Radiation Safety Briefing for DRSR

FOREST Y.C. LIN
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 RPO
- Arrange annual leak tests for sealed radioactive sources and functional tests for radiation monitors
- Inform the RPO 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 Area

- 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 $\frac{3}{10}$ of the dose limit
  - May work with unsealed radioactive substances
  - Should wear TLDs
  - Annual medical examination is required

- **Radiation Users**
  - Not likely to receive an annual radiation dose exceeding $\frac{3}{10}$ of the dose limit
  - Not allow to handle unsealed radioactive substances
  - Normally no need to wear TLD
Services Available

- Controls the purchase and use of radioactive substances/irradiating apparatus
- Keeps a register of radiation workers/users
- Collection & treatment of radioactive wastes
  - On-line application
  - Wastes MUST be separated according to type and information provided
    MUST be correct
- Monthly 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 stored and used in designated location approved by the licence.
Please call me at 2241 5471 or email: Linyc@hku.hk for any advice on radiation protection.

Thanks you!