

# Annual report of the IMA Working Group on Mineral Equilibria (WGME) for 2005

**Title of the Working Group:** Working Group on Mineral Equilibria

## **Officers:**

*Chair of the WGME:* Prof. Leonid L. Perchuk, Moscow State University, Moscow, Russia.

*Vise-chair of the WGME:* Prof. M. Akaogi, Gakushuin University, Tokyo, Japan.

*Executive secretary of the WGME:* Dr. Oleg G. Safonov (reporter), Institute of Experimental Mineralogy, Russia.

**National representatives:** H.-J. Massone (University of Stuttgart, Germany), S. Poli (University of Milan, Italy), C. Chopin (E.N.S., France), S. K. Saxena (University of Florida, USA).

## **Overall objectives of the Com./WG**

The WGME includes geoscientists who works with the experimental and thermodynamic modeling of mineral equilibria and its application for deciphering of physico-chemical and geodynamic conditions of formation both magmatic and metamorphic rocks. From 1978 than the WG was organized, the major rule was to be open for everybody and its activity includes just two items: (1) international meetings and (2) special volume publications. Anyway, the WG includes about 10 constant members.

## **The main activities during 2005**

The WGME organized and participated in the following events:

1. The special session VGP27 “Exhumation of rocks metamorphosed under extreme conditions. UHP and UHT complexes: mechanisms, rates, models” (conveners Dr. Taras V. Gerya and Prof. Leonid L. Perchuk) has been organized at the European Geoscience Union Meeting (28 April 2005, Vienna, Austria). The session included 6 oral presentations.
2. The special volume of *Lithos* organized by the WGME is being prepared. This volume will include extended papers presented to the EGU meeting in Vienna 2005.
3. Annual International School on Geosciences - 2005, 2-8 September, Odessa, Ukraine.

## **Workplan for 2006**

1. The WGME is organizing two special sessions at European Geoscience Union Meeting-2006, Vienna, Austria:
  - Rates of tectono-metamorphic processes: insights from observations and numerical modeling  
Conveners: Dr. Taras V. Gerya and Prof. Leonid L. Perchuk
  - Experiment at HP-HT: application in geosciences. Conveners: Prof. Leonid L. Perchuk and Dr. Oleg G. Safonov
2. The WGME expects a special volume of *Lithos* summarizing the best results of the EGU-2006 symposia.
3. The WGME is organizing a special session “Phase transitions and thermodynamic modeling of minerals and rocks” at the IMA Meeting in Kobe, Japan. Conveners: Prof. M. Akaogi, Dr. Y. Fei, Dr. Stefano Poli, Prof S. K. Saxena.
4. Annual International School on Geosciences - 2006, 2-8 September, Odessa, Ukraine.

Potential targets includes a development of new methods for studying the mineral equilibria at HP-HT conditions. We believe that present officers are working successfully, and no recruitment of new officers is not planned.

## **Chief problem encountered in 2005**

Funding of officers for attending conferences organized by the WGME.

Executive secretary of the WGME

Dr. Oleg G. Safonov