



Sunday, 15th June, 2003

- 16:00 – 19:00 Registration, Coffee
19:00 – 21:00 Get-together party

Monday, 16th June, 2003

- 08:00 – 08:30 Registration
08:30 – 08:40 Opening of the symposium
 – **Minister Mauri Pekkarinen**, Government of Finland
08:40 – 09:10 The speech of Academician: New trends to develop non-lethal chemical weapons
 – **Prof. Jorma K Miettinen**, Academy of Finland
09:10 – 10:00 Opening ceremony coffee

Session I. NBC-NLW hazards and terrorism

- 10:00 – 10:30 Plenary lecture – Forms and material sources of CBRN-terrorism
 – **Prof. Jiri Matousek**, Masaryk University Brno, Czech Republic
10:30 – 10:50 The terrorist dirty bomb threat
 – **Maj. Donald J Gillich**, United States Military Academy, USA
10:50 – 11:10 Non-lethal chemical weapon in Russia 2002
 – **Prof. Lev A Fedorov**, Union of Chemical Safety, Russia
11:10 – 11:30 Experiences with Anthrax threats after September 11th 2001
 – **Maj. Erwin Richter**, NBC School, Austria
11:30 – 13:00 Lunch

Session II. Protection of nuclear and chemical installations from terrorist attacks, risk assessment

- 13:00 – 13:30 Plenary lecture – Physical protection of nuclear facilities in Finland
 – **Dr Ronnie Olander**, Radiation and Nuclear Safety Authority (STUK), Finland
13:30 – 13:50 Radiation monitoring at FGUP atomflot and the Polyarninski shipyard
 – **Dr Monica Endregard**, Norwegian Defence Research Establishment, Norway
13:50 – 14:10 Modelling of consequences from accidental releases of hazardous industrial
 chemicals
 – **Otakar J Mika**, Industrial Safety Assessment Technicians Ltd, Czech Republic
14:10 – 14:30 Radiation monitoring in emergencies – strategic aspects
 – **Juhani Lahtinen**, Radiation and Nuclear Safety Authority (STUK), Finland

14:30 – 15:00	Coffee
15:00 – 15:20	Fast determination of plutonium concentration in air – Dr Teemu Siiskonen , Radiation and Nuclear Safety Authority (STUK), Finland
15:20 – 15:40	Enviscreen – emergency management system – Tommi Kainulainen , Environics Oy, Finland
15:40 – 16:00	Break
16:00 – 18:00	Poster presentation
20:00 – 23:00	Boat cruise on Lake Päijänne

Tuesday, 17th June, 2003

Session III. Crisis management under NBC threats, peace-keeping, public events, rescue services

08:30 – 09:00	Plenary lecture – Assistance and protection against CW, the first OPCW exercise on delivery of assistance – Hassan Mashadi , OPCW
09:00 – 09:20	Towards integrated NBC decision support in a crisis management network – Dr Lars Rejnus , Swedish Defence Research Agency (FOI), Sweden
09:20 – 09:40	CATSS – Chemical, Atomic and Toxic compound Surveillance System – John A Tørnes , Norwegian Defence Research Establishment (FFI), Norway
09:40 – 10:00	Real time radiation surveillance equipment for the unmanned aerial vehicle Ranger – Petri S Smolander , Radiation and Nuclear Safety Authority (STUK), Finland
10:00 – 10:30	Coffee
10:30 – 10:50	Development of vacuum-extraction based emergency response method and equipment for recovering fuel spills from underground – Dr Sakari Halmemies , Emergency Service College, Finland
10:50 – 11:10	Effects of depleted uranium ammunition on target and environment – Markku Kettunen , Defence Forces Technical Research Centre (PvTT), Finland
11:10 – 11:30	Chemical aspects of the winter war – Prof. Lev A Fedorov , Union of Chemical Safety, Russia
11:30 – 13:00	Lunch

Session IV. NBC-protection and decontamination

13:00 – 13:30	Plenary lecture – Measurement of realistic field protection research – Dr Olaf Kievit , TNO Prins Mauritz Laboratory, The Netherlands
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- 13:30 – 14:00 New trends in the development of means for skin protection
– **Prof. Jiri Matousek**, Masarak University Brno, Czech Republic
- New generations of the Czechoslovak/Czech protective masks for armed forces and civil population
– **Prof. Jiri Matousek**, Masarak University Brno, Czech Republic
- 14:00 – 14:20 Thermophysiological limits of wearing NBC protective clothing during cold weather
– **Dr Sirkka Rissanen**, Oulu Regional Institute of Occupational Health, Finland
- 14:20 – 15:00 Coffee
- 15:00 – 15:20 Live agent decontamination field trials with HD, THD, VX, GD and TGD: comparison of three chemicals on seven materials
– **Dr Walter P Aue**, Spiez Laboratory, Switzerland
- 15:20 – 15:40 Some modern problems at destruction of chemical weapons in Russia
– **Dr Vadim Petrov**, The Institute of the Applied Mechanics UB RAS, Russia
- 15:40 – 16:00 Radiosensitivity of bioterrorism agents
– **Dr L G Gzásó**, National Centre for Public Health, Hungary
- 16:00 – 16:20 New generation and a highly effective and bio-degradable non-aqueous decon solution
– **Hans-Joachim Tøpfer**, Alfred Kärcher GmbH & Co, Germany
- 16:20 – 16:40 Large scale field tests on decontamination efficiency of emulsion E-2000 in winter conditions when using CW simulants as contaminants
– **Heikki Seulanto**, Defence Forces Technical Research Centre (PvTT), Finland
- 17:00 – 18:00 - Demonstration: NBC-group in action – Finnish NBC Defence School, Finland
- Additional equipment exhibition
- 20:00 – 23:00 Symposium dinner

Wednesday, 18th June, 2003

Session V: Combined detection, analysis and protection technologies

- 08:30 – 09:00 Plenary lecture – Microbe detection: focus on the early phases of recognition process
– **Dr Elias Hakalehto**, Finnoflag Oy, Finland
- 09:00 – 09:20 Specific detection of individual biological warfare agent particles in seconds
– **Dr Olaf Kievit**, TNO Prins Mauritz Laboratory, The Netherlands
- 09:20 – 09:40 Field detection of toxins and bacteria using mass spectrometry
– **Dr C Beaugrand**, MGP Instruments, France

- 09:40 – 10:00 Coffee
- 10:00 – 10:20 PY-MAB-TOF rapid identification of chemical and biological agents
– **Dr Simon Letarte**, DEPHY Technologies, Canada
- 10:20 – 10:40 APSIS the bio-identification system
– **Dr Norbert Klöpper**, Bruker Daltonik GmbH, Germany
- 10:40 – 11:00 Maximum information and utility from NBC detection systems
– **Dr Reiner Spudich**, Bruker Daltonics, Germany, and **Tim Otter**, Smiths Detection, United Kingdom
- 11:00 – 11:20 An integrated approach to NBC point detection – NBCerberus
– **Paul Taylor** and **Tim Otter**, Smiths Detection, United Kingdom
- 11:20 – 12:30 Lunch

Session VI. Medical response to NBC threats

- 12:30 – 13:00 Plenary Lecture – Preparedness for the next influenza pandemic and epidemics like SARS in Finland
– **Prof. Tapani Hovi**, National Public Health Institute, Finland
- 13:00 – 13:20 Soman-induced seizures in rats: possible treatment and prophylaxis
– **Prof. Pål Aas**, Norwegian Defence Research Establishment (FFI), Norway
- 13:20 – 13:40 Microarray analysis of human brain cell lines following exposure to a chemical agent soman
– **Prof.(Dr) Ponnampalam Gopalakrishnakone**, Singapore
- 13:40 – 14:00 Structure and efficiency of carbamates as drugs for prophylaxis against OP poisoning
– **Prof. Valerii Tonkopii**, Russian Academy of Science, Russia
- 14:00 – 14:20 Q fever monitoring in North-Western area of European part of the Russian Federation
– **Prof. Nikolai Tokarevich**, St Petersburg Pasteur Institute, Russia
- 14:20 – 14:40 Evaluation of accumulated dangerous doses of micro-organisms in human respiratory organs
– **Prof. Eugene V Vorobeychikov**, State Research Center of Highly Pure Biopreparations, Russia
- 14:40 – 15:00 Preparedness needed to isolate suspected severe infection patients during transportation
– **Prof. Osmo Hänninen**, University of Kuopio, Finland
- 15:00 Closing of the Symposium