

MX Industrial Update

December 2011 - issue n°04

We are delighted to send you the 4th issue of our twice-yearly 'ESRF MX Update' newsletter. Its aim is to keep industrial MX clients up to date with developments at the ESRF.

UPGRADE NEWS

BREAKING THE GROUND FOR ESRF'S FUTURE

On 29th November 2011, a ground-breaking ceremony marked the start of the civil construction works for several major building extensions of the ESRF. Thanks to these new buildings, to be inaugurated in June 2013, the ESRF will be able to operate eight new beamlines with performances unique in the world.

[Read more](#)

EXTENSION WORKS IN PROGRESS

Works on the extension of the Experimental Hall started in December 2011.



HEADLINES

ESRF UPGRADE

- Ground-breaking ceremony in November 2011
- Extension works in progress
- Beamline improvements
- MASSIF

ESRF USER MEETING IN FEBRUARY 2012

TRAINING COURSES

Several training courses are organised for optimised usage of our beamlines and on special macromolecular applications.

NEW BIOSAXS BEAMLINE



IMPROVEMENTS FOR ALL MX BEAMLINES

The reconstruction of the ID14 suite of beamlines on ID30 has progressed well during the last couple of months. Radiation tests have been successfully performed on *MASSIF*, the new and unique sample evaluation facility, thus allowing the installation of optical and experimental equipment during the shutdown. Also, the setup for direct data collection (DDC) as currently implemented on ID14-2 will be moving to *MASSIF-1* during that period of time. In parallel, the optics hutch of the new BioSAXS facility situated on BM29 has been completely equipped and is being commissioned. The experimental setup will be moved from ID14-3 to BM29 in February. First users are expected for June 2012.

NEWS ABOUT THE MASSIF SCREENING BEAMLINER

The MASSIF project continues well, hutch construction has finished for the new highly automated beamlines at ID30 and

the first monochromatic beam was taken at the end of November. The advanced robotics being developed for the MASSIF beamlines on ID14-2 will now move to their new home on ID30A-1 with users mode expected in 2013. The MASSIF beamlines will be composed of 3 highly intense, fixed-wavelength beamlines, two with a beam diameter of 80 μ m and a microfocus beamline with a diameter of 10 μ m. The beamlines will be equipped with second generation automation to enable the throughput and complex evaluation demanded by modern structural biology projects.

NEWS FROM THE INDUSTRIAL & COMMERCIAL UNIT

ESRF USERS' MEETING 2012

The annual User Meeting of all ESRF beamline users will take place between 6th to 9th February 2012. [Read more](#)

WANT TO BE TRAINED TO GET THE BEST OUT OF OUR BEAMLINES?

A one-day training course for the optimal usage of all our MX beamlines will be organised in May 2012. To apply or to organise a specific training at your site please [contact us](#).

EMBO COURSE ON MACROMOLECULAR COMPLEXES

The one-week course in June 2012 will focus on different aspects of macromolecular complexes. Further information coming soon on the [ESRF web pages](#).

NEWS FROM THE BEAMLINES

CONTINUOUS OPERATION OF ALL MX BEAMLINES

All MX beamlines will be available to users after the

shutdown period starting from beginning of May 2012. [Send](#) your requests and book your beam time for spring now.

NEW BIOSAXS BEAMLINE UNDER CONSTRUCTION

The ESRF BioSAXS beamline has quickly become a very popular addition to the suite of beamlines available for structural biologists. It enables functional studies under physiological conditions (in solution), both complementing the information obtained from crystal structures and allowing investigation of the behaviour of samples to find the optimum conditions.

As part of the ESRF upgrade, the BioSAXS beamline is moving to a new home (BM29 opening June 2012) with optimised and upgraded optics providing 50 times more flux (based on our initial commissioning tests). This will not only enable faster data collection (over 1000 measurements per day), our aim is to allow measurement of more dilute samples and smaller volumes.

It will also enable projects where sample preparation is the limiting factor, or to take advantage of online purification methods (HPLC) and allow investigation of separate species from mixtures. At the core of our aims will still be reliability and data quality, we will continue to provide the same high-quality service upon which we hope to add increased functionality and quality control feedback, not only from each measurement but with cross-checks on all data sets within a project. If you would like further information or to discuss specific needs, please do not hesitate to [contact us](#).

[Contact us](#)

[Unsubscribe to this Newsletter](#)

All rights reserved - European Synchrotron Radiation Facility