

Annual report of the IMA Working Group on Mineral Equilibria (WGME) for 2012

During 2012 the WGME have produced two Special Volumes:

1. Journal of Metamorphic Geology “Mineral transformations in HP-UHP metamorphic terranes: processes, experiments and observations” Scientific Editors: Dobrzhinetskaya, L., Faryad, W. and Hoinkes, G. (the volume is in production stage to be issued in January – February 2013)
2. Gondwana Research “Ultrahigh-pressure and high-pressure metamorphic terranes in orogenic belts: reactions, fluids and geological processes” Scientific Editors: Dobrzhinetskaya, L., Faryad, W., Hoinkes, G. and Zhang, J. (volume is in a production stage to be issued in January-February 2013).

During 2012 the WGME organized the following events:

Sessions at international conferences

1. American Geophysical Union Fall Meeting, San Francisco, USA, 3-7 December, 2012: Session V052. UHPM terranes: a look inside through mineralogy, mineral reactions, geochemistry, geochronology, tectonics and numerical/experimental modeling. Conveners: Larissa Dobrzhinetskaya, UC Riverside, USA; Yoshide Ogasawara, Waseda University, Tokyo, Japan; Alexander Zirkparvar, Syracuse University, USA.
2. Geological Society of America Annual Meeting; Charlotte, North Carolina, USA 4–7 November 2012. Session: T56. Phase Transformations and Geodynamics: Mineralogy in Action. (together with Mineralogical Society of America; American Geophysical Union; GSA Geophysics Division; GSA International Section). Conveners: Larissa Dobrzhinetskaya (UC Riverside, USA), Russell Hemley (Carnegie Institute, Washington, USA), Michael Brown (University of Maryland, USA).

Educational activity

3. 8th Annual International School on Earth Sciences – 2012 (ISES-2012) (2-9 September, Odessa, Ukraine). Chair-person of the School – Prof. Alexei L. Perchuk. The School was organized by the Department of Petrology of Moscow State University and the Department of General and Marine Geology of the Odessa National University. More than 50 scientific and teaching lectures are presented by professors, researchers, and young scientists from diverse Moscow State University, Ukrainian Universities (Odessa, Kiev), National University of Uzbekistan, Tbilisi State University (Georgia), Research Institutes of Russian Academy of Science (Institute of Experimental Mineralogy RAS, Institute of Geochemistry and Analytical Chemistry RAS, Institute of Ore Deposits Geology RAS, Geological Institute RAS, Geological Institute Karelian Branch RAS, Institute of Mineralogy of Ural Branch of RAS, Institute of Geochemistry Siberian Branch of RAS, Institute of Earth Crust Siberian Branch of RAS, Institute of Volcanology and Seismology Far East Branch of RAS), as well as from Ecole des Mines de Nantes (France) and GFZ (Germany). More than 20 undergraduate students, PhD students and young scientists from Russian and Ukrainian universities attended the I.S.E.S. Further information on the 8th I.S.E.S. and next-year 9th I.S.E.S. can be obtained from the new official Internet site <http://www.ises.su>.

4. Vice-chairman of WGME Prof. Larissa F. Dobrzhinetskaya (University California at Riverside) organized public lectures series: “Minerals in human life” for OSHER Life Learning Institute at the University of California Extension center. The OSHER Institute was established in 1977 by the Bernard Osher Foundation to benefit a wide range of educational and cultural activities for the fast growing ethnically and age diverse community interested in mineralogical applications for environmental, industrial challenges and impact on human health.

Executive secretary of the WGME

Prof. Oleg G. Safonov