

## SYNCHROTRON LIGHT NEWS

**Status of the project of Polish synchrotron source.** Recently, Polish authorities have accepted the Polish synchrotron source, to be built in Kraków, as one of high-priority projects in the domain of science in Poland. *See pages 140-141 of this issue.*

**Membership of Poland in ESRF.** According to expectations of Polish scientific community, the Ministry of Science and Higher Education has decided to continue the membership of Poland in ESRF, one of the most powerful synchrotron sources in the world, with the financial input at the level of 1% of the ESRF budget. In the frame of a five-years agreement, the funding is based on a special three-year grant. Reports from all projects financed by this fund through ESRF have to be prepared in Polish and sent to Professor dr hab. Krystyna Jabłońska, President of Polish Synchrotron Radiation Society.

**MAX IV: Conceptual Design Report.** Recently, a MAX IV Conceptual Design Report was published by MAXlab. The report prepared by 321 authors presents a clear vision and details of the MAX IV project. MAX IV is planned as the fourth operating synchrotron ring at the Lund University. Although one of the existing rings is planned to be closed, the number of rings in Lund will remain four, as MAX IV is designed with two rings, one above another. Such design, with rings differing by the energy of electrons, permits for optimisation of the source for a broad spectrum of scientific tasks. The report describes the measurement opportunities of the MAX IV beamlines and usefulness of the facility for various tasks of science, technology and culture. *See: <http://www.maxlab.lu.se/maxlab/publications/index.html>.*

**Construction of E-XFEL starts.** In the beginning of 2007 construction of E-XFEL (European X-ray Free Electron Laser) starts. The laser will be located at DESY, Hamburg. The Ministry of Science and Higher Education of Poland is negotiating the conditions of adherence of Poland to this project. The first light from this source is expected to be available in 2015.

**New magnetic beamline at MAX-II ring, Lund.** A new magnetic beamline I1011 is at the final stage of construction. The source is based on elliptically polarizing undulator. The energy extend from 150 to 2000 eV. Three end-stations are planned. Information is available at the address: <http://www.maxlab.lu.se/>.

**Master Programme at the Lund University.** Lund University has announced a Bologna Master Programme at the MAX-laboratory with the title: *Synchrotron Radiation Based Science and Accelerator Physics*. This is an interdisciplinary course destined for students from universities in Nordic and neighbouring countries, including Poland. Related programs exist at some other synchrotron sources. The access to such courses is particularly important due to the plans for construction of Polish synchrotron source. [http://www.maxlab.lu.se/maxlab/education/master/master\\_vt2007\\_pdf.html](http://www.maxlab.lu.se/maxlab/education/master/master_vt2007_pdf.html).

**FLASH source expansion.** FLASH, a free electron laser operating since 2005 at DESY, Hamburg, will produce, after expansion to be completed in 2007, monochromatic femto-second photon pulses in the energy range of 10 eV - 200 eV (corresponding to 124 nm - 6.2 nm wavelength range). FLASH constitutes a prototype to the above mentioned XFEL machine. Both, FLASH AND XFEL, exploit the same physical principle of operation (SASE), as well as the design outlines. *See pages 32-39 and 40-47.*

**Polish Crystallographic Society.** Polish Crystallographic Society (Polskie Towarzystwo Krystalograficzne) was registered in 2006 with its site in Cracow. It is affiliated at the Faculty of Chemistry of Jagellonian University. The president of the Society is prof. Stanisław Hodorowicz from the Faculty of Chemistry, Jagellonian University.

**Polish Synchrotron Radiation Society - new web address.** From the beginning of year 2007 Polish Synchrotron Radiation Society (*Polskie Towarzystwo Promieniowania Synchrotronowego*) has a new web address, <http://www.synchrotron.org.pl/>. Suggestions for extension are welcome (please, contact the webmaster).

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### MEETINGS IN POLAND

#### 7-th National Meeting of Synchrotron Radiation Users (KSUPS-7)

Poznań, 24-26 Sept. 2007

Chair: Maciej Kozak, Adam Mickiewicz University,  
Co-chair: Paweł Piszora, Adam Mickiewicz University.

7th National Meeting of Synchrotron Radiation Users will be held in Poznań, 24-26 Sept. 2007. Starting from 1991, this meeting typically was organised in Warsaw or Cracow. Scientific community of Poznań hosts the KSUPS for the first time. Welcome! . *For details see page 252 of this issue or the webpage <http://www.fizyka.amu.edu.pl/ksups>.*

#### New Opportunities and Challenges in Material Research using Synchrotron and Free Electron Laser Sources

*E-MRS Fall Meeting, Symposium I, Warsaw, 17- 21 Sept. 2007*

Chair: Dr. Maya Kiskinova, D.Sc., Sincrotrone Trieste, Italy,  
Contact: Mrs. Ilde Weffort: [ilde.weffort@elettra.trieste.it](mailto:ilde.weffort@elettra.trieste.it),  
Co-chair: Prof. Krystyna Lawniczak-Jablonska, Institute of Physics PAS, Warsaw, Poland, e-mail: [jablo@ifpan.edu.pl](mailto:jablo@ifpan.edu.pl),  
Co-chair: Dr. Rachid Belkhou, Synchrotron SOLEIL, Saint Aubin, France, e-mail: [belkhou@synchrotron-soleil.fr](mailto:belkhou@synchrotron-soleil.fr).

The main objectives of this symposium: to highlight recent advances in synchrotron-based materials research under way, as well as the expected potential to extend these frontiers even further with the future FEL facilities. The emphasis will be on identifying the challenges and opportunities in characterizing material properties at atomic to micron scales and dynamic processes occurring at different time scales. *For details see <http://www.e-mrs.org/meetings/fall2007/>.*