German Mineralogical Society

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The First European Mineralogical Conference will be held this year from September 2–6 at the Johann Wolfgang Goethe-University in Frankfurt, Germany. This emc^{2}2012 meeting is intended as the beginning of a biennal series of conferences to be held in different host countries with the goal of furthering the exchange of new results and ideas in the material oriented geosciences at a European level. Ten mineralogical societies are participating in this first meeting:

DMG	Deutsche Mineralogische Gesellschaft
MinSoc	Mineralogical Society of Great Britain & Ireland
MinSocFin	Mineralogical Society of Finland
ÖMG	Österreichische Mineralogische Gesellschaft
PTMin	Mineralogical Society of Poland
RMS	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

Fourteen symposia themes were agreed upon by these societies under the general conference theme "Planet Earth from Core to Surface". Together, they cover a broad range of topics in mineralogy. Each theme is comprised of sessions that are listed below together with their designated convenors. The session titles and the support of the convenors fill us with great expectations for an exciting and stimulating conference. 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 medallists 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. The conference will close with a few one- or two-day excursions to the world famous Eifel volcanic field and to metamorphic terranes nearby. The social programme includes excursions to Heidelberg and a boat trip along the Rhine Valley with its famous castles, Unesco World Heritage Site.

The local scientific committee: **Gerhard Brey**, **Heidi Höfer**

Abstract submission deadline: **15 may 2012**

THEMES, SESSIONS AND CONVENORS AT EMC^{2}2012

MANTLE PETROLOGY AND GEOCHEMISTRY
1a Nature of the deep lithospheric mantle and interactions at the lithosphere-asthenosphere boundary (Aulbach, Klemme, Tommasi)
1b Geochemical evolution of the mantle: from the Hadean to modern signatures (Weyer, Ionov)
1c Mantle rocesses as revealed by trace elements, phase relations and redox state (van Vestrenen, Woodland)
1d Earth´s deep volatile cycle (Keppler, 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 istopes (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 CO_2 storage (Soler, Liebscher, Wilkinson)
4b Building materials and mineral processing (Pöllmann, de Villiers)
4c Medical and Environmental Mineralogy (Fiore, Gualtieri, Posfai, Gieré)
4d Natural and synthetic host phases for radionuclides (Pattrick, Bosbach, Yudintsev, 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)

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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