



photo: Heidi Höfer

The new building of the Faculty of Geosciences at Frankfurt University

The first European Mineralogical Conference will take place at the Goethe University in Frankfurt am Main, Germany, in September 2012. The conference is being organized by Gerhard Brey and Heidi Höfer on behalf of the participating mineralogical societies and will cover a broad range of themes, including the following:

**THEMES
OF
emc²⁰¹²**

- 1 Mantle petrology and geochemistry
- 2 Magmatism and volcanology
- 3 Metamorphism
- 4 Applied mineralogy
- 5 Mineral physics
- 6 Mineralogical crystallography
- 7 Planetary materials
- 8 Mineral deposits and raw materials
- 9 Low T geochemistry
- 10 Geochronology
- 11 Geobiochemistry
- 12 Advanced analytical techniques
- 13 Archaeometry, care and preservation
- 14 Open session

There will be a series of invited lectures, notably including the acceptance speech of Prof. D.H. Green, recipient of the IMA Medal award.

THE SCIENTIFIC ORGANIZING COMMITTEE:

- | | |
|-----------------------------------|-----------------------------------|
| Rainer Altherr (DMG) | Jose Miguel Nieto (SEM) |
| Peter Treloar (MinSoc) | Patrick Cordier (SFMC) |
| Kevin Murphy (MinSoc) | Giuseppe Cruciani (SIMP) |
| Volker Kahlenberg (ÖMG) | Bernard Grobety (SSMP) |
| Marek Michalik (PTMin) | Gerhard Brey (Frankfurt) |
| Sergey Krivovichev (AMS) | Heidi Höfer (Frankfurt) |

Scientific Programme

Fourteen symposia themes under the general conference theme “Planet Earth from Core to Surface” cover a broad range of topics in mineralogy. The session titles (listed overleaf) together with their designated convenors fill us with great expectations for an exciting and stimulating conference.

Plenary lectures

Highlights of the scientific programme will be the invited speakers including this year’s IMA award medallist, D.H. Green: “Experimental petrology of peridotites, basalts and C, H, O – a window on the Earth’s Upper Mantle”; Hilary Downes looks at mantle and core formation from the perspective of meteorites, and the EMU and MinSoc medalists will show us why they are so successful. A public lecture on “Diamonds are forever - but when and where are they formed?” will be given by Thomas Stachel.

Conference venue

The conference will be held at the Goethe-University “Campus Westend”. It is situated near the downtown area of Frankfurt and can easily be reached by public transport. Tickets for public transportation are included in the conference registration fee.

WEB: emc2012.uni-frankfurt.de



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Field trips

The conference will close with a few one or two days excursions to the world famous Eifel volcanic field and to metamorphic terranes nearby.

Social programme

The conference will start on Sunday with the icebreaker party at the conference location, Campus Westend at the Goethe-University. The conference dinner is planned for Wednesday evening in a traditional restaurant. The social programme also offers end-of-conference excursions on Friday, including a visit to Heidelberg or a boat trip along the Rhine Valley with its famous castles, Unesco World Heritage Site.

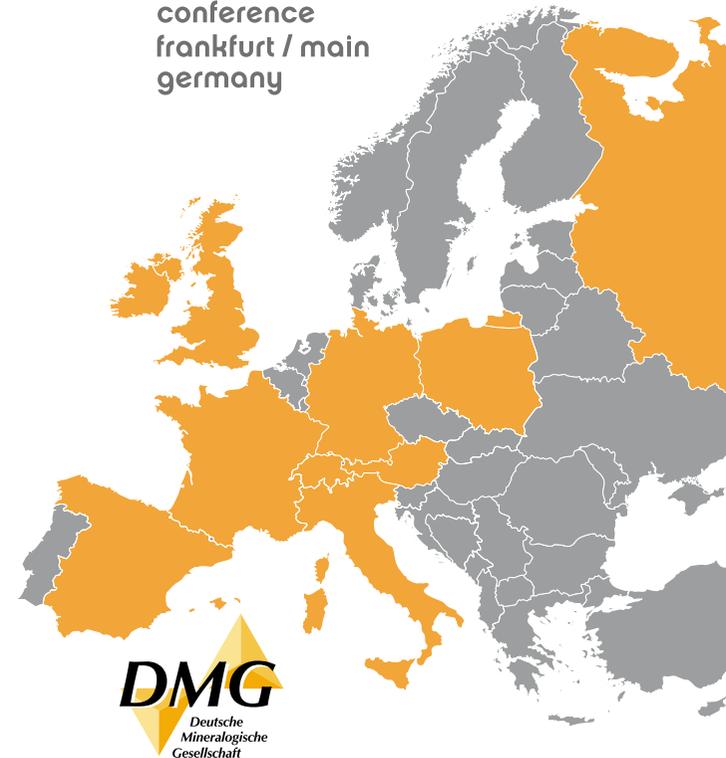


photo: Heidi Höfer

planet earth
from core to surface

emc²⁰¹²
2 - 6 September

europaen mineralogical
conference
frankfurt / main
germany



- | | |
|---------------|---|
| DMG | Deutsche Mineralogische Gesellschaft |
| MinSoc | Mineralogical Society of Great Britain & Ireland |
| ÖMG | Österreichische Mineralogische Gesellschaft |
| PTMin | Mineralogical Society of Poland |
| AMS | Russian Mineralogical Society |
| SEM | Sociedad Española de Mineralogía |
| SFMC | Société Française de Minéralogie et de Cristallographie |
| SIMP | Società Italiana di Mineralogia e Petrologia |
| SSMP | Swiss Society of Mineralogy and Petrology |



emc²⁰¹²



WEB: emc2012.uni-frankfurt.de MAIL: info-emc2012@uni-frankfurt.de

WELCOME TO FRANKFURT...

... to the most international city in Germany, the largest financial centre on the continent, the historical city of coronations, the city of Goethe and the Frankfurt School... The "smallest metropolis in the world" offers a hospitable atmosphere that stems from its centuries-old role as a trading centre.

If you have a drink in a cosy cider pub on a nice late summer evening, you will experience the atmosphere in which even Frankfurt's most famous son, Johann Wolfgang Goethe, would still feel at home. Frankfurt also offers bold high-rise architecture that is just as attractive as the middle aged buildings in the downtown area.

You will find that there are offers for interesting and extensive city tours, cultural enjoyment and attractive shopping trips.

Together with your emc²⁰¹² registration, you will receive a ticket for free admission to 34 museums in Frankfurt that is valid from 2–7 September 2012.

Enjoy your stay in Frankfurt, the Mineralogy team will do its best to make this happen!



DEADLINE: 15 MAY 2012

For abstract submission, field trip and early registration



CALL FOR ABSTRACTS

We invite you to submit abstracts related to the following themes of emc²⁰¹²

MANTLE PETROLOGY AND GEOCHEMISTRY

- 1a Nature of the deep lithospheric mantle and interactions at the Lithosphere-aesthenosphere boundary (*Aulbach, Klemme, Tommasi*)
- 1b Geochemical evolution of the mantle: from the Hadean to modern signatures (*Weyer, Ionov*)
- 1c Mantle processes as revealed by trace elements, phase relations and redox state (*van Westrenen, Woodland*)
- 1d Earth's deep volatile cycle (*Kepler, Demouchy, Bromiley*)

MAGMATISM AND VOLCANOLOGY

- 2a Magmatic crystals as recorder of pre- and syn-eruptive processes: analysis, modelling and quantification (*Troll, Klügel, Wiesmaier*)
- 2b Crustal evolution in arc settings: magmatism, geochemical models and field observations (*Wörner, Holtz, Müntener*)
- 2c Experimental and observational constraints on the abundance and role of volatiles in magmas: from reservoirs to the surface (*Ulmer, Scaillet, Slaby*)

METAMORPHISM

- 3a Deciphering high grade metamorphic processes: trace elements, accessory minerals and isotopes (*O'Brien, Harley, Rubatto*)
- 3b Fluid release, fluid flow and mass transfer in metamorphic environments: nature and modelling (*Scambelluri, Tropper, John*)
- 3c Modelling phase equilibria in metamorphism (*Poli, Conolly*)

APPLIED MINERALOGY

- 4a Mineralogical aspects of CO₂ storage (*Soler, Liebscher, Wilkinson*)
- 4b Building materials and mineral processing (*Pöllmann, de Villiers*)
- 4c Medical and Environmental Mineralogy (*Fiore, Guattieri, Posfai, Gieré*)
- 4d Natural and synthetic host phases for radionuclides (*Patrick, Bosbach, Yudinsev, Gatta*)

MINERAL PHYSICS

- 5a Elasticity, plasticity, and rheology of minerals-implications for anisotropy and convection in the Earth (*Mainprice, Merkel*)
- 5b News from the Earth's interior: a mineral-physics approach (*Boffa-Ballaran, Angel, Fiquet*)
- 5c Advances in spectroscopy of Earth materials (*Wilke, McCammon, Stalder*)
- 5d Computational mineral physics (*Winkler, Jahn*)

MINERALOGICAL CRYSTALLOGRAPHY

- 6a Handling structural complexity: theoretical and experimental methods applied to unravel structural hierarchies (*Balic, Camara, Siidra*)
- 6b New minerals, classifications and related issues (*Pasero, Galuskin, Pekov*)

PLANETARY MATERIALS

- 7a Geochemistry and petrology of meteorites (*Palme, Folco, Russell*)
- 7b Planetary formation in the Early Solar system (*Mezger, Wade*)
- 7c Evolution of the continental crust (*Storey, Zeh, Roberts*)

MINERAL DEPOSITS AND RAW MATERIALS

- 8a Ore belts in Europe (*Alderton, Palinkas, Tornos, Fontboté*)
- 8b PGM and related accessory minerals in mafic-ultramafic rocks and unconventional deposits (*Ohnenstetter, Zaccarini, Vymazalova*)
- 8c Ore-forming hydrothermal processes (*Heinrich, Wilkinson*)
- 8d Critical raw materials for Europe (*Raith, Melcher*)

LOW T GEOCHEMISTRY

- 9a Water-rock interactions in natural and contaminated systems (*Bogush, Monnin, Zuddas*)

GEOCHRONOLOGY

- 10a Timing and rates of geological processes - geochronology in action (*Finger, Gerdes, Dobson*)
- 10b Isotope geochemistry: traditional and non-traditional, mass-dependent and non-mass-dependent (*Münker, Fiebig, Pack, Staubwasser*)

GEOBIOCHEMISTRY

- 11a Biologic mineralization and biomimetic model systems (*Schmahl, Rodriguez-Navarro, Benzerara*)
- 11b Geobiochemistry and mineralogy of mine waste: perspectives and future goals (*Hudson-Edwards, Morales, Majzlan*)

ADVANCED ANALYTICAL TECHNIQUES

- 12a Exploring the nanoworld: synchrotron and neutrons advances in environmental geochemistry and mineralogy (*Benning, Testemale, Rodriguez-Blanco, Artioli*)
- 12b Nano- to micro-scale platform in the geosciences: Advances in analytical techniques (*Ahmed, Rollinson, Mugnaioli*)

ARCHAEOMETRY, CARE AND PRESERVATION

- 13a Mineralogical sciences and cultural heritage (*Greiff, Ionescu, Quartieri*)

OPEN SESSION

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