

SIG13

Reported Period: June 2014 –June 2015

Report Date:

Reported by: Alessandra Crispini (SIG Chair)

1. Introduction. (50 words max.)

During the last year the SIG13 committee has reinforced both the reorganisation and promotion of the SIG to the structural science community, participating actively in the scientific organization of the ECM29 next coming meeting to be held in Rovinj, Croatia.

SIG13 representatives have been active in the development of the programme for the ECM29 meeting and have made major contributions to the setting up, in strong collaboration with other SIGs. In particular, Prof. Paola Paoli has strongly contributed to the development of the ECM29 scientific program within the SIG13 community.

All SIG13 members are involved actively in the celebration of IYCr2014 with various activities. In particular Prof. Alessandra Crispini, together with other SIG13 members, has been involved in the organization of an MS (Chimica Strutturale) within the meeting of the Italian Chemical Society, XXV Congresso Nazionale della Società Chimica Italiana, totally devoted towards the studies of relationship between structures and properties in organic and inorganic materials. Moreover, especially for the celebration the celebration of IYCr2014 one of the plenary lectures has been reserved as Nobel Lecture for Prof. Venkatraman Ramakrishnan on “The use of recent advances in electron microscopy to study ribosome structures”.

2. SIG web site:

SIG13 <http://sig13.ecanews.org/>

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

SIG13 Molecular Structure and Chemical Properties 315

4. Existence of a SIG mailing list: Yes

Address of the mailing list: ECA-SIG13@chem.pmf.hr

<http://www.facebook.com/pages/ECA-SIG13/137466489407#!>

Number of members in the SIG mailing list: 296

Through the ECA-SIG13 Facebook home page is possible to advertise all events related to our activities: <http://www.facebook.com/pages/ECA-SIG13/137466489407#!>

5. Approximate total number of researchers involved in the SIG (please indicate the basis for the estimate) 120 from ECA registration but additional contacts through French, British, Italian and Spanish Crystallographic Associations.

6. List of MS organized and proposed by the SIG (also in collaboration with other SIGs) at the ECM29

MS Title / SIG

17 In situ and in operando crystallography (SIG11, SIG12, SIG13)

19 Topology of crystal structures (SIG5, SIG12, SIG13)

20 High-pressure solid-state chemistry (SIG11, SIG12, SIG13)

- 21 Advances in high-pressure methods (SIG11, SIG13)
- 30 Structure and function in coordination compounds (SIG13)
- 31 Tailored physical properties in molecular crystals (SIG13)
- 32 Halogen bonding in the solid state (SIG7, SIG13)
- 33 Mechanical effects and properties of ordered matter (SIG13)
- 35 Dynamics in nanoporous molecular crystals (SIG13)

7. Prizes sponsored/coordinated

none

8. Past Activities other than Microsymposia at ECM

Title: XXV Congresso Nazionale della Società Chimica Italiana

7-12 September, 2014, Rende UNICAL, Italy

Number of participants: 3000

Level of involvement of SIG in the activity:

several SIG members into the Organizing Committee

Sponsored by ECA: no

Other Sponsors/Organizers: SCI, AIC

Short Description: To celebrate the International Year of Crystallography (IYCr 2014), a special MS titled "Chimica Strutturale" has been organized, inviting as plenary lecturer Prof. Gautham Desiraju and KN speakers several relevant crystallographers working in fields both of organic and inorganic chemistry.

Title: Contemporary Crystallography in Croatia, Croatian Academy of Science and Arts, Zagreb, Croatia, September 30, 2014

Number of Participants: 80

Level of involvement of SIG in the activity: ECA Individual members registered, some SIG13 members in the organizing committee

Sponsored by ECA: no

Other Sponsors/Organizers: usual commercial sponsors

Short description: The meeting *Contemporary Crystallography in Croatia, Croatian Academy of Science and Arts, Zagreb, Croatia, September 30, 2014* is organized by Croatian Crystallographic Association (CCA) and Croatian Association of Crystallographers (CAC) to celebrate the International Year of Crystallography (IYCr 2014).

9. Future/Programmed Activities.

Title: 15th BCA/CCG Intensive Teaching School in X-Ray Structure Analysis

21st March - 29th March 2015, Trevelyan College, Durham, UK

Number of participants: 50-80

Level of SIG involvement: A number of the lecturers and tutors are SIG members.

Sponsored by the ECA: No

Other sponsors: usual commercial sponsors.

Short description: The school is intended primarily for younger scientists **with some experience of structure analysis** who wish to improve their understanding of the underlying principles and practice.

10. Other matters. (50 words max.)

SIG13 is continuing in the promotion of the structural chemistry at all levels, participating in “crystallographic schools” across the European Economic Community. Members will also participate in the Networks and Programmes set up by the European Research Council (and some of the national Research Councils) with the aim to provide a better understanding of structure/property relationships in solid state materials.

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

The SIG13 Committee has worked actively on the two main goals within its remit: (i) the promotion of “Molecular Structure and Chemical Properties” through greater publicity for the SIG, particular through its new website; (ii) by participating effectively in the planning process for the upcoming ECM and other meetings in crystallography.

The SIG Committee has met at the ECM and has corresponded regularly by e-mail, and has encouraged participation of SIG members at relevant national and international meetings. There has also been regular exchange of information between the SIG and officers of the IUCr Commission for Structural Chemistry to the benefit of both organisations.

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

* *Chair:* Prof. Alessandra Crispini (responsible for the general coordination of the SIG, and specially for interacting with the steering committee)
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* *Co-chair:* Prof. Paul R. Raithby (responsible for coordination of the SIG activities and for implementing/distributing news of SIG interest)
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* *Secretary:* Prof. Marijana Đaković (responsible for the SIG web-page and for maintaining the SIG13 mailing list)
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