

SIG3

Reported Period: 2010-2011

Report Date: 25 May 2011

Reported by: Sander van Smaalen (Chair) and Michal Dusek (Secretary)

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1. Introduction.

The activities of SIG#3 concentrate on conferences and workshops as well as on the maintenance of a WEB site on Aperiodic Crystals.

2. SIG web site:

SIG3 <http://sig3.ecanews.org/>

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

38

4. Existence of a SIG mailing list: YES.

Address of the mailing list: none

Number of members in the SIG mailing list : 22

People interested in SIG3 mailing list can subscribe through SIG3 web page. Although the web page has good attendance only 22 people have subscribed during the last 2 years. Obviously, the community is not interested in another mailing list. The existing list of 22 people will be used for informing about important workshops/conferences/achievements.

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

50 (estimate based on the attendance of MS organized by SIG3, the interest in giving lectures in those MS and similar measures.)

6. List of MS organized by the SIG at the last ECM

FA2–MS13: Complex metallic alloys. Marc de Boissieu (chair), Grygoriy Dmytriv (co-chair)

FA3–MS21: Aperiodic order: experiment and simulation. Manuel Perez-Mato (chair), Nadezhda Bolotina (co-chair)

FA3–MS23: Aperiodic composite structures. Olivier Perez (chair), Lukas Palatinus (co-chair)

FA2–MS18: Open structures and modulated crystals at non-ambient conditions. Olga Degtyareva (chair), Vaclav Petricek (co-chair)

7. Prizes sponsored/coordinated

Jean Marie Dubois Award to Marc de Boissieu (The 11th International Conference on Quasicrystals).

8. Past Activities other than Microsymposia at ECM

Title: The 11th International Conference on Quasicrystals (ICQ11), June 2010, Sapporo, Japan.

Number of Participants: 120 (estimated).

Level of involvement of SIG in the activity:

ECA Individual Members registered with the SIG were involved as lecturer.

Not sponsored by ECA.

Sponsors/Organizers: Hokkaido University, Japan.

Short Description: ICQ11 has provided an excellent opportunity to learn about new developments in the field of quasicrystals and related crystalline materials. For details see

<http://icq11.eng.hokudai.ac.jp/icq11/>

Title: International School on Aperiodic Crystals, September 2010, Carqueiranne, France.

Number of Participants: 60

Level of involvement of SIG in the activity: Local organisation by ECA Individual member registered with SIG3. ECA Individual members registered with the SIG involved as lecturer

Not sponsored by ECA.

Sponsors/Organizers: IUCr commission on Aperiodic Crystals.

Short Description: School on various aspects of superspace crystallography. For details see sig3.ecanews.org/isac2010/isac2010.html

Title: Workshop on Jana2006, September 2010, Max Planck Institute, Dresden, Germany.

Number of Participants: 30

Level of involvement of SIG in the activity: Local organisation by ECA Individual member registered with SIG3. ECA Individual members registered with the SIG involved as lecturer

Not sponsored by ECA.

Sponsors/Organizers: Max Planck Institute Dresden

Short Description: Course on the crystallographic software Jana2006 applied to inorganic structures and charge densities

Title: Ad Hoc workshop on Jana2006, No 4,5,6,7,8.

Number of Participants: 50 (together).

Level of involvement of SIG in the activity: ECA Individual Members registered with the SIG organised the workshops and did the lectures and teaching.

Not sponsored by ECA.

Sponsors/Organizers: Institute of Physics, Prague.

Short Description: Small workshops organized on various topics about Jana2006. Participants select the topics through jana.fzu.cz and workshops are organized continuously. For details see jana.fzu.cz.

Title: 7th Workshop on Structural Analysis of Aperiodic Crystals, March 2011, Bayreuth, Germany.

Number of Participants: 32

Level of involvement of SIG in the activity: Local organisation by ECA Individual member registered with SIG3. ECA Individual members registered with the SIG involved as lecturer

Not sponsored by ECA.

Sponsors/Organizers: German Crystallographic Association (DGK); Laboratory of Crystallography of the University of Bayreuth, Germany.

Short Description: Course on superspace crystallography. For details see <http://old.crystal.uni-bayreuth.de/ap-workshop2011/>

Title: 2nd Shanghai Workshop of X-Ray Crystallography, 28-31 March 2011, Shanghai, PR China.
Number of Participants: 50
Level of involvement of SIG in the activity: ECA Individual members registered with the SIG involved as lecturer and teacher.
Not sponsored by ECA.
Sponsors/Organizers: IUCr
Short Description: Among other activities: introduction to the software Jana2006.

Title: 2nd international workshop on x-ray diffraction - modulated and incommensurate structures, October 2010, Sfax, Tunisia.
Number of Participants: 60
Level of involvement of SIG in the activity: ECA Individual members registered with the SIG involved as lecturer and teacher.
Not sponsored by ECA.
Sponsors/Organizers: Faculty of Science in Sfax, Tunis ElManar university and Institute of Physics in Prague
Short Description: Workshop on crystal structure determination, both 3d and incommensurate structures. Among other activities: introduction to the software Jana2006.

9. Future/Programmed Activities.

Title: XXII Congress of the IUCr, August 2011, Madrid, Spain.
Number of Participants: unknown.
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.
Sponsored by ECA?: unknown.
Short Description: Several microsymbosia and keynote lectures will be organised on topics related to aperiodic crystals.

Title: Aperiodic crystals for beginners (satellite meeting to the XXII Congress of the IUCr), 31 August – 1 September 2011, Alcalá de Henares, Spain.
Number of Participants: 25-50.
Level of involvement of SIG in the activity: ECA Individual members registered with the SIG are involved as organizers, lecturers and teachers.
Not sponsored by ECA.
Sponsors/Organizers:
Short Description: Workshop providing an introduction to all aspects of aperiodic crystals.

Title: Ad Hoc workshops on Jana (max five workshops during the next year, Prague)
Number of Participants: 25-50.
Level of involvement of SIG in the activity: ECA Individual members registered with the SIG involved as organizers, lecturers and teachers
Not sponsored by ECA.
Sponsors/Organizers: Institute of Physics, Prague.
Short Description: Small workshops organized on various topics about Jana2006. Participants select the topics through jana.fzu.cz and workshops are organized continuously.

Title: Aperiodic 2012, 2-7 September 2012, Cairns, Australia, 7th installment of the triennial conference on aperiodic crystals.

Number of Participants: 100.

Level of involvement of SIG in the activity: ECA Individual members registered with the SIG involved as lecturers.

Not sponsored by ECA.

Sponsors/Organizers: The Australian National University

Short Description: Conference covering all aspects of aperiodic crystals.

10. Other matters. (50 words max.)

The web page of SIG#3 at <http://sig3.ecanews.org/> is maintained by Michal Dusek. It contains information on conferences, computer programs, research groups on aperiodic crystals and publications dealing with aperiodic crystals with weekly updates.

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

Activities of SIG#3 were focused on workshops and conferences. Most notably is the involvement of members of SIG#3 in School on aperiodic crystals in La Valérane- Carqueiranne and in organization of the biennial Workshop on aperiodic structures in Bayreuth. The new format of Jana ad hoc workshops has proved to be useful and widely visited.

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

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Supplementary Materials.

None.