

Division of Metrology of Ionising Radiations

António Ferro de Carvalho

Activities carried out in 2003 in the Division of Metrology of Ionising Radiations (DMIR) comprises mainly:

- i. Research and training in metrology of ionising radiations;
- ii. Maintenance of national standards of measurements, under a protocol with the Portuguese Institute for Quality;
- iii. Services of metrological control – type testing and calibrations – of measuring instruments, according to national regulation (Portaria 423/98).

Our participation in EUROMET activities continues concentrated in the implementation of the international Mutual Recognition Agreement (MRA) of national measurement standards and of calibration and measurement certificates. Discussions are going on between regional metrological organisations in

view to the establishment of a worldwide agreement under the Metre Convention.

The MRA places considerable emphasis on the implementation of Quality System in each laboratory participating in the Mutual Recognition Agreement. The implementation of Quality Systems is being coordinated by a project –QS Forum set up by EUROMET. The objective of QS – Forum is the establishment of a mutual confidence on quality of metrological services between laboratories participating in the MRA.

An internal audit of the Quality System was carried out in May of 2003.

Intercomparisons of doses at radiotherapy and radiation protection levels were done in programmes run by IAEA/WHO and EA.

Calibration services were provided for industry, hospitals, armed forces, universities, and departments of ITN.

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Research Team

Researchers

- A. FERRO DE CARVALHO, Principal Researcher
- C. OLIVEIRA, Principal Researcher

Students

- J. CARDOSO

Technical Personnel

- L.SANTOS