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 web site:

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. Number of ECA individual members registered with the SIG according to (http://www.xray.cz/eca/im-payment.htm)

91

4. Existence of a SIG mailing list: Yes

Address of the mailing list: none
Number of members in the SIG mailing list: 29
Currently we maintain only distribution list for making various announcements. People interested in this mailing list can subscribe through the SIG#3 web page.

5. 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 number of individual members.)

6. List of MS, plenary and keynote lectures organized by the SIG at the last ECM

ECM30, Basel, Switzerland, 28 August – 1 September 2016

• Lecture during the Max Perutz Prize ceremony: Václav Petříček – “On the fascinating way from abstract superspace theory to the practical structure analysis of modulated and composite crystals”
• MS 22. Beyond multipolar refinement
• MS 23. Charge and spin density of materials at extreme conditions
• MS 24. Inorganic and metal-organic magnetic structures
• MS 25. Quasicrystal and approximant: structure and properties
• MS 26. Incommensurate modulated and composite phases
• MS 27. Dynamical refinement of electron diffraction data
• MS 28. New approaches in electron crystallography

7. Prizes sponsored/coordinated

We acknowledge the award of the 9th Max Perutz Prize of the European Crystallographic Association to Vaclav Petricek “in recognition of his practical application of the theory of aperiodic structures in the widely used computing system JANA”. The prize was awarded at the 30th Meeting of the European Crystallographic Association ECM30 in Basel, Switzerland.
8. Past Activities other than Microsymposia at IUCr congress

Title: The 30th Meeting of the European Crystallographic Association (28 August – 1 September 2016, Basel, Switzerland)
Number of Participants: ~800
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: IUCr
Short Description: Members of SIG3 will participate in lectures and organization of microsymposia

Title: 9th Workshop on Structural Analysis of Aperiodic Crystals (23-26 March 2017, Bayreuth, 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
- O endorsed (SIG logo on the web page/leaflets)
Sponsored by ECA? No
Other Sponsors/Organizers: German Association for Crystallography, university of Bayreuth
Short Description: Four-day workshop about aperiodic structures covering the underlying theory and practical structure analysis.

Title: 13th International Conference on Quasicrystals (ICQ13), (18-23 September 2016, Kathmandu, Nepal)
Number of Participants: 98
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
Sponsored by ECA? No
Other Sponsors/Organizers: IUCr + commercial sponzors, university of Liverpool
Short Description: Six-day conference bringing together specialists in quasicrystals

Title: Jana Ad Hoc Workshops (Prague, Czech Republic)
Four workshops (30-32) listed in http://jana.fzu.cz
Number of Participants: 32
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
- O 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
Title: workshop New Trends in Magnetic Structure Determination (12-16 December 2016, Institut Laue-Langevin, France)
Number of Participants: 40
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
  O endorsed (SIG logo on the web page/leaflets)
Sponsored by ECA? No
Other Sponsors/Organizers: IUCr, ILL
Short Description: Five-day workshop about magnetic structures.

Title: workshop Open space between aperiodic order and strong electronic correlations (19-22 June 2017, Annecy, France)
Number of Participants: 50
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
  O endorsed (SIG logo on the web page/leaflets)
Sponsored by ECA? No
Other Sponsors/Organizers: Université Grenoble Alpes + commercial sponsors
Short Description: Four-day workshop about aperiodic order and electronic properties.


Title: Twenty-Fourth Congress and General Assembly of the International Union of Crystallography (Hyderabad, India)
Number of Participants: ~1200
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: IUCr
Short Description: Members of SIG3 will participate in lectures and organization of microsymposia

Title: 9th International Conference on Aperiodic Crystals (Aperiodic 2018) (Ames, Iowa, USA)
Number of Participants: ~120
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
  O endorsed (SIG logo on the web page/leaflets)
Sponsored by ECA? No
Other Sponsors/Organizers: IUCr
Description: A conference about theoretical and practical aspects of aperiodic structures

Title: Jana Ad Hoc Workshops (Prague, Czech Republic) (~ five workshops during the next year)
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
- O 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

10. Other matters. (50 words max.)

11. Brief annual activity report (100 words max.)
Activities of SIG#3 were focused on workshops and conferences and WEB activities. Most notable events in the field of aperiodic crystallography were the Aperiodic2015 conference in Prague and The 3rd International School on Aperiodic Crystals in Antwerp.

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

<table>
<thead>
<tr>
<th>Name</th>
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<th>Function</th>
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Supplementary Materials.
None