Occupational Safety, Health and Prevention at ENAC

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PART 1:

New safety organization EPFL
Situation / organization to date

DSPS, Chief safety officer EPFL: Eric DuPasquier

School safety coordinator (CSF): Hendrik Huwald

Unit/lab

Safety correspondent (COSEC): « My COSEC »

COLLABORATORS / STUDENTS
Nouvelle organisation sécuritaire EPFL

Domaine DSPS Sécurité, Prévention et Santé

Services
- Intervention et Sécurité
  - Gestion des événements
  - Projets spéciaux
- Prévention et Santé
  - Prévention et Formation
  - Santé

SIS Safety Competence Center
- Risques en laboratoire
  - Analyse des dangers
  - Analyse des risques
  - Visite de postes
  - Cadastre autorisation
- Recherches
  - Formation Continue

SCC
- Prévention et Santé
  - Contrôle
  - Réseau COSST*
  - Conseil
- Santé
  - Formations obligatoires de sécurité
  - Santé au travail
  - Médecine du travail
  - Ergonomie

SPS
- EPFL Security, Health and Safety Committee

Antennes (IMT-NE, Sion, Fribourg)

* COSST = Correspondent de Sécurité et Santé au Travail
Safety Competence Center – Team:

Thierry Meyer (head)
Chemist / Safety Engineer

Francesca Gaggini
Chemist

Sebastian Brückner
Chemist

Amela Groso
Physicist

Elina Buitrago
Chemist

Anne Huriet
Chemist

Camille Freyssenet
Biosafety

Stéphane Karlen
Biosafety

Kirstin Friedrich
Chemist

Riccardo Iannarelli
Physicist
Lab Security Training – Team:

Stéphane Karlen
Biosafety

Camille Freyssenet
Biosafety

Kirstin Friedrich
Chemist

COSST:

Marc Matthey
Mech. Ing. 1st COSST ME-D

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Future role of COSECs:

The COSECs remain reference and contact person of their lab/unit for:

- the Safety Competence Center (SCC)
- the (future) COSST
- the representatives of other DSPS services (i.e. ISI et PS)
- the institute direction
- the ENAC direction (décanat and Dean)
New safety structure at EPFL

Unit/lab
Studios/Ateliers

Safety correspondant (COSEC/COSST):

COLLABORATORS / STUDENTS
Health Point

BS 172

New address/location

Advice, prevention, vaccination, questions concerning health, stress, and psychological support
Information / Education / Training:

- Information and basic training by lab COSEC (see COSEC tasks).
- Training on machines/instruments by head of lab or workshop.
- Mandatory basic safety training (« FOBS ») and other:
  [http://securite.epfl.ch/coursetraining](http://securite.epfl.ch/coursetraining)

**COSST:** Training course for COSST/COSEC

**FOCS:** Complementary specific safety training

**FOBS 3:** BSL 2 / 3

**FOBS 2:** Lab/shop: Chemistry, Biology, Mechanics

**FOBS 1:** Intro, fire, first aid, (IPE, waste)

- **FOBS 1:** oblig., everybody
- **FOBS 2:** oblig., for lab activity
- **FOBS 3:** oblig., for work in BSL2+
- **COSST:** oblig., according to needs
Education:

EPFL / DSPS offer many specialized courses, e.g.:

- Electrical hazards
- Chemical hazards I (introduction + practical)
- Chemical hazards II (advanced)
- Biological hazards
- Ionizing radiation hazards (radioprotection)
- Laser hazards
- Cryogenic hazards
- Magnetic fields hazards
- Protection during pregnancy
- Ergonomics: handling heavy material
- Ergonomics: working with computer screens
- Use of drugs and precursor
- Cranes and fork lifts (incl. certificate and permit)

→ register with Sylvia Fabris
Formation Atelier des Maquettes (AdM):

Accès au AdM seulement pour personnes formés (2ème année).
2 modules de formation (par les maquettistes, M. Heynick, A. Gagliardi)

a) Théorie: fonctionnement de l’AdM, présentation des risques et dangers.
b) Pratique: formation sur les machines et mesures de sécurité.

Plus d’info (règlements et info formation):
http://enac-oc.epfl.ch/page-59387-fr.html
http://enac.epfl.ch/securite
PART 2:

Reminder – useful information
Mission of the COSEC:

1. Reference person for occupational safety and health (OSH) for respective unit/s.
2. Organize training and information on OSH for new collaborators and visitors of the unit.
3. Forward safety related information to the staff of the unit.
4. Forward relevant safety-related information of the unit to the CSF*.
5. Inform the director of the unit/section and the CSF about safety related problems and events.
6. Be familiar with the buildings’ alarm systems, the evacuation procedures, and the emergency equipment (fire extinguisher, showers, eye-wash, etc…) and inform the collaborators of the unit.
7. Coordinate the realization and actualization of the « door safety sheets » of the respective unit/s.
8. Verify regularly the presence and the condition of the individual protection material (first aid kit, masks, gloves, glasses, etc…) and organize their maintenance together with the DSPS.
9. Verify that applicable safety rules within the unit are respected; in case of ignorance or non-conformity refer to the CSF.
10. Verify that requested safety related modifications for the unit have been implemented.
11. Organize the announcement of events and participate in relevant events and training organized by the CSF or the DSPS.
12. Impose emergency measures to eliminate an imminent danger (e.g. interruption of an experiment) of which he is aware.
Announcement and Information (1):

Please communicate all changes and requests to DSPS, e.g.:

- Change of COSEC
  → France Hammel, Audrey Sicard, Suzanne Dubsky

- Accreditation as COSEC or for editing “Door Safety Sheets”
  → France Hammel, Audrey Sicard, Suzanne Dubsky

- Theft, violence, burglary
  → 115, Alexandre Jacquat

- Accidents and “Almost-accidents”
  → SCC, online form

- Any suspect person/s in or around EPFL premises
  → 115, Alexandre Jacquat
Announcement and Information (2):

Please communicate any activity involving cells, organisms, pathogens, genetically modified matter:

- Any biosafety related activity or issue (notifications and declarations may be required):
  → Stéphane Karlen, Camille Freyssenet

- Any new risk-involving activity of the lab
  → Safety Competence Center
Safety first... your responsibility!

When working with chemicals, products, instruments, machines:

• Perform risk analysis considering procedures, products, alternatives  
  → the Safety Competence Center assists

• Know the hazard/s related to chemicals you use:  
  → see Material Safety Data Sheets, MSDS, e.g. [http://sb-sst.epfl.ch](http://sb-sst.epfl.ch)

• Know safety instructions of instrumentation you use (read manual/s first).

• Obtain adequate and sufficient training before using products or machines.
What you must know:

- Emergency phone number/s
- How to get help and support in your unit and on campus
- The safety correspondent (COSEC) of your Lab
- Correctly wear or use appropriate safety equipment
- How to correctly dispose waste
- Basic safety rules and indications in your Lab / Section / Institute
- Legal base and safety aspects concerning your activity
- In case of an event / emergency:
  - How to transmit an alarm
  - How to act correctly in case of accident, fire, evacuation
  - Know where to find the closest:
    a) extinguisher, b) emergency shower, c) eye-wash,
    d) first-aid kit, e) emergency exit, f) meeting/assembly point
Emergency number/s

for all kind of safety issues ➔
fire, spill, leak, theft, violence, first aid (accident and disease)...

115 from any EPFL phone
021 693 3000 from (your) mobile phone

➔ DSPS head office
(Domaine Sécurité Prévention et Santé)
SCHOOL OF ARCHITECTURE, CIVIL AND ENVIRONMENTAL ENGINEERING ENAC

Safety at ENAC

General information

Occupational safety and health information relevant to EPFL and its Schools can be found on the webpages of the Safety, Prevention and Health Domain, DSPS, and is thus not duplicated here.

This page provides ENAC related safety information and links to frequently requested resources.

Detailed information on the respective roles and functions can be found here.

DPS
Safety, Prevention, and Health Domain

CSF
School Safety Coordinator

COSEC
Lab Safety Correspondent

Collaborators, guests, students

On-Campus & ENAC

A short overview of safety at ENAC is available from the presentation below. This information is given to new collaborators of ENAC in the context of the Obligatory Basic Safety Training (OBST).

- ENAC_safety.pdf

Off-Campus & Terrain

Research and Teaching often involves traveling and various activities abroad and/or in the field requiring special attention. Please consider the instructions for Fieldwork below as well as the Guidelines for travel andoding abroad (French only).

EMERGENCY

EPFL fix phones: 115
Mobile & external: 021 693 3000

COORDINATION & CONTACTS

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EPFL-ENAC-IEE-FLUM
GR-A0-444
CH-1015 Lausanne

Tel: +41 (0) 21 693 27 15
Fax: +41 (0) 21 693 83 90

Directives and regulations

Safety related directives are available from several sources:

- Polylex EPFL:  [http://polylex.epfl.ch/security](http://polylex.epfl.ch/security)
- e.g. DSST, smoking, notification/authorizations, GMO, nano-materials, gas cylinders, inflammables, Camipro, etc.
- SUVA:  [http://www.suva.ch/](http://www.suva.ch/)
Dangers

• BIOLOGICAL DANGERS
• CHEMICAL DANGERS
• PHYSICAL DANGERS
• ELECTRICAL DANGERS
• CRYOGENIC DANGERS
• DANGERS RELATED TO GAS
• DANGERS RELATED TO LASERS
• DANGERS RELATED TO RADIATION

How about MY lab and work place ???
Individual Protection Equipment: LAB (examples)

- Safety shoes
- Ear protectors
- Hard hat
- Lab coat
- Safety glasses
- Mask

Note: No Food or Drink allowed.
Individual Protection Equipment: FIELD (examples)
Evacuation: ➔ EPFL meeting points

Keep accessible at all times
Signalization in campus buildings
Safety data sheets on doors:

http://securite.epfl.ch/ficheporte/en

Please keep them up-to-date!

No handwritten editing on sheet, this is not visible in data base!
Waste and recycling

Architecture studio – end of semester 2014...

... almost...
Waste and recycling

Architecture studio – end of semester 2014…

... the reality ...

CHF 125’000
Spent for clean up

CHF 250’000
To replace damaged furniture in SAR

CHF 90’000
To replace damaged furniture at EPFL excl SAR
Separation and recycling of waste

- paper and cardboard
- glass
- PET
- aluminum / metal
- inert
- residual waste
- wood
- toxic

Correct elimination of special (toxic) waste-
Get information, e.g.:
http://securite.epfl.ch/waste
http://sb-sst.epfl.ch/waste-disposal
Special waste management
Order and cleanliness: integral elements of occupational safety and health
And my comfort?

Unauthorized kitchens and domestic appliance:
Not permitted in workshops & laboratories!

NOT PERMITTED in kitchenettes
Speaking of wiring...
Work at night?

Conditionally permitted

BUT:
• Don’t stay alone
• No «dangerous» activity

Camping and sleeping in labs and workshops: NOT PERMITTED
Doors and building access:

- During restricted access hours keep building envelop doors closed and do not grant access to unknown people (→ theft, unauthorized access)

- Keep fire doors closed where indicated, or operational where automatic triggering is installed

- Keep doors to labs in corridors closed, and locked when nobody is in.

Attention! Theft !!!

Suspect person in your office ?!
Call immediately 115 or 021 693 3000

http://securite.epfl.ch/theft
Services and Resources

• Validated individual protection equipment (bio/chem. stores EPFL)

• DSPS online-shop for safety equipment [http://securite.epfl.ch/EPI-en](http://securite.epfl.ch/EPI-en) (fire protection, first aid material, signalization)

• Medical safety glasses on request [http://securite.epfl.ch/medicalglasses](http://securite.epfl.ch/medicalglasses)

• Medical checks / controls prior and during employment (for laser and radioprotection) → HealthPoint

• Protection / advice of pregnant women → HealthPoint

• Occasional checks of workplaces to identify → Safety Competence Center
  1. risks and dangers, 2. dangerous situations and behavior, 3. defective safety equipment, 4. flaws in the safety organisation
Information resources:

- Safety Manual
- Occupational Health and safety

- Livret de sécurité
- Sécurité et santé au travail

- School of Basic Sciences
- Faculté des sciences de base

http://sb-sst.epfl.ch/safety-manual
Formulaire “Inform” (< 2 min pour remplir):
Traveling abroad

EPFL maintains an assistance plan with its partner International SOS

More info at:

http://securite.epfl.ch/travel

Download App:
Please avoid... !

Matériel inflammable sur les gaines techniques

Produits chimiques rangés dans un carton
Restes de nourriture et de boissons avec emballages sales sur les bureaux…

Please avoid...!
Please avoid...!

Beverages (?) among dangerous / toxic products
Please avoid... !
Please avoid... !
Safety rules apply to everybody - NO exceptions!

I am the BOSS!

Glasses?
We are here to

- protect, assist, advice you
- provide optimal conditions for your studies / work / research

@ EPFL
Your Choice:
Call – or faint…

Ouch… Sh.t!
Emergency ?!

Thank you very much for your cooperation!

Questions?

021 693 3000
7/7 -- 24/24