

SIG5

Reported Period: September 2018- August 2019

Report Date: August 2nd, 2019

Reported by: Oleg Siidra

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1. Introduction.

In 2018-2019, main activity of the SIG5 was devoted to the organization of microsymbiosia at ECM32 in Vienna.

2. SIG web site:

SIG5 <http://sig5.ecanews.org/>

Facebook page <https://www.facebook.com/groups/253256622175656/>

3. Number of ECA individual members registered with the SIG5 according to ECA website:

90

4. Existence of a SIG mailing list Yes (general renewal is required)

Number of members in the SIG mailing list: 164

5. Approximate total number of researchers involved in the SIG (please indicate the basis for the estimate) 164 (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 32

a) Microsymbiosia

MS13 Biomineralogy and Bioinspired Materials

Chairs – Wolfgang Schmahl and Linda Pastero

Topic - Structural characterization of biominerals, which are produced by living organisms. Development of new materials, with crystallographic or morphologic properties inspired by biology.

MS14 Mineralogical and Inorganic Crystallography

Chairs – Frédéric Hatert and Marie Colmont

Topic - The structural characterization of minerals or inorganic compounds.

MS15 Minerals and Materials Under Extreme Conditions

Chairs – Paul Attfield and Hubert Huppertz

Topic - Crystallography of minerals and materials under extreme conditions including e.g. high pressure, extreme temperatures, magnetic and electric fields.

b) Keynotes lectures:

Luca Bindi (Universita di Firenze, Italy)

KN03 - Solar System Secrets Hidden in Quasicrystals

Chair: Ronan McGrath

Elena Bykova (Bayerisches Geoinstitut, Germany)
KN07 - Chemistry and Crystallography at Ultra-High Pressures
Chair: Daniel Többens
Helmholtz Zentrum Berlin
Germany

c) Poster Prize

SIG05 proposes to organize a poster prize in collaboration with IMA (International mineralogical association) for the poster from young scientist devoted to mineralogical crystallography.

8. Past Activities other than Microsymposia at ECM

Title: **ECSSC17 European Conference of Solid State Chemistry**

<https://ecssc17.com/>

Number of Participants: 1000

Level of involvement of SIG in the activity: SIG5 gave his support and organization of 5 MS.

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

5 ECA Individual members registered with the SIG involved as lecturers

Sponsored by ECA? No

Short Description: (25 words max.) **ECSSC17 European Conference of Solid State Chemistry** will be between the 1st and 4th of September 2019 at the University of Lille. This meeting is a joint conference amongst the European chemical societies.

Title: **MEETICC – Matériaux, Etats Electroniques, Interactions et Couplages non-Conventionnels**

<https://meeticc2019.sciencesconf.org/?forward-action=index&forward-controller=index&lang=en>

Number of Participants: 300

Level of involvement of SIG in the activity: SIG5 gave his support and organization of the conference in general and several MS.

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

7 ECA Individual members registered with the SIG involved as lecturers

Sponsored by ECA? No

Short Description: (25 words max.) **MEETICC** was held between the 28th and 31st of January 2019 in Dunkerque (France).

Title: **XIX International Meeting on Crystal Chemistry, X-ray Diffraction and Spectroscopy of Minerals**

<https://www.ksc.ru/en/xrd2019/>

Number of Participants: 200

Level of involvement of SIG in the activity: SIG5 gave his support and organization of the conference in general and several MS.

10 ECA Individual members registered with the SIG involved in the organizing committee
40 ECA Individual members registered with the SIG involved as lecturers

Sponsored by IUCr.

Short Description: (25 words max.) The conference was held between the 2nd and 5th of July 2019 in Apatity (Russia).

9. Future/Programmed Activities.

Title: **Twenty-Fifth Congress and General Assembly of the International Union of Crystallography**

<https://www.xray.cz/iucr/>

Number of Participants: 1500

Level of involvement of SIG in the activity: SIG5 will give his support and organization of ~5 MS.

10. Other matters. (50 words max.)

None.

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

SIG5 was involved in the organization of the ECM32-Vienna. Three microsymbiosia were organized. Two plenary speakers were accepted. Officers and many members of SIG 5 were also intensively involved in the organization of the following conferences: ECSSC17 European Conference of Solid State Chemistry, MEETICC – Matériaux, Etats Electroniques, Interactions et Couplages non-Conventionnels, XIX International Meeting on Crystal Chemistry, X-ray Diffraction and Spectroscopy of Minerals.

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

Chair Dr. Marie Colmont marie.colmont@univ-lille.fr

Vice-chair Prof. Dr. S.V. Krivovichev skrivovi@mail.ru

Secretary Dr. Oleg Siidra o.siidra@spbu.ru