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**SIG: SIG#4**

**Reported Period: 2008-2009**

**Report Date: 1/6/2009**

**Reported by: Dr. Louisa Meshi**

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## **1. Introduction.**

We are working on raising the awareness of the community to the electron crystallography as a tool for structure determination. As part of this action we have established a prize for remarkable research in the field of electron crystallography to the best student/postdoc lecture/poster. This prize is sponsored by “Calidris” and “Nanomegas” companies. We intend to give this prize at conferences where electron crystallography is widely presented, such as European Crystallography Conferences, European Microscopy Congresses and International Conferences.

The prize will be given first time at the forthcoming ECM25 in Istanbul ([http://www.ecm25.org/index.php?option=com\\_content&view=article&id=71&Itemid=74](http://www.ecm25.org/index.php?option=com_content&view=article&id=71&Itemid=74)).

## **2. Past Activities.**

Title: Process Diffraction School (Budapest, Hungary) May, 2008

Number of Participants:

Sponsors/Organizers: Prof. J. L. Labar

Short Description: Computer assisted processing of electron diffraction patterns. Please find more information at: <http://www.mfa.kfki.hu/~labar/ProcessDiffractionSchool.pdf>

Title: Electron Crystallography workshop

Number of Participants: 40

Sponsors/Organizers: Nanomegas company

Short Description: As part of IUCr congress on 25-27 August workshop on electron crystallography was hold.

Title: Electron Crystallography workshop

Number of Participants: 25

Sponsors/Organizers: "Nanomegas "and "Calidris" companies and RWTH Aachen university

Short Description: The workshop was hold adjacent to the EMC 2008 in Aachen, Germany at 1-5 September.

## **3. Future/Programmed Activities.**

Title: ECM25 (August, 2009)

Sponsors/Organizers: ECA

Short Description: As part of ECA our members will give: 1 keynote lecture (Jan Pieter Abrahams ‘Macromolecular Electron Crystallography’) and we will have two sessions (microsymposia): 1)“Quantitative Electron Crystallography” and 2) “Electron Microscopy on Functional Materials” (with collaboration with other SIG).

Title: School on Electron Precession (August, 2009)

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Sponsors/Organizers: Prof. J.P. Morniroli (scientific director)

Number of participants: 24

Short Description: Schools homepage: [http://lspes.univ-](http://lspes.univ-lille1.fr/formation_electron_precession)

[lille1.fr/formation\\_electron\\_precession](http://lspes.univ-lille1.fr/formation_electron_precession). Scope of the school is structure determination using electron crystallography methods.

Title: Summer School on Diffraction-based Structure Analysis in the TEM (September, 2009)

Sponsors/Organizers: Prof. J. L. Labar

Short Description: The school is joined to the Applied Crystallography Conference.

School's homepage: <http://crystallography.us.edu.pl/>

**4. Other matters.**

SIG4 thanks past chair Dr. Thomas Wierich for his energy and valuable contribution to the SIG.

SIG4 has an active homepage [www.gfe.rwth-aachen.de/sig4/](http://www.gfe.rwth-aachen.de/sig4/)

**5. Five year 'overview', brief activity report (2005-2009)**

Our SIG provides each year detailed activity report. Please see information at the [http://www.ecanews.org/sig\\_activity.php](http://www.ecanews.org/sig_activity.php)

**6. Estimated number of active members:** 28. (The field of electron crystallography is growing very rapidly. The number of active members provided by us was counted by email addresses in the distribution list of SIG4, which was updated at the last meeting of the SIG members).

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

Chair: Dr. Louisa Meshi, BGU (Israel), [louisa@bgu.ac.il](mailto:louisa@bgu.ac.il)

Secretary: Dr. Ute Kolb, Mainz (Germany), [kolb@uni-mainz.de](mailto:kolb@uni-mainz.de)

**Supplementary Materials.**

None

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