



Local staff of ROBL at the ESRF with project leader W. Matz (left): N. Schell (Materials Research), H. Funke (Radiochemistry) and U. Strauch (technical service).

THE MATERIALS RESEARCH HUTCH (MRH)

The Institute of Ion Beam Physics and Materials Research will use ROBL within its scientific program for the identification and characterization of the modifications of surfaces, interfaces and near surface layers including phase formation produced by ion beam techniques. Research topics of the institute are hard coatings, nanoclusters, biocompatible materials and advanced semiconductors.

In collaboration with universities and other research institutes from the region structural investigations of melts, amorphous solids and phases in metal and semiconductor nanometer-multilayers as well as the analysis of the real structure of single crystallites or texture are planned. But also other users are invited to perform experiments in MRH in collaboration with the FZR. The basic equipment in MRH will consist of a high-precision 6-circle Huber goniometer, several detectors (scintillator, energy sensitive photodiode, two-dimensional PSD of

CCD-type) and a high-temperature chamber up to 2000 °C. ■

REFERENCES

- [1] More information is available under <http://www.fz-rossendorf.de>. Postal address: Forschungszentrum Rossendorf, P.O. Box 510119, D – 01314 Dresden.
- [2] ESRF Beamline Handbook; also at http://esrf.fr/exp_facilities/BLHB.htm.
- [3] Contact ESRF residents of ROBL at robl@esrf.fr.

ACKNOWLEDGEMENTS

We would like to thank the ESRF for their support in beamline planning and installation matters, and the ILL for agreeing to the temporary storage of future radioactive samples.

SPLINE (SPANISH BEAMLINE) ON BM25

At its July 1997 meeting, the ESRF Council has approved the construction of the Spanish CRG beamline (Spline) financed by the CICYT (Comisión Interministerial de Ciencias y Tecnología). The main goal of the Spanish CRG x-ray beamline is to satisfy the needs of the Spanish scientific community and give it access to a third generation synchrotron radiation facility to perform x-ray absorption and diffraction experiments in a broad energy range.

**The Spanish beamline will be split into two lines:
one branch will be allocated on the soft edge (A)
and the other on the hard edge (B) of the BM25 bending magnet.**

BRANCH A:

- High-resolution powder diffraction (HRPD) including anomalous dispersion.
- X-ray absorption spectroscopy (XAS) and x-ray standing waves (XSW).

BRANCH B:

- Macromolecular crystallography including MAD
- Single crystal diffraction and diffraction from interfaces
- X-ray diffraction/scattering camera for non-crystalline specimens. ■

The hutches are due to be constructed in January 1999. It is intended that the first station will be ready for user operation in January 2001. Full operation will start in the second half of 2002.

More in ESRF Beamline Handbook; also at http://esrf.fr/exp_facilities/BLHB.htm

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