PROTECTION FROM IONIZING RADIATION

John K.C. Leung
University Radiation Protection Officer
Responsibilities of a DRSR

- Be responsible for the issue and use of monitoring devices
- Ensure records are kept of the usage of radioactive substances
- Supervise the preparation of radioactive wastes for collection
- Provide advice to the Head of Department on departmental radiation hazards and to liaise with the URPO
Responsibilities of a DRSR

- Arrange annual leak tests for sealed radioactive sources and functional tests for radiation monitors
- Inform the URPO of any changes of DRWs or DRUs
- Inform all staff and students within the Department of departmental radiation matters
Controlled Areas

- Access is strictly limited
- Well established practices to control radiation exposure.
- Actual dose outside the areas to be kept below the dose limits for public exposure.
Supervised Areas

- Working conditions are kept under review.
- Doses to workers not expected to be higher than 3/10th of the occupational dose limit.
Radiation Workers/Users

- **Radiation Workers**: May receive an annual radiation dose exceeding 3/10th of the dose limit. Should wear TLDs. Annual medical examination is required.

- **Radiation Users**: Not likely will receive an annual radiation dose exceeding 3/10th of the dose limit. Normally no need to wear TLD.
Services Available

- Controls the purchase of radioactive substances/ irradiating apparatus
- Collection & treatment of radioactive wastes
  - On-line application
  - Wastes **MUST** be separated according to type and information provided **MUST** be correct
- Monitoring of controlled areas
- Annual leakage test for sealed radioactive sources
- Annual functional test for radiation monitors
Reminders

- Safety Office **MUST** be informed and the relevant licence updated PRIOR to possession of new radioactive substances/irradiating apparatus
- Radioactive substances should only be used in designated location approved by the licence
- Temporary borrowing of radioactive substance to another controlled area is allowed; but this **MUST** be recorded in a log book
Please call me at 2859 2858 or e-mail: jkcleung@hku.hk for any advices on radiation protection

Thank you!