Monday, March 16, 2015

14.00 – 15.00: Welcome and Registration

15.00 – 18.30: Updates on first responders’ needs, responses to current CBRN crisis, R&I projects (supported by EC, NATO, MoD, Home Office, Fire and Rescue Services, Health Services, Research Institutions...)

- NATO/STO representative
- OPCW representative
- M. Bosco (EC-DG Enterprise and Industry)
  "Which European research for the coming years and for which CBRN-E users?"
- G. Winfield and A. Johnston (CBRNe world magazine)
  "Generic Integrated Forensic Toolbox for CBRN incident – GIFT"
- R. Munro (VectorCommand)
  "CBRN crisis management: Architecture, Technologies and Operational Procedures (CATO)"
- E. Pautasso (Scuola Superiore Sant’Anna, Pisa, Italy)
  "A pilot project to strengthen the cooperation between first responders and law enforcement agents in responding to CBRN events: outcomes and opportunities of collaboration"
- R. Orford (PHE, UK)
  "European Chemical Emergency Network (ECHEMNET) – Preparing, assessing and responding to cross border chemical health threats"
- C. Bossuet (CEA)
  "French trans-governmental CBRN-E R&D program"
- Colonel V. Pech de Laclause (French Armed Forces Staff)
- A. Gauci (Direction Générale de l’Armement (DGA))
- Lieutenant-Colonel F. Jean (French Civilian Security)
  "The French Civilian Security: current approach and future developments to face CBRN risks"
- Colonel E. Faure (or representative) (French Federation of Fire and Rescue Services)
  "FRS responses to CBRN crisis: a review of needs and applied research projects"
- H. Maibach (Univ. of California, San Francisco)
  "Mechanisms of why skin decontamination has been problematic"

18.30 - 20.00 Cheese and Wine

20.00 – 22.00: Industrials show room

Animated by the French Regional Cluster for innovation (PRIDES) (J-M. Dumaz)
Tuesday, March 17, 2015

08.00 – 10.30 Medical Countermeasures (part 1)
  • F. Dorandeu, Armed Forces Biomedical Research Institute, France (PL)  
  “Medical countermeasures against CBRN threats: challenges for the future”
  • F. R. Abergel, L. Berckley National Laboratory, USA (KN)  
  "Development of New Therapeutics for Radionuclide Decoration: From Discovery to IND"
  • H. Thiermann, Munich University, Germany (KN)  
  "New Approaches in Therapy of Nerve Agent Poisoning"
  • C. Montecucco, Padoue University, Italia (KN)  
  "Novel and safe inhibitors of botulism"
  • A. Avril, Armed Forces Biomedical Research Institute, France  
  “Isolation of hyper-humanized antibodies cross-neutralizing botulinum neurotoxin A1 and A2 by targeting their heavy chain”
  • P. Aas, Norwegian Defence Research Establishment (FFI), Norway  
  “Two medical therapies very effective shortly after exposure to high doses of soman poisoning in rats”

10.30 - 11.00 - Coffee break

11.00 – 12.50 Medical Countermeasures (part 2)
  • E. Carniel, Pasteur Institute, France (KN)  
  "A new and promising vaccine against plague"
  • D. Gillet, CEA, France (KN)  
  "Broad-Spectrum Compounds Active Against Toxins, Viruses and Parasites"
  • J. Ma, St George’s University of London, UK (KN)  
  • F. Nachon, Armed Forces Biomedical Research Institute, France  
  “Development of new cholinesterase reactivators”
  • C. Li, Health Canada, Canada  
  "Managing Internal Radiation Contamination Following a Radiological or Nuclear Emergency: A Summary of Recent Work”

12.50 – 14.10 Lunch – Poster session

14.10 – 16.00 Detection and biomarkers (part 1)
  • M. van der Schans, TNO, The Netherlands (KN)  
  “Verification of exposure to Chemical Warfare Agents and Pesticides: Analysis of protein adducts”
  • R. Grunow, Robert Koch Institute, Germany (KN)  
  • L. Sabatier, CEA, France  
  “New tools for biological dosimetry: detection of dicentric chromosomes allows to reevaluate the dose effect relationship and to develop automatization”
  • J. Armengaud, CEA, France  
  “Phylopeptidomics”, assessing without any a priori the content of any sample in terms of biological agents and biothreats
  • L. Bellanger, CEA, France  
  “Ebola eZYSCREEN®: a rapid diagnostic test for Ebola that takes fifteen minutes”

16.00 – 16.30 Coffee break

16.30 – 18.00 Environmental detection (part 2)
  • G. Lloyd, UK (KN)  
  • D. Pignol, CEA, France (KN)  
  “In-line multiplexed biosensing of toxic compounds in waters”
  • M.W. Calfee, US Environmental Protection Agency, USA  
  “EPA’s Research to Enhance Environmental Sampling following Biological Terror Incidents”
  • T. Elländer, Bruker Daltonik GmbH, Germany  
  “On-site multiplex detection of category A and B biothreat agents”

  • Special guest: B. Baertschi, Geneva Univ, Switzerland  
  “Bioterrorism & ethics”

Poster Session - Gala evening and dinner
Wednesday, March 18, 2015

08.00 – 10.00 Detection (part 3)

- C. Pijolat, MINES, France (KN)
  “Silicon micro-preconcentration device for the detection of explosive traces”
- D. Spitzer, NS3E - ISL, France (KN)
  “Synthesis of nanostructured vertically aligned titanium dioxide and copper oxide nanotubes on sensing cantilevers”
- J.A. Tørnes, Norwegian Defence Establishment, Norway
  “Connecting the Lightweight Chemical Detector to a headspace sampler for field detection of chemical warfare agents”
- F. Arduini, DSTC, Italy
  “Miniaturised printed biosensors for chemical warfare agents”
- K. Bizet, Bertin Technologies, France
  “CORIOLIS and KIM : Suitable devices for air sampling and on field biological detection”
- M. Schatzmann, University of Hamburg, Germany
  “CT-Analyst – Fast and Accurate CBR Emergency Assessment”

10.00 - 10.30 - Coffee break

10.30 – 12.45 Protection & Decontamination (part 1)

- R. Chilcott, Hertfordshire University, UK (PL)
  “History of Decontamination Research”
- S. Cibulsky, HHS, USA (KN)
  “Evidence-based principles of mass patient decontamination”
- K. Takeshita, Tokyo Institute of Technology, Japan (KN)
  “Restoration technologies of water contaminated by radioactive elements released from Fukushima Dai-Ichi NPP”
- T. Pottage, PHE, UK
  “Returning to Normality. The UK Recovery Handbook for Biological Incidents”
- C. Bertrand, HMN-APHP, France
  “CBRN Personal Protective Equipment for civilian first responders: the IFREACT EC-supported project.”

12.45 – 14.00 Lunch – Poster session & poster prize

14.00 – 16.30 Protection & Decontamination (part 2)

- H. Garcia, Valence University, Spain, (KN)
  “Novel photocatalyst for chemical detoxification of surfaces and water with solar light”
- S. Sarrade, CEA, France
  “Supercritical CO2 decontamination processes for CBRN applications: an alternative to liquid treatments”
- Y Hakuta, Natl Inst Ind Sci & Technol, Tsukuba, Japan
  “Removal of radioactive Cs137 ions from contaminated waste using Prussian Blue nano particles”
- V Keller, ICPEES, CNRS-Strasbourg University, France
  “Photocatalytic self-decontaminating functionalized textiles towards chemical and biological agents”
- A Louvet, DGA-MNRBC, France
  “Comparison of CBRN tests results”
- H. Matar, Hertfordshire University, UK
  “Design and characterisation of a novel in vitro skin diffusion cell system for assessing mass casualty decontamination systems”
- L. Cochrane, Emergent Product Development, UK
  “Novel comparative research on skin decontaminants”

16.30 – 17.00 Coffee break

17.00 – 18.00 Round tables sessions

18.00 – 19.00 Conclusions

End of the Conference