



2nd International Conference on CBRN Protection

HAZMAT PROTECT 2016

SÚJCHBO, Kamenná, Czech Republic

9. – 11. November 2016

PROGRAMME

9. 11.

10.30 – 11.00

Conference Opening

Ing. Jiří Slabotinský, CSc., MUDr. Stanislav Brádka, Ph. D. – SÚJCHBO, v. v. i.
brig. gen. Ing. Miloš Svoboda, General Directory of Fire Rescue Service of Czech Republic

11.00 – 12.30

Introduction Presentations

European CBRN Action Plan Implementation – Operational and Technological Challenges

Ing. Pavel Častulík, Ph. D. – RECETOX, Masaryk University Brno, CBRNE consultant
How the IFREACT Project Contributes to FR Safety and Efficiency in Performing their Tasks in a CBRNE Environment

Dr. Catherine Bertrand – SAMU, France

12.30 – 13.30

Lunch

13.30 – 14.30

Plenary Speakers

Development of Novel Acetylcholinesterase Reactivators – Antidotes Against Nerve Agents

prof. Ing. Kamil Kuča, Ph. D. – University of Hradec Králové

Some New Kinds of Reactive Sorbents for Destruction of Highly Toxic Chemical Substances

prof. Ing. Pavel Janoš, CSc., University of J. E. Purkyně, Ústí nad Labem

14.30 – 15.00

Coffee Break

15.00 – 16.15

Detection and Identification

Possibilities to Apply Chemical Detector Systems for Unmanned Aerial Vehicles

Ing. Jiří Kadlčák – Military Research Institute, Brno

Detection of Toxic Aerosols by use of Passive Detection Papers

Mgr. Michal Dymák, SÚJCHBO, v. v. i.

Possibilities of Rapid Confirmation of BWA Absence, their Detection and Identification

Mgr. Oldřich Kubíček, CSc., SÚJCHBO, v. v. i.

Company presentations – ORITEST, B.O.I.S. FILTRY, RMI

Discussion

16.15 – 16.30

Coffee Break

16.30 – 18.00

Exhibition and Poster Session

19.00 – 22.00

Conference Dinner



PROGRAMME

10. 11.

9.00 – 10.30

Decontamination

Evaluation and Use of Different Sorbents for Decontamination of CWA

Ing. Jiří Pavlovský, Ph. D., VŠB – Technical University of Ostrava

Determination of CWA Residues after Decontamination of Solid Materials

Ing. Tomáš Dropa – SÚJCHBO, v. v. i.

Issues of Decontamination and Surface Protection against Radioactive Contamination

Ing. Josef Holeček – SÚJCHBO, v. v. i.

Peroxide Decontamination Mixture

Ing. Marek Andrlle, Ph.D. – Military Research Institute, Brno

Current state-of-the-art decontamination and future PERSPECTIVES on selective decontamination strategies

Klára Kubelková, MSc., Ph.D. – University of Defence, Hradec Králové

Company presentations – Dekonta

Discussion

10.30 – 11.00

Coffee Break

9.30 – 10.30

Excursion – selected departments of SÚJCHBO, group 1

11.00 – 12.30

New Materials

Nanofibrous Composite Materials Integrating Nano/Micro Particles between the Fibres

Ing. Jiří Chvojka, Ph. D. – Technical University of Liberec

Interaction between CWA Simulants and Matrixes based on Clay Materials

doc. Ing. Daniela Plachá, Ph. D. – VŠB – Technical University of Ostrava

Sublimation Deposition of Sorption Nanostructures on Fibres and Fabrics

doc. RNDr. Richard Dvorský, Ph. D., VŠB – Technical University of Ostrava

The Incorporation of Heavy Metal Oxides into Polymer Nanofibers

Ing. Stanislav Nevyhoštěný – Technical University of Liberec

Company presentations – GRYF

Discussion

12.30 – 13.30

Lunch



PROGRAMME

10. 11.

13.30 – 15.00

Testing of Protective Materials

MINITEST – The Device for Determination of Toxic Gases and Liquids Permeation through Fabric Barrier Materials

doc. Ing. Pavel Otřísal, Ph. D., MBA – NBC Defence Institute, University of Defence, Vyškov

SORPTEST – Mobile Device for Testing Resistivity of Porous and Non-porous Barrier Materials Against Volatile Toxic Compounds Permeation

RNDr. Vladimír Obšel, CSc., DEZA – Detekce a záchyt škodlivin, Brno

Determination of Protection Efficiency of Barrier Materials using CWA Simulants

Mgr. Jakub Vaněk, Ph. D. – SÚJCHBO, v. v. i.

Influence of Powder Sorbents on Membrane Resistency against Soman Permeation

Ing. Iva Vošahlíková – SÚJCHBO, v. v. i.

Discussion

15.00 – 15.30

Coffee Break

15.30 – 16.30

Excursion – selected departments of SÚJCHBO, group 1

15.30 – 16.45

Testing of Protective Means

Influence of Protective Means on Users

Ing. Šárka Bernatíková, Ph. D., VŠB – Technical University of Ostrava

Thermal Manikin – Utilisation in Protective Equipment Testing

Ing. Miloš Fojtlín, Brno University of Technology

Estimation of Gloves Thermal Resistances by means of Thermal Manikin

Ing. Jan Fišer, Ph. D., Brno University of Technology

Cooling Vests – Means for Improving the Heat Comfort of PPE Users

Ing. Jiří Slabotinský, CSc., SÚJCHBO, v. v. i.

Discussion

16.45 – 17.00

Coffee Break

17.00 – 18.30

Exhibition and Poster Session

19.30 – 22.00

Conference Evening Reception (in Hotel u Milína)

Optional programme for 10. 11. afternoon – trip to The Antonín Dvořák Memorial at Vysoká u Příbrami



PROGRAMME

11. 11.

9.00 – 10.30

Hot News in PPEs

Chemical Protective Suits – Improved Procedure of Donning and Doffing Based on Practical Exercise Experience of DEKONTA and FRS

Ing. Lukáš Groulík – DEKONTA a. s.

Evacuation Means for Children

Ing. Zdeněk Cáb – Educational and Training Center of FRS CR, Frýdek-Místek

Smart Firefighter Personal Protective Suit

Ing. Radek Soukup, Ph. D. – University of West Bohemia, Pilsen

Possibilities of Using a Surveillance System in Solving Emergency Events

Ing. Martin Staněk – Czech Technical University in Prague

PhaseCore – A Systematic Approach to Personal Cooling Utilizing a Combination of New Age Fabrics and Phase Change Material

Randy Sakowitz, First Line Technology, USA

Discussion

10.30 – 11.00

Coffee Break

11.00 – 12.00

Prevention of CBRN Risks and Civilian Protection

Air Quality at Pedestrian Zone: the Role of Urban Array Three-Dimensionality

Ing. Štěpán Nosek, Ph.D. – The Czech Academy of Science, Prague

Study of Dissemination of Chemical Agents by Means of Improvised Explosive Device

Ing. Jiří Slabotinský – SÚJCHBO, v. v. i.

Challenges of Explosive Ordnance Disposal Services for Mitigation of CBRN Improvised Devices

Ing. Pavel Častulík, Ph. D. – RECETOX, Masaryk University Brno, CBRNE consultant

12.00 – 12.15

Conference Closing

12.20 – 13.30

Lunch



POSTERS

Graphen-oxide and Biochar Interconnection

Mgr. Eliška Brabencová et al. – SÚJCHBO, v. v. i.

Simulation of Field Samples and their Influence on Detection Robustness using RT-qPCR

Mgr. Martina Grochová et al. – SÚJCHBO, v. v. i.

New Personal Protective Equipment Intended for Residents of the Czech Republic

Ing. Čestmír Hylák et al. – MV-GŘ HZS ČR, IOO Lázně Bohdaneč

Protective Suit for members of the Integrated Rescue System

Ing. Čestmír Hylák et al. – MV-GŘ HZS ČR, IOO Lázně Bohdaneč

Degradation of Nerve Agents Using Biogold Nanoparticles

Ing. Gabriela Kratošová, Ph. D. et al. – VŠB – Technical University of Ostrava

Biosynthesized Metallic Nanoparticles: an Electron Microscopy Study

Ing. Gabriela Kratošová, Ph. D. et al. – VŠB – Technical University of Ostrava

Development of Decontamination Strategies Based on the Knowledge of Host-Pathogen Interactions

RNDr. Klára Kubelková, Ph. D. et al. – University of Defence, Hradec Králové

SORPTEST – Mobile Device for Testing Resistance of Porous and Non-porous Barrier Materials Against Volatile Toxic Compounds Permeation

RNDr. Vladimír Obšel, CSc. et al. – DEZA – Detekce a záchyt škodlivin, Brno

Microsynthesis and Analytical Data for Central Analytical Database of OPCW 1993-2016

RNDr. Vladimír Podborský, Military Research Institute, Brno

Low-temperature plasma generated at atmospheric pressure and its application for decontamination of gases, solids, powders and liquids

doc. Mgr. Pavel Šťáhel et al., Masaryk University, Brno, Czech Republic



PARTNEŘI/PARTNERS

