

Monday, May 29th

12h30 – 13h00 INTRO-01 *Introduction by the French state representatives on protection & security*

Historical & legal aspects

13h00 – 13h30 INTRO-02 *Olivier LION - CBRNE Historical retrospective*

13h30 – 14h00 INTRO-03 *Jean-Louis BRUGUIERE - Legal aspects*

Threats

14h00 – 14h20 INTRO-04 *Alan GRIMMER (Interpol) - C & B Threats*

14h20 – 14h40 INTRO-05 *Sylvain BARROT (French Police Central Laboratory, LCPP)*

14h40 – 15h00 INTRO-06 *Hervé DUPONT (French MoD, DGA-MNRBC)*

15h00 – 15h30 Coffee break, poster session, industrials & responders exhibition

Responses to CBRNE crisis

15h30 – 15h50 INTRO-07 *Lionel LACHENAUD (French General Secretary for Defense and national security, SGDSN)*

15h50 – 16h10 INTRO-08 *Fabrice JEAN (French General Directorate for civil protection and crisis management)*

16h10 – 16h30 INTRO-09 *Christophe LIBEAU (Paris Fire Brigade), CBRNE risks management*

16h30 – 16h50 INTRO-10 *Adrien SIVIGNON (French General Police Directorate), CBRNE risks management: forensic investigations in a contaminated environment*

16h50 -17h10 Coffee break, poster session, industrials & responders exhibition

Technological Challenges

17h10 – 17h25 INTRO-11 *Yannick MOREL (French MoD, DGA) - CBRNE defense: technological challenges*

17h25 – 17h40 INTRO-12 *Christophe BOSSUET (French CEA) - French joint ministerial CBRN-E research and development program*

Economical issue

17h40 – 18h00 INTRO-13 *Mark Lawrence JOHNSON - Risk-Informed Demand for CBRN Medical Countermeasures*

Industrial responses

18h00 – 18h20 INTRO-14 *Invited Industrial speaker*

18h20 – 18h40 INTRO-15 *Invited Industrial speaker*

18h40 – 19h00 INTRO-16 *Invited Industrial speaker*

Cocktail

Tuesday, May 30th

MEDICAL COUNTERMEASURES – 1 – Session part of the NATO-supported Advanced Research Workshop on “CBRN Exposure Assessment and Medical Countermeasures”

- 08h00 – 08h35 [MCM/ARW-01](#) *Michael ABEND* - Establishing gene expression for prediction of the hematological acute radiation syndrome - Plenary
- 08h35 – 09h00 [MCM/ARW -02](#) *Peter BLAIN* - Incapacitating Chemical Agents and other Less-lethal Technologies - Key Note
- 09h00 – 09h25 [MCM/ARW-03](#) *Marti JETT* - Integration of systemic host responses to a lethal exposure with *Y. pestis* – Key note
- 09h25 – 09h40 [MCM/ARW-04](#) *Thomas HENRY* - Challenges in antimicrobial research: the example of the class A bioterrorism agent *Francisella tularensis*
- 09h40 – 09h55 [MCM/ARW-05](#) *Anissa BRAJIKI* - Tertiary amine-3-hydropyridine aldoxime conjugates as efficient uncharged reactivators for acetylcholinesterase inhibited by organophosphorus nerve agents
- 09h55 – 10h10 [MCM/ARW-06](#) *Amélie ZAZA* - Development of bivalent vaccine candidates based on Z-deleted arenaviruses

10h10 – 10h40 Coffee break, poster session, industrials & responders exhibition

DECONTAMINATION – Human – Session part of the NATO-supported Advanced Research Workshop on “CBRN Exposure Assessment and Medical Countermeasures”

- 10h40 – 11h15 [DEC/ARW-01](#) *Robert P. CHILCOTT* - Project GO-AHEAD: guidance on all-hazards enhanced action decontamination - Plenary
- 11h15 – 11h40 [DEC/ARW-02](#) *Howard MAIBACH* - Mechanisms of skin decontamination - Key Note
- 11h40 – 12h05 [DEC/ARW-03](#) *Jean-Ulrich MULLOT* - Evaluating performances of materials and procedures by using CWA simulants - Key Note
- 12h05 – 12h20 [DEC/ARW-04](#) *Stacey WYKE* - Optimising existing and novel decontamination techniques for hair and skin (PHOENIX project)
- 12h20 – 12h35 [DEC/ARW-05](#) *Alicia SALERNO* - Model-based optimization of parameters for degradation reaction of an organophosphorus pesticide, Paraoxon, using CeO₂ nanoparticles in water media

End of the NATO-supported ARW session

- 12h35 – 12h50 [DEC-06](#) *Boban CEKOVIC* - DECPOL® (new emergency decontamination mitt) Decontamination and neutralization performance overview on real agents
- 12h50 – 13h05 [DEC-07](#) *Navneet SHARMA* - Topical Formulation for Radiological and Nuclear decontamination

13h05 – 14h30 Lunch, poster session, industrials & responders exhibition
Philippe QUEVAUVILLER - Workshop on EU-Research on CBRN-E – How to ensure efficient science-policy-practitioners interactions in support of knowledge-based decisions?

DETECTION – Alert – Session part of the NATO-supported Advanced Research Workshop on “CBRN Exposure Assessment and Medical Countermeasures”

- 14h30 – 14h55 [DET/ARW-01](#) *Fabiana ARDUINI* - Paper-based devices for the detection of chemical warfare agents - Key Note
- 14h55 – 15h10 [DET/ARW-02](#) *Stéphanie SIMON* - Activities of the Laboratory for Immunoanalytical Researches in the french CBRNe program
- 15h10 – 15h25 [DET/ARW-03](#) *Véronique REBUFFEL* - A single-cell Raman Spectroscopy device dedicated to fast and robust pathogen threat detection during in the field interventions
- 15h25 – 15h40 [DET/ARW-04](#) *Guillaume SANNIE* - The H2020 C-BORD project: advanced non-destructive techniques to improve control of cargo containers
- 15h40 – 15h55 [DET/ARW-05](#) *Emmanuel EGGER* - A vehicle for detection of neutron and gamma ray sources
- 15h55 – 16h10 [DET/ARW-06](#) *Romain VEROLLET* - Detecting Unknown Chemical Gas Clouds at Distance with Multispectral Imagery
- 16h10 – 16h25 [DET/ARW-07](#) *Guillaume MONTEMONT* - NuVision: a portable spectrometric imaging device for searching and identifying radioactive sources

16h25 – 17h00 Coffee break, poster session, industrials & responders exhibition

RISKS MANAGEMENT

- 17h00 – 17h25 [RM-01](#) *Kai KEHE* - CBRN Medical Defence in Germany: new Challenges - Key Note
- 17h25 – 17h50 [RM-02](#) *Richard AMLÔT* - Psychological First Aid: mitigating against long-term psychosocial effects of CBRNe incidents - Key Note
- 17h50 – 18h05 [RM-03](#) *Rebecca HOILE* - Bioterrorism Preparedness- ‘Don’t Sweat the Small Stuff’
- 18h05 – 18h20 [RM-04](#) *Emma-Jane GOODE* - Project 54: enhancing the systems in place in the MIE region (Iraq, Jordan, Lebanon) for medical preparedness and medical emergency response to CBRN incidents
- 18h20 – 18h35 [RM-05](#) *Sébastien BEAUME* - Management of the initial response against CBRN threats in an Emergency Medical Fire Department

20h30 Gala evening and dinner

Wednesday, May 31st

DETECTION – Identification – Session part of the NATO-supported Advanced Research Workshop on “CBRN Exposure Assessment and Medical Countermeasures”

- 08h00 – 08h25 [DET/ARW-08](#) *Dan NOORT* - Development of methods for assessment of chemical exposures within the framework of the Generic Integrated Forensic Toolbox (GIFT) project - Key Note
- 08h25 – 08h50 [DET/ARW-09](#) *Håkan WINGFORS* - Exposure assessments of air pollutants in the occupational environment of deployed soldiers - Key Note
- 08h50 – 09h05 [DET/ARW-10](#) *Ladislava NAVRATILOVA* - Methodology for on site identification of solid and liquid chemicals
- 09h05 – 09h20 [DET/ARW-11](#) *Julie BENSIMON-ETZOL* - DosiKit, a new portable assay for fast external irradiation biodosimetry
- 09h20 – 09h35 [DET/ARW-12](#) *Céline BIGOT* - High-throughput DNA sequencing and bioinformatics for the detection and identification of pathogenic organisms in complex mixtures
- 09h35 – 09h50 [DET/ARW-13](#) *Conrad WEICHBRODT* - Next level toxicity screening: from single channel to overall cell behavior
- 09h50 – 10h05 [DET/ARW-14](#) *Vincenzo MAZZARACCHIO* - An impedimetric aptasensor for the detection of Bacillus anthracis spores
- 10h05 – 10h20 [DET/ARW-15](#) *Jesús ZUECO CRUZ* - Development of reagents for the detection of spores of Bacillus thuringiensis var. kurstaki. A comparison between latex slide agglutination, slide co-agglutination and ELISA

10h20 – 10h50 Coffee break, poster session, industrials & responders exhibition

PROTECTION - Depollution

- 10h50 – 11h15 [PRO-01](#) *Masaru WATANABE* - Production of flexible carbon in hydrothermal condition: functionalized carbon for applications in radioactive cleanup prepared with hydrothermal treatment of lignocellulose - Key Note
- 11h15 – 11h30 [PRO-02](#) *Pauline JACQUET* - Improvement of hyperthermostable enzyme for external decontamination of organophosphorus chemicals
- 11h30 – 11h45 [PRO-03](#) *Thomas HOFMANN* - Interactions, dynamics and removal of caesium from building materials: dirty bomb & decontamination
- 11h45 – 12h00 [PRO-04](#) *Esther LE TOQUIN* - New sporicidal form for biological decontamination of facilities
- 12h00 – 12h15 [PRO-05](#) *Pauline BARROIS* - Toward smart textile: new coatings for photocatalytic decontamination

12h15 – 12h30 [PRO-06](#) Marie VANDESTEENE - Smart technical textiles for decontamination of chemical warfare agents

12h30 – 12h45 [PRO-07](#) Mark BARRETT - Experimental derivation of chemical evaporation rates from unclothed and clothed sebum-coated discs under various exposure conditions

12h45 – 14h15 *Lunch, poster session, industrials & responders exhibition*

MEDICAL COUNTERMEASURES – 2 – Session part of the NATO-supported Advanced Research Workshop on “CBRN Exposure Assessment and Medical Countermeasures”

14h15 – 14h50 [MCM/ARW-07](#) Frédéric DORANDEU - 100-Years Anniversary of Sulfur Mustard Military Grand Debut – Has Research Improved Medical Management of Casualties? - Plenary

14h50 – 15h25 [MCM/ARW-08](#) Sina BAVARI - Ebola virus disease: implications and treatments - Plenary

15h25 – 15h50 [MCM/ARW-09](#) Jean-Nicolas TOURNIER - Medical counter-measure at the age of bioterror: from anthrax model to emerging diseases - Key Note

15h50 – 16h15 [MCM/ARW-10](#) John MIKLER - Efficacy of scopolamine and epinephrine in simulating respiration following soman exposure - Key Note

16h15 – 16h30 [MCM/ARW-11](#) Diane RICCOBONO - Cell therapy for skin and muscles damages in cutaneous radiation syndrome: overview of present and future strategies

16h30 – 16h45 [MCM/ARW-12](#) Jiri KASSA - The influence of modulators of acetylcholinesterase on the resistance of mice against soman and on the efficacy of antidotal treatment of soman poisoning in mice

16h45 – 17h00 [MCM/ARW-13](#) Benjamin BACCUS - Acute organophosphorus pesticide poisoning: a paraoxon-ethyl model in mice.

17h00 – 17h15 [MCM/ARW-14](#) Marlos JOOSEN - Application of intraosseus countermeasure administration in a guinea pig model

17h15 – 17h30 [MCM/ARW-15](#) Nicolas BAILLET - Study of the early pathogenic events during Lassa fever in cynomolgus monkeys and its correlation with the outcome

17h30 *Industrials session & show room - aperitif*

Thursday, June 1st

MEDICAL COUNTERMEASURES – 3

- 08h10 – 08h35 [MCM-16](#) *Felicia PRADERA* - The Australian government medical countermeasures initiatives - Key Note
- 08h35 – 09h00 [MCM-17](#) *Michel DROUET* - New paradigms of the treatment of Acute Radiation Syndrome - Key Note
- 09h00 – 09h15 [MCM-18](#) *Alain CHAPEL* - Generation of hematopoietic stem cells from non-hematopoietic iPS in patients with acute irradiation syndrome an innovative therapeutic strategy of hematopoietic syndrome
- 09h15 – 09h30 [MCM-19](#) *Jérôme GABARD* - Phage therapy to treat respiratory tract infection
- 09h30 – 09h45 [MCM-20](#) *Arnaud AVRIL* - Strategy for the development of recombinant human-like antibodies against rare diseases for biodefense

09h45 – 10h15 Coffee break, poster session, industrials & responders exhibition

DETECTION – Post-crisis analysis and forensics

- 10h15 – 10h50 [DET-16](#) *Steven SCHUTZER* - Microbial Forensics - Plenary
- 10h50 – 11h15 [DET-17](#) *Jean ARMENGAUD* - Return of experience for Phylopeptidomics: from biotox-piratox national network exercises to microbiota feces - Key Note
- 11h15 – 11h30 [DET-18](#) *Marco VALENTE* - Radiation exposure biomarkers: results and perspectives of the French Armed Forces Biological Dosimetry Laboratory
- 11h30 – 11h45 [DET-19](#) *Olivier GORGE* - Pathogenic bacteria DNA's half-life in environment: a mouse study
- 11h45 – 12h00 [DET-20](#) *Robert diTARGIANI* - Developing an Automated Method for the Verification of Human Exposure to the Chemical Warfare Agents

12h00 – 13h30 Lunch, poster session, industrials & responders exhibition
Roberto MUGAVERO and Frédéric DORANDEU, Workshop on education & training

DETECTION – Explosives

- 13h30 – 14h05 [DET-21](#) *Jimmie OXLEY* - Issues with Analysis of Homemade Explosives - Plenary
- 14h05 – 14h30 [DET-22](#) *Pierre CHARRUE* - STANDEX: an innovative concept of real time checking and detection system developed in the frame of NATO/SPS program – Key Note
- 14h30 – 14h45 [DET-23](#) *Joachim TABARY* - Baggage imaging system by x-ray diffraction combining opened collimations with spatially- and energy-resolved CdZnTe detectors
- 14h45 – 15h00 [DET-24](#) *Didier POULLAIN* - New developments for explosives detection at CEA: answering to field needs

15h00 – 15h15 [DET-25](#) *Céline FRENOIS* - Vapor explosives detector: from multi-sensor prototype development to an industrial device

15h15 – 15h45 *Coffee break*

MEDICAL COUNTERMEASURES – 4

15h45 – 16h20 [MCM-21](#) *Lucille LUMLEY* - Efficacious treatment of soman-induced status epilepticus with synergistic drug combinations - Plenary

16h20 – 16h35 [MCM-22](#) *Elizabeth POSILLICO* - Development of Obiltoxaximab for Prophylaxis and Treatment of Inhalational Anthrax

16h35 – 16h50 [MCM-23](#) *Kelly BASI* - Dimethyl trisulfide (DMTS) is an effective treatment in an inhalation model for cyanide poisoning using unanesthetized mice

16h50 – 17h05 [MCM-24](#) *Julia HERBERT* - Precision cut lung slices as test system for candidate therapeutics in organophosphate poisoning

17h05 – 17h20 [MCM-25](#) *Michel POPOFF* - Atypical outbreaks of *Clostridium baratii* botulism in France and antibiotic resistance in *Clostridium botulinum*

17h20 – 17h35 [MCM-26](#) *Fabrice BIOT* - The Diagnosis of Melioidosis Outside Endemic Areas: a French Experience

17h35 – 17h50 [MCM-27](#) *Matthias PORT* - Prediction and medical management of acute radiation syndrome using clinical signs and symptoms - from statistical tool development to training of first responders

End of the conference - Conclusions

