Report of SIG 5

SIG5
Reported Period: June 2011 - May 2012
Report Date: June 1st, 2012
Reported by: Sergey Krivovich

1. Introduction.

In 2011-2012, main activity of the SIG5 was devoted to the organization of microsymposia at ECM27 in Bergen. SIG5 supports two microsymposia, MS15 and MS16, and is sponsoring three more microsymposia in collaboration with other SIGs. SIG5 continued promoting two poster prizes, for mineralogical crystallography (sponsored by EMU and restricted to young scientists up to 35-year old) and for inorganic crystallography (sponsored by Zeitschrift für Kristallographie). In 2011, the SIG5 was updated and moved to a new server in St. Petersburg, Russian Federation.

2. SIG web site:
A new and attractive website has been developed for SIG5, which contains a page with the last news and activities of SIG5, as well as a page with hot inorganic crystal structures recently published. A new logo has also been designed for SIG5. The address of this site is: http://sig5.ecanews.org/

3. Number of ECA individual members registered with the SIG according to (http://www.xray.cz/eca/im-payment.htm)
SIG5  Mineral and Inorganic Crystallography  89

4. Existence of a SIG mailing list Yes
   Address of the mailing list: http://listes.uhp-nancy.fr/wws/info/ecasig5 (please Sergey or Oleg, check this address which does not work any more… is there a new address for the mailing list? I am a bit surprised to see that it is still hosted in Nancy…).
   Number of members in the SIG mailing list: 144

5. Approximate total number of researchers involved in the SIG (please indicate the basis for the estimate) 144 (this is the number of members of the mailing list, i.e. number of researchers who explicitly indicate their involvement in the SIG)

6. List of MS organized by the SIG at the ECM 27
   Structural complexity of minerals and inorganic materials
   Minerals from Scandinavia: a unique crystal chemistry and inspiration for new materials
   sponsoring:
   Energy related materials
   Materials in operando and in situ crystallography of materials
   Structural and crystal-physical studies in large volume high-P devices

7. Prizes sponsored/coordinated
   EMU poster prize for Mineralogical Crystallography
   Zeitschrift für Kristallographie for Inorganic Crystallography
8. Past Activities other than Microsymposia at ECM

Title: Layered mineral structures and their applications
Number of Participants: 35
Level of involvement of SIG in the activity: SIG5 has given his support to this school.
  O ECA Individual members registered with the SIG involved in the organizing committee
  O ECA Individual members registered with the SIG involved as lecturers
  O endorsed (SIG logo on the web page/leaflets)
Sponsored by ECA
Other Sponsors/Organizers: 
Short Description: (25 words max.) This school was organized by the European Mineralogical Union (EMU) in Rome (Italy) from July 9th to 19th, 2011.

Title: XVII International conference on Crystal Chemistry, X-ray Diffraction and Spectroscopic studies of minerals
Number of Participants: 150
Level of involvement of SIG in the activity: SIG5 has given his support to this school.
  O ECA Individual members registered with the SIG involved in the organizing committee
Sergey Krivovichev
  O ECA Individual members registered with the SIG involved as lecturers 6 (W. Depmeier, O. Yakubovich, S.V. Krivovichev, V.S. Urusov, G. Ferraris, P. Paufler)
  O endorsed (SIG logo on the web page/leaflets) No
Sponsored by ECA? Yes
Other Sponsors/Organizers: IUCr, ECA-SIG5 plus a number of local bodies
Short Description: (25 words max.) Congress was held in St.Petersburg from 20th to 24th of June 2011. For more details see the website (http://onlinereg.ru/ccxrds)

Title: Trilateral Russian-French-German seminar 'Modern Inorganic Crystal Chemistry: Recent Advances and New Techniques
Number of Participants: 40
Level of involvement of SIG in the activity: SIG5 has given his support to this school.
  O ECA Individual members registered with the SIG involved in the organizing committee
Sergey Krivovichev
  O ECA Individual members registered with the SIG involved as lecturers 4 (W. Depmeier, O. Yakubovich, S.V. Krivovichev, V.S. Urusov)
  O endorsed (SIG logo on the web page/leaflets) Yes
Sponsored by ECA? Yes
Other Sponsors/Organizers: Russian Foundation for Basic research
Short Description: (25 words max.) The seminar was held in St.Petersburg from 24th to 25th of June 2011 and was devoted to recent advances in the field of inorganic crystal chemistry, incl. new techniques for evaluation, prediction and modeling of inorganic crystal structures.

Title: German – Russian bilateral symposium and excursion: Variability and complexity of minerals and their synthetic analogues of the Vulkaneifel and related provinces
(ftp://www.ckfs.uni-bremen.de/Projekte/2012_Eifel.htm)
Number of Participants: 20
Level of involvement of SIG in the activity: SIG5 has given his support to this school.
Report of SIG 5 (cont.)

O ECA Individual members registered with the SIG involved in the organizing committee
Sergey Krivovichev, Wulf Depmeier, Oleg Siidra
O ECA Individual members registered with the SIG involved as lecturers 3 (W. Depmeier, S.V. Krivovichev, O.I. Siidra)
O endorsed (SIG logo on the web page/leaflets) Yes
Sponsored by ECA? Yes
Other Sponsors/Organizers: Deutsche Forshungsgemeinschaft
Short Description: (25 words max.) The seminar was held in Bremen from 23\textsuperscript{th} to 24\textsuperscript{th} of May 2012 and was devoted to complex minerals originating from volcanic activity (in particular, those occurring in the Eifel area, Germany).


Title: Mineralogical Crystallography 2012; International seminar
Number of Participants: 50
Level of involvement of SIG in the activity: SIG5 has given his support to this school.
O ECA Individual members registered with the SIG involved in the organizing committee
Sergey Krivovichev
O ECA Individual members registered with the SIG involved as lecturers 1 (S.V. Krivovichev)
O endorsed (SIG logo on the web page/leaflets) No
Sponsored by ECA? Yes
Other Sponsors/Organizers: Russian Foundation for Basic Research
Short Description: (25 words max.) The seminar will be held in Syktyvkar (Russia) from 4\textsuperscript{th} to 7\textsuperscript{th} of June 2012 and will be devoted to recent advances in mineralogical crystallography, incl. structural mineralogy, crystal growth, etc.

Title: 1st European Mineralogical Conference
Number of Participants: 700
Level of involvement of SIG in the activity: SIG5 has given his support to this school.
O ECA Individual members registered with the SIG involved in the organizing committee
Sergey Krivovichev
O ECA Individual members registered with the SIG involved as lecturers not defined at the moment
O endorsed (SIG logo on the web page/leaflets) No
Sponsored by ECA? Yes
Other Sponsors/Organizers:
Short Description: (25 words max.) The 1st European Mineralogical Conference will be held in Frankfurt from 2 to 7 of September 2012. SIG5 is actively involved in organization of theme 6 - Mineralogical Crystallography (two microsymposia).

10. Other matters. (50 words max.)
None.
11. **Brief annual activity report** (100 words max.)

SIG5 is involved in the organization of the ECM27–Bremen. Several microsymposia are organized:

- Structural complexity of minerals and inorganic materials
- Minerals from Scandinavia: a unique crystal chemistry and inspiration for new materials New challenging inorganic materials.

12. **List SIG officers, name and e-mail, and specify their main function in the SIG:**

   **Chair** S.V. Krivovichev [skrivovi@mail.ru](mailto:skrivovi@mail.ru)
   **Vice-chair** Dr. Frédéric Hatert [fhatert@ulg.ac.be](mailto:fhatert@ulg.ac.be)
   **Secretary** Oleg Siidra [siidra@mail.ru](mailto:siidra@mail.ru)

**Supplementary Materials.**
- (List of all supplementary materials, if any, related to the SIG report)