it/shuttle\\_service\\_varese - malpensa.html](http://www.varese-malpensa.it/shuttle_service_varese_-_malpensa.html)

More information on <http://www.milanomalpensa-airport.com/en>

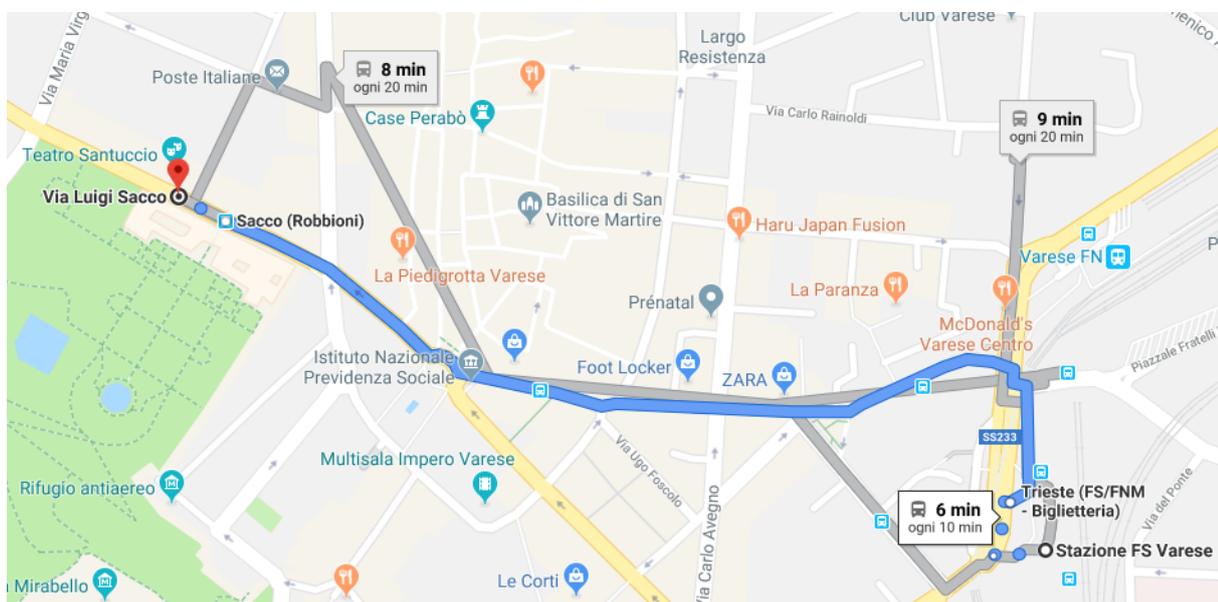
Please note that in September 2019 Milan Linate Airport will be closed.

## HOW TO GET TO VARESE CITY HALL (*Palazzo Estense*)

Varese has two railway stations (*Stazione Varese FS* and *Stazione Varese FN*) very near to each other (about 5 minutes walk apart) and both connected to several railways stations in Milan. From these railway stations you can walk for about 15 minutes to the City Hall (*Palazzo Estense*) in via Sacco 5 (through via Orrigoni, piazza XX Settembre, via Vittorio Veneto, Corso Moro, Piazza Monte Grappa, via Marconi, via Sacco).



The city bus of the lines **A**, **B**, **E** and **Z** also go to *Palazzo Estense*, stop *Sacco (Robbioni)*, in about 6 minutes from the stop *Trieste (F.S. / F.N.M. - Biglietteria)* in front of the railway station *Varese FS*. Bus tickets can be bought in newsagents and bars displaying the sign *Tabaccheria*.



## Oral Presentation Guidelines

Speakers will have 20 minutes for each oral presentation and will be able to answer to questions during the discussion at the end of their scientific session.

Please, prepare your Power Point presentation in a version compatible with Microsoft Windows 7 and submit it to the Registration Desk at the beginning of the Symposium or directly to the technician in the conference room before the beginning of your Scientific Session.

## Poster Presentation Guidelines

Posters' size must be 70 cm wide and 100 cm high.

Delegates will be able to set up their poster in the poster area on the first floor of the University of Insubria building (via Ravasi 2, Varese) after receiving directions and drawing pins at the Registration Desk on September 3rd, between 8.00 and 9.00 am.

The Poster Session will take place on September 3rd, between 18.10 and 19.00

Posters must be removed at latest by the end of the scientific sessions on September 4th, at 17.30.

## On-Site Conference Registration Fees

- Full Conference Fee :       € 420 for Delegates  
                                      € 300 for Students and Early Career Scientists\*

- One Day Conference Fee: € 100 for Delegates  
                                      € 60 for Students and Early Career Scientists\*

\* Students, including PhD students, and Early Career Scientist will be asked to show a proper ID.

Full Conference Fee includes: conference material; welcoming cocktail; coffee breaks and lunches during the conference (3, 4, 6, 7 September); transport for the sessions in Como and Somma Lombardo; cocktail in Como; conference dinner in Varese; reduced membership fee (two years) as ordinary member of the Italian Society for the History of Science (SISS).

One Day Conference Fee includes: conference material, refreshments and transportation of the chosen day (no conference dinner), reduced membership fee (two years) as ordinary member of the Italian Society for the History of Science (SISS).

**Please, note that the on-site payment of the Registration Fees will be accepted only in cash at the Registration Desk (no cheques or credit cards).** The Registration Desk will be present on all conference days at the venue of the scientific sessions.

Mid-Meeting and Post-Meeting Field Trips are fully booked.

See also the **INHIGEO 2019 Symposium website**: <https://inhigeo2019.jimdofree.com>