**SIG No: 11** 

Reported Period: 2015-2016 Report Date: 25.08.2016

Reported by: Karen Friese, Yaroslav Filinchuk, Maxim Bykov

## **1. Introduction.** (50 words max.)

The activities of the SIG were concentrated on organizing the MS for the ECM in Rovinj. 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 setups for beam-lines 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:

http://ecanews.org/mwp/groups/sig-11-crystallography-under-extreme-conditions/Full version at http://eca-sig11.com

# 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

#### 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: 135

# 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 ECM29 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

At the ECM29 meeting in Rovinj there were a series of MS closely related to the main topics of SIG11:

- High Pressure Solid State Chemistry (Chaired by individual members of the SIG)
- Advances in High pressure methods (Chaired by Sig Officer)
- High Response systems in practical and extreme conditions (Chaired by SIG officer)
- Molecular crystalline processed at ambient and non-ambient conditions
- Structure property relationships (Chaired by by individual members of the SIG)
- In situ and in operando crystallography

SIG officers and individual members of SIG11 were involved in the organisation and several contributions. One of the SIG officers (Karen Friese) and one of the individual members of the SIG (Michael Hanfland) were keynote lecturers at the ECM29.

The EOSFIT workshop which was held as a satellite meeting for the ECM was organized by individual members of SIG11 and fully supported by the SIG.

# 7. Prizes sponsored/coordinated

---

## 8. Past Activities other than Microsymposia at ECM

Title: Joint AIRAPT-25 and EHPRG-53 Meeting, August- September 2015, Madrid, Spain Number of Participants: 300

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 AIRAPT/EHPRG Meeting was a large scope conference. Several sessions were dedicated to subjects closely related to high-pressure crystallography; a large number of individual members of SIG11 contributed to the conference.

Title: Erice School 2016: High-pressure crystallography: Status artis and emerging opportunities, Erice May/June 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

Title: 23<sup>rd</sup> Annual Conference of the German Crystallographic Society, Stuttgart 2016 Number of Participants:

Level of involvement of SIG in the activity:

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.

Title: The 17th International Conference on High Pressure in Semiconductor Physics (HPSP-17) & Workshop on High-pressure Study on Superconducting (WHS), August 2016, Tokyo, Japan Number of Participants:

Level of involvement of SIG in the activity:

x ECA Individual members registered with the SIG involved as lecturers

Sponsored by ECA? No

Other Sponsors/Organizers:

Short Description: Specialized conference on topics related to the field of interest of SIG11

#### 9. Future/Programmed Activities.

Sig 11 is involved in the organization of 6 microsymposia and one satellite workshop related to extreme conditions at the ECM30 in Basel. Other plans for workshops/conferences in which individual members of the SIG are involved include (amongst others) the following:

Title: EHPRG-54: International Conference on High Pressure Science and Technology, Bayreuth, Germany 2016

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

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

# 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 microsymposia 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:

Dr. habil. Karen Friese Jülich Centre for Neutron Science – JCNS 2 52425 Jülich Germany

Tel. +49 (0)2461 61 3826 Fax. +49 (0)2461 61 2610 e-mail: <u>k.friese@fz-juelich.de</u>

Vice-Chair:

Prof. Yaroslav Filinchuk

Institute of Condensed Matter and Nanosciences (IMCN)

Université Catholique de Louvain (UCL)

Place L. Pasteur 1, bte L4.01.03, 1348 Louvain-la-Neuve, Belgium

Tel. +32-1047 2813 Fax +32-1047 2707

E-mail: Yaroslav.Filinchuk@uclouvain.be

Secretary:

Dr. Maxim Bykov Bayerisches Geoinstitut (BGI) University of Bayreuth 95440 Bayreuth Germany

Tel. +49 (0)4089983128

E-mail: maxim.bykov@uni-bayreuth.de