

SIG5

Reported Period: September 2022- August 2023

Report Date: September 6th, 2023

Reported by: Oleg Siidra, Isabella Pignatelli, Sergey Krivovichev

=====

1. Introduction.

SIG5 focus on the fine-scale characterization of the structure and properties of minerals and related inorganic compounds. Attention is paid for the development of theoretical and experimental methods to investigate their crystal-chemistry and crystal structures.

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. Past Activities

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

<https://www.iucr.org/iucr/cong/2023-iucr-xxvi>

Number of Participants: 1500

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

Title: Summer School on Mathematical Crystallography (12-16 June 2023, Nancy, France)
(<https://crm2.univ-lorraine.fr/nancy2023/>)

Number of Participants: 28 participants

Level of involvement of SIG in the activity: SIG5/ECA individual member (Prof. M. Nespolo) was involved in the organizing committee, as well as teacher; in addition I. Pignatelli was involved as tutor.

Endorsed (SIG logo on the web page/leaflets): Yes

Sponsored by ECA? Yes

Short Description: The program is based on an in-depth analysis of crystallographic symmetry, with many exercises on the use of the International Tables for Crystallography and the Bilbao crystallographic server, as well as a day dedicated to the structure solution and refinement of crystal structures with Jana2020.

7. Future/Programmed Activities.

Title: **34rd European Crystallographic Meeting**

<https://www.ecm34.org/>

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

Title: **4th European Mineralogical conference**

<https://emc-2024.org/>

Level of Level of involvement of SIG in the activity: SIG5/ECA individual members will be involved as chairs of sessions.

8. Other matters. (50 words max.)

None.

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

SIG5 keeps promoting activities aimed to enhance the interest towards Mineral & Inorganic Crystallography. However, one of the representative of this interest group changed this year, so the new team of representative is working together to improve our activities in the international scientific community in the next future.

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

Chair Dr. Isabella Pignatelli isabella.pignatelli@univ-lorraine.fr

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

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