

**The ANSTO Radiation Metrology Programs for 2003 – 2004**

- Development of a liquid scintillation triple to double coincidence counting ratio (TDCR) system.
- Development of an Australian Standard for measurement of Y-90 activity on behalf of Australian Radiopharmaceuticals and Industrials (ARI) and Sirtex Medical Limited. The primary standard will be initially adopted from NIST.
- Development of working standards for brachytherapy sources (I-125 and Ir-192) for the Australian Radiation Oncology Community.
- Standardisation of Sm-153 using  $4\pi\beta(\text{pc})-\gamma$  coincidence counting method.
- Continuation of traceable calibration program for Ga-67, I-131, Tc-99m and Tl-201 for ARI.
- Participate in annual TLD postal dose audit of SSDL for IAEA/WHO Network in May 2003.
- Calibrations of hospital radiation therapy beams using thimble ion chambers.
- Validation of neutron flux through gold wire activity measurements for the HIFAR and Replacement Research Reactor (RRR).

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