

MELTING AND FLUID/MELT-ROCK REACTIONS IN THE MANTLE (MEREMA)

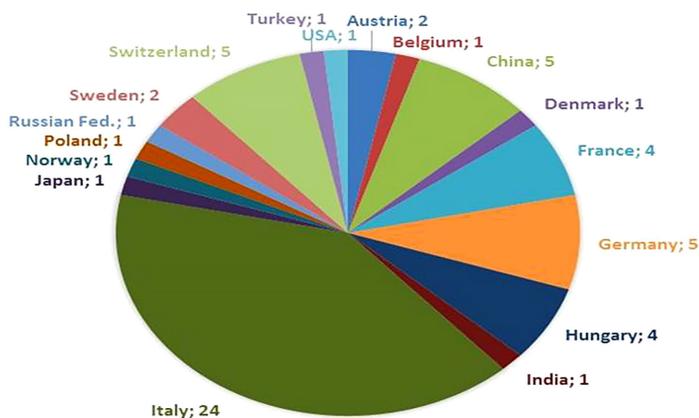
The first edition of the International School, Melting and Fluid/Melt-Rock Reactions in the Mantle (MEREMA), was organized by the Italian Group of Petrography (GNP) of the Italian Society of Mineralogy and Petrology (SIMP), in collaboration with the PhD programs of the Italian universities of Pavia, Ferrara, Genova, Milano, Modena-Reggio Emilia and Parma. MERMA was co-sponsored by ThermoFisher-Scientific®. Major financial support for the MEREMA school was provided by the University of Pavia and the European Geosciences Union (EGU). The school was held 13–17 February 2017 in the magnificent historic lecture hall of the University of Pavia (Italy).



Opening session in Aula Scarpa. Standing on the left: Riccardo Tribuzio (University of Pavia); in the front row, from the left: Maurizio Mazzucchelli (GNP president, University of Modena) and Alessandro Pavese (SIMP president, University of Turin).

The School was attended by a select group of 60 PhD students and young researchers, from 17 countries, who have a broad interest in Earth and planetary mantle processes.

MEREMA SCHOOL - FROM WHERE



Distribution of student population by country.



GNP president (Maurizio Mazzucchelli) presenting the three winners of the best student posters. From the left: S. Chattopadhaya (University of Calcutta, India), K. Faak (Ruhr Universitat-Bochum, Germany), and N. Zagrtdenov (GET Toulouse, France).

The scientific program covered important petrological and geochemical aspects of the Earth's mantle, dealing with melting processes and reaction mechanism between mantle rocks and percolating melts/fluids.

Each day consisted of morning lectures, followed by afternoon key-study presentations, concluding with late-afternoon discussions and students presenting their research as posters. The MEREMA lecturers selected their top three student posters and awarded them prizes, which were presented by the GNP president.

The entire week saw a significant interactive and passionate conversation among all participants that continued also during the various convivial moments that created a stimulating intellectual milieu.

The program was divided into four sessions run by outstanding lecturers and keynote speakers: "Field, Structural and Petrophysical Approach" (G. Ceuleneer and K. Hydas); "Theoretical Approach" (S. Chakraborty, Y. Liang, and O. Münteneer,); "Thermodynamics Approach" (M. Ghiorso); "Geochemical Modelling" (A. Luguet; A. Stracke). In addition, the participation of experts on mantle rocks offered interesting examples of melt/rock reactions at the crust/mantle boundary (E. Rampone, A. Sanfilippo), compositional and thermal heterogeneities of magma sources (G. Borghini, D. Brunelli and A. Montanini), and mantle re-fertilization processes in subcontinental lithospheric mantle (M. Coltorti, C. Marchesi).



"Round table" at the Caffè dell'Università. All the social events and organization were under the direction of Chiara Trabella (University of Pavia, Italy).

An interesting and cutting-edge overview of the new frontiers in trace elements and isotopic analyses was provided by the team of ThermoFisher-Scientific®. (L. Mounier).

Very positive feedback from the students and international staff of invited teachers, stimulated the scientific committee to start thinking of a second edition of MEREMA.

See the full MEREMA report at www.socminpet.it/Merema.

MEREMA Scientific Committee
(Maurizio Mazzucchelli, Elisabetta Rampone,
Riccardo Tribuzio, Patrizia Fumagalli,
Costanza Bonadiman and Alberto Zanetti)