



## Granulites & Granulites 2024

An international conference on high-temperature processes in the middle and lower crust, including migmatite and granulite formation, crustal anatexis, melt extraction and transfer, structure and composition of the lower crust, and crust-mantle interactions.

**When:** from Tuesday 03 to Friday 06 September 2024, preceded by the Icebreaker Party on the evening on Monday 02 September. A pre-conference excursion on 01–02 September and two post-conference excursions on 07–10 September.

**Where:** The conference will be held at the Maggiore Event Centre in Verbania, on the shores of Lake Maggiore in northwestern Italy. The nearest international airport is Milano Malpensa, with direct bus service to Verbania; Verbania is on the Simplon railway line Milano-Domodossola-Brig and from Domodossola Eurocity trains go to Bern/Basel/Lausanne/Geneva; the nearest motorway exit is Gravelona Toce on the E62 between Milano and Domodossola.

**Programme:** The Icebreaker Party will take place on Monday evening, followed by four days of conference (Tuesday to Friday). Tuesday and Thursday will have a full-day scientific programme with presentations; on Wednesday, there will be presentations in the morning and a mid-conference activity in the afternoon; on Friday, there will be presentations in the morning and a closing lunch. A conference dinner is planned for Thursday evening.

### Keynote speakers:

- Nathan Daczko, Macquarie University, Australia; deformation and microstructure
- Shujuan Jiao, Chinese Academy of Sciences, China; UHT metamorphism
- Barbara Kunz, Open University, United Kingdom; geochemistry of anatexis
- Andy Smye, Pennsylvania State University, USA; evolution of the lower crust
- Olivier Vanderhaeghe, University of Toulouse, France; geodynamics of partially molten crust
- Chris Yakymchuk, University of Waterloo, Canada; thermodynamic modelling

**The mid-conference activity** (Wednesday afternoon) will offer several different options for attendees:

1. A walk across the Moho from mantle peridotite through pyroxenite and gabbro to crustal granulite (a 3-hour walk; priority will be given to delegates who have not participated in the pre-conference excursion).
2. Visit to the spectacular Candoglia marble quarry, used to build the Duomo in Milan (bus transfer and guided tour).

3. Scientific workshop "Phase Equilibrium Modelling with MAGEMin" (on site). This workshop will introduce delegates to the phase equilibrium modelling software MAGEMin and associated thermodynamic models. As short practical session, led by developer Nicolas Riel, will give delegates hands-on experience with the application.
4. Visit to the picturesque Botanical Garden and Villa Taranto in Verbania (easy walk and beautiful surroundings).

**Registration fee:** approximately 450 Euros for regular registration and 300 Euros for students and ECR. The fee includes the abstract submission, the icebreaker party, one of the mid-conference activities, lunches, coffee breaks, the conference dinner, and transfer to and from Verbania train station (on request).

## EXCURSIONS

**Pre-conference excursion** (01–02 September) to the Ivrea Zone, which exposes one of the most complete and best-studied continental crust–upper mantle sections on Earth. We will visit outcrops in Val Sesia and Val Strona, including peridotite, lower crustal gabbro, migmatites, granulites and upper crustal igneous rocks. Daily transfers by minibus from Verbania, accommodation in Verbania (not included).

**Post-conference excursion A (07–10 September):** four days in Calabria (Serre Massif, Capo Vaticano Promontory and Palmi area) to explore a continuous exposure of the late Variscan continental crust, from the deepest granulite-dominated portion to mid-crustal migmatites and overlying granitoids. The excursion starts and ends in Lamezia Terme (flight transfer from Verbania not included). Daily transfers by minibus and accommodation in local hotels.

**Post-conference excursion B (07–09 September):** two and a half days in the Ivrea Zone and the Central Alps, from the metasomatised mantle peridotite, pyroxenites and gabbros of Finero that were formed during extension, to the garnet peridotite and eclogites of the iconic Alpe Arami documenting Alpine subduction, to the migmatites of the Central Alps that formed during the Barrovian metamorphic overprint. Travel by minibus from Verbania, overnights in the scenic village of Ascona, Switzerland, and end at the Locarno railway station, Switzerland.

All excursions will have limited numbers on a first come, first served basis. Excursions will be cancelled if a minimum number of participants is not reached.

**Important dates:**

- 15 March registration for conference and excursions opens
- 15 May registration closes
- 15 June abstract submission deadline

For more details: <https://granulites2024.sfmc-fr.org/>

Contact & Questions: [contact\\_granulite@sfmc-fr.org](mailto:contact_granulite@sfmc-fr.org)

## Organising Committee

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- Daniela Rubatto, *Institute of Geological Sciences, Universität Bern, Switzerland (Chair)*
- Othmar Müntener, *Institute of Earth Sciences, Université de Lausanne, Switzerland*
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