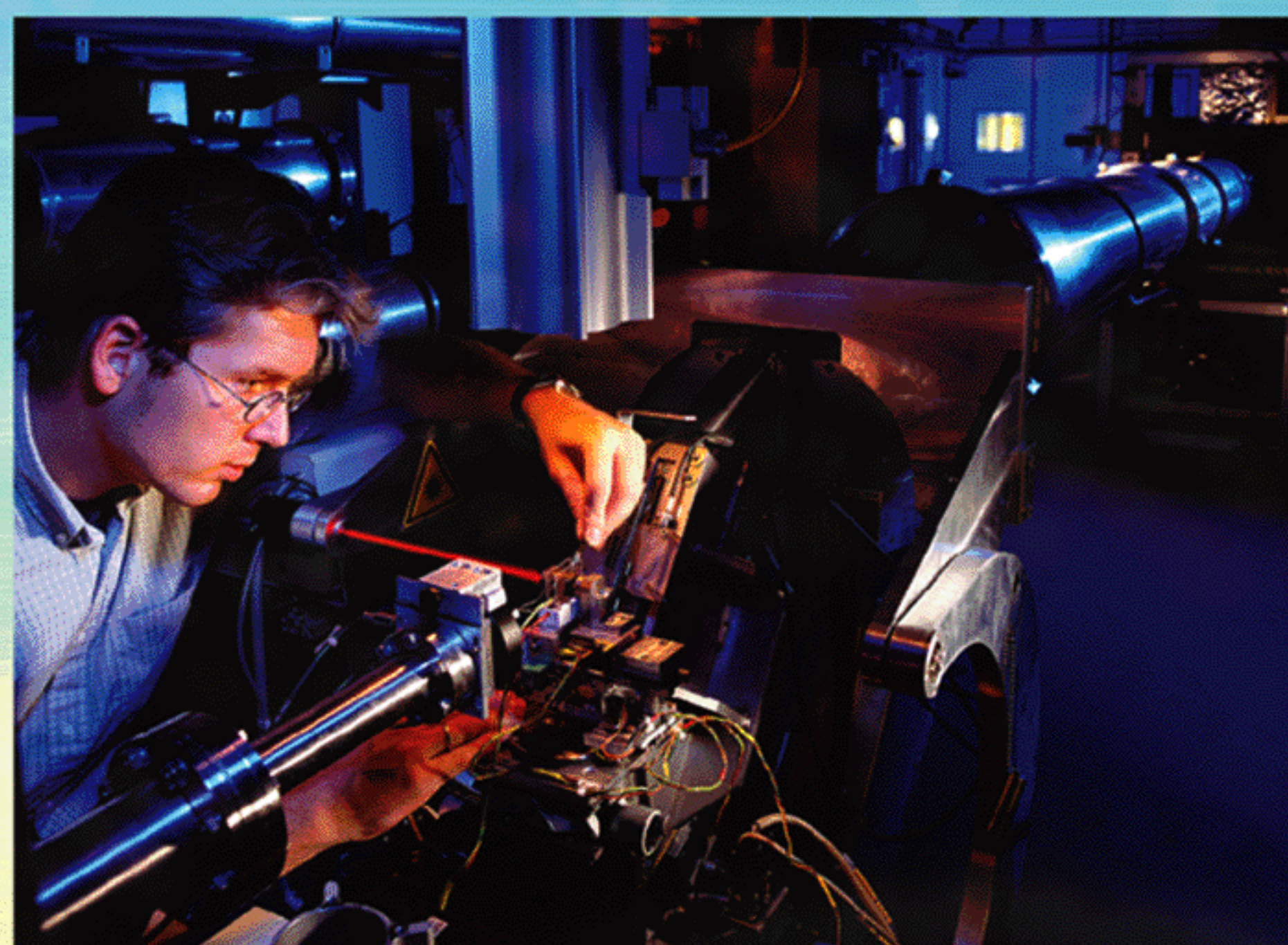


## A LIGHT FOR SCIENCE



### THE X-RAY OPTICS GROUP

A key requirement for a successful synchrotron radiation experiment is the conditioning and optimizing of the X-ray beam on its way from the source to the detector. The ESRF X-ray Optics Group develops and implements optical elements, and assists scientists in the conception of their beamlines. In-house facilities enable customised design and fabrication of X-ray optics. The equipment available allows the preparation of crystal monochromators (Crystal Laboratory) and multilayers (Deposition Facility) and the characterisation of any optical device by optical metrology (Clean Room) and by X-ray techniques (Beamline BM5). In addition, micro optics are being developed and tested. Considerable impact on the performance of ESRF beamlines has been achieved in various fields such as focusing (spots down to 100nm size) and imaging (microscopy, tomography).

#### UPCOMING EVENTS

#### **15th Users' Meeting and parallel workshops - February 2005**

##### **"Synchrotron Radiation in Art and Archaeology"**

Synchrotron radiation techniques provide powerful new ways to investigate records of our physical and cultural past. The purpose of this workshop is to discuss and explore the current and potential applications of synchrotron science to problems in archaeology and art conservation. It will bring together key members of the synchrotron community and experts in the disciplines of Archaeology, Archaeological Science, Art Conservation and Materials Science. This interdisciplinary workshop aims to report the latest research accomplishments, highlight ongoing projects, and catalyse new interactions between fields.

##### **"New Science with New Detectors"**

It is becoming increasingly clear that the next major advance in synchrotron science will come via drastically improved or revolutionary detector concepts. This workshop will look at the future science at synchrotron radiation facilities, and discuss the requirements for the detection systems needed.

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