

Sunday 2 May 2010

13.30	Buses leave from the hotels in Thun and Spiez for the special training session
14.00 – 17.00	Special training session
17.00	Buses bring participants of special training session to the Hotel Belvédère, Spiez
17.00	Buses pick up participants at the hotels in Thun and Spiez for the registration
17.00 – 18.30	Registration in Hotel Belvédère, Spiez
18.00 – 18.30	Meeting of session chairs and co-chairs
18.30 – 20.00	Welcome party in the Hotel Belvédère, Spiez

Monday 3 May 2010

08.30 Buses leave from the hotels in Thun and Spiez

Opening Ceremony CBMTS VIII

09.00 – 09.50	Opening of the Meeting: Dr. Marc Cadisch , Symposium Director, Director SPIEZ LABORATORY Ambassador Rogelio Pfirter , Director-General of the OPCW Dr. Markus Seiler , Director of the Swiss Federal Intelligence Service FIS Brig. Gen. (ret) Dr. Lionel Lee , Director, Defence Medical Environmental Research Institute (DMERI), Singapore Dr. Brian Davey , Medical Director of the United Nations Col. Richard Price , Symposium Co-Director Introductions for the CBMTS VIII Symposium Technical/Scientific Advisor and Symposium Chairs and Co-Chairs
09.50 – 10.20	Coffee break

Session 1 Overview on CBMTS VIII

	Chair: Ronald Chesser Co-Chair: Josef Fusek
10.20 – 12.20	Brian Davey (1) From Anticipation to Action: UN Experiences In Pandemic Response Dana Perkins (2) Consequence Management of Biological Incidents (Contribution from Sector 4) Martin Schütz (3) Risk Communication is a Key Element for the Successful Planning and Running of High-Containment Laboratories: Experience from the Swiss BSL4 Laboratory Project (Contribution from Sector 2) Jiri Bajgar (4) Comparison of Different Approaches to Prophylaxis Against Nerve Agents and Organophosphates Incidents (Contribution from Sector 1) Frank Balszuweit (5) Acute Effects of Sulfur Mustard on an In Vitro Bronchial Model (Contribution from Sector 3) Carleton Phillips (6) Assembling Multinational Partnerships and Private Sector Support for Nuclear Nonproliferation – Lessons from Iraq (Contribution from Sector 3)
12.20 – 13.20	Lunch

Session 2	Chemical Aspects
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Chair: Radharaman Ray
Co-Chair: Stefan Mogl

- 13.20 – 15.20** **Radharaman Ray (7)**
FAS-mediated Cell Death Mechanism: A Focus for Intervention of Mustard Gas Injury
- Yong-An Wang (8)**
The Anticonvulsant Effect and its Mechanism of Propofol on Pilocarpine Induced Status Epilepticus in Rat
- Prabhathi Ray (9)**
Antibiotics Improve Phagocytic Capacity and Reduce Inflammation in Sulfur Mustard-Exposed Human Monocytes
- Richard Gordon (10)**
CNS Pre- and Post-Exposure Treatments for OP Poisoning
- Kamil Musilek (11)**
AChE Reactivator - SAR of Non-Oxime Part of the Molecule
- Kallol Ghosh (12)**
Exploration of New Strategies for Detoxification of Toxic Compounds
- Stefan Mogl (13)**
Swiss Activities Regarding the Status of Incapacitating Agents Under the Chemical Weapons Convention
- Jessica Cox (14)**
The Chemical Terrorism Risk Assessment: A Biennial Assessment of Risk to the Nation

15.20 – 15.50 Coffee break

Session 3	Biological Aspects I
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Chair: Brendon Hanson
Co-Chair: Charles Call

- 15.50 – 17.20** **Paul Dabish (15)**
Experimental Bioaerosol Atmospheres for Use in the Development of Inhalational Animal Models of Infectious Diseases
- Charles Call (16)**
An Analysis of Layered Sensor Architectures for Bio-Agent Detection in Critical Infrastructure
- Frank Gessler (17)**
A Rapid Test (Lateral Flow Assay) for the On-Site-Detection of Bio-Warfare Agents
- Brendon Hanson (18)**
Mitigating Pandemic Influenza Pre-Vaccine, Exploration of Broad Immune Protection Strategies
- Mark Sloan (19)**
Methods for Collecting, Detecting and Identifying Biological Agents in Environmental and Animal Samples
- Slavko Bokan (20)**
The Epidemic of Antibiotic Resistant Infections: An Impact on the List of Emerging Bioterrorism Bacterial Threat Agents
- 17.30** **Buses leave to the hotels in Thun and Spiez**
- 18.40** **Bus leaves from the Hotel Holiday in Thun for dinner in Hotel Seegarten Spiez**
- 19.00** **Dinner in Hotel Seegarten Spiez**
- 20.30** **Bus leaves to the Hotel Holiday in Thun**

Tuesday 4 May 2010

08.00 Buses leave from the hotels in Thun and Spiez

Session 4 Medical Aspects I

Chair: Darrin Smith
Co-Chairs: Marek Brytan

08.30 – 09.30 **Stef Stienstra** (21)
Synergistic Effect of Using, Simultaneously, Anti-LF and Anti-PA Antibodies in the Treatment of an Anthrax Infection
Steven Adams (22)
Strategies for Influenza Mitigation, Medical Materiel Planning and Response for Both the Spring and Fall Waves of the 2009 H1N1 Influenza Pandemic
Bhupendra Doctor (23)
Neuroprotection Against Nerve Agents and Blast Exposure
John Strain (24)
Implementation of Tactical Combat Casualty Care in the CBRNE (WMD) Environment

09.30 – 10.00 Coffee break

Session 5 Radiological Aspects

Chair: Alexander Pivovarov
Co-Chair: Daniel Kaszeta

10.00 – 11.00 **Emmanuel Egger** (25)
Terrorist Attacks with Radioactive Sources – Medical Aspects
Ronald Chesser (26)
Status of Nuclear Facility Dismantlement and Non-proliferation Efforts In Iraq, 2005-2010
Alexander Pivovarov (27)
Ukraine - NATO: Counteraction to Chemical, Biological, Radiological and Nontraditional Terrorism
Andreas Ziegler (28)
The New Austrian Concept for Medical Diagnostics and Therapy after Radiation Accidents

Session 6 Detection and Decontamination I

Chair: Richard Amlôt
Co-Chair: Henri Derschum

11.10 – 12.10 **Henri Derschum** (29)
Towards Rapid On Site Investigations With a Deployable Field Lab
Richard Amlôt (30)
The Orchids Project: Evaluation, Optimisation, Trialling and Modelling Procedures for Mass Casualty Decontamination
Zhi-Kui Yang (31)
On-Site NBC Detection Procedure for Suspicious Samples in Beijing Olympic Games

Daniel Kaszeta (32)

Lessons Learned in Detecting and Identifying Radiation Sources in the Modern Urban Environment

12.15 – 13.15 Lunch

Session 7A	Industry I
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Chair: Nayla Feghali

Co-Chair: Jennifer Andrews

13.15 – 14.30 *Contribution cancelled* (33)

Michael Hargreaves (34)

Rapid Non-Destructive Identification of Chemical Warfare Agents Explosives and their Precursors by Vibrational Spectroscopy;

Raymond Andrieu (35)

A New Direct CFD Proprietary Software for Biodefense: Simulation of Airflows and Contaminants Diffusion. Example of a Shopping Center Contamination with Biological, Gaseous or Aerosols Vectors

Mark Johnson (36)

International Biological Preparedness: The Development and Stockpiling of Medical Countermeasures

Mike Mesa (37)

The Evolution of the Auto-Injector

14.30 – 15.00 Coffee break

Session 7B	Industry II
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Chair: Paul Lippner

Co-Chair: Michael Hargreaves

15.00 – 16.00 **Laura Cochrane** (38)

RSDL: New Research, Industry – Government Cooperation

Jennifer Andrews (39)

The Role of In-Situ Analytics and Reaction Calorimetry in the Investigation of Weapons of Mass Destruction

Osmo Anttalainen (40)

CBRNE Detection System Concept - Quick Install-To-Run Wide Area Network

Pavel Castulik (41)

Mannequin for Testing of Personal Protective Ensemble in Dynamic Conditions

16.15 **Buses leave to the hotels in Thun and Spiez**

18.30 **Buses leave from the hotels in Thun and Spiez for the Symposium Dinner**

19.00 – 23.00 **Sympos4um Dinner**

Wednesday 5 May 2010

08.00 Buses leave from the hotels in Thun and Spiez

Session 8 Detection and Decontamination II

Chair: David Trudil
Co-Chair: Kawa Dizaye

08.30 – 09.45 **David Trudil** (42)
The Changing Scene of Bio-Detection and Response from Anthrax to Swine Flu
Bryon Marsh (43)
Rapid On-Site Detection: Modeling Consequences and Food Safety
Jiri Matousek (44)
New Generations of the Czech CBRN Protective Masks for First Responders and the Civil Population
Hua Li (45)
Ricin: Quantitative Detection in Biological Specimens and Toxicokinetics
Vicky Edkins (46)
Mass Casualty Decontamination of Vulnerable and Minority Groups

09.45 – 10.15 Coffee break

Session 9 Emerging Threats, Dual Use, BioSafety and BioSecurity

Chair: Daniel Kumin
Co-Chair: John Strain

10.15 – 11.15 **Cédric Invernizzi** (47)
Dual Use Research of Concern: An Educational Program Focused on Swiss Scientists
Elena Ryabchikova (48)
Structural Features of TiO₂ Nanoparticles Interaction With a Cell
Daniel Kumin (49)
Biosafety Training In Switzerland: Opportunities for the New High-Containment Laboratory at Spiez Laboratory
Venkat Rao (50)
Nanomaterials Risk Assessment: Biosecurity Implications of the Emerging Regulatory Guidelines

Session 10 Special Interest

Chair: Peter Leitner
Co-Chair: Vicky Edkins

11.15 – 12.30 **Barbara Price** (51)
Journal Of Medical, Chemical, Biological and Radiological Defense, JMEDCBR
Zvonko Orehovec (52)
Environmental Contamination by Antibiotics: An Impact on Chemical Decontamination Processes
Kevin Good (53)
Medical Mitigation Model: Assessing the Benefits of the Public Health Response to a Chemical Terrorism Attack

Jun-Wen Mao (54)

Development of Information System for Medical Rescue and Expert Consulting on NBC Terrorist Attacks Prevention and Response and its Application in Beijing Olympic Games Security

12.30 – 13.30 Lunch

13.30 – 14.00 Group Photo

Session 11	Presentation of Posters
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Chair: Venkat Rao

Co-Chair: Jiri Kassa

14.00 – 14.40

Lionel Lee (55)

Toward Enhancing Host Response to Pathogens: Studies of Innate Immune Response to *B. Pseudomallei*

Jiri Kassa (56)

The Potency of Combinations of Oximes to Increase the Reactivating and Therapeutic Efficacy of Antidotal Treatment of Soman-Poisoned Rats and Mice

Christophor Dishovsky (57)

Medical Management of Chemical and Biological Casualties

Joyce Ondicho (58)

Antimicrobial Activity of Some Plants Used in Kenya for Management of Infectious Diseases

Igor Hadjamberdiev (59)

Threats of Transborder Pollution in Central Asia

Kamil Musilek (60)

HI-6, DMS, K027, K203 – Novel Candidates for Replacement of Clinically Used Acetylcholinesterase Reactivators

Constantin Stan (61)

In Vivo Identical Reversibility of Rad-Bio-Chem Lesions on the Skin

Kevin Good (Supplement to oral presentation 53)

Medical Mitigation Model: Assessing the Benefits of the Public Health Response to a Chemical Terrorism Attack

Jessica Cox (Supplement to oral presentation 14)

The Chemical Terrorism Risk Assessment: A Biennial Assessment of Risk to the Nation

14.40 – 15.10 Coffee break

Session 12	Lab Tour: BSL4 and Spiez Lab
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15.10 – 17.30 **Chair: Martin Schütz**

Co-Chair: Mauro Zanni

17.30 **Buses leave to the hotels in Thun and Spiez**

18.40 **Bus leaves from the Hotel Holiday in Thun for dinner in Hotel Seegarten Spiez**

19.00 **Dinner in Hotel Seegarten Spiez**

20.30 **Bus leaves to the Hotel Holiday in Thun**

Thursday 6 May 2010

08.00 Buses leave from the hotels in Thun and Spiez

Session 13 Biological Aspects II

Chair: Eric Heegaard
Co-Chair: Alexander Lyubimov

08.30 – 09.45 **Alex Lyubimov (62)**
Evaluation of Safety of Three Smallpox Vaccines in Immune Competent and Immune Deficient Mouse Models
Eric Heegaard (63)
Likelihood of Smallpox Recurrence
Sergey Biketov (64)
The Search and Identification of New Immunodiagnostic Target of *Bacillus Anthracis* Spore
Eugenia Baranova (65)
The Characteristics of Exosporium Antigens From Different Vaccine Strain of *Bacillus Anthracis*
Darrin Smith (66)
Operation Vigilant Sample II: A Response Overview (Using State and Military Assets to Collect and Identify Gamma-Irradiated *Bacillus Anthracis* Spores and Lessons Learned)

09.45 – 10.15 Coffee break

Session 14 Crisis Management and Medical Aspects II

Chair: Steven Adams
Co-Chair: Mike Rowell

10.15 – 12.15 **Erik Heegaard (67)**
Smallpox-Medical Countermeasures
Marek Brytan (68)
The Concept for Medical Support of Urban Agglomeration During Chemical Terrorist Attack
Andreas Ziegler (69)
Medical Care within the Hot Zone - An Innovative Concept in Vienna during the EURO 2008
Batool Mousavi (70)
Comparing Quality of Life of Chemical Warfare Survivors and other War Survivors with Major Disabilities due to Conventional Weapons Attacks: Results of a National Study from Iran
Kawa Dizaye (71)
Alleviation of Cisplatin-Induced Nephrotoxicity in Rats by Aqueous Extract of *Salvia Officinalis*
Hsiao Ying Chen (72)
Diagnosis of Oral Crude Ricin Poisoning in a Rodent Model
Peter Leitner (73)
Attacking Agriculture With Radiological Materials - A Possibility?

12.30 – 13.30 Lunch

13.15 Buses pick up the accompanying persons at their hotels for excursion

13.45 Buses leave for Excursion and Farewell Party

Friday 7 May 2010

08.00 Buses leave from the hotels in Thun and Spiez

Session 15 CBMTS VIII General Aspects

Chair: Jiri Matousek
Co-Chair: Joyce Ondicho

08.30 – 10.15

Bryon Marsh (74)

Operational Overview of Environmental Sampling During a Chemical/Biological Event

Prabhathi Ray (75)

A Neuron Specific Drug Delivery Vehicle for Botulism Countermeasure

Radharaman Ray (76)

An Irreversible Small Peptide Inhibitor of Botulinum Neurotoxin A: A Prototype Medical Countermeasure for Botulism

Sarah Nwozo (77)

Sequential Chemical Speciation Technique for Determining Highly Toxic Cadmium Associated With Chromium and Lead Associated With Fe-Manganese Oxides

Constantin Stan (78)

Long Term Medical Treatment for Irradiation Disease

Christophor Dishovsky (79)

Investigation of Efficacy of New Reactivators of Cholinesterase

Alexander Pivovarov (80)

Decontamination of Soluble Radioactive Elements from Toxic Solutions Under Action of Cold Contact Plasma

10.15 – 10.45

Coffee break

Session 16 The CBMTS VIII Summary and Closing

10.45 – 12.15

CBMTS VIII Symposium Chair: Brian Davey

CBMTS VIII Symposium Co-Chairs: Barbara Price and Jeffrey Allen

The CBMTS VIII Symposium Chair and Co-Chairs will give a brief meeting recap to be followed by an approximate 10-minute Sector executive summary from each Sector Chair or from their designated representative:

Sector 1:	Chemical Aspects, Industry, Lab-Tour	Sessions 2, 7A, 7B, 12
Sector 2:	Biological Aspects	Sessions 3, 13
Sector 3:	Medical and Radiological Aspects, Crisis Management	Sessions 4, 5, 14
Sector 4:	Detection and Decontamination and Special Interest	Sessions 6, 8, 10
Sector 5:	Emerging Threats, Dual Use, BioSafety, BioSecurity, Posters	Sessions 9, 11
Sector 6:	Opening and Closing Sessions and General Aspects	Sessions 1, 15, 16

The Chair will open discussion for participants' views on future directions for the CBMTS series.

CBMETS VIII Closure

- 12.15** **Dr. Marc Cadisch, Director, and Col. Richard Price, Co-Director**
The CBMETS Bell rings to conclude this 17th meeting in the CBMETS series
- 12.30 – 13.30** **Lunch**
- 13.45** **Buses leave to the hotels in Thun and Spiez**
- 18.40** **Bus leaves from the Hotel Holiday in Thun for dinner in Hotel Seegarten Spiez**
19.00 **Dinner in Hotel Seegarten Spiez**
20.30 **Bus leaves to the Hotel Holiday in Thun**

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