

## **Switzerland**

**REPORT BY SWITZERLAND IN ACCORDANCE WITH THE FINAL DECLARATION OF THE THIRD REVIEW CONFERENCE OF THE STATES PARTIES TO THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION AND STOCKPILING OF BACTERIOLOGICAL (BIOLOGICAL) AND TOXIN WEAPONS AND ON THEIR DESTRUCTION.**

Bern, March 2008

**Declaration form on nothing to declare or nothing new to declare**

<b>Measure</b>	<b>Nothing to declare</b>	<b>Nothing new to declare</b>
A Part 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A Part 2 (i)	<input type="checkbox"/>	<input type="checkbox"/>
A Part 2 (ii)	<input type="checkbox"/>	<input type="checkbox"/>
A Part 2 (iii)	<input type="checkbox"/>	<input type="checkbox"/>
B (i)	<input type="checkbox"/>	<input type="checkbox"/>
B (ii)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D	<input type="checkbox"/>	<input type="checkbox"/>
E	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F	<input type="checkbox"/>	<input checked="" type="checkbox"/>
G	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Date: March 2008

State Party to the Convention: **Switzerland**

**National biological defence research and development programme declaration**

Is there a national programme to conduct biological defense research and development within the territory of the State Party, under its jurisdiction or control anywhere? Activities of such a programme would include prophylaxis, detection, treatment, toxicology, physical protection, decontamination and other related research.

YES

If the answer is "yes", complete Form A, part 2 (ii) which will provide a description of the programme.

**National biological defence research and development programme declaration**

1. State the objectives and funding of the Programme and summarize the principal research and development activities conducted in the programme. Areas to be addressed shall include: prophylaxis, studies on pathogenicity and virulence, diagnostic techniques, aerobiology, detection, treatment, toxicology, physical protection, decontamination and other related research.

The objective of the programme is to build-up and establish national bio-defence by developing rapid identification and characterization tests for biological agents and toxins either by immunological or molecular methods.

2. State the total funding for the programme and its source.

Total funding for the programme by the Swiss Federal Department of Defence is in the order of CHF 1'000'000.- per year.

3. Are aspects of this programme conducted under contract with industry, academic institutions, or in other non-defence facilities?

Yes, there are several institutes from universities involved

The programme is supervised by the Spiez Laboratory which is part of the Federal Office for Civil Protection within the Department of Defence, Civil Protection and Sports

4. If „yes“, what proportion of the total funds for the programme is expended in these contracted or other facilities?

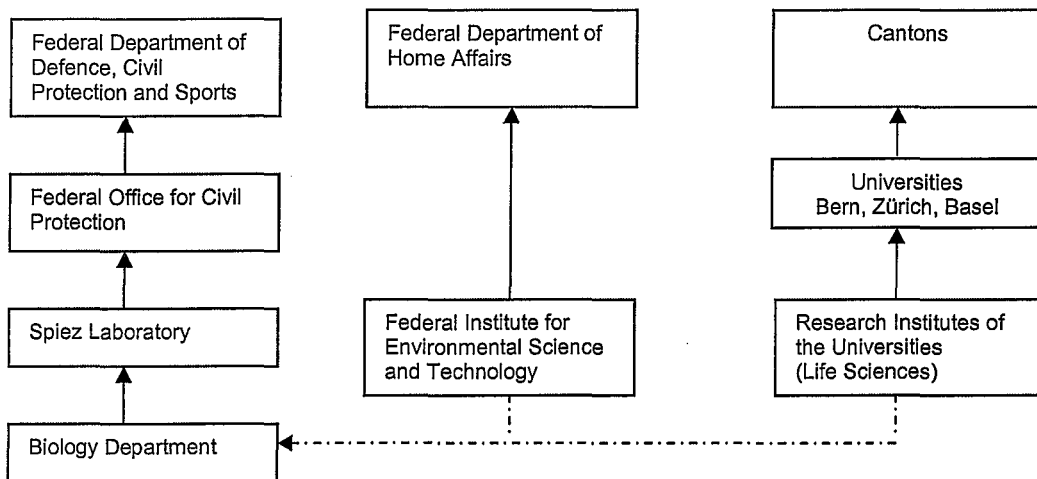
50%

**Form A, part 2 (ii)**

5. Summarize the objectives and research areas of the programme performed by contractors and in other facilities with the funds identified under paragraph 4.

Cf. para 1 above

6. Provide a diagram of the organizational structure of the programme and the reporting relationship (include individual facilities participating in the programme).



Full lines: direct accountability  
Dashed lines: contract-based relationships

**National biological defence research and development programme**

**Facilities**

Complete a form for each facility declared in accordance with paragraph 7 in Form A, part 2 (ii). In shared facilities, provide the following information for the biological defence research and development portion only.

1. What is the name of the facility?

*Spiez Laboratory*  
Swiss NBC Defence Establishment

2. Where is it located (include both address and geographical location)?

*Spiez Laboratory*  
CH-3700 Spiez  
Switzerland

3. Floor area of laboratory areas by containment level:

BL2 \_\_\_\_\_ 300 m2 \_\_\_\_\_ (sqM)

BL3 \_\_\_\_\_ 10 m2 \_\_\_\_\_ (sqM)

BL4 \_\_\_\_\_ (sqM)

Total laboratory floor area \_\_\_\_\_ 310 m2 \_\_\_\_\_ (sqM)

4. The organizational structure of each facility.

(i)	Total number of personnel	12
(ii)	Division of personnel:	
	Military	-
	Civilian	12
(iii)	Division of personnel by category:	
	Scientists	6
	Engineers	1
	Technicians	5
	Administrative and support staff	-

**Form A, part 2 (iii)**

- |        |   |   |
|--------|---|---|
| (iv)   | List the scientific disciplines represented in the scientific/engineering staff.  | Microbiology, molecular biology, biotechnology, toxicology / toxinology |
| (v)    | Are contractor staff working in the facility? If so, provide an approximate number.   | 3   |
| (vi)   | What is (are) the source (s) of funding for the work conducted in the facility, including indication if activity is wholly or partly financed by the Ministry of Defence? | Department of Defence (100%)  |
| (vii)  | What are the funding levels for the following programme areas:  |   |
|        | Research  | 25%   |
|        | Development   | 25%   |
|        | Test and evaluation   | 50%   |
| (viii) | Briefly describe the publication policy of the facility:  | publication in the open literature                                      |
| (ix)   | Provide a list of publicly-available papers and reports resulting from the work during the previous 12 months. (To include authors, titles and full references.)          | not yet available   |

5. Briefly describe the biological defence work carried out the facility, including type (s) of micro-organisms\* and/or toxins studies, as well as outdoor studies of biological aerosols.

- Analysis of unknown samples
- Diagnostics of potential warfare and bioterror agents (RG3)
- Coordination of external research projects with contractors (universities)
- Food and water analysis for the Swiss Armed Forces

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\* Including viruses and prions.

**Exchange of information on outbreaks of infectious diseases and similar occurrences caused by toxins**

**General remarks:**

**1. Human diseases**

The Swiss Federal Office of Public Health (*Office fédéral de la santé publique*) is responsible for the surveillance and reporting of diseases. A nationwide notification system is regulated by the Ordinance on the Notification of Communicable Human Diseases (*Ordonnance du 13 janvier 1999 sur la déclaration des maladies transmissibles de l'homme*), which is based on the Federal Law on Epidemics (*Loi fédérale du 18 décembre 1970 sur la lutte contre les maladies transmissibles de l'homme*).

On the basis of this ordinance every medical practitioner is obliged to report the occurrence of certain notifiable diseases. In addition, medical laboratories have to report the identification of notifiable agents. The results of this survey are published in the weekly *Bulletin de l'office fédéral de la santé publique* (internet: [www.admin.ch/bag/infreporting/bulletin.html](http://www.admin.ch/bag/infreporting/bulletin.html)). The *Bulletin*, which also contains detailed reports on the epidemiological situation in the country, is transmitted to the World Health Organisation (*Organisation mondiale de la santé*).

**2. Animal diseases**

According to the Federal Law on Animal Epidemics (*Loi du 1<sup>er</sup> juillet 1966 sur les épizooties*) and the corresponding ordinances, certain animal diseases have to be reported to the Federal Veterinary Office (*Office vétérinaire fédéral*) which in turn is responsible for the reporting to the OIE (*Office International des Epizooties*) concerning the diseases covered by the A- and B-list of the OIE. Epidemiological data are regularly published in the weekly *Bulletin de l'office vétérinaire fédéral* and on the internet ([www.bvet.admin.ch](http://www.bvet.admin.ch)).

**3. Plant diseases**

The Federal Office of Agriculture (*Office fédéral de l'agriculture*) reports regularly to the EPPO (*European Plant Protection Organisation*) concerning the occurrence of communicable plant diseases. Certain plant diseases are notifiable according to the Federal Law on Agriculture (*Loi fédérale du 29 avril 1998 sur l'agriculture*) and the corresponding Ordinance on Plant Protection (*Ordonnance sur la protection des végétaux du 5 mars 1962*).



**Background information on outbreaks of reportable infectious diseases in humans**

Disease	Number of cases per year			
	2004	2005	2006	2007
<b><u>Bacterial:</u></b>				
Anthrax / Bacillus anthracis	0	0	0	0
Brucella species	10	8	3	1
Francisella tularensis	0	0	1	0
Plague	0	0	0	0
Salmonella typhi	27	36	20	21
Shigella species	356	347	341	364
Tetanus	0	2	2	1
<b><u>Viral:</u></b>				
Tick-borne-encephalitis virus	136	204	255	113
Viral hemorrhagic fever	0	0	3	0
<b><u>Protozoal:</u></b>				
Malaria / Plasmodium species	231	205	206	194

**Background information on outbreaks of reportable infectious diseases in animals**

Disease	Number of cases per year			
	2004	2005	2006	2007
African swine fever	0	0	0	0
Anthrax	0	0	0	0
Aujesky's disease	0	0	0	0
Bluetongue	0	0	0	5
Brucellosis, bovine	0	0	0	0
Brucellosis, caprine and bovine	0	0	0	0
Foot and mouth disease	0	0	0	0
Goat pox	0	0	0	0
Hog cholera (swine fever)	0	0	0	0
Newcastle disease	0	0	0	0
Peste des petits ruminants	0	0	0	0
Rabies	0	0	0	0
Rift Valley fever	0	0	0	0
Rinderpest	0	0	0	0
Sheep pox	0	0	0	0
Swine vesicular disease	0	0	0	0
Teschen disease	1	0	1	0
Vesicular stomatitis	0	0	0	0

**Active promotion of contacts**

1. Planned international conferences, symposia, seminars, and other similar forums for exchange

- name of the conference, etc.                      Chemical Biological Medical Treatment Symposium (CBMTS VII)
  
- arranging organization(s), etc.                      Spiez Laboratory, in cooperation with Applied Science Analysis, Inc. (Aberdeen, Maryland, USA)
  
- time    April 2008
  
- place    Spiez, Switzerland
  
- main subject(s) for the conference, etc.                                      CBMTS VII will bring together professionals most concerned with and directly involved in the scientific, technical and operational aspects of problems associated with the chemical, biological and toxin (CBT) threat to include all actions associated with CBT agent, agrochemical and industrial poisonings. It will address the topics of chemical and biological terrorism and anti-terrorism matters.
  
- point of contact for further information, registration, etc.                      Internet: <http://www.asanltr.com/cbmts/>

2. Information regarding other opportunities

Since 1990, the Swiss National Science Foundation (SNSF), together with the Swiss Agency for Development and Cooperation (SDC), has conducted a programme of scientific cooperation with Eastern Europe (under the name of SCOPES since 2000). Although 15 years have passed since the system change from planned to free market economy, the transition countries still suffer from the many years of obstruction of exchange in the scientific sector.

The drastic reduction of state resources led to the loss of significant components of the previously impressive research capacity and competence. Due to missing networks, the visibility and reputation of researchers is low. The migration (brain drain) of many scientists

from research to other sectors and abroad is the result. For these reasons further qualification is extremely important for increasing the efficiency and competitiveness of research groups in Eastern Europe.

Programme support is awarded primarily for Joint Research Projects (JRP) as well as Institutional Partnerships (IP). Within the former, research groups from Eastern Europe together with partners from Switzerland undertake specific research. For Institutional Partnerships, Swiss partners support restructuring and modernisation processes in research institutions in the participating countries.

Besides these two instruments, conference and valorisation grants are financed. Conference grants (CG) enable researchers from partner countries to participate in international scientific conferences being organised and held in Switzerland. Valorisation Grants (VG) shall increase the effects and sustainability of the supported activities and the achieved results in the framework of JRP und IP.

The JRP and IP approved in the framework of the call for proposals in spring 2005 will start in autumn 2005 and will continue until the end of 2008.

After 15 years of common commitment, the SNSF and the SDC have produced the publication "Scientific co-operation between Eastern Europe and Switzerland – a Swiss contribution to the countries in transition", which presents the diversity of the supported activities, the experiences based on them and the achieved results.

Detailed information on projects in the field of biology and medicine can be obtained via the internet (<http://www.snf.ch/e/international/abroad/scopes/seiten/default.aspx>).