

IMA
Commission on Mineral Growth and Interface Processes
(CMGIP)
2008 Annual Report to IUGS

<http://www.ima-mineralogy.org/com-wg/CMGIP/CMGIP.html>

Officers

- Katsuo Tsukamoto (Professor, Tohoku University, Japan) chairperson
- Andreas Luttmann (Professor, Rice University, Texas) vice-chairperson
- Jeanne Paquette (Associate Professor, McGill University, Canada) secretary

SCOPE

The scope of the CMGIP commission is to bring together experts in crystal growth and geoscientists interested in the rich range of phenomena associated with mineral crystallization and dissolution processes in nature. Although there has been interaction between the "crystal growth community" and geoscientists in the past, there is still a strong demand to strengthen and employ the most modern tools for "in situ" observation of these process and advanced ideas if we are to advance our understanding of these processes. Three major categories may be classified: (1) Interface phenomena on the molecular level, (2) mineral texture formation, (3) crystallization and dissolution mechanisms and (4) novel "in situ" techniques to visualize the process of nucleation and crystal growth.

Report of Activity in 2008

1. The 2nd Interface Mineralogy was planned to be held in Sendai in March 2009, as an extension of the 1st symposium (http://www.ganko.tohoku.ac.jp/shigen/tsukamoto/conference/Interface_mineralogy/index.html). Tsukamoto and Putnis will organize this symposium, which will be sponsored by Global Education and Research Center for Earth and Planetary Dynamics (GCOE), Tohoku University.
2. We collaborate with the commission of General Mineralogy to organize the session of General Contribution to Mineralogy, at IGC, Oslo. Tsukamoto acted as a keynote speaker and some of the CMGIP members successfully contributed to the session.
3. Andrew Putnis (U. Muenster, Germany) acted as liaison with the IGC 2008 meeting (Oslo) and organize a session on crystal growth.
4. Although no special sessions were held in the Goldschmidt conferences (2007) in Cologne, Germany, August 19-24, under the theme "Atoms to Planets", there were many young participants from many countries. Business meeting was held during the conference.
5. CMGIP. It should be noted that many students also attended from Japan.
6. CMGIP suggested J. M. Garcia Ruiz as the plenary speaker for crystal growth session at IUCr2008 in Osaka. The session was chaired by Tsukamoto. Tough discussion was made during the conference due to many contributions from wide area of crystal growth.
7. The 1st international workshop on "Crystallization in The Solar System 4.6 Billion Years Ago" will be held in Tohoku University on 19-20 November 2008. CMGIP is the co-sponsor of this workshop. This is the first approach for CMGIP to collaborate with scientists in astronomy and space science.

Related topics:

J. M. Garcia Ruiz will organize two workshops on "crystallization" in Granada in 2009. (
<http://lafactoria.lec.csic.es/iscgranada/>)(<http://www.isbcgranada.org/>)

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