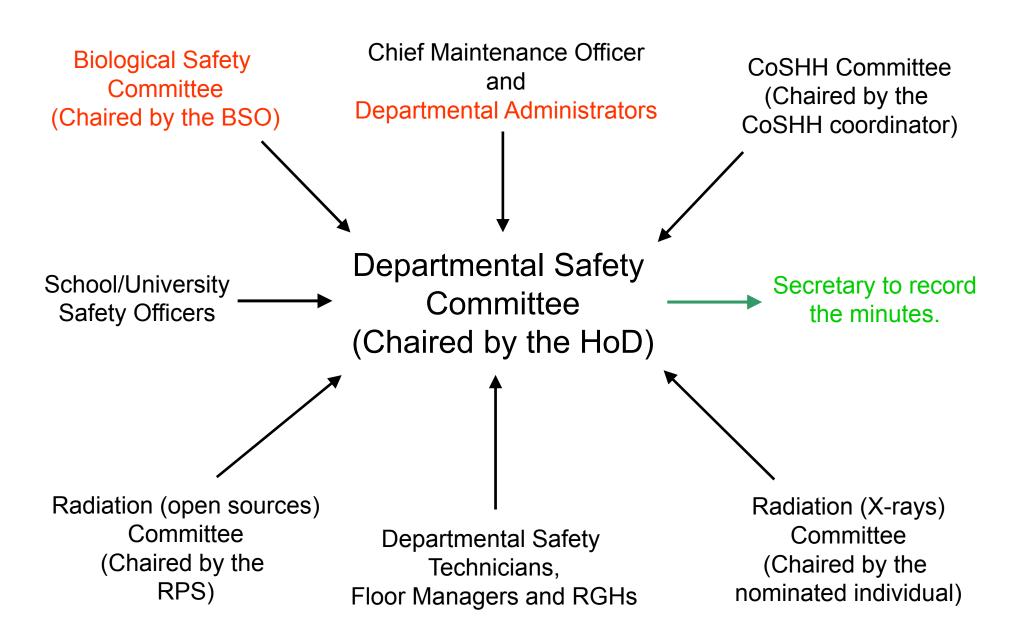


## Biological Safety in the Department of Biochemistry



- Organizational Structure
- Systems in place for Record keeping and Monitoring
- ► Responsiveness to Audits and Changing circumstances

## The Departmental Safety Committee meets once per term.



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## The Departmental Biological Safety Committee.

Our Remit includes oversight and approval of projects involving:

- Genetic Modification and the creation of Genetically-Modified Organisms (GMOs – both plants and animals).
- Genetically modified Microorganisms (GMMs).
- Work involving Human Tissue (covered by the HTA).
- Projects requiring Home Office approval.
- Projects requiring HSE or DEFRA licensing.
- Projects pertaining to SAPO (Specified Animal Pathogens Order).

All research groups are expected to have their work assessed on an ongoing basis.

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## The Departmental Biological Safety Committee.

Meets termly – dates arranged to be prior to the DSC.

(i) Structure and composition of the Committee.

Nominated BSO – Prof Paul Dupree (acts as Chair and Convener)

Two nominated Deputy BSOs;

Dr Trevor Littlewood – expertise in Biofacility Matters and Viral Vectors.

Dr Martin Welch – expertise in Molecular Microbiology.

Other academic members of the team are specifically selected for their <u>expertise</u> in relevant areas to match the Dept. Research Portfolio.

- ► Means that we are collectively <u>competent</u> to comment on Safety Assessments received.
- ► Also have representation from the Departmental Administrators (to provide the "bigger picture" e.g., what other cttees are doing, space issues etc).
- ► Also have representation from key floor managers and safety technicians.
- School Biological Safety Officers are invited to keep us informed of changes in legislation or University-wide policies.

- (ii) Operation of the Committee.
- ➤ Safety Assessments are requested (by e-mailed circulation) to all RGHs ca. 3-4 weeks prior to each termly meeting.
- ► Work is NOT permitted to proceed unless it has been assessed. We encourage the individuals who will actually be doing the work to write the assessments.
  - All assessments are made using our agreed Departmental proforma.
- Assessments include Hazard identification, Risk Assessment and Risk minimization.
- ► We routinely return assessments to RGHs for queries or correction.
- ► We ask for ALL projects to be re-assessed every 3 years. This takes into account changes in staff, work aims, technologies used etc.
- ➤ To make life easier for our hard-pressed RGHs, if changes are only minor, we have a mechanism in place for simply listing these. More substantial changes require a <u>new</u> assessment to be made.

- (ii) Operation of the Committee (continued...).
- ► Each assessment is circulated at the committee meeting. Most are routine (e.g., pertaining to straightforward cloning or protein over-expression etc), but all are assessed on a case-by-case basis. Importantly, *all assessments are read in detail by at least two people* the BSO and a member of the cttee who has expertise in the relevant area.
- ► More time is usually spent discussing projects associated with e.g., organisms with higher hazard rating, or manipulation of potentially hazardous genes (oncogenes, allergens etc).
- ▶ In some cases, we arrange to visit the lab in question to assess safety measures directly.
- Other issues discussed (often as standing items):

Disposal.

**Animal Matters.** 

Audits and visits.

New or incoming Safety Policies (School or National).

Facilities.

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## The Departmental Biological Safety Committee.

#### (iii) A committee with "teeth".

- ➤ We make unannounced site visits to every lab in the Department to ensure compliance and assist in providing constructive feedback to improve things, if needs be.
- ► The names and affiliations of non-compliant individuals or labs, especially repeat offenders are recorded and dealt with, usually diplomatically.
- We are empowered to enforce additional training for individuals.
- ➤ We have the power to stop work and have done so.

### (iv) Record Keeping and Audits

- We keep meticulous records of all internal meetings and site visits.
- ▶ We keep records of all relevant Biological Stocks (a requirement for many licenses or approvals e.g., HSE, DEFRA, HTA etc).
  - What stocks do we have?
  - Where are they?
  - How much of it is there?
  - If necessary, how is it disposed of (disposal records).
- ➤ We keep records of courses/training attended.
- ► For external audits, a thorough documented paper trail is as important as the "wet" biology end of things.....

### (iv) An inspector calls.....

▶ What do they want to see? We ask them.

We get the documentation prepared and present it in an organized way.

We do site visits to ensure compliance is 100% before the visit.



- ➤ We ensure that relevant staff are fully-informed about the visit and are prepared (and competent) to answer questions.
- ► We liaise with other Departments (if necessary).
- We respond to feedback and change our procedures accordingly.