

Aerosol Lab S51 Local Rules

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For this room the following documents are relevant:

- S51 Aerosol Laboratory Risk Assessment.
- MPLS Code of Conduct (Laboratories and Facilities), 2024; Physics Safety Handbook.

A copy of these Local Rules must be appended to the relevant Risk Assessment and displayed on the door of the lab.

1. LABORATORY SAFETY RULES

- Access is restricted to personnel authorised by Prof. Grainger. Complete the required induction and training before undertaking experimental work.
- Read and follow the S51 Risk Assessment, relevant COSHH assessments and equipment operating procedures. Observe the hazards indicated at the laboratory entrance.
- Wear appropriate PPE, including laboratory coat, safety glasses and suitable closed footwear, except where an approved assessment specifies otherwise.
- Food and drink must not be brought into or consumed in the laboratory.
- Generate aerosols within the designated fume cupboard. Check extraction before starting; keep aerosol tubing secure and route exhaust through the approved extraction arrangement.
- Handle volcanic ash, sand, glass beads and other fine powders to minimise dust. Do not dry-brush or use an ordinary vacuum cleaner for fine powder spills; follow the approved clean-up procedure.
- Keep compressed-gas cylinders secured. Only trained and authorised personnel may change cylinders or regulators or maintain gas connections.
- Only trained and authorised personnel may operate the SMPS radioactive neutraliser. Store it securely when not in use and follow the source-specific radiation procedures.
- Do not dismantle, modify or repair equipment unless trained and authorised.
- Do not leave experiments unattended or work out of hours without the required risk assessment and authorisation. Display the required unattended-experiment information and emergency contact details.
- Keep benches and floors tidy, store samples safely, and dispose of laboratory waste by approved routes.
- Do not remove or borrow laboratory equipment or tools without permission. Report accidents, near misses and defective equipment promptly.

2 ACCIDENTS / EMERGENCY PLAN

- In an emergency, protect people first. Make equipment safe only if it is safe to do so, and evacuate where necessary.
- If fume-cupboard extraction fails, stop use.
- For suspected gas leaks, leave the affected area and do not attempt unauthorised repairs. Report suspected radioactive-source damage or loss immediately; do not handle a damaged source.
- Call University Security: 89999 (internal) or 01865 289999 (mobile). For an immediate emergency, call 999.