

***SIG3 - Special Interest Group on Aperiodic Crystals***

***Reported Period: July 2022 - June 2023***

***Report Date: 15.9.2023***

***Reported by: Michal Dusek (Secretary)***

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**1. Introduction.**

The activities of SIG#3 concentrate on spreading the knowledge about aperiodic crystallography in conferences and workshops as well as through the WEB site on Aperiodic Crystals.

**2. SIG website:**

SIG3 has a website common with IUCr Commission on Aperiodic Crystals (CAC). The following links refer to the same website:

<http://sig3.ecanews.org>

<http://aperiodic.iucr.org>

**3. Existence of a SIG mailing list: Yes**

Address of the mailing list: none

Number of members in the SIG mailing list : 31

Currently, we maintain only a distribution list for making various announcements. People interested in this mailing list can subscribe through the SIG#3 web page. In fact, there is almost no interest in this form of communication.

**4. Approximate total number of researchers involved in the SIG (please indicate the basis for the estimate)**

120 (estimate based on the attendance of MS organized by SIG#3, the interest in giving lectures in those MS, attendance of the Aperiodic conferences, and the number of individual members.)

**5. List of MS, plenary and keynote lectures with the SIG participation at the last ECM Meeting**

ECM meeting has not been organised

**6. Prizes sponsored/coordinated**

none

**7. Past Activities other than Microsymposia at ECM meeting**

**Title: ECM33 (23-27 August 2022, Versailles, France)**

Number of Participants: ~1000

Level of involvement of SIG in the activity:

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

ECA Individual members registered with the SIG involved as lecturers

Other Sponsors/Organizers: ECA

Short Description: Members of SIG3 participated in lectures and organization of microsymposia

**Title: 15<sup>th</sup> International Conference on Quasicrystals (18-23 June 2023, Tel Aviv, Israel)**

Number of Participants: ~50

Level of involvement of SIG in the activity:

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

ECA Individual members registered with the SIG involved as lecturers

Other Sponsors/Organizers: IUCr

Short Description: Members of SIG3 were involved in lectures and organization of microsymbosia

**Title: MaThCryst school (12-16 June 2023, Nancy, France)**

Number of Participants: ~25

Level of involvement of SIG in the activity:

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

ECA Individual members registered with the SIG involved as lecturers

Other Sponsors/Organizers: IUCr Commission on Mathematical and Theoretical Crystallography

Short Description: Members of SIG3 were involved in lectures and organization of microsymbosia

## **9. Future/Programmed Activities (July 2023 – June 2024)**

**Title: Twenty-Sixth Congress and General Assembly of the International Union of Crystallography (22-29 August 2023, Sydney, Australia)**

Number of Participants: ~2000 (hybrid meeting)

Level of involvement of SIG in the activity:

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

ECA Individual members registered with the SIG involved as lecturers

Other Sponsors/Organizers: IUCr

Short Description: Members of SIG3 will participate in lectures and organization of microsymbosia.

**Title: Jana Ad Hoc Workshops (Prague, Czech Republic)**

Number of Participants: ~20

Level of involvement of SIG in the activity:

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? No

Other Sponsors/Organizers: Institute of Physics, Prague

Short Description: Small workshop on various topics connected with software Jana2006. Members of SIG3 will be the main organisers of the event.

**Title: 10<sup>th</sup> workshop on Structural Analysis of Aperiodic Crystals (March 2024, Bayreuth, Germany) (planned but not yet announced)**

Number of Participants: ~30

Level of involvement of SIG in the activity:

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

ECA Individual members registered with the SIG involved as lecturers

Other Sponsors/Organizers:

Short Description: Members of SIG3 will participate in lectures and organization of microsymbosia

**Title: JANA2020 Workshop @ MLZ (18-20 October 2023, Garching, Germany)**

Number of Participants: ~30

Level of involvement of SIG in the activity:

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

O ECA Individual members registered with the SIG involved as lecturers

Other Sponsors/Organizers:

Short Description: Members of SIG3 will participate in lectures and organization of microsymbosia

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

Michael Baake, Professor of Mathematics at Bielefeld University, Germany, received the Jean Marie Dubois Award in recognition of his development of mathematical tools that relate sets of point scatterers to their diffraction patterns, thereby elucidating the notions of an aperiodic crystal and of long-range structural order.

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

Activities of SIG#3 were focused on workshops and conferences. The most notable event in the field of aperiodic crystallography was the 15th International Conference on Quasicrystals in Tel Aviv.

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

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**Supplementary Materials.**

None