

SIG No: 11

Reported Period: 2014-2015

Report Date: 17.07.2015

Reported by: Karen Friese, Leonid Dubrovinsky, Yaroslav Filinchuk

1. Introduction. (50 words max.)

Due to the fact that in 2014 no ECM conference took place, most of the activities of the SIG were directed to the participation in the IUCr meeting in Montreal. Otherwise the activities of the SIG concentrated on active participation in workshops and conferences. SIG11 is also deeply involved in planning activities and developing experimental set-ups for beamlines at large-scale facilities, in particular at the ESRF, PETRAIII, and the MLZ. Webpage and Mailing list of SIG11 are fully operational.

2. SIG web site:

The webpage of SIG11 is fully operational. However, it was not possible to get our webpage linked to the ECA webpage.

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

SIG 11	Crystallography under Extreme Conditions	~80
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4. Existence of a SIG mailing list: Yes

Address of the mailing list: <http://list.ehu.es/mailman/listinfo/ecasig11>

Number of members in the SIG mailing list: 134

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

About 200 people based on the number of participants of MS at ECM26/27 and special sessions at IUCr, EHPRG and AIRAPT organised or co-organized by SIG11, and the number of members of the SIG mailing list.

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

In 2014 there was no ECM organized. At the IUCr meeting in Montreal there were a series of MS closely related to the main topics of SIG11:

- Extending the power of powder diffraction for structure solution (Chaired by SIG officer)
- In Situ Crystallography under External Stimuli
- High Pressure Crystallography of Periodic and Aperiodic Crystals (Chaired by individual members of the SIG)
- Advances in Experimental Techniques and Data Analysis for Science at Extreme Conditions
- Electronic and Magnetic Phenomena at Extreme Conditions (Chaired by Sig Officer)
- High Pressure Solid State Chemistry and Materials Synthesis
- From Exo-Planets to Explosives: Ices and Other Molecular Compounds under Pressure
- Liquids, Amorphous and Nanocrystalline Solids at Extreme Conditions

SIG officers and individual members of SIG11 were involved in the organisation and several contributions. One of the SIG officers was a keynote lecturer at the IUCr.

7. Prizes sponsored/coordinated

8. Past Activities other than Microsymposia at ECM

Title: High Pressure in Semiconductor Physics, August 2014, Mexico City, Mexico

Number of Participants: 90

Level of involvement of SIG in the activity:

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

x ECA Individual members registered with the SIG involved as lecturers

Other Sponsors/Organizers:

Short Description: Meeting dedicated to high pressure applications on semiconductors

Title: European High Pressure Research Group Meeting, September 2014, Lyon, France

Number of Participants: 250

Level of involvement of SIG in the activity:

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

x ECA Individual members registered with the SIG involved as lecturers

Sponsored by ECA? No

Other Sponsors/Organizers:

Short Description: The EHPRG was a large scope conference. Several sessions were dedicated to subjects closely related to high-pressure crystallography; SIG11 participated in advertising the conference and in the organisation of several sessions.

Title: 23rd Annual Conference of the German Crystallographic Society, Göttingen 2015

Number of Participants:

Level of involvement of SIG in the activity:

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

x ECA Individual members registered with the SIG involved as lecturers

Sponsored by ECA? No

Other Sponsors/Organizers:

Short Description: Several MS dedicated to topics of the SIG were organized.

9. Future/Programmed Activities.

SIG11 is involved in the organization of 6 microsymposia and one satellite workshop related to extreme conditions for the ECM29 in Rovinj, Croatia and has already suggested MS for the ECM in Basel. Other plans for workshops/conferences in which individual members of the SIG are involved include the following:

Title: Joint AIRPAPT-25 & EHPRG-53: International Conference on High Pressure Science and Technology, Madrid 2015

Number of Participants:

Level of involvement of SIG in the activity:

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

x ECA Individual members registered with the SIG involved as lecturers

Sponsored by ECA? No

Other Sponsors/Organizers:

Short Description: Large international conference related to all subjects concerning High pressure techniques and applications

Title: Erice School 2016: High-pressure crystallography: Status artis and emerging opportunities, Erice 2016, Italy

Number of Participants:

Level of involvement of SIG in the activity:

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

x ECA Individual members registered with the SIG involved as lecturers

Sponsored by ECA? No

Other Sponsors/Organizers:

Short Description: International school on high pressure crystallography

10. Other matters. (50 words max.)

It was not possible to get our webpage linked from the <http://www.ecanews.org> webpage, although we frequently asked for this link to be established for more than a year now.

Please make sure that we get this link!

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

SIG officers and individual members of SIG11 were deeply involved in the most important workshops and conferences dedicated to research at extreme conditions, where they participated as members of the organizing committees, chairs for microsymbiosia or invited lecturers.

In particular, one should stress the high level of involvement of the SIG members in the further development of new infrastructure at large scale facilities (PETRA III, MLZ, and ESRF).

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

Chair:

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