

# Annual report of the IMA Working Group on Mineral Equilibria (WGME) for 2010

## *Official activity*

1. The WGME business meeting was held during IMA-2010 in Budapest (23.08.2010). During the meeting the WGME have selected new officials.

Chairman. Prof. Alexei L. Perchuk, Moscow State University, Geological Faculty, Department of Petrology, 119991, Moscow, Russia; [alp@geol.msu.ru](mailto:alp@geol.msu.ru)

Vise-chairman. Prof. Larissa F. Dobrzhinetskaya, Institute of Geophysics and Planetary Physics Department of Earth Sciences, University California at Riverside, Riverside CA 92521, USA; [larissa@ucr.edu](mailto:larissa@ucr.edu)

Executive Secretary. Prof. Oleg G. Safonov, Institute of Experimental Mineralogy, 142432, Chernogolovka, Moscow district, Russia; [oleg@iem.ac.ru](mailto:oleg@iem.ac.ru)

As a result, the WGME has changed both Chairman and Vise-chairman.

2. Prof. C. Srikantappa (University of Mysore, India) is selected as the new correspondent of the WGME in the IMA council.

## *Activity in 2010*

During 2010 the WGME organized and participated in the following events:

1. A special session GMPV19/GD2.14 entitled "Interplay between metamorphism, magmatism and geodynamics" was organized within the EGU-2010 meeting in Vienna, May 2-7, to commemorate an outstanding contribution to petrology by late Prof. Leonid Perchuk.

Conveners: L.Y. Aranovich, Institute of Ore Deposits, Moscow, Russia ([lyaranov@igem.ru](mailto:lyaranov@igem.ru)); T.V. Gerya, ETH Zentrum, Zürich, Switzerland ([taras.gerya@erdw.ethz.ch](mailto:taras.gerya@erdw.ethz.ch)); A.L. Perchuk, Moscow State University, Moscow, Russia ([alp@igem.ru](mailto:alp@igem.ru)); O.G. Safonov, Institute of Experimental Mineralogy, Chernogolovka, Russia ([oleg@iem.ac.ru](mailto:oleg@iem.ac.ru)).

2. 6<sup>th</sup> Annual International School on Earth Sciences – 2010 (ISES-2010) (2-9 September, Odessa, Ukraine). 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 have been presented by professors, researchers, and young scientists from diverse Russian State Universities (Moscow, Irkutsk, Ulan-Ude, St.-Petersburg, Petrozavodsk, Miass), Ukrainian National University (Odessa), Research Institutes of Russian Academy of Science (Institute of Experimental Mineralogy, Institute of Ore Deposits Geology, Institute of Precambrian Geology, Institute of Mineralogy of Ural Branch of RAS, Institute of Geochemistry Siberian Branch of RAS). 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 6<sup>th</sup> I.S.E.S. and next-year 7<sup>th</sup> I.S.E.S. can be obtained from the new official Internet site <http://www.ises.su>.

3. A book "Ultrahigh Pressure Metamorphism: 25 years after the discovery of coesite and diamond", Eds: L. Dobrzhinetskaya, S.W. Faryad, S. Wallis, S. Cuthbert) will be issued in Elsevier at March, 2011.

## *Planned activity in 2011*

1. The WGME has applied for organization of two special sessions at the Annual Goldschmidt Conference in Prague, Czech Republic, August 14-19, 2011.

(i) "Chlorine and chlorides in the upper mantle and lower crust: geochemical, petrological and experimental evidences", Conveners: V.S. Kamenetsky, O.G. Safonov, L. Y. Aranovich,

(ii) "Deep subduction of crustal rocks into the mantle: observations, experiments, models" Conveners: L. Dobrzhinetskaya, W. Faryad, A. Perchuk, T. Gerya

2. The WGME participates in Scientific Conference “Granulite and eclogite complexes in the Earth’s history” in Perozavodks, Russia, June 16-18, 2011. "Granulite and Eclogite Complexes in the Earth History".

3. 7<sup>th</sup> Annual International School on Earth Sciences (ISES-2011) – (2-9 September, 2011 Odessa, Ukraine) is being prepared by WGME.

Executive secretary of the WGME

Prof. Oleg G. Safonov