

## **SIG5**

**Reported Period: June 2011- May 2012**

**Report Date: June 1<sup>st</sup>, 2012**

**Reported by: Sergey Krivovichev**

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### **1. Introduction.**

In 2011-2012, main activity of the SIG5 was devoted to the organization of microsymbosia at ECM27 in Bergen. SIG5 supports two microsymbosia, MS15 and MS16, and is sponsoring three more microsymbosia 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
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### **4. Existence of a SIG mailing list Yes**

**Address of the mailing list:** <http://listes.uhp-nancy.fr/www/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.

ECA Individual members registered with the SIG involved in the organizing committee

ECA Individual members registered with the SIG involved as lecturers

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 9<sup>th</sup> to 19<sup>th</sup>, 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.

ECA Individual members registered with the SIG involved in the organizing committee

Sergey Krivovichev

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)

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 20<sup>th</sup> to 24<sup>th</sup> 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.

ECA Individual members registered with the SIG involved in the organizing committee

Sergey Krivovichev

ECA Individual members registered with the SIG involved as lecturers 4 (W. Depmeier, O. Yakubovich, S.V. Krivovichev, V.S. Urusov)

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 24<sup>th</sup> to 25<sup>th</sup> 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

([http://www.ckfs.uni-bremen.de/Projekte/2012\\_Eifel.htm](http://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.



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Report of SIG 5 (cont.)

ECA Individual members registered with the SIG involved in the organizing committee  
Sergey Krivovichev, Wulf Depmeier, Oleg Siidra

ECA Individual members registered with the SIG involved as lecturers 3 (W. Depmeier, S.V. Krivovichev, O.I. Siidra)

endorsed (SIG logo on the web page/leaflets) Yes

Sponsored by ECA? Yes

Other Sponsors/Organizers: Deutsche Forschungsgemeinschaft

Short Description: (25 words max.) The seminar was held in Bremen from 23<sup>th</sup> to 24<sup>th</sup> of May 2012 and was devoted to complex minerals originating from volcanic activity (in particular, those occurring in the Eifel area, Germany).

### 9. Future/Programmed Activities.

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.

ECA Individual members registered with the SIG involved in the organizing committee  
Sergey Krivovichev, Vadim Urusov

ECA Individual members registered with the SIG involved as lecturers 1 (S.V. Krivovichev)

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<sup>th</sup> to 7<sup>th</sup> 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.

ECA Individual members registered with the SIG involved in the organizing committee  
Sergey Krivovichev

ECA Individual members registered with the SIG involved as lecturers not defined at the moment

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 microsymbosia).

### 10. Other matters. (50 words max.)

None.



## Report of SIG 5 (cont.)

### 11. Brief annual activity report (100 words max.)

SIG5 is involved in the organization of the ECM27–Bremen. Several microsymbiosia 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)