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Department Safety Policy

General Statement:

It is the policy of the Department of Earth Sciences to continue to ensure, so far as is reasonably practicable, the health, safety and welfare of all its staff, students and any other persons who may use and/or visit the Department's premises or who may be affected by the activities of the Department. Compliance with legal obligations is the minimum standard.

The Department is committed to planning, implementing and reviewing its health and safety arrangements in order to achieve continual improvement in performance, the aim being to promote best practice in all areas of health, safety and the environment.

The maintenance of safe and healthy working conditions requires the active cooperation of everyone in the Department, each of whom has a duty to take care of his or her own safety and that of others. Every individual has a duty to co-operate in the attainment of safe working conditions by: taking care of their own health and safety and that of others; never interfering with safety equipment; familiarising themselves with the University Health and Safety policy; to attend the required health and safety education and training, and to bring situations that they believe to be dangerous or shortcomings in the safety arrangements to the attention of the Safety Committee.

Professor Simon Redfern
Head of Department

University Safety Policy at:

NO SMOKING POLICY

The Department of Earth Sciences operates a strict no-smoking policy in all of its buildings and outside adjacent to areas which present a particular fire hazard. Persons wishing to smoke are asked to do so away from doors and windows so as not to inconvenience occupants of buildings.
SAFETY ROLES

NB: BPI has separate Safety Tree
www.bpi.cam.ac.uk/safety

- Head of Department
- Department Safety Officers (Downing and Bullard Site)
- Safety Committee
- Radiation Protection Supervisors: Sealed sources and x-rays, Un-sealed sources, X-rays
- Laser Safety Officer
- Chemistry Safety Officer
- Heads of Section
  - Local Safety Officers
  - Individual lab users
SAFETY RESPONSIBILITIES 01.10.2017

DEPARTMENT SAFETY COMMITTEE

Head of Department                           Prof S A T Redfern
Department Safety Officer, Committee Chair   Ms L H Matthews
Laser Safety Officer,                        
Radiation Protection Officer (sealed sources, Dr I Farnan
  unsealed sources and x-rays)
Radiation Protection Supervisor (sealed sources, Dr G Lampronti
  x-rays)
Safety Officer and Fire Manager, Bullard Labs Mr D Simons
Fire Manager/Principal Technician            Mr M Walker
Department Administrator                     Dr A Buckley
Chemistry Safety Officer                     Dr J Day
Fieldwork                                    Dr M Edmonds
Sedgwick Museum Representative              Ms S Finney
Safety Administrator, Committee Secretary   Mrs C J Hobbs
Deputy Director, Health and Safety Division  Mr J Hulme
Teaching                                     Prof R Harrison
Graduate Representative                      Mr Beng Thye Tan
Union Representative                         Vacant

Bold type for a Committee member’s role indicates a formal Department safety position.

HEADS OF SECTION

BP Institute (Madingley Rise)                 Prof A Woods
BPI Colloids Interface Lab                    Dr Stuart Clarke
BPI Fluids Lab                                Dr Charlotte Gladstone
BPI Polymer Colloids Lab                      Dr Alex Routh

Palaeontology Processing                     Prof N J Butterfield
Resonant Ultrasound Spectroscopy & High Temperature Lab Prof M A Carpenter
Electron Probe Laboratory and Fieldwork       Dr M Edmonds
Radioactive Material Preparation, N M R Spectroscopy & Workshops Dr I Farnan
Chemistry and Rock Processing                Dr S Gibson
Mineral Magnetism & Electron Microscopy      Dr R Harrison
Godwin and Sedimentary Labs                  Prof D Hodell
Rock cutting and Thin Section Preparation    Prof M Holness
Sedgwick Museum and Brighton/Rock Store Buildings Dr E Harper (until October 2018)
Teaching                                     Prof R Harrison
Ocean Geochemistry                            Dr A Piotrowski
Photon Spectroscopy, Mechanical Analysis & X-rays Prof S A T Redfern
Mill Lane Core Store                          Dr J Rolfe
Radiocarbon Laboratory                       Dr L Skinner
Isotope Geochemistry                          Dr E Tipper
Marine Biogeochemistry                        Dr A V Turchyn
Health and Safety in the Department is a team effort: many thanks go to Celia for all the support, ideas, reminders and organisation throughout the year; thanks to Dudley for managing safety at the Bullard Labs; and thank you to all the members of the Health and Safety Committee for helping to keep Earth Sciences a safe place to work and study. Thanks also to all Local Safety Officers for continuing to help with all aspects of lab safety, and to all our dedicated first aiders.

Twelve accidents/incidents were reported between October 2016 and September 2017. This was a higher number than usual, but most of the incidents were minor.

First Aid Training for Fieldwork continues to be taken very seriously in the Department, with provision of two 2-Day Outdoor First Aid for Fieldwork courses run by consultants Marlin Training, one in Feb, one in May. Stuart Marshall, the trainer, received positive feedback from participants. We expect to be running the course twice in 2018 with 10-11 January proposed and 17-18 May confirmed as dates. The 1-day refresher course (plus online learning) is available to those who qualified within the last three years; the date for this is 16 May 2018.

The Annual Department Safety Office event took place in March 2017 and focussed on providing information about asbestos on the University estate, and control of electromagnetic fields regulations.

John Hulme and a visiting intern carried out a noise levels audit within the Department in May 2017. They were happy that our noise levels all comply to current safety standards.

In July, work was carried out in the rock cutting workshop in order to bring the dust extraction system up to the correct standards to protect staff using the equipment. Mick Brennan from the Safety Office inspected the work once it was completed and was happy to sign it off as compliant with current regulations.

Oxygen monitors were replaced in August 2017 – these alarms, which sound if the level of oxygen in a lab drops below 19.5%, have a shelf life of 24 months. They are deployed where a risk assessment suggests that they would be helpful in controlling the risk of a sudden gas escape from a cylinder or pipe.

A total of 90 attendances was recorded at safety training courses held between June 16 and July 17, both within the Department and at other venues across the University. The Department continues to provide Advanced Driver Training to members of staff who drive on taught field courses, with 21 people trained between June 2016 and June 2017. Despite the number of minibus drivers looking healthy on paper, the reality is that numbers of academics who lead field trips and can also drive these vehicles continues to diminish, so we still need to investigate alternative modes of transport for Department field trips.

Existing risk assessments for procedures were reviewed and re-signed by Heads of Section and Local Safety Officers at the Annual Chemical Safety Meeting in October 2016. All annual inspections, returns and reviews of radiation monitors, hazardous chemicals and personal protective equipment were successfully carried out, including Health Surveillance auditory tests and hand/arm vibration monitoring. Safety walks of S415, the General Chemistry lab and N029 (Xray/Electron Probe/Electron Microscopy lab) were also carried out.

Field Risk Assessments (FRAs), safety log books and feedback forms were completed for all of the 9 undergraduate taught field trips. The completed log books demonstrate that safety briefings were routinely given in the field and that students complied with all safety instructions. Many more FRAs were completed for Part II Mapping Projects, and for various individual research trips undertaken by members of the Department. It is important that the Department continues to receive this information before any field trips are commenced.
The Head of Department, Prof Simon Redfern, has the duty and legal responsibility for the implementation of the University and Department Safety policy. In order for him to do this, he has delegated duties in writing to: the Department Safety Officers; Department Safety Administrator; Officers for Laser Safety, Chemistry, the Department Radiation Protection Supervisors, Fire Managers and the Head of each Section.

The Safety Officer and the Safety Administrator act as a focus for the flow of information to and from the Department. Within the Department, the flow of information to and from members of the Department is generally via the Heads of Sections or their Local Safety Officers.

Health, Safety and Environmental Committee
The Department has a committee to oversee the Department's policies on health, safety, and environmental matters, and to ensure their implementation and communication. The full Department Safety Committee meets once a year. A Chemical Safety Review is held annually in October, and a Field Safety Review takes place each February. Additional meetings may be called if required. Membership of the Safety Committee includes a Trades Union, and a Graduate Students’ representative.

The purpose of the Safety Committee is:
- To receive safety reports from all sections of the Department, to decide on any action necessary, and to monitor its implementation.
- To advise the Head of Department on health and safety matters.
- To discuss and resolve any matter relevant to health and safety brought to its attention.
- To agree and review emergency procedures.
- To receive reports on safety inspections, and monitor the completion of recommended action.
- To receive reports of accidents and incidents and the results of investigations, and to agree action to be taken to prevent recurrence.
- To monitor completion of appropriate risk assessments.
- To ensure that information received from the University Safety Office and Safety Advisors regarding changes in health and safety regulations is acted upon.
- To review the Health and Safety Policy annually, and to approve additions and amendments as appropriate.

The Committee will consider any relevant matter brought to its attention from inside or outside the Department, and will make recommendations to the appropriate staff. Members of the Department wishing to raise a topic for discussion are invited to do so by the Safety Administrator at the time of planning the agenda for a meeting, but topics may be brought to the notice of the committee at any time.

Membership of the Committee and Agenda papers and Minutes of meetings are posted on the Safety pages of the Department website. Minutes are also distributed to the University Health and Safety Division and to all members of the committee.

Heads of Section
Heads of Section have specific additional responsibilities for safety. These are:

(a) to appoint, if necessary, suitably competent staff as Local Officers Responsible for Safety and to draw up the working procedures and codes of safe practice for their areas;
(b) to implement the Department Safety Policy in their section by ensuring that activities within their section comply with health and safety requirements, and that appropriate procedures are in place for: regular inspections and risk assessment, which may include Control of Substances Hazardous to Health (COSHH); risk assessments of new equipment before use and projects prior to their commencement; the evaluation of risk assessments and any remedial action to be taken; to ensure that workers in their area receive appropriate training, instruction, and supervision so as to safeguard as far as is reasonably practicable, the health, safety, and welfare of those workers;
(c) to seek advice, when necessary, from the Department Safety Committee, the Department Safety Officers, the Department Safety Administrator, or Head of Department, and to bring to their attention any inadequacies of the system and any persons in their section who refuse to co-operate over implementing safety procedures or policy;
(d) to appoint a Deputy for Safety for any period of absence of more than two weeks;
(f) to take responsibility for Academic Visitors to the group, in ensuring that visitors are aware of, and comply with, the requirements of health and safety law and University and Department policies and practices;

(g) to ensure all training records are kept up to date.

Local Safety Officers
Within ‘areas’, the Head of Section may designate suitably competent academic staff members as Local Officers for Safety. Such officers carry the same responsibilities as all staff members but in addition they are expected to:

a) co-ordinate the risk assessments, use of laboratory, ‘At Bench’ training records and working out of hours forms for members of the various activities within their area;

b) carry out the general risk assessment for safety in their area; take action based on the assessment and revise it annually or whenever known changes occur, whichever is sooner;

c) ensure that safe systems of work and codes of safe practice are in place and are being adhered to;

d) co-operate with the Department Safety Officer, the Department Safety Administrator, and the Safety Committee, and seek their advice on appropriate occasions;

e) bring to the Head of Section's attention any unsafe practices and breaches of safety instructions in their area;

f) co-ordinate the reporting and investigation of all accidents or ‘near misses' occurring in their area to the Department Safety Officer or Safety Administrator, and take any necessary action to avoid a recurrence.

Radiation Protection Supervisors and Laser Officer
The Radiation Protection Supervisors are statutory appointments made in writing by the Head of Department. Their role is to ensure all work with radiation complies with UK regulations and local rules. Further safety roles are also appointed by the Head of Department to ensure the safety of workers using specialised equipment or samples, and to maintain implementation of regulations, training and record keeping.

Supervision, training and information
All staff in a supervisory position must be familiar with the University Health and Safety Policy, and recognise that they have in this respect responsibility for those whom they supervise. This means promoting and practising good working standards, ensuring equipment is maintained in a safe condition, ensuring that instructions and training are in place, recorded and being followed, and reporting and investigating accidents in order to identify and implement remedial measures. Where students are involved, this person is the teaching officer connected with the teaching of undergraduate studies, or the academic supervisor for post-graduate research and teaching.

All staff in a supervisory position should be proactive in ensuring that all those under their supervision have an appropriate level of information, training, and supervision for the tasks they are required to undertake. Information and training given for lab work must be documented, dated and signed on the individual’s ‘At Bench’ training record, with other training recorded on the individual's Personal Training Record.

Teaching
On the spot responsibility for student safety in classes falls to the Teaching Officer in charge of the class. The Officer must ensure that the activity of practical classes and field trips is risk assessed and significant findings recorded, and that all equipment is safe and its use verified either by a test certificate or by demonstration, whether in the laboratory or outside the Department. Postgraduate students and casual demonstrators are not expected to carry responsibility for class safety. Nevertheless, they have responsibility as individuals to conduct their work safely and advise undergraduates of safe practices and point out to the Officer in charge any deviations from safe practice.

Involvement and example
Maintenance of safe and healthy working conditions requires the active involvement of ALL staff and students, each of whom has a duty of care for his or her own safety, and that of others, and to co-operate with the staff so as to enable them to carry out their responsibilities properly. It is also the aim of the Department that all its members, especially those in supervisory roles, lead by example and training to engage the commitment, and encourage, staff and students to develop an attitude of mind which embeds good safety practice as normal.
**Competent advice**
Each member of the academic staff is to seek competent advice when necessary, and to take particular care when he or she initiates some piece of work, referring to codes of practice and standards laid down in the University Guidance and Department Safety Manuals. He or she should refer to the Safety Officer or Safety Administrator, as appropriate, and through them to the University Safety Advisor when necessary.

**Notification of hazards**
All staff and students are to bring to the attention of supervisory staff any potential hazard of which they know or learn, whether in the course of work or arising from faults in equipment.

**BPI Safety**
Safety information for members of the BP Institute Laboratories is available at [www.bpi.cam.ac.uk/safety](http://www.bpi.cam.ac.uk/safety) including policies, procedures, rules and guidelines covered during the difference inductions for the different labs. Blank risk assessment forms and other templates relevant to the BPI can also be found here.

### FIRE AND EMERGENCY EVACUATION PLAN

**All buildings: Evacuate immediately when the fire alarm sounds**

| The intermittent or continuous sounding of the alert requires the evacuation of all buildings (Downing Site and Bullard Labs) |

If you discover a fire:

1. Raise the alarm at the nearest manual break glass call point, which will operate the alarm system and activate the sirens to alert occupants to evacuate the building.
2. Call emergency services on 999 and tell them your location and address of building.
3. **Leave the building immediately** via your nearest fire exit and go straight to the designated Fire Assembly Point which is on the lawn outside Archaeology and Anthropology at Downing Site and main car parks at Bullard.
4. Shut off electrical equipment.
5. Shut doors and windows as you leave, only if safe to do so.
6. Do not use lifts.
7. Do not stop to collect personal belongings.
8. Assemble on the lawn outside Archaeology and Anthropology at Downing Site and designated car parks at Bullard.
9. Immediately report any missing person known to have been in the building to the Fire Manager or senior member of staff present.
10. **Do not re-enter the building** until given permission by Fire or Security Personnel.
11. Inform the Fire Service officer (who will on arrival assume responsibility for fighting the fire) about any special hazards to be taken into account in fighting the fire.
12. If the fire is small and contained (i.e. paper bin) and if you are trained and know which fire extinguisher to use you may try to put the fire out – **ONLY IF IT IS SAFE TO DO SO**. If you are unsure, **leave the building - do not put yourself or others at risk!**

**Disabilities:** If an emergency evacuation of the building becomes necessary, assistance will be given to people with disabilities. If you are aware of anyone in this category, or invite any disabled visitors or guests, please inform the Department Health and Safety Officer before their visit. Staff and students are always responsible for their visitors, instructing them what to do in case of fire.

**University Security personnel** will respond in all fire situations. If you have to evacuate the building out of normal hours when there is no department fire team or management on site, go to the assembly point where you will come under their guidance. Senior members of Earth Sciences will be called to the site by them.

**Do not wait to be told to leave. Do not assume it is a drill!**
In an emergency, call for help as follows:

### IN WORKING HOURS

<table>
<thead>
<tr>
<th>First Aiders</th>
<th>Downing Site</th>
<th>Bullard Labs</th>
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<tbody>
<tr>
<td>Charlie Aldous (HF)</td>
<td>33465</td>
<td>Richard Alloway</td>
</tr>
<tr>
<td>Jason Day (HF)</td>
<td>65282</td>
<td>Sanne Cottaar</td>
</tr>
<tr>
<td>Lucy Matthews</td>
<td>33470</td>
<td>Sarah Finney</td>
</tr>
<tr>
<td>Christopher Parish</td>
<td>33467/33436</td>
<td>Dudley Simons</td>
</tr>
<tr>
<td>James Rolfe</td>
<td>64914</td>
<td>Joanna Starkie</td>
</tr>
<tr>
<td>Andrew Stephenson</td>
<td>33400</td>
<td>Sandra Freshney</td>
</tr>
<tr>
<td>Rob Theodore (HF)</td>
<td>33931/33456</td>
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OR contact Reception/Switchboard on 33400 to arrange help immediately

<table>
<thead>
<tr>
<th>Nearest other First Aiders</th>
<th>Anatomy Reception</th>
<th>Physiology Reception</th>
<th>Plant Sci Reception</th>
<th>Chemistry Reception</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lucy Matthews</td>
<td>33470</td>
<td>Dudley Simons</td>
<td>33476</td>
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</tr>
<tr>
<td>Andy Buckley</td>
<td>33421</td>
<td>Dudley Simons</td>
<td>37198</td>
<td></td>
</tr>
<tr>
<td>Martin Walker</td>
<td>33476</td>
<td>Dudley Simons</td>
<td>37198</td>
<td></td>
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<tr>
<td>Charlie Aldous</td>
<td>33465</td>
<td>Andrew Pluck</td>
<td>37199/37198</td>
<td></td>
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<thead>
<tr>
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<th>Lucy Matthews</th>
<th>Dudley Simons</th>
<th>37198</th>
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<tbody>
<tr>
<td>Dept Administrator</td>
<td>Andy Buckley</td>
<td>33421</td>
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<thead>
<tr>
<th>Principal Technician and Fire Manager</th>
<th>Martin Walker</th>
<th>Dudley Simons</th>
<th>37198</th>
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<tbody>
<tr>
<td>Deputy Fire Manager</td>
<td>Charlie Aldous</td>
<td>33465</td>
<td>Andrew Pluck</td>
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<table>
<thead>
<tr>
<th>Emergency Services</th>
<th>From any internal phone</th>
<th>From any internal phone</th>
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<tbody>
<tr>
<td>Fire/ambulance/police</td>
<td>1 999</td>
<td>1 999</td>
</tr>
<tr>
<td>University Security</td>
<td>31818</td>
<td>31818</td>
</tr>
<tr>
<td>Site Porter</td>
<td>33864</td>
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### OUT OF WORKING HOURS

University Security Control Room: Emergency number 101
General number e.g. if any of the building alarms go off: 31818

**WORKING OUTSIDE THE DEPT:**

In an emergency contact: University Security +44 (0) 1223 331818

**ON HEARING THE FIRE ALARM**

**EVACUATE THE BUILDING IMMEDIATELY**
EMERGENCY PHONES
(Downing Site)
ACCIDENTS, INCIDENTS AND FIRST AID

What to do in the case of injury
Call a First Aider (see list p 9) or ring Reception (33400) for Downing Site. If no First Aider is available in working hours call one from a nearby Department. Names and numbers can be found in the University telephone directory. Out of working hours, call Security (31818).

Emergency phones are located around the Earth Sciences Dept on the Downing Site (see p 11).

If the Emergency Services are required, dial 1-999 on any internal phone. For Downing Site, direct emergency services to the Department of Earth Sciences, specifying Downing Site, Tennis Court Road. Send someone to meet them at the entrance to the site. For Bullard Labs, specify Madingley Road, next to Conduit Head Road and mention that current satnav systems using correct postcode, CB3 0EZ, misdirect vehicles to Huntingdon Road. Whoever places the call must give their own extension number or mobile number and emphasize that the call centre should ignore the 336633 (main University) number that shows up when the call is placed. Arrange for someone to meet them at the bottom of drive at Bullard and take them to the patient/casualty.

First aid boxes are available throughout the Department. Members must acquaint themselves with the position of the box nearest to their place of work. If items from the first aid box are used, please inform the Safety Administrator (Downing site) or Dudley Simons (Bullard) so they can be replaced.

Reporting Accidents and Incidents
All accidents, incidents, and dangerous occurrences in the Department or on University business (including field trips) must be reported as soon as practicable, preferably within 24 hours. If you are in the field, you should telephone the Department as soon as possible. All accidents, whether causing injury or not, must be reported on a University Accident and Incident Report Form (Part A) as soon as possible. The form needs to be completed either by the person concerned, the attending University Appointed First Aider, or by any other witness. The following people can help with completion of the form, which should then be given to one of them for processing:

**Downing Site:** Lucy Matthews (Safety Officer) or Celia Hobbs (Safety Administrator);
**Bullard Labs:** Dudley Simons or Gill Turner

To comply with the Data Protection Act 1998, do not make any copies of the completed form before you hand it over. Forms are in the first aid boxes, may be downloaded from the Department safety webpage, and are available from Lucy or Celia Downing Site and Gill or Dudley at Bullard. The University Safety Manual “First Aid Handbook” includes further details of accident reporting procedures.

Accidents involving damage to equipment must also be reported to the Principal Technician (Room S032), Downing Site, Dudley for Bullard. ‘Near misses’ must also be reported so that future accidents can be avoided.

Fieldwork
All fieldwork must be risk assessed and details on contacts, insurance and this risk assessment given to Lucy Matthews/Celia Hobbs. Accidents occurring in the field must be reported in the same way as those within the Department. Accident forms are provided in the green first aid kits and in the safety folders on taught undergraduate field trips.

The level of First Aid required for each field trip must be considered as part of the risk assessment. All leaders, demonstrators and research fieldworkers are strongly recommended to take part in a certificated 2-day Outdoor First Aid Course given by Marlin Training held in Earth Sciences twice a year. These courses are arranged through Lucy and Celia. First Aid training courses are also available through the University. First Aid kits and other items of safety equipment are available for loan from Lucy and Celia (S034/N014). People undertaking fieldwork abroad can obtain advice on first aid, vaccinations etc from the University Occupational Health Nurse at 16 Mill Lane. They can be contacted on (3)36594 or see the website http://www.admin.cam.ac.uk/offices/oh.
VISITORS AND CONTRACTORS

A safety leaflet showing the location of all exits and the fire assembly point is given to all visitors to the Downing Site as they register at Reception on arrival.

**Visiting scholars or research workers** must register their names with the Department Administrator. They must be provided with and read the Safety Policy and this Handbook, and any other information required for them to work safely and in accordance with UK Health and Safety law.

**All contractors, service engineers and company representatives** must report to Reception and identify a contact name in the Department. That contact person will be responsible for overseeing the conduct of the persons concerned whilst on site. The contact person must also ensure that they have drawn the attention of the visitor to any local conditions that may affect their health and safety and that any work carried out by them does not affect the health and safety of other Department users. Contractors are required to obtain permission to work from an authorised member of the Department. In the cases of Hot Work or Roof Access, the proper written permission must be obtained from Martin Walker at the Downing Site, Dudley Simons for Bullard, before work can commence.

**Casual visitors** are discouraged. Friends and relatives are the responsibility of the member of Department who invites them.

For **parties from schools or other organisations**, formal arrangements must be made for sufficient guides to ensure their safety. For all children (including those on work experience) entering the Department please refer to Children and Vulnerable Adults Safeguarding Policy [http://www.hr.admin.cam.ac.uk/policies-procedures/children-and-vulnerable-adults-safeguarding-policy]. For public events including Open Days, public lectures, etc., each event must be risk assessed to ensure suitable and sufficient arrangements have been made for the safety of all participants.

**Sedgwick Museum visitors** should not be let into the Department. It can cause visitors distress as they can become disoriented or trapped inside. Unsupervised visitors can also pose a security risk. If Museum visitors need to use the lift, e.g. for buggies or wheelchairs, please direct them to the intercom outside the Department Entrance and a member of Museum staff will come down to assist them. The only way into the museum without a University Swipe Card is by the outside steps.

LABORATORY FACILITIES

Details of the main Department laboratory facilities are available on the Department website.

The observance of safe practice is a condition of use of any Department facility, and it is the responsibility of all members of the Department to ensure that before using any facility they consult and have formal permission from the Head of Section and, if appropriate, the Local Safety Officer for the laboratory, who will arrange training or instruction in the safe use of that facility. All users must be properly acquainted with the operation of the equipment and with the emergency and safety procedures to be followed in its use. For all activities, a risk assessment must be carried out, and a Chemical Hazard Risk Assessment form completed if appropriate (see section on CHEMICAL SAFETY). Specific safety procedures also apply to work involving hydrofluoric acid, cryogenic liquefied gases, radioactive substances, x-rays, lasers, and ultraviolet light. Any member of Department whose work involves any of these must ensure they have a thorough knowledge of the current procedures and appendices involved, and have had any necessary health checks before starting work.

In the event of an accident causing personal injury, contact Reception for a First Aider or dial 1-999 for the Emergency Services.

If equipment is damaged, the staff member in charge must be informed immediately, and a University Incident Report Form filled in (available from the Department website and Lucy Matthews, S034, Downing Site or Dudley Simons, at Bullard). Appropriate emergency procedures must be followed. These will usually be referred to in the code of safe practice for the section and users must familiarise themselves
with them. All accidents must be reported to the Safety Officer, Safety Administrator or Principal Technician as soon as possible.

Visitors are not permitted to enter an experimental laboratory, unless authorised by the academic staff member in charge.

Periodic safety inspections of the whole building are organised by the Safety Officer, and the results are reported to the Department Safety Committee.

**Safety Protocols** for all areas are displayed on the wall of each laboratory, and risk assessments are kept in the safety file for each Section. These are living documents and are revised regularly, so users must ensure that they are aware of the current versions and must abide by their contents.

The full complement of Safety Protocols and appendices is available on the Safety section of the Department's website under the heading "Department Codes of Safe Practice”. All forms and appendices to these Codes of Safe Practice are also available in the same way, and laboratory workers must abide by their contents.

### ACCESS TO WORK

**SPECIFIC OR ADDITIONAL NEEDS**

Forward planning is essential to ensure that all members of the Department can be confident of a safe and comfortable working environment. Any member of Earth Sciences having individual specific or additional needs, e.g. in regard to mobility, work station assessment, manual handling, allergy, etc., should contact Lucy Matthews or Celia Hobbs, Downing Site, and Dudley Simons at Bullard, so that any equipment or adjustment required can be arranged. Any injury or disability disclosed will be treated as confidential.

Useful contacts and websites include:

Lucy Matthews– Downing Site, room S034, tel 33470, email lhm29@cam.ac.uk or Celia Hobbs, room N014, tel 68347 and chob07@cam.ac.uk

Dudley Simons, Bullard Labs, tel 37198 drs1005@esc.cam.ac.uk

Occupational Health – 16 Mill Lane, Cambridge, tel (3)36594, http://www.admin.cam.ac.uk/offices/oh


### SECURITY

University or College ID Cards should be carried at all times and made available upon the request of Security and Department personnel.

If you have not received a card, or have misplaced, damaged or have any other problem concerning your University card, contact Martin Walker (tel 33476) or Lucy Matthews (tel 33470) for Downing Site, or Gill Turner (tel 37191) for Madingley Rise, who will contact the Card Office.

A card entry system is fitted on the Main Entrance inner doors and the Museum side door on Downing Site. All entrances to the buildings at Madingley Rise have proximal card readers.

All visitors to the Department must sign in at Reception and wear a visitor’s badge. If you see someone you do not recognise or ‘looking lost’ you have every right to ask who they are and offer help. Ask them who their supervisor is, or who they are looking for. Do not attempt to challenge anyone aggressively,
you could put yourself or others in danger. If possible, make a note of their appearance and the time that you saw them, and report this to Martin Walker for Downing Site or the Bullard Safety Officer, Dudley Simons (37198) for Bullard Labs. If in doubt, contact Security on 31818.

**Keep all rooms locked when unoccupied.**

Do not leave bags or packages unattended, as they will be treated as suspicious. If you receive a suspicious package through the post, do not attempt to open it, but contact Security immediately.

If you see anything suspicious, whether a person, unattended package or bag, or anything else which gives you cause for concern, contact Martin or Dudley. Out of hours, call Security (31818).

**Suspected Theft**

If something goes missing in the Department and you suspect it has been stolen, report it immediately to Martin Walker or Dudley Simons, who will assist you in filling out a Missing Items Report.

Out of hours, report the loss directly to the police and obtain a crime number; report the incident to Martin or Dudley as soon as possible.

If there appears to have been a break-in or damage to the area, then also report the incident to Security, so the area can be made secure.

Please note that private items are not covered by the University Insurance.

There are now regular security patrols on both sites at night and vehicles must not be left overnight without clearing it with Martin or Dudley Simons in advance.

**LIFTS**

There are two lifts on Downing Site: North Wing and South Wing, and three lifts at Bullard: in the BP Institute, Wolfson Building and Brighton Building. Do not use any lifts outside normal working hours, or when there is no-one else working in the building.

**Do not use any lift when the fire alarms are sounding.** Assistance in evacuation will be given if required. Do not use any lift ‘out of hours’ at night or weekends in case of breakdown and do not travel in a lift with any pressurised gas cylinders or with dewars of cryogenic liquids or with bulk containers of hazardous substances.
OUT OF HOURS WORKING

Working hours for the Department of Earth Sciences at the Downing Site are: 08.45-13.00, and 14.00-17.00 and 08.00-17.00 at the Bullard Laboratories, Monday to Friday. Outside these hours and at all times at weekends, the following conditions apply:

Offices
If working in the Department late at night or at weekends, tell others of your plans and liaise with other people working late. Learn how the alarm system works. If you are nervous about leaving, phone Security on 31818; they will see you out of the building on one of their regular patrols. *(If you wish you can contact Security who will check in regularly with you but you must conform to their instructions.)*

Time and working restrictions also apply to areas remote from the Department: these are identified in the safety procedures of the individual area. The Head of Section and/or your Supervisor must also be informed of your intention.

Equipment and Laboratories
Checks before leaving work at night and at weekends
It is important to double check laboratories before leaving at night:
  - as much apparatus as possible should be switched off and unplugged
  - individual gas appliances should be turned off locally as well as at the main supply
  - doors and windows should be closed.

Equipment running at night and at weekends
The permission of the academic staff member in charge of a facility must be obtained before apparatus is left running overnight. All appropriate procedures laid down in the Code of Safe Practice for the Section must be followed and a sign posted in a prominent position showing instructions for switching off the equipment in case of emergency.
Any equipment which may run overnight on mains electricity and which is plugged in to a socket must be labelled on the plug with a registered number. See section on Electrical Safety for details (p24).

Laboratories on Downing Site
(a) Working in laboratories out of hours is allowed only with the specific prior written permission of the Head of Section. Particular care must be taken when using any equipment, or electrical testing of equipment or buildings, changing any pressure line, and cylinders or prototype experimental work. **NOTE: Rock cutting out of hours is strictly forbidden.**

Out of hours, the research worker must be
  - accompanied by another member of the Department whilst working in the laboratory and be fully aware of:
  - safety procedures of the laboratory concerned and be able to turn off and make safe
  - emergency exits
  - location of first aid boxes
  - location of a telephone in case of an emergency
  - how to call for help in an emergency.

(b) Out of hours Chemistry Laboratory use
In addition to all points in part (a) above:
  - The use of any of the chemistry facilities requires compliance with the regulations in the respective laboratory.
  - There must be no use of HF acid or hydrazine hydrate.
  - There must be no decanting of acids from large to small containers.
  - There must be no movement of acids around the Department.

Laboratories on Bullard
The laboratories on site are controlled by their individual managers, who will agree rules with the Bullard Safety Officer, Dudley Simons, for any out-of-hours working and inform him when this is to occur. **Only low-risk assessment work will be allowed.** Running of lab equipment out of hours must be agreed beforehand with Dudley, who will ensure that the equipment is safe to be left running unattended and does not pose a risk. *(An automatic time switch turns off power in all labs at 5 pm.)*
The hazards and risks associated with office work are significant and should not be ignored.

(i) There are a number of physical hazards to avoid:
(a) trailing cables - put behind desks or use cable covers
(b) overloaded plug sockets - ask for more sockets
(c) shelves piled high with books/files - ask for more shelves, use bookends
(d) overstretching to reach items - get a step-stool.

(ii) The main, avoidable physical hazards associated with office work are those relating to long periods sitting, especially when combined with regular computer use: back strain; upper limb disorder also known as repetitive strain injury; eye strain.

(iii) To help with the above, simple arrangements can improve posture and reduce eye strain:
(a) Adjust the chair and screen so that your arms are about horizontal on to the keyboard and your eyes at the same height as the screen. Do not sit with your neck bent down – use a document holder to raise papers to screen level. A space in front of the keyboard may be helpful for resting the wrists whilst not typing.
(b) Make sure you have enough space underneath the desk to move your legs freely. Try to keep your feet flat on the floor with your ankles and knees forming 90° angles.
(c) Avoid excessive pressure on the backs of your legs/knees. A footrest may be helpful.
(d) Adjust the chair back to support your lower back. Do not sit for long periods in the same position: walk around and stretch gently, or do something else such as photocopying.
(e) Do not bend your wrists up when typing or overstretched your fingers.
(f) Arrange your screen so it does not reflect bright lights and so that characters do not flicker or move. Use the brightness control to find a comfortable level for your eyes.
(g) Rest your eyes by looking away from the screen and focusing on a distant object and clean your screen regularly.

(i) DSE users are advised to complete a Work Station Risk Assessment form to identify and address any potential problem areas. Frequent rest breaks are recommended i.e. a 30-second break from DSE use every 5 minutes is better than a longer break once an hour. To reduce eyestrain, look across the room at frequent intervals to allow your eyes to change focus.

(j) If you are having any problems with posture or eyes at your desk, seek help from Lucy Matthews at Downing Site or via Dudley Simons at the Bullard. They can also assist on the availability of eye tests and other DSE-use advice from Occupational Health.
① SEAT BACK ADJUSTABILITY
② GOOD LUMBAR SUPPORT
③ SEAT HEIGHT ADJUSTABILITY
④ NO EXCESS PRESSURE ON UNDERSIDE OF THIGHS AND BACK OF KNEES
⑤ FOOT SUPPORT IF NEEDED
⑥ SPACE FOR POSTURAL CHANGE; NO OBSTACLES UNDER DESK
⑦ FOREARMS APPROXIMATELY HORIZONTAL
⑧ MINIMAL EXTENSION, FLEXION OR DEVIATION OF WRISTS
⑨ SCREEN HEIGHT AND ANGLE SHOULD ALLOW COMFORTABLE HEAD POSITION
⑩ SPACE IN FRONT OF KEYBOARD TO SUPPORT HANDS/WRISTS DURING PAUSES IN KEYING.
## Workstation Risk Assessment Form

<table>
<thead>
<tr>
<th>Workstation user:</th>
<th>Location:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessor:</td>
<td>Date of assessment:</td>
</tr>
</tbody>
</table>

### COMPUTER

<table>
<thead>
<tr>
<th>Screen:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Are the characters readable?</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the image stable?</td>
<td>Yes</td>
</tr>
<tr>
<td>Can brightness and contrast be adjusted?</td>
<td>Yes</td>
</tr>
<tr>
<td>Does the screen swivel and tilt?</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the screen free of glare and reflections?</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Notes:**

### Keyboard and mouse:

<p>| |</p>
<table>
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<tbody>
<tr>
<td>Can the keyboard be tilted?</td>
</tr>
<tr>
<td>Can a comfortable keying position be found?</td>
</tr>
<tr>
<td>Can the hands be rested in front of the keyboard?</td>
</tr>
<tr>
<td>Can the characters on the keys be read easily?</td>
</tr>
<tr>
<td>Is the keyboard clean?</td>
</tr>
<tr>
<td>Is the mouse positioned close to the user?</td>
</tr>
<tr>
<td>Can a comfortable position be found when using the mouse?</td>
</tr>
</tbody>
</table>

**Notes:**

### Software:

<p>| |</p>
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<tbody>
<tr>
<td>Is the software easy to use and suitable for the task?</td>
</tr>
</tbody>
</table>

**Notes:**

### FURNITURE

<p>| |</p>
<table>
<thead>
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<tbody>
<tr>
<td>Is the work surface large enough?</td>
</tr>
<tr>
<td>Is the surface free of reflections and glare?</td>
</tr>
<tr>
<td>Is the chair suitable and stable?</td>
</tr>
<tr>
<td>Do the adjustment mechanisms work?</td>
</tr>
<tr>
<td>Are you comfortable?</td>
</tr>
</tbody>
</table>

**Notes:**

### ENVIRONMENT

<p>| |</p>
<table>
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<tbody>
<tr>
<td>Is there enough room to change position and move/stretch?</td>
</tr>
<tr>
<td>Are the levels of heat, light and humidity comfortable?</td>
</tr>
<tr>
<td>Is there a source of fresh air?</td>
</tr>
<tr>
<td>Is the noise level acceptable?</td>
</tr>
</tbody>
</table>

**Notes:**
## HEALTH

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyestrain?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pain in the back/neck/shoulders?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pain in the arms (elbows/wrists/hands)?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pain elsewhere? (please specify)</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

If the answer to any **health issue** above is YES, has this been reported to the Safety Officer?  
Yes □ No □

Has a doctor or Occupational Health been consulted?  
Yes □ No □

## WORKING PRACTICE

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have you read the guidance and best practice advice for DSE users?</td>
<td>Yes □ No □</td>
<td></td>
</tr>
<tr>
<td>Have you installed interruption software?</td>
<td>Yes □ No □</td>
<td></td>
</tr>
<tr>
<td>Do you know who to ask for further advice?</td>
<td>Yes □ No □</td>
<td></td>
</tr>
</tbody>
</table>

## ACTIONS NEEDED TO REMEDY PROBLEMS

(Continue on separate sheet if necessary; write NONE if no action is required)

## ACTIONS COMPLETED?

User, Safety Officer or Line Manager to sign below.  
Yes □ No □

Name:  
Signature:  
Date:

## DECLARATION

(For a self-assessment, the user should sign below)

The above assessment is, to the best of my knowledge, an accurate statement of the current state of my workstation.

Name:  
Signature:  
Date:

## REVIEW DATE

(normally, 12 months hence):
RISK ASSESSMENT

A risk assessment identifies potential hazards inherent in the task or experiment and recognises the likelihood of foreseeable accidents, injuries or near misses occurring. Realistic and practical precautions and control measures are then instigated to ensure the safety of those who may be exposed to these hazards. The person planning the experiment or operating the equipment must write the risk assessment. The ruling is that those who create risks must manage them responsibly. http://www.hse.gov.uk/risk/fivesteps.htm gives straightforward guidance on how to write a risk assessment.

Fieldwork
Individuals must write a Field Risk Assessment relevant to their field conditions at the planning stage of all their fieldwork. Assistance is available from Lucy Matthews and Celia Hobbs (Downing Site) and examples of possible hazards and relevant control measures can be found in the Field Risk Assessment. Blank forms and the example Field Risk Assessment can be downloaded from http://www.esc.cam.ac.uk/resources/health-and-safety/safety-forms.

Laboratory Experiments
Heads of Sections (see p 4) are responsible for ensuring that risk assessments are in place for all experimental procedures carried out in the laboratories for which they are responsible. However, if you devise an experiment or procedure, you are responsible for writing the risk assessment. If any chemical substances are to be used, a Chemical Hazard Risk Assessment must be made, which lists details of all hazardous chemicals used. Risk assessments are reviewed annually by Heads of Section, Local Safety Officers and users, generally in October, or at any time there is a change in the procedure. Before use of any labs can be authorised by the Head of Section, all users must complete a Use of Laboratories Permission Form. As part of this process, users must check that risk assessments are in place and are valid for all procedures they intend to undertake or write new risk assessments. “At Bench Training” records provide a signed and dated record that all lab users have received comprehensive training in the techniques utilized in their chemical work.

All laboratory safety forms are available from Heads of Sections, Local Officers for Safety, and from Lucy Matthews (Downing site) and Dudley Simons (Bullard), or can be downloaded from the Safety pages of the Department website. (http://www.esc.cam.ac.uk/resources/health-and-safety/safety-forms).

CHEMICAL SAFETY

The University Chemical Safety Training Course is given by John Hulme, University Chemical/Physical Safety Advisor. This 3 hour safety course is held at intervals throughout the year and all members of Earth Sciences and visitors planning to use hazardous chemicals in their research must attend this course before any work commences in any Earth Sciences lab.

The Annual Chemical Safety Review of all Lab safety forms will be on Friday 6 October 2017, at 11 am in Harker seminar room II (Friday of Week 1, Michaelmas Term). Anyone unable to attend this chemical safety meeting but still needing to use hazardous chemicals or work in an Earth Sciences lab, please contact Lucy (lhm29@cam.ac.uk) to discuss the relevant safety measures and to arrange to attend the Chemical Safety Training Course at an alternative time.

CHEMICALS HAZARDOUS TO HEALTH (COSHH)

Please consult the Earth Sciences Chemistry Officer, Dr Jason Day (jafd2@cam.ac.uk) when planning new laboratory experiments using chemicals.

The COSHH Regulations require all individuals working with substances that can cause certain identifiable diseases or adverse health effects to be kept under health surveillance. For most workers this is confined to maintaining a record of a person’s involvement in such work. Individuals who work with respiratory sensitizers, mercury, latex, arsenic and skin sensitizers will have additional health surveillance arranged by the Occupational Health Service. These are available at http://www.safety.admin.cam.ac.uk/publications/hsd033c-coshh-health-record-form.
As a precautionary measure the University also requires health surveillance for all individuals working with Nanoparticles. Therefore, all persons working with nanoparticles should use this health record form and register with the University’s Occupational Health Service.

For further information on the criteria for health surveillance see the University’s Hazardous Substances Policy - http://www.safety.admin.cam.ac.uk/publications/hsd002c-hazardous-substances-policy

Earth Sciences has specific regulations for use of the following chemicals:

**Hydrofluoric acid**

*Only trained personnel may use HF.* A University training course ‘Using Hydrofluoric Acid Safely’ can be booked through Occupational Health and Safety Service training programme @ http://www.training.cam.ac.uk/ohss/. Anyone working with HF must be fully aware of the first aid measures to be taken in the event of an accident and have checked there is running water and a supply of ‘in date’ calcium gluconate gel to hand. Before starting any use of HF, ensure all safety measures and PPE are in place. You must alert an HF First Aider to ensure help can be given immediately should a spillage occur. Never handle beakers or bottles containing HF outside normal working hours. The Department Chemistry Officer, Dr Jason Day (jafd2@cam.ac.uk), can be contacted for more information. You must abide by the safety instructions for HF given in Appendix 3 of the Safety Protocols on the Department’s website.

**Hydrazine hydrate and hydroxylamine hydrochloride**

A COSHH Health Record Form must be completed before you may use hydrazine hydrate (R43, R45) or hydroxylamine hydrochloride (R42, R43). These are available from your Local Safety Officer, Department Chemical Officer or from the Earth Sciences Safety Officer. Copies must be sent to Earth Sciences Safety Officer to be recorded and forwarded to the University Safety Office.

Also read the section on Chemical Waste Disposal in this handbook.

### PERSONAL PROTECTIVE EQUIPMENT

The Department provides appropriate PPE to protect employees who may be exposed to risks to their health and safety except where they have been adequately or more effectively controlled by other means. It is generally the employee’s responsibility to use it in accordance with training and instructions, to keep it in good condition as appropriate, and to report any losses or defects which may occur.

#### Noise

Ear defenders and disposable ear-plugs are available in laboratories and workshops where noise from machinery/equipment may be excessive. Lucy Matthews or Dudley Simons should be contacted if a problem arises. Areas where ear protection is mandatory are clearly marked. Appropriate hearing protection is available in these areas, and new users will receive training in its use.

#### Eye protection

Safety glasses with high impact protection must be worn in all workshops. Prescription safety glasses can be provided for people who need them (contact Lucy Matthews, Downing Site, or Dudley Simons, Bullard Labs, for details). Goggles or face shields must be worn when working with chemicals to protect from splashes and the full-face shield must be worn when decanting liquid gases (see ‘Appendix 6: Liquefied Gases’ on the Health and Safety section of the Department website). Shielded glasses or goggles must be worn when making thin sections to avoid glass chips in the eyes. A special face and eye mask must be worn when welding.

*If you need to use safety glasses, consider the person working next to you too!*

#### Breathing protection

Suitable masks must be worn when working with wood or rock dust. Various types are available, as recommended by the manufacturers, and must be fitted to your face shape. Facemasks are a part of breathing protection and must be considered together with mechanical extraction and ventilation. A bag valve mask for dealing with breathing difficulties in HF emergencies is kept in HF Crash Kit on 4th floor stairwell above the locker/storage cabinet (to be used only by an HF-trained University First Aider).

#### Hand protection
For all chemical work, ensure that you wear the right type of gloves for the job. Check they are not damaged and change them frequently. For some jobs, double gloves may be appropriate. Heavy-duty gloves are provided in the workshops for welding and heavy lifting etc. First Aiders must ensure they have disposable gloves in the first aid kits. Latex gloves are no longer permitted for use in the University, except where risk assessment has shown that other types are unsuitable. All users are asked to be aware of the possibility of latex allergies, which may occur as dermatitis or asthma. If these symptoms develop, please seek advice, initially from Lucy, Downing Site, or Dudley, Bullard Labs. Workers who are obliged to use latex gloves are required to have health surveillance, organised with Occupational Health.

**Laboratory wear**
Suitable laboratory coats must be worn for all chemistry work, workshops, welding, and any laboratory use requiring personal protection. For the ultra-clean geochemistry laboratories use the **full body suit type**: Tyvek® by DU PONT, classic and industrial model category III CE 0120 types 5 and 6.

**Fieldwork**
Hard hats must be worn in certain locations e.g. cliffs, quarries etc. Goggles or safety glasses must be worn when hammering rock. High-visibility vests are recommended for certain situations. (See complete list of requirements in ‘Fieldwork Code of Safe Practice and Good Conduct’.)

**MANUAL HANDLING**

Anyone who needs to lift or move heavy objects should obtain advice on manual handling before beginning. Information is available on the internet as "Getting to Grips with Manual Handling": www.hse.gov.uk/pubns/indg143.pdf.

In-house manual handling courses are available, and anybody who has to lift or move heavy objects as part of their normal duties is expected to attend. (For further details, contact the Principal Technician, Martin Walker, Downing Site, S032.)

Arrangements for dealing with deliveries of heavy objects should be planned in advance. For substantial items of laboratory equipment, etc, the supplier should preferably accept full responsibility for installation in their final location (commitment to this should be obtained in advance in writing). Where this is not the case, it may be necessary to hire removals men. Where unloading of vans etc. is concerned, note that the University's personal accident cover extends only to University premises, and to circumstances where the University has been shown to be negligent in some way. **University personnel are not covered if they board a delivery or removals van.**

In the event of any anticipated difficulties regarding manual handling, Martin Walker should be consulted. Specialised lifting equipment must be used only by persons who have received suitable training in its use. Inform Martin Walker (mgw21 S032) if you bring any lifting equipment onto site as there is a statutory requirement to have all hoists, slings, chains, bolts and shackles etc. inspected.

**WORKSHOP**

Access to the workshops is by permission of workshop personnel only and no work may be undertaken in any workshop without asking them. Workshop staff must ensure that safe working practices are followed and allow only people classed as competent to use equipment and tools.

Permission may be given to borrow some hand tools. All tools used should be checked before use to see that they are in good condition. When handling sharp or heavy metal objects, safety gloves or gauntlets should always be worn.

**ELECTRICAL SAFETY**

Great care must be taken with all electrical wiring and connections. Leads should be as short and direct as possible. Only fused plug tops should be used with appropriate fuse ratings. Electrical wiring must be placed as far away as possible from water supply lines. All sockets and leads must be used within their
power limits – generally not more than 13A, or approximately 3kW per socket outlet. Always plug extension leads directly into the wall socket.

Reel cables should be completely unrolled before use to prevent overheating of the cable. **Do not "piggy-back" extension leads**, as this reduces the earth connection and may give appliance users an electric shock. If there are insufficient wall sockets, see Martin Walker, Principal Technician (Downing Site, S032, or Dudley Simons, Bullard Labs).

All portable appliances must be PAT tested, labelled and recorded by Dudley Simons, the designated tester for the Department. This includes items such as kettles, radios, and mobile phone chargers brought in from home. Fan heaters are not allowed; use approved portable oil filled heaters. Any new electrical installations or changes to existing connections must be by persons competent in electrical practices and must be checked and approved by the designated person on site before use.

Chargers for calculators, laptops, phones etc should be turned off when not in use. Chargers have been found in drawers without the current switched off, which constitute an obvious fire risk. Any equipment left to charge must have the charger switched off overnight.

**Items which are allowed to be left running overnight**
The Head of Section or Local Safety Officer for the lab must register these items with Martin/Lucy or Dudley Simons. The green labels for the plugs and forms for registry are also obtained from Dudley. A risk assessment must be in place for these items. Running of equipment out of hours must be agreed beforehand by the Head of Section, who will ensure that the equipment is safe to be left running unattended and does not pose an added risk. Contact Dudley for the Wolfson Building at Bullard where an automatic time switch turns off power in all labs at 5pm.

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**COMPRESSED GASES AND CRYOGENS**

Compressed gases may be transported and attached only by designated operators, trained in the correct procedures. Do not ride in the lift with pressurised gas cylinders or dewars of cryogenic liquids. Ensure containers of cryogens are operated only in adequately ventilated areas, as evaporating gases displace vital oxygen in the air. There are oxygen depletion monitors in the NMR lab, Bullard Chemistry labs and the Godwin Lab, which also has a carbon monoxide monitor: evacuate the area if these sound, and inform the emergency contact.

Do not attempt to change a gas cylinder yourself. Any suspected leaks must be reported immediately to the local Safety Officer, Head of Section, Martin Walker S032 Downing Site, or Dudley Simons, Bullard Labs, or emergency contact.

Ensure you have the necessary authority, training, personal protective equipment, and safety controls as given in individual risk assessments and laboratory procedures. See also “Appendix 6: Liquefied gases”, on the Department website’s Safety pages [http://www.esc.cam.ac.uk/resources/health-and-safety/safety-appendices/liquified-gases](http://www.esc.cam.ac.uk/resources/health-and-safety/safety-appendices/liquified-gases).

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**HIGH PRESSURE SYSTEMS**

Never alter valves or pumps on high-pressure systems unless you have received full training and operational experience from the Local Safety Officer or Head of Section to the required level of competence. Always comply with the laboratory's risk assessments and safety protocols. Martin Walker should be informed of any equipment containing steam under pressure or other items where the PV product exceeds 250 bar litres. These must be registered with the University Safety Office, regularly inspected and have a written scheme of examination.
The Laser Safety Officer, Dr I Farnan, must be consulted before installing a new laser. The laser safety policy and protocols are available on the Safety pages of the Department website. All intending new users of Class 3B or Class 4 lasers must register with Dr Farnan.

Earth Sciences is committed to keeping all doses from work involving ionizing radiation, X rays and radioactive materials (sealed and unsealed) as low as reasonably possible and well below maximum permitted levels. X-ray machines and all radioactive sources, standards, and spikes are used in conspicuously marked areas with restricted access and must be registered with Martin Walker (S032, Downing Site). The statutory appointment of Radiation Protection Officers and Supervisors (RPO/RPS) is made in writing by the Head of Department. Ian Farnan is RPO for sealed sources, unsealed sources and x-rays, Giulio Lampronti is RPS for sealed sources and x-rays. The relevant Radiation Protection Officer must be involved in planning before changes are made or new experiments developed for radiation work as the RPO/Ss are conversant with the regulations and their role is to ensure the provision of adequate facilities and arrangements for work with ionizing radiations including, where appropriate, the necessary engineering control measures, availability of suitable documented systems of work, personal protective equipment and personal dosimetry. No radioactive source can be purchased without financial provision being made for its disposal. The RPO for X-ray generators, Ian Farnan, will ensure that prior authorisation under Regulation 31 IRR99 (University Form IR014) and critical examination under Regulation 31 IRR99 (University Form IR014) are carried out for all new, altered or relocated equipment.

Risk assessment for new work must be carried out by the operator in conjunction with the relevant RPO/S. The forms and guidance are available at http://www.admin.cam.ac.uk/cam-only/offices/safety/radiation/ir/forms/index.html
All workers must be trained, registered and comply with the ‘local rules’. The University Document ‘Working Safely with Radiation Generators’ http://www.safety.admin.cam.ac.uk/files/hsd017r_march15.pdf has further information.

All unattended water-cooled apparatus must be protected against failure, either by using a thermal switch or, if impractical, by a water-flow control switch. A non-return on/off switch must always be fitted.

To comply with the requirements of the Water Industry Act 1991, for wastewater discharges from University sites, you must not in any circumstances empty down the drain mercury, or any contaminated waste product containing mercury waste, or any other chemical defined as unsuitable in the University Guidance for Discharges to Drains. Failure to comply with effluent discharge consent conditions could result in the Environment Agency taking legal action. Water discharged to drains is monitored on a monthly basis.

At the Bullard, no chemicals should be disposed of via the drains as they are monitored with the exception of water, diluted salt water, and diluted dyes. See Dudley Simons for further information.

If in any doubt as to the suitability of disposing of waste chemicals down the drain, please consult the Department Chemistry Officer, Dr Jason Day (jald2@cam.ac.uk). In general:

1. HF must not be poured down drains, except for trace quantities involved in washing beakers etc, in which case a large excess of water should be used. For disposal of waste HF, see 4 below.
2. Other acids may be disposed of via the drains after dilution to <2% concentration, and rinsed
away with excess water.

3. Some other chemicals may also be disposed of via the drains, for which the permission of the Local Officer for Safety should be sought. If in doubt, consult the University Guidance for Discharges to Drains at: http://www.environment.admin.cam.ac.uk/resource-bank/guidance-documents/emissions-drains and the Dept. Chemistry Officer.

4. The disposal of hazardous chemicals (including contaminated glassware, gloves, tissues etc) is arranged by the Department Chemistry Officer (Jason Day) for Downing Site, Dudley Simons for Bullard. Clearly marked containers must be used for such substances. See Disposal of Laboratory and Chemical Waste Policy at: http://www.safety.admin.cam.ac.uk/publications/hsd018c-disposal-chemical-and-laboratory-waste-policy

The Chemistry Officer/Dudley Simons will arrange for the collection and disposal of chemical wastes in accordance with University procedure.

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**ENVIRONMENTAL IMPACT**

The Department has a Green Impact Team (green-impact-team@esc.cam.ac.uk) and Environmental Coordinators: Celia Hobbs and Lucy Matthews (Downing Site), Dudley Simons (Bullard Labs and BPI).

The University of Cambridge has an Environmental Sustainability Vision, Policy and Strategy setting out the University's commitment to achieving outstanding environmental sustainability performance. The Department of Earth Sciences fully complies with the University's Environmental Policy and, where it can, follows all environmental guidelines. The Department encourages staff, students and visiting researchers to play an active role in creating and maintaining a good working environment. Teaching, research and other activities are conducted with reference to current best practice and students also are encouraged to be aware of the environmental issues relating to their work and to use current best practice.

The following tips give some suggestions for how you can help.

**Energy**
- **The University spends £16 million on energy each year.**
- The University target is to reduce carbon emissions from energy use by 34% by 2020 (against a 2005 baseline).
- This can be achieved through some simple steps – such as switching off lights and equipment when they are not being used. A single light left on overnight over a year accounts for as much greenhouse gas as a car driving from Cambridge to Paris.
- Always dress appropriately for the season to reduce the need for additional heat or cooling.
- Where possible, use the stairs rather than the lift.

**Food and drink**
- Department mugs have been provided for use at coffee/tea times and for meetings, instead of plastic cups.
- University cafés have a range of sustainable options. (Why not try the vegan option? Did you know the biggest impact individuals can make around food is reducing meat and dairy intake?)
- All of the University cafés’ disposable packaging (Vegware), as well as any food waste, can be recycled in food waste bins.

**Waste and recycling**
- **The University's waste from a single year weighs as much as the London Eye.**
- The University has a target to send no non-hazardous waste to landfill by 2020.
- Reducing and reusing allows us to decrease the amount of waste that will need to be recycled. Think how you can achieve this by taking simple steps, such as printing double-sided, and only printing when really necessary.
- There are separate recycling facilities at the Downing Site and at the Bullard for food waste, glass, mixed recycling (paper, cardboard, plastic bottles, plastic containers, cartons, plastic
wrapping, cans and tins), batteries, print cartridges etc. For further details, and info on other things we can recycle, please see the Recycling Facilities section.

Water
- **The University spends £0.7 million per year on water.**
- The University is committed to a 20% reduction in water use by 2020.
- Cambridge is in one of the driest areas of the country so saving water is particularly important here.
- Help save water by not leaving taps running.
- If you see a leak or a drip, report it to Martin Walker or Reception.

Get more involved
- Keep up-to-date with news and opportunities by subscribing to the Greenlines newsletter.
- Visit the Environment and Energy Section’s student webpage to find out more about projects including Green Impact and the Living Laboratory for Sustainability.
- Email environment@admin.cam.ac.uk with any questions or to find out more about any particular opportunity.
- Opportunities include paid internships, support running your own environmental project, and Institute of Environmental Management and Assessment (IEMA) accredited auditor training and experience through Green Impact.
- Contact your Green Impact team green-impact-team@esc.cam.ac.uk to find out what opportunities there are to get involved in the Department, and to pass on your ideas for how the Department could be more sustainable.

**RECYCLING FACILITIES**

- Look for the posters on or near the bins which say what should be placed in each. If bins do not have posters, please tell the Green Impact team (green-impact-team@esc.cam.ac.uk).
- Most things can be recycled but key exceptions are crisp packets, paper towels/tissue paper and polystyrene (they need to go in the general waste bin NOT recycling).
- Most plastics can be recycled so if in doubt, put plastics in the recycling bin.
<table>
<thead>
<tr>
<th><strong>Batteries</strong></th>
<th>Downing Site</th>
<th>Bullard</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is a collection point in the Reception area. Lithium and lead acid batteries are accepted but must be clearly labelled, and kept separate.</td>
<td>There are collection points at the Bullard – see Gill Turner or Dudley Simons. Lithium and lead acid batteries are accepted but must be clearly labelled, and kept separate.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Pens, pencils, highlighters et al</strong></th>
<th>Downing Site</th>
<th>Bullard</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is a collection point in the Reception area.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Envelopes</strong></th>
<th>Downing Site</th>
<th>Bullard</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is a collection point in the Reception area where large envelopes are stored for re-use.</td>
<td>Envelopes larger than A5 are collected by Gill. There is a box of these in the Post Room.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Printer and photocopier ink cartridges. Mobile phones (Downing Site).</strong></th>
<th>Downing Site</th>
<th>Bullard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laserjet and inkjet cartridges (not Epson or compatibles), mobile and SMART phones, MP3 players and ereaders. Please ask Sylvia, or put these in the cardboard box in the corridor just past reception. Please seal any leaky cartridges in a plastic bag.</td>
<td>Printer cartridges are no longer being collected for recycling. They should be sealed in a plastic bag, and put in the general waste bins.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Computers and other IT equipment</strong></th>
<th>Downing Site</th>
<th>Bullard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please contact the Computer officers.</td>
<td>See Dudley for all redundant computers and other IT equipment.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Compact fluorescent tubes and bulbs</strong></th>
<th>Downing Site</th>
<th>Bullard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please contact Martin Walker/Charlie Aldous.</td>
<td>Please contact Dudley.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Electronic and electrical waste (not computers)</strong></th>
<th>Downing Site</th>
<th>Bullard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please contact Chris Parish.</td>
<td>Please contact Dudley.</td>
<td></td>
</tr>
</tbody>
</table>
A full statement of the University Insurance is given at [www.admin.cam.ac.uk/offices/insurance/](http://www.admin.cam.ac.uk/offices/insurance/).

However, there are a number of important **exclusions** from this cover:

- personal property, including computers, of members of the University and any visitors to the University
- theft from vehicles left unattended overnight
- theft from the open or from outbuildings
- wear and tear, damage caused by faulty or defective workmanship, operational error, corrosion, mechanical or electrical breakdown
- losses identified as a result of a stock-take
- museum artefacts and valuable objects

University Departments can buy insurance for specific items of equipment and special arrangements can be made where equipment is being taken for use in the field etc. To arrange cover please contact Andy Buckley ([ab78@cam.ac.uk](mailto:ab78@cam.ac.uk)) and the Insurance Section stating the items to be insured and their value, allowing time for this to be processed.

Private work is **not** covered in any way by the University Insurance.

The University has Public Liability insurance, which covers the actions of employees and students of the University whilst they are engaged on University business. The cover is worldwide although the policy will only respond to claims brought under English Law. To obtain a letter confirming cover for employees or students making work related visits to other organisations, please contact the Insurance Section with information about the visit and confirmation from the department that appropriate risk management is in place. However, employees on sabbatical leave are not covered unless the department can show that the employee is directly working for the University during the period of leave.

**Travel Insurance**

University employees and registered graduate students travelling abroad on university business can apply for travel insurance through [www.admin.cam.ac.uk/offices/insurance/travel](http://www.admin.cam.ac.uk/offices/insurance/travel). This ensures they and their accompanying family members have access to emergency services similar to those available in the UK with up to £5 million for medical and emergency travel and up to £5000 for lost or damaged baggage. See website for conditions.

This travel insurance does not provide any motor insurance. If you borrow, hire or buy a vehicle abroad you must arrange local, fully comprehensive motor insurance.

This insurance does not apply to research undertaken while on sabbatical.

Nuclear, biological and chemical attacks are excluded but it will cover terrorist attacks and travel to war zones if you contact the Insurance Section directly. An incidental holiday, excluding extreme sports, can be covered under the policy as long as the department agrees to the arrangement.

Travel insurance is arranged for all supervised department fieldtrips outside the UK for staff, undergraduates and volunteer workers.

Part II and Part III students must arrange their own travel, medical and personal accident insurance for mapping projects.

New research students carrying out fieldwork **before** they are registered or matriculate as research students of Cambridge University must also arrange their own insurance.

When students or staff provide their own insurance cover, they are advised to check the wording, and particularly the exclusions, to ensure that it meets their requirements.

Further details for Fieldwork Safety are given in the Fieldwork section.
Planning for all fieldwork, including academic research trips, must include arranging insurance, writing a field risk assessment and giving contact details for those going on the trip from the Department. Those going abroad would be well-advised to consult the Foreign and Commonwealth Office for travel advice relating to their specific country @ https://www.gov.uk/foreign-travel-advice. Fieldwork abroad also needs a contact in the host country to comply with BS 8848 regulations. A template is included on the next page to help you, but any format giving full details is acceptable. Copies of this information must be given to the Department Safety Officer (Lucy Matthews) or Safety Administrator Celia Hobbs, and the student's supervisor (if an undergraduate or research student). Students must also have these documents agreed by their supervisor. Supervisors are responsible for seeing these are in place at the planning stage for all their Part II and III students' field mapping projects and for their research students as well as for their own fieldwork. In order to attend a field course, undergraduate fieldtrip participants must complete and return the confidential safety/medical form to reception together with payment for the trip. You must also read the Fieldwork Code of Safe Practice and Good Conduct.

Record keeping is vital. Although these simple forms may seem like ‘one task too many’ as you prepare to leave for fieldwork, this written evidence is vital to protect yourself against a claim in any court action in the unlikely event of a serious accident. If someone dies in an accident, the Corporate Manslaughter Act of April 2008 makes ‘gross breach of duty of care’ an offence in failing to comply with the Health and Safety at Work Act 1974. This also applies to Driving at Work.

FIELDWORK INSURANCE

All our UK and overseas taught field courses have personal accident cover with Royal Sun Alliance, covering up to £20,000 for death or permanent total disablement.

Part II and Part III students must take out their own medical/personal accident cover for their mapping projects. New research students undertaking fieldwork before they are registered or matriculate as graduate students at Cambridge University must also arrange their own insurance. Always check the wording of your insurance policy, particularly the exclusions, to ensure that it meets your requirements. Students must indicate on their field risk assessment what insurance arrangements they have made.

For individual fieldwork, University employees and registered graduate students travelling abroad can apply for Cambridge University travel insurance through www.admin.cam.ac.uk/offices/insurance/travel. Check the website for conditions. College employees, e.g. research fellows, will need to make other travel insurance arrangements.

FIELDWORK SAFETY TRAINING

Wednesday 10 - Thursday 11 January 2018 – (first) 2 day Marlin Outdoor First Aid for Fieldwork Courses for field course leaders, demonstrators and research students.
Friday 9 February 2018 - Annual Field Safety Review for Field Course Leaders at 13.00 - 14.00.
Thursday 22 February 2018 – ‘Planning your Mapping Project Safely’ for future Part IIs 13.00 - 14.00.
Wednesday 16 May 2018 1 Day Marlin Outdoor First Aid for Fieldwork Refresher Course
Thursday 17 - Friday 18 May 2018 - (second) 2 day Marlin Outdoor First Aid for Fieldwork Courses for field course leaders, demonstrators and research students.
Thursday 14 June 2018 - Fieldwork Safety and First Aid Training Seminars: 3.5 hrs, 9.30am – 1pm - IA Earth Scientists continuing with GSA/GSB next year and attending the Sedbergh Field Course. 3.5 hrs, 1.30pm – 5pm, - IB Earth Scientists continuing to Part II and attending the Skye Field Trip and their Mapping Project.

DRIVING ON FIELDWORK

Drivers on fieldwork, whether using University vehicles, hire vehicles or their own car, must be suitably qualified and deposit a copy of their driving licence and relevant documents with Lucy Matthews/Celia Hobbs. They must also complete the relevant Department driving forms (see Driving at Work). Drivers on taught field courses take Advanced Driver Training. Stringent regulations exist for driving vehicles carrying undergraduates, so if you will be driving on a fieldtrip please contact Helen Dingwall, Lucy or Celia well in advance.
<table>
<thead>
<tr>
<th>Name</th>
<th>Status (i.e. undergraduate, academic)</th>
<th>Email</th>
<th>Mobile No.</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**DATES OF TRIP**

**FIELDWORK AREA/PURPOSE OF WORK**

**ADDRESS/PHONE IN FIELD**

**NEXT OF KIN TO BE CONTACTED IN EMERGENCY (INCLUDING ONE IN THE UK IF POSSIBLE)**

<table>
<thead>
<tr>
<th>Name (and relationship to you):</th>
<th>Address:</th>
<th>Phone numbers:</th>
<th>Email:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Name (and relationship to you):</th>
<th>Address:</th>
<th>Phone numbers:</th>
<th>Email:</th>
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<td></td>
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</table>

**CONTACT DETAILS IN HOST COUNTRY (for projects outside UK)**

<table>
<thead>
<tr>
<th>Name of Host:</th>
<th>Address:</th>
<th>Phone number:</th>
<th>Email:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

**EMERGENCY/INSURANCE DETAILS**

<table>
<thead>
<tr>
<th>Emergency services number for your country of work:</th>
<th>Insurance Company:</th>
<th>Trip Insurance Policy No:</th>
<th>Insurance emergency contact/medical assistance tel no:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

If you have any medical conditions or take any medication which may affect safety in the field please give details. *All information will be treated in the strictest confidence*

**CAMBRIDGE DEPARTMENT CONTACT DETAILS**

<table>
<thead>
<tr>
<th>Name of Supervisor:</th>
<th>Name of others on trip: e.g. field assistants, supervisor, other Part II students staying in the area:</th>
<th>Andy Buckley</th>
<th>+44 (0)1223 333421</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email:</td>
<td></td>
<td>Lucy Matthews</td>
<td>+44 (0)7931 880643</td>
</tr>
<tr>
<td>Phone no:</td>
<td></td>
<td>Dudley Simons</td>
<td>+44 (0)1223 333470</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Bullard)</td>
<td>+44 (0)1223 337198</td>
</tr>
<tr>
<td></td>
<td></td>
<td>University Security</td>
<td>+44 (0)1223 331818</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(out of office hours)</td>
<td></td>
</tr>
<tr>
<td>Hazardous Situation/Activity</td>
<td>Potential Risk</td>
<td>Control Measures</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Travelling</strong> to and from the field area.</td>
<td>Personal injury; damage to vehicles in traffic accident</td>
<td>Scheduled flights, trains, coaches&lt;br&gt;Use professional drivers or maintain safe driving (driver training where appropriate)&lt;br&gt;Use high viz vests and markers for road cut exposures&lt;br&gt;Exercise on long haul flights to avoid deep vein thrombosis</td>
<td></td>
</tr>
<tr>
<td>Transport around the area during the trip.</td>
<td>Cars approach from opposite direction to UK. Injuries to pedestrians.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Embarkation/disembarkation from vehicles, especially at roadside.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weather/climate:</strong></td>
<td>Heat stroke, dehydration/hypothermia sunburn&lt;br&gt;Discomfort/hypothermia&lt;br&gt;Reduction in visibility, lightning strikes</td>
<td>Suitable clothing and sufficient water/carry thermal blanket&lt;br&gt;Wear hat and sunscreen&lt;br&gt;CARRY waterproofs, extra warm layers, survival bag&lt;br&gt;Know compass direction and terrain to ensure follow route out&lt;br&gt;Leave mountain ridges immediately</td>
<td></td>
</tr>
<tr>
<td>Extremes of temperature; high/low sunshine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rain/getting wet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sudden changes in weather or storms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wildlife and vegetation:</strong></td>
<td>Bites, stings, attack by animals&lt;br&gt;Lyme disease&lt;br&gt;Rash on exposed skin</td>
<td>Maintain vigilance, wear long trousers and long sleeved shirts. Check for ticks and remove immediately. Rabies inoculations before travel increases time available for follow-up treatment.</td>
<td></td>
</tr>
<tr>
<td>Insects, animals</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plants may cause skin irritation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Local factors - diseases and hygiene</strong></td>
<td>Sickness</td>
<td>Immunisation, suitable medicines. See <a href="http://travelhealthpro.org.uk/country-information/">http://travelhealthpro.org.uk/country-information/</a> before you travel. Ensure personal hygiene and always wash hands before eating. Use of anti-bacterial wash if limited clean water available Familiarise yourself with customs so you can behave and dress appropriately.</td>
<td></td>
</tr>
<tr>
<td>e.g. Weil's disease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Accommodation:</strong></td>
<td>Fire&lt;br&gt;Carbon monoxide poisoning&lt;br&gt;Security</td>
<td>Familiarise yourself with the fire drill and escape route&lt;br&gt;Do not use or refuel stove inside tent. Ensure good ventilation of cabin when using gas heaters and cooking facilities. Never leave gas heaters on overnight. Never cook in tent. Do not bring still smouldering embers into tent. Keep valuables out of sight.</td>
<td></td>
</tr>
<tr>
<td>Hotel, field centre or camping</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Remote areas - getting help; coping with a problem...</strong></td>
<td>Delay in rescue or treating illness or injury</td>
<td>Buddy system or contact arrangements.&lt;br&gt;Use route cards.&lt;br&gt;Mobile phone. 4 dept walkie-talkies available. Consider taking a First Aid training course or 2-day Fieldwork Safety and First Aid Course.</td>
<td></td>
</tr>
<tr>
<td>Hazardous Situation/Activity</td>
<td>Potential Risk</td>
<td>Control Measures</td>
<td></td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------------</td>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>Personal safety and First Aid provision:</td>
<td>Accidents Exacerbation of medical condition</td>
<td>Obtain basic first aid competence and carry first aid kits Maintenance of buddy system. Tell others of medical conditions and symptoms. Ensure relevant injections are obtained/in date.</td>
<td></td>
</tr>
<tr>
<td>Lone Working:</td>
<td>Difficulty of calling for assistance in event of an accident</td>
<td>Carry a whistle Buddy system – details of mobile phone contact at regular time intervals if outside sight and sound of rest of field party.</td>
<td></td>
</tr>
<tr>
<td>Terrain: Rock faces, cliffs, screes, landslide steep/slippery/unstable slopes, caves. Rivers, streams and marshy areas, deep bogs, flash floods.</td>
<td>Falling rocks, landslide. Slips, trips and falls Falling in water, getting wet and then cold, injury Slow walkers getting left behind</td>
<td>Hard hats and walking boots with good tread and ankle support Do not climb unless you are sure it is safe. Take extra care when crossing streams. Be particularly careful when going to the assistance of someone who has fallen in. Maintain vigilance (do not camp) in wadis or areas liable to flooding</td>
<td></td>
</tr>
<tr>
<td>Coastal conditions: Rough sea, tides coming in, abnormal waves, rip tides, quicksands, cliff instability</td>
<td>Falling in sea, exit route cut off by tide. drowning</td>
<td>Throw lines may be a useful addition to safety equipment. Ensure knowledge of correct use Do not swim unless you have separate risk assessment covering the adequate life-saving facilities present.</td>
<td></td>
</tr>
<tr>
<td>Hammering rock samples</td>
<td>Eye damage by flying rock chips</td>
<td>Goggles, warn people nearby before hammering.</td>
<td></td>
</tr>
<tr>
<td>Carrying heavy rucksacks of samples</td>
<td>Back strain</td>
<td>Make more than one journey if necessary</td>
<td></td>
</tr>
<tr>
<td>Environmental impact: Litter, Fires, Sharp chippings</td>
<td>Environmental damage Fires Sharp chippings can damage animals’ feet</td>
<td>&quot;Carry it in, carry it out.&quot; Do not make fire unless you are sure it will be safe, and is allowed. Leave any rock shards tidied up inconspicuously.</td>
<td></td>
</tr>
<tr>
<td>Fieldwork Environment</td>
<td>Bullying/Harassment amongst/between leaders, demonstrators and/or students</td>
<td>All team members to be aware of Department's policy on bullying and harassment, outlined in the Safety Handbook, and phone numbers for contacts. Be vigilant about potential bullying/harassment of other group members and be aware that language or behaviour intended as a joke may not be received as such.</td>
<td></td>
</tr>
</tbody>
</table>
### Hazardous Situation/Activity

<table>
<thead>
<tr>
<th>Potential Risk</th>
<th>Control Measures</th>
</tr>
</thead>
</table>

Please use the information on the following pages as a guide to select, delete, or add hazards and control measures, as appropriate, for your particular fieldwork.

#### Further hazards
Above suggestions do not cover all hazards. Consider further hazards applicable to your area.

#### General Notes
- General travel arrangements: passport, visa, money, insurance......
- Consult the Foreign and Commonwealth Office (FCO) website in advance of your trip, if going abroad.
- Communication, especially in emergency: Use mobile phones in areas where reception is available. Have emergency numbers to hand.
- Have a whistle readily to hand. The international distress call is six short blasts repeated at one minute intervals.
- Daily monitoring and feedback; daily briefing and debriefing; rendezvous; cut-off times; route cards
- Moderation with alcohol, etc.; getting enough sleep, fitness preparation, proper diet in run-up period
- Adequate food and drink each day, including breakfast. Emergency water and food


### Signature

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<thead>
<tr>
<th>Name</th>
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<th>Position:</th>
<th>Date:</th>
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<tbody>
<tr>
<td>(e.g. Academic, part II/ research student/post-doc)</td>
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</tbody>
</table>

Lucy Matthews (lhm29@cam.ac.uk) and Celia Hobbs (cjh91@hermes.cam.ac.uk) are happy to advise you on writing your risk assessment and can lend First Aid kits and other safety equipment for your trip: [http://www.esc.cam.ac.uk/resources/health-and-safety/fieldwork-safety](http://www.esc.cam.ac.uk/resources/health-and-safety/fieldwork-safety).

Please make 2 copies of this form to be given to: Lucy Matthews or Celia Hobbs and your supervisor.
UNDERGRADUATE FIELD COURSES

(a) All drivers of vehicles on our field courses will be asked to take the advanced drivers training course, particularly where drivers will be transporting students. Only those drivers who have successfully taken the course in the previous three years will be allowed to transport students.

(b) All students will be asked to read, sign and return the Department’s safety statement before going on all our field courses, also indicating medical conditions which should be taken into account, e.g. epilepsy, diabetes etc. All students going to Sedbergh or Skye will be issued with the “Safety on Mountains” booklet free of charge. Students going to Arran will receive a Fieldwork Safety booklet.

(c) All field guides must include a section on safety, and field course leaders must underline aspects of safety at the beginning of their courses and as appropriate during the course.

(d) At a meeting of demonstrators before each course, the whole issue of safety on field courses must be emphasized.

(e) All field course leaders and demonstrators must have appropriate first aid training. Marlin Training runs 2 day Outdoor First Aid for Fieldwork courses for the Department, which cover essential skills. All field trip leaders, and as many demonstrators as is feasible, are advised to undertake this training. Undergraduates receive fieldwork safety and first aid training in April before their Cumbria and Skye Field Courses. Those undertaking Part II Mapping Projects also attend a Safety Seminar covering field safety and preparation of their field risk assessments scheduled for April.

(f) Field course leaders should arrange that there is a demonstrator at the rear of each party to ensure there are no stragglers.

(g) For the Arran field course, multiple copies of the student lists should be arranged so that each day each party leader has a ticked list of students in his group for roll calls during the day as necessary.

(h) All students must be advised verbally and in handouts about footwear and clothing for field courses.

(i) All courses must have first aid kits.

(j) On the mapping course a seminar on safety in the field and field training must be given in preparation for the Part II Mapping Project.

(k) A checklist of safety guidelines must be prepared for the leader of each course.

(l) There will be a Safety Log Book for each field trip. This will be written up on a daily basis, recording the time and contents of safety briefings, together with any incident, accident, or near-miss which has occurred. Books will be kept from one year to the next so that any potential hazards can be rectified. The person responsible for keeping the log during the trip will be a demonstrator nominated by the trip leader, but will not be the leader him/herself. At the end of the trip, a feedback form will be completed by the field trip leader, and this and the log book the book is returned to the Department Safety Officer (S034) or the Safety Administrator’s office (N014) for safe-keeping.

(m) Details of a contact in your area or host country must be included on your risk assessment for all fieldwork.

(n) For overseas field trips in particular it is essential to have emergency contact numbers in the host country. This could also include local travel representatives, hospitals, traffic/tourist police, airline customer services, your hotels, and car hire. Field trip leaders are often well placed to provide this additional information.
FIELDWORK CODE OF SAFE PRACTICE AND GOOD CONDUCT

(a) Responsibilities and liabilities

Geological fieldwork is carried out in a variety of environments ranging from city streets to remote mountain peaks. Safe practice largely amounts to using common sense appropriate to the situation, along with awareness of any special hazards arising from what you are doing. Most fieldwork in the first two years is carried out as part of a large group, and the guidelines in this leaflet concentrate on such situations. The Earth Sciences Department will provide further safety and first aid guidance if you progress to Part IB and Part II Geological Sciences. It is your duty to attend the safety courses that are offered then.

In accordance with Health and Safety legislation, field party leaders will be following standard safety procedures and taking every reasonable care to ensure the safety of their group. However, this does not remove the duty of care from each individual for their own safety and that of other students and staff. You may even be held legally liable if accidents arise through your failure to obey instructions or meet obligations. In particular, it is your responsibility to stay in touch with the field party, not moving ahead of the leader unless directed and not leaving the party for any purpose without the leader’s permission.

(b) Health, fitness and accidents

Fieldwork requires a level of fitness sufficient to walk 5-10 miles per day over paths and moorland, which can be steep, rugged and uneven. It is your responsibility to attain and maintain this basic fitness. If you have a disability or a medical condition, permanent or temporary, that might in any way affect your ability to carry out the fieldwork, it is your responsibility to inform the party leader in advance. Leaders will make reasonable efforts to accommodate individual problems, consistent with the progress and safety of the main party. Similarly, inform the leader if you or a colleague has any sort of accident or begins to feel ill in the field.

(c) Clothing and Equipment

It is your responsibility to ensure that your clothing, equipment and footwear are suitable for the range of conditions that you are likely to meet. Field party leaders will provide advance information. However, for the IA field trip to Arran you will need, in particular:

- walking boots: trainers are unsuitable;
- waterproof rain-jacket (with a hood) and over-trousers;
- loose-fitting trousers (not jeans, which provide ineffective insulation when wet);
- warm fleece top(s) or pullovers;
- warm (e.g. fleece) hat and gloves, sunhat, sunscreen, insect repellent;
- day sack: a rucksack, not a shoulder bag;
- hard hat and safety goggles. You will be provided with a hard hat for all taught fieldtrips and goggles, when required, for the IA trips. You will need to provide your own goggles on subsequent trips;
- water bottle and whistle.

Field trip leaders may reasonably refuse to allow you to take part in a field day if you are unsuitably dressed for the prevailing weather and terrain conditions.

(d) Hazardous environments

Some fieldwork is done in environments that present particular potential hazards. Any risks to you and the rest of the party will be minimised if you take common-sense precautions.

Cliffs, quarry faces, and steep slopes: Rocks may fall down a cliff or face at any time, but particularly during and after rain. Keep away from under steep faces as far as possible; in such situations, it is essential to wear a protective helmet. Never work under a quarry overhang. Similarly, avoid the tops of quarry faces and cliffs; which are always prone to collapse. On slopes, do not work directly above another person and do not dislodge loose rocks, either by accident or for amusement. Rock climbing of any sort is forbidden on field trips.

Coasts: Party leaders will have checked tide tables, and you should obey their instructions about the timing and route for traversing a shore section. Take great care on slippery rocks, typically below high water mark, and on any shore with boulders or large pebbles. Helmets should be worn in such slippery and unstable areas, and when specifically instructed by leaders. Avoid areas of soft mud and sand. When the sea is rough, keep a safe distance beyond breaking waves. You should not cross tidal channels, or go swimming unless specific permission has been given by leaders.

Roads: Roadside exposures should not be viewed unless it is safe for all the party to do so. Post a lookout and wear high-visibility clothing. Avoid hammering and do not leave debris on the road or verge. Parties should walk facing the traffic, no more than two abreast at any time and in single file when appropriate.
Working quarries and industrial sites: Leaders will have obtained prior permission for access. Obey any special precautions that are required; e.g. wearing helmets and safety goggles. Keep in a closely grouped party. Avoid all equipment and cables, and keep a sharp lookout for moving machinery.

Old mines, caves: Do not enter any old mine workings or caves unless this has been approved by a party leader.

Hammering: Unnecessary hammering is discouraged on all trips. Flying chips of rock and metal are a serious danger; geologists have lost eyes this way. Do not hammer unless you are sure that you can do so without endangering others, then only to collect the smallest sample necessary. Warn them of your intention - chips have been known to cause injury some metres from their origin. Wear either safety goggles or glasses, or ordinary glasses with unbreakable lenses. Never hit one hammer with another - they can shed lethal, metal flakes.

Work in pairs: Some first and second year fieldwork is carried out in pairs, although as part of a larger party. In these situations, you will be directly responsible for your own safety and that of your partner. Never work alone.

Safety handbook: Before the IA Easter field course, you will be issued with a fieldwork safety handbook, and are expected to familiarise yourself with basic safety precautions for working in remote or mountainous terrain. In particular, you should know the international distress signal of six blasts on a whistle or six shouts or six torch flashes or six waves, followed by a minute's pause.

(e) Conduct on field trips

Leaders aim to make each field trip a geologically rewarding and enjoyable experience for all students. Any disruptive behaviour on your part will distract both the leaders and your colleagues from this aim. As in the Department, field trips should provide a positive working environment for everyone, free from bullying, harassment or other unacceptable behaviour. You must therefore act in a civilised way throughout each field trip: failure to do so will reflect badly on the University and Department as well as yourself. You will be given one verbal warning and then the leader has the authority to ask you to leave the field trip. In such a case, you would be required to vacate your accommodation and bear your share of the field trip expenses, any money the department has advanced you and all associated travel costs. Your College will be informed. Some specific guidelines are:

Attendance: You are expected to attend on all days of the field trip, unless special exceptions have been agreed prior to departure. Apart from good cause (which does not include hangovers), any student who declines to attend on part of any day will be deemed to have left the field trip. In such a case your College would be informed and you will be required to leave and pay costs as above.

Accommodation: Smoking is not allowed in any of the accommodation we use and boots must not be worn inside. You accept responsibility for the good order of the room or other accommodation to which you are allocated. Hotels: each hotel management is instructed to bill occupants for the costs of damage to a bedroom. Where damage to public areas occurs, the costs will be shared between those identified as responsible. Chalets: Any damage to your chalet by any member of the field trip will be paid for equally by those occupying the chalet.

Hotel rules: You must comply with hotel guidelines on late-evening conduct. These guidelines will vary from hotel to hotel, but will usually involve designated times for re-entry to the hotel, for closure of any residents' bar, and for quiet in rooms and corridors. Most hotels will insist that alcohol bought outside is not consumed within the hotel. In any case alcohol must not be consumed in bedrooms nor may parties be hosted there.

Mobile phones: You may bring a mobile phone on field trips provided that you obey the conditions for its use determined by the party leader. Generally, phones should be turned off during group teaching in the field or during the evening. They should be turned on, as a safety measure, during mapping in pairs, but you should be aware that mobile phone reception is poor to non-existent in many of the field areas we visit.

Hazardous recreational activities: Rock climbing and caving are specifically forbidden on our field trips, even in your spare time. Some less hazardous activities may be permissible in your own time outside the working day, but you should consult leaders if you are in any doubt about their advisability. Whilst you, and not the leaders, will be primarily responsible for your safety during, for instance, swimming or hill walking, leaders may reasonably ask you not to take part if they think you are putting at risk the safety of yourself and others.

(f) Bullying and harassment

Definition: Bullying is any behaviour which makes someone feel intimidated, humiliated or offended, whether or not it is intended to do so. Harassment is bullying related to: sex or gender, age, disability, race, religion, sexual orientation, marriage and civil partnership or pregnancy and maternity and is illegal. In particular, sexual harassment includes any unwanted sexual comments or jokes as well as unwanted physical contact.

Bullying and harassment can occur in day-to-day work, but the small groups and close-working
environments encountered on fieldwork can make seeking help more difficult.

The Department and the University regard all forms of bullying and harassment as unacceptable. It is the responsibility of each member of the Department, both staff and students, to assist in promoting an environment of mutual respect and consideration.

Response: If you feel that you are being bullied or harassed whilst on fieldwork or a field trip there are several people you can contact. In the first instance, you could report the incident(s) to a trip leader (for taught field courses, any member of staff or demonstrator). If you are not comfortable talking to the trip leader(s), the following contacts are available:

- Lucy Matthews, Safety and Welfare Co-ordinator for Earth Sciences
  +44 1223 333470, lhm29@cam.ac.uk
- Helen Dingwall, Teaching Support Manager for Earth Sciences
  +44 1223 768330, hpd20@cam.ac.uk
- Andy Buckley, Department Administrator for Earth Sciences
  +44 1223 333421, ab78@cam.ac.uk
- Student Advice Service
  +44 1223 746999, advice@studentadvice.cam.ac.uk
- Your tutor, senior tutor, Director of Studies, supervisor (for graduate students).

Incidents can also be reported at a later date to any of the above.

Any member of staff, or demonstrator, approached with a report of bullying or harassment, must:
- Treat concerns seriously.
- Protect the anonymity of the reporter, and ask permission from the reporter before seeking guidance or conveying details to others.

Further details, and formal complaints procedures, may be found on the University web pages for Dignity@Study (for students) and Dignity@Work (for staff).

(g) Undertaking

Students are asked to read these notes carefully and to agree to observe the provisions they contain and any other instructions, verbal or written, given by the leader of the party. I have instructed the leaders of field parties that, if the verbal warning has been ignored, they must exclude from fieldwork anyone who is not properly equipped, who does not observe safe practice or good conduct, or who does not obey the instructions given by the party leader or by those to whom the party leader has delegated this duty.

S A T Redfern
Head of Department

FAMILY MEMBERS ON FIELD TRIPS

The Department’s policy on the presence of family members on Department field trips balances the requirements of health and safety legislation and the maintenance of academic standards with the legitimate need, in exceptional circumstances, for family members to accompany field trip participants.

1. In general, the presence of families is discouraged. Exceptional circumstances could include, for example, nursing mothers.
2. Family members cannot be considered in any way to be part of the field trip and are wholly the responsibility of the member of the Department concerned. Child care facilities are solely the responsibility of the member concerned.
3. They may, in exceptional circumstances, stay in the same accommodation as the field trip members, but the cost of their accommodation must be paid for separately.
4. Agreement to the presence of family members must be obtained in advance from both the course leader and the Department Safety Officer. An appropriate risk assessment must be made before permission can be given.
5. The contents of the risk assessment for the accommodation must be brought to the attention of, and discussed with, all concerned.
6. Children must be kept under parental supervision at all times without exception.
The Department must comply with current DVLA driving legislation and work within the University Health & Safety Office’s policy statement and guidance for ‘Travel at Work’ (HSD031M).

**Driving on University Business** includes drivers using Department vehicles, hire vehicles or their own vehicle including bicycles. If you have any queries, or wish to drive on field trips, please contact Lucy Matthews/Celia Hobbs or Helen Dingwall, respectively.

1. All journeys are restricted to *bona fide* University/Department business. These could include, but are not restricted to, travel between University buildings, research fieldwork, visits to other academic institutions, collection of items purchased for the Department, transportation of Earth Sciences casualties to hospital.

2. In order to drive any vehicle on University business, drivers must be suitably qualified and show their full driver’s licence to Lucy Matthews/Celia Hobbs (Downing Site) or Dudley Simons (Bullard) each year. A copy of the licence will be retained on secure file. The Department requires all drivers to complete the driving forms, including a generic risk assessment, which covers them for regular journeys. It is the driver’s responsibility to notify the Dept of any changes, such as endorsements, pending prosecutions, accidents or relevant changes to medical conditions, and the Department will usually ask drivers for online access to their DVLA driving record before driver training and/or driving on field trips. Where extra hazards apply, such as driving alone (‘lone working’) or medical issues, an individual risk assessment should also be completed.

3. University insurance does not cover hire vehicles. Insurance must be taken out with the vehicle provider. (Vehicles for regular undergraduate field courses are dealt with separately.)

4. Anyone wishing to use their own vehicle must also complete a form showing that their insurance policy covers *business use* for them and their passengers, that their vehicle is taxed, and has a current MOT (if the vehicle is over 3 years old), and that their car has been regularly serviced. Cyclists must have personal liability insurance and regular maintenance to show their bike is roadworthy.

**Please Note**

If you drive your own vehicle on University business (which includes driving between sites and attending conferences) your own insurance policy must cover you, and any passengers, for travel on your employer’s business, ie ‘business use’, in addition to "social, domestic and pleasure and travel to and from place of work’. If this is not the case, you will be driving illegally, whilst uninsured, as you are not covered by the University insurance policy. Any mileage claims can only be paid if business insurance use cover has been obtained. *Although insurers rarely charge extra for occasional business use*, the mileage rate paid includes an element towards insurance costs.

5. For fieldtrips, and other journeys where any *undergraduate students* are carried as passengers, drivers must:
   - have satisfactorily completed a recognised Advanced Driver Training course
   - be over 21 years of age if driving in UK
   - be over 25 years of age and at least post-doctoral status or equivalent if driving abroad
   - have driving experience within the U.K. for at least 2 years (or equivalent experience abroad if the trip is outside UK).

**Minibus** drivers are required to comply with DVLA requirements and should have:
   - no driving convictions other than one speeding offence
   - no involvement in a motor accident in the last 3 years

Time expired convictions are disregarded.

DVLA requires a D1 category on a full British licence to drive a minibus. (People carriers with 5-8 passengers do not have this D1 requirement.)
Field risk assessments apply to driving on **field trips**, but drivers must also complete an individual risk assessment if extra hazards apply (see 2 above).

6. In special circumstances, with the agreement of the Head of Department, a driver who does not meet all the above criteria may be allowed to drive a hire vehicle, after an individual risk assessment has been made, recorded in the fieldtrip logbook and signed by the Field Trip Leader.

7. A Hire Vehicle Checklist and the Driving Protocol for using department vehicles are included in this handbook, and are also available on the Department Website (resources/health-and-safety/safety-forms).

8. All driving for the Department is done on a purely voluntary basis. No-one will be required to drive if they are unwilling to do so.

9. For drivers of minibuses, the Department has a number of "Section 19" minibus permits, which should be displayed in the front windscreen during each journey. This applies both to University-owned and to hired minibuses.

10. Where a casualty is being taken to the doctor/hospital, a University First Aider should, where possible, accompany him/her. An ambulance must be called if there is any doubt about transporting a casualty safely.

11. In the event of an accident involving a University vehicle, drivers must follow University procedure, a copy of which is kept in each vehicle.

12. All accidents occurring while on University business, whether in a University vehicle or another vehicle must also be reported as soon as possible to Martin Walker or Lucy Matthews (Downing Site), or Dudley Simons (Bullard Labs), and a University Incident Report completed.

13. Drivers may be considered to need further training due to inexperience and any breach of policy or rules may lead to withdrawal or suspension of any driver’s authorisation to drive for the department or University.

14. Equipment left in unattended vehicles is not covered by the University's insurance; special arrangements should be made where equipment is being taken for use in the field etc.
Confidential Driver Documentation for Driving on University Business

This form relates to anyone driving any vehicle on University business (their own, hired, or belonging to the University)

Name:  
(Please print)

Date:  

Insurance Note

Motor insurance is compulsory under UK law.

- **Private vehicles:** If you drive your own car on University business your own insurance policy must cover you and your passengers for “business use”. If this is not the case, you will be illegally driving whilst uninsured, as you are not covered by the University insurance policy. **NB** Business use includes attending meetings, conferences, and driving between University sites, eg Downing Site and the Bullard.
- **Hire cars:** University insurance does not cover hire vehicles. Insurance must be taken out with the vehicle provider. (Field trip vehicles are dealt with separately.)
- **Drivers of Cambridge University Vehicles** on University business are covered by the University insurance policy when the department holds a copy of their valid driving licence. Note: drivers are responsible for any fines or summonses incurred.

All Drivers on University Business

I hold a current, valid, driving licence, which shows my correct name and address details, and a copy has been taken  

YES/NO

Licence valid until:  

…../…../……

Have you had any accidents or committed any motoring offences in the last 3 years? (Time-expired speeding convictions are disregarded.)  

YES/NO

If yes, please give details:

(Your permission will be sought to take a copy of your online DVLA record before driver training sessions and/or driving on field trips.)

I have read and understood the Department’s and the University’s Driving at Work guidelines  

YES/NO

PTO
I have read and signed the Generic Risk Assessment for Driving on University Business, and understand when I need to complete a Driver’s Individual Risk Assessment Form

I have read and understood the insurance note above

**Private vehicles**

*If you drive your own car on University business,* please also complete the following:

Vehicle registration number: ......................................................................................

My personal insurance policy covers me and my passengers for business use

My car has up-to-date vehicle tax

My car has a current MOT (if applicable)

My car is regularly serviced and maintained

*I confirm that I will inform the Department if/when any of the above information changes*  

Driver’s signature: .................................................................................................

Confirmed by:

Signature: ..............................................................................................................

Name (please print): ..............................................................................................

Date: ......................................................................................................................
This generic Risk Assessment will suffice for most journeys unless one or more of the following applies:

- You are a relatively inexperienced driver
- You have a medical condition which might affect your driving (in which case you should follow DVLA guidance and let the Department know)
- Your journey involves very long hours or you are travelling alone
- Aspects of your journey i.e. weather conditions, heavy loads, trailer or roof racks, off road driving etc. could affect your journey

If any of the above applies you must complete an Individual Risk Assessment

**Hazard:** Road Traffic Accidents

**People at Risk:** Drivers, passengers, cyclists, pedestrians

**Control Measures:**

It is the Driver’s duty to:
- comply with the Road Traffic Act and Highway Code
- have an appropriate valid driving licence which will be checked annually by the Department
- have valid business use insurance if driving own vehicle
- plan routes in advance; check weather forecast; allow sufficient journey time; take regular breaks
- before leaving ensure correct adjustments for mirrors, seats, seat belts, lights etc; check tyre condition and check for visible defects
- have emergency contact numbers with them
- never use a mobile phone whilst driving
- never drive under the influence of alcohol or drugs.

**Vehicles:**

- must have up-to-date vehicle tax, a valid MOT (if applicable) and servicing should be carried out according to manufacturer’s specification
- should carry emergency kits e.g. first aid kit, red triangle, fire extinguisher, fluorescent jacket
- AA and insurance company numbers are kept in the department vehicles
- No Smoking in Dept cars or vehicles hired for Field Courses.

- Booking procedures for Department vehicles must be followed to ensure insurance cover.
- Rules governing the presence of children on University premises will apply to car use on University business.

I declare that I understand and accept the Generic Risk Assessment for Driving on University Business.

Signed ........................................... Date ...........................................

Name (print) ...........................................
Driver’s Individual Risk Assessment Form

This form is to be used if your journey is outside the scope included in the generic Risk Assessment Form

Consider if your journey is really necessary!

The Journey

• Plan your route, if possible avoiding high accident-risk roads and accident black spots
• Check the weather forecast: bad weather may affect road conditions, i.e. snow, ice, fog
• Allow time for unforeseen circumstances
• Schedule regular breaks – at least 15 minutes every 2 hours is advised
• Is there a viable alternative method of travel (i.e. train or bus)?

The Vehicle

• Is the vehicle suitable for the purpose intended?
• Is the vehicle well-maintained and in good condition?
• What load will be carried? Heavy loads will affect headlight setting and tyre pressures
• Drivers must be aware of how using roof racks or trailers might affect vehicle handling
• Ensure coats and bags are stowed correctly so that car occupants can get out easily

The Driver

• Is the driver fit for the task and does he/she have the necessary driving experience and confidence?
• Is the licence valid for driving the type of vehicle being used?
• Does the driver’s insurance cover him/her for business use if using his/her own vehicle?
• Is there any medical history that may affect the driver’s ability?
• Are there any special requirements?
This form is to be used if your journey is outside the scope included in the Generic Risk Assessment Form

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<tr>
<th>Journey Details</th>
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<td>Date</td>
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<tr>
<th>Possible Hazards</th>
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<tr>
<td>Are there any special hazards?</td>
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<td>Who might be exposed to them?</td>
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<tr>
<td>What control measures are in place?</td>
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<tr>
<th>Are there any other related Risk Assessments?</th>
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<tr>
<td>Yes</td>
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If YES, give details and attach a copy

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<tr>
<th>Emergency Contact Numbers:</th>
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<tr>
<td>Name</td>
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<th>Completed by:</th>
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<th>Supervisor: (where applicable)</th>
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<td>Name</td>
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<td>Date</td>
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Hire Vehicle Checklist - UK

Please check that your vehicle is fit for purpose before you drive.

- Does the vehicle seem to be in good condition?
  - Do the tyres look ok?
  - Are any warning lights on?
  - No dangerous projections?
  - All fine under the bonnet?

- Do the lights work?

- Do the seat belts work?

- Is the windscreen washer reservoir full?

- Does the vehicle have these inside:
  - First aid box?
  - Fire extinguisher?
  - Warning triangle?

Please ensure that everyone in the vehicle wears seat belts.

I agree that this vehicle is fit for purpose

I agree to return the vehicle in the condition in which it was received

Name: ___________________________ Signature: ___________________________
(Please print)

Date:
DEPARTMENT DRIVING PROTOCOL: Bullard Vehicles

Contacts:  Dudley Simons  (for bookings, maintenance, repairs, faults)
        Gill Turner  (for bookings in Dudley’s absence)

- Before using a department car you must produce your driving licence and a copy of the online DVLA driving record should be provided, which can be kept on file by the Bullard Safety Officer. Your licence will be checked annually but you must notify him of any speeding convictions or other motoring offences occurring in the meantime.
- Bullard Labs vehicles may be booked in the diary in Dudley’s office where you also collect the keys; **you must log journey details when you return the vehicle**, entering outward and return mileage and specifying which grant is being used. Tell Dudley or Gill of any faults with the car and of any adjustments/repairs you made.
- Vehicle details are given below and you should comply with these as a condition of use.
- Personal motor insurance does not provide cover for University vehicles.
- If you ever need to transport chemicals in the Department car strict guidelines must be followed: please contact Dudley Simons for advice (drs1005@esc.cam.ac.uk or 37198).
- All vehicles must be returned in a clean condition. Muddy boots must not be used in the vehicles.

PEUGEOT ESTATE  X915 GEB:

Please familiarise yourself with the controls etc. before driving this car and return it CLEAN with the tank at least half full!

- The handbook is in the driving door pocket – p.3 gives dashboard info “at a glance”
- This car runs on **diesel**
- To start the engine DO NOT DEPRESS THE ACCELERATOR. Turn the key 2 notches; if the engine is warm enough the pre-heat light does **not** come on and you can start immediately. If the pre-heat light comes on, wait for it to go out before operating the starter.
- The filler cap is opened by using the lever to the RH of the driving seat.
- A copy of the insurance certificate (+ University guidelines in the event of an accident) and the AA card are in the car.
- Remote locking is activated by using the button on the ignition key – small unlocks, large locks. You can also use the key in the lock in the normal way.
- Details of controls on steering wheel stalks are on p.7 of the handbook.

Booking Vehicles

If you need to collect keys out of working hours or at a weekend, please make arrangements with Dudley Simons, otherwise you may not be able to get it. Allow time in your booking to clean the vehicle when you return it.

Use of Vehicle

- You may buy fuel at any filling station using the euroShell Card (a pin number is supplied) which is given to you with the keys. Please ask for a receipt. You may be asked for the registration.
- Please fill details on the mileage slip and leave with keys on your return.
• Familiarise yourself with the car’s operation. Before driving it: look at the tyres, note bodywork damage and check lights, indicators, windscreen washer bottles, wipers, and seat belts. If you have any doubts about roadworthiness, do not use! Do not do repairs yourself: if you must make a temporary repair have the work checked by a garage as soon as possible, especially if safety could be affected.

• If you are involved in an accident, follow the procedure shown below, a copy of which is in the door pocket along with the insurance certificate. You must complete an insurance accident form that you can get from Dudley Simons.

• Any accidents and claims on department vehicles may affect your own vehicle insurance. You are responsible for any fines imposed for any traffic or parking offences.

Chipped or broken windscreens (UK only): Royal & Sun Alliance has a special 24-hr arrangement for the repair of all windscreens with Autoglass Windshields, Unit 2, Elizabeth Way, Cambridge (tel 01223 461890). If the vehicle is outside the Cambridge area, telephone the Autoglass Helpline on 0800 363636 for details of the nearest repairer. A copy of the vehicle insurance certificate must be produced at the time of repair. There is no policy excess for windscreen repair. Autoglass will invoice Royal & Sun Alliance direct for the cost of repairs.

Returning Vehicles

For other than local journeys, before you return a vehicle – please

• Put it through a car wash and clean out the interior. No muddy boots in vehicle.
• Leave the tank at least half-full - make a special journey if necessary.
• Remember to return the keys, fuel card and mileage slip. Evenings and weekends post them through letter box at front of Wolfson building and inform Dudley (drs1005@cam.ac.uk) or Gill (gt211@cam.ac.uk) by email.
TEACHING LABORATORIES CODE OF SAFE PRACTICE AND GOOD CONDUCT

For students:

1. General safety
   - Food or drink must not be consumed in any laboratory, with the exception of water in a capped water bottle.
   - All bags, coats and cycle helmets must be kept off the benches.
   - To allow unobstructed passage around laboratories all students’ personal possessions must be stowed under the benches or in the cubbyholes provided.
   - If the fire alarm sounds, you will hear a very loud siren. On the instructions of the demonstrator in charge of the class, you must leave the building and assemble on the lawn by the Department of Archaeology & Anthropology. Do not stop to collect personal belongings and do not re-enter the building until the fire brigade has given the all-clear.

2. Equipment and practical material
   - Have a minimum of possessions on the bench tops, and try to keep them in order so that the risk of knocking samples onto the floor is minimised.
   - Bench lamps must be lifted by their bases, not by the arms. Lifting by the arms can damage the pivoting mechanism.
   - When using microscopes and computers, check your seating position to ensure that you are at the correct height and, to avoid eye strain, look across the lab to allow your eyes to change focus every 20 minutes or so.
   - Glass microscope slides must be treated with care. They are easily broken; some are irreplaceable, and all are expensive to replace.
   - Handle ALL specimens with care. Many, especially the palaeontological material, are of museum display quality and are irreplaceable. **Do not mark or scratch them** unless you are specifically told you may do so.
   - You will be instructed in the use of microscopes, and these instructions must be followed. Do not drag microscopes across the bench top; move them by safe lifting. Dragging the microscopes causes severe vibration, which leads to the optics becoming misaligned.
   - Ensure that all specimens, microscope slides, etc. are returned to the correct tray or drawer after use, and that any microscopes and bench lights are turned off before you leave the lab.

For demonstrators:

   - The Teaching Officer in charge of the course has overall on the spot responsibility for safety. Demonstrators are responsible as individuals for conducting their work safely, and advising students of safe working practices.
   - The person at the top of the rota list for each session is deemed to be in charge of that session, and should report to the Teaching Officer in charge of the course any issues regarding class safety or any other problems that need attention.
   - You will need to keep reminding students (at least in IA) about safe practice, particularly to keep bags, etc. off the benches and away from gangways – including the spaces between benches – so that you can walk around the room safely.
   - Be aware that electric cables from microscopes and bench lamps may well be trailing down the backs of the benches and can provide a trip hazard. This is why we need the gangways to be clear of students’ belongings.
   - No food or drink to be consumed – with the exception of water in a capped bottle. Lead by example.

Fire safety
If the fire alarm goes off, the person in charge of the class will instruct the students how to leave the building safely and will lead them to the Assembly point (the lawn in front of the Department of Archaeology & Anthropology), and will inform them when to return after the all-clear has been given.
Guidance on using the Personal Training Record

What safety training is required?
The Management of Health and Safety at Work Regulations require the University to provide adequate health and safety training on induction, when there is exposure to new or increased risks and to repeat the training periodically where appropriate.

Members of the University are required to attend any health and safety training which the University or their institution decides is needed to enable them to become competent in the health and safety aspects of their work.

Who should use the Record?
- The Personal Training Record is primarily intended for those who work in laboratories, workshops or similar areas where practical work is undertaken.
- It is intended for staff, including maintenance staff, office staff, assistant staff, academic and academic-related staff, other research workers and visitors, and students.
- The Induction Checklist issued by the Personnel Division can be used for those whose work does not involve a wide range of safety issues.

What is the function of the Record?
All safety induction, training courses and instruction received throughout an individual’s time at the University should be recorded here.

- The holder can use it to identify any shortfalls in safety training, instruction and information if they are asked to carry out new work.
- It can be used during appraisals when considering training needs for staff development.
- The holder can also use it if they do similar work in a different Department as evidence that they have already received training and instruction, but they must also be familiar with any local rules or procedures.
- The Group Leader/Academic Supervisor can use the Record to ensure that everyone under their supervision has received the necessary training and instruction to work safely.
- Departments should include the Record as part of their training records system.

What to do with the Record
- The individual keeps the original of the Personal Training Record.
- After initial training, instruction and information has been provided and recorded, a copy of the document should be given to the Head of Section/Academic Supervisor/Local Safety Officer and to the Safety Officer (S034) / Safety Administrator (N014).
- Further training and instruction should be recorded on the Record. Further copies should be given annually (in June or July) to the Head of Section/Academic Supervisor and to the Safety Officer /Safety Administrator.
- When the individual leaves the Department, a copy of the Record must go to the Safety Officer / Safety Administrator.
Personal Training Record

Please use this document to record any relevant safety documentation, safe-operating procedures (SOPs) or risk assessments for your work, which you have read or training which you have received. This document will also assist your supervisor or Head of Group to ensure that all their staff and students have received the necessary instruction and training to enable them to work safely.
Laboratory Users will also have a more specific ‘At Bench’ Training Record.

<table>
<thead>
<tr>
<th>Employee/Student Name</th>
<th>Head of Section / Supervisor</th>
<th>Date Work Commenced</th>
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</thead>
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<table>
<thead>
<tr>
<th>Technique / Area</th>
<th>Received and read information (signature)</th>
<th>Received relevant training (signature)</th>
<th>Date and nature of training</th>
<th>Supervisor’s or lab manager’s signature</th>
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</thead>
<tbody>
<tr>
<td>General Issues</td>
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<tr>
<td>Safety Handbook, including Dept Safety Policy and Statement of Safety Organisation</td>
<td>Where not applicable enter N/A</td>
<td>Where not applicable enter N/A</td>
<td>e.g. University course/personal supervision/other</td>
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<tr>
<td>First Aid arrangements</td>
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<tr>
<td>Reporting accidents and incidents</td>
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<td>Fire and security procedures</td>
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<td>Expectant mother policy</td>
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<td>Electrical safety, including inspection and testing</td>
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<td>Lone and out of hours working</td>
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<td>Use of ladders and work at height</td>
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<tr>
<td>Use of computers, display screen equipment and posture</td>
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<tr>
<td>Manual handling</td>
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<td>Laboratory Safety</td>
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<td>Waste disposal routes</td>
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<td>Selection and use of PPE</td>
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<td>Activity</td>
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<td>Handling and spillages of chemicals</td>
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<td>Use of fume cupboards</td>
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<td>Carcinogens</td>
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<td>Toxins, poisons and controlled drugs</td>
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<td>Use of microbiological safety cabinets</td>
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<td>Liquid nitrogen and other cryogens</td>
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<td>Compressed gasses and gas cylinders</td>
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<td>Vacuum and pressure equipment</td>
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<td>Use of centrifuges</td>
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<td>Use of autoclaves</td>
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<td>Machine tools</td>
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<td>Use of light microscope, set-up and posture</td>
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**Radiation**  
*See Laser Officer or Radiation Protection Supervisor for Local Rules.*

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<tr>
<th>Technique</th>
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<tbody>
<tr>
<td>Lasers</td>
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<td>Sealed radioisotopes</td>
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<td>Un-sealed radioisotopes</td>
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<td>X-ray equipment</td>
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<tr>
<td>Ultraviolet sources</td>
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<td>NMR</td>
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</table>

**Other Techniques**

Please keep this form for your records, and submit a photocopy to your Head of Section/Academic Supervisor/Local Safety Officer and to the Safety Officer/Safety Administrator whilst you continue working in the Department, and submit a final copy when you leave.
Health and Safety Law

What you need to know

All workers have a right to work in places where risks to their health and safety are properly controlled. Health and safety is about stopping you getting hurt at work or ill through work. Your employer is responsible for health and safety, but you must help.

What employers must do for you

1. Decide what could harm you in your job and the precautions to stop it. This is part of risk assessment.
2. In a way you can understand, explain how risks will be controlled and tell you who is responsible for this.
3. Consult and work with you and your health and safety representatives in protecting everyone from harm in the workplace.
4. Free of charge, give you the health and safety training you need to do your job.
5. Free of charge, provide you with any equipment and protective clothing you need, and ensure it is properly looked after.
6. Provide toilets, washing facilities and drinking water.
7. Provide adequate first-aid facilities.
8. Report major injuries and fatalities at work to our Incident Contact Centre on 0345 300 9923. Report other injuries, diseases and dangerous incidents online at www.hse.gov.uk.
9. Have insurance that covers you in case you get hurt at work or ill through work. Display a hard copy or electronic copy of the current insurance certificate where you can easily read it.
10. Work with any other employers or contractors sharing the workplace or providing employees (such as agency workers), so that everyone’s health and safety is protected.

What you must do

1. Follow the training you have received when using any work items your employer has given you.
2. Take reasonable care of your own and other people’s health and safety.
3. Co-operate with your employer on health and safety.
4. Tell someone (your employer, supervisor, or health and safety representative) if you think the work or inadequate precautions are putting anyone’s health and safety at serious risk.

If there’s a problem

1. If you are worried about health and safety in your workplace, talk to your employer, supervisor, or health and safety representative.
2. You can also look at our website for general information about health and safety at work.
3. If, after talking with your employer, you are still worried, you can find the address of your local enforcing authority for health and safety and the Employment Medical Advisory Service via HSE’s website: www.hse.gov.uk.

Fire safety

You can get advice on fire safety from the Fire and Rescue Services or your workplace fire officer.

Employment rights

Find out more about your employment rights at www.gov.uk.

Further information

This leaflet is available at www.hse.gov.uk/pubns/books/lawleaflet.htm. The information in this leaflet is available in a number of formats.

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