



2nd Annual CBRNe World Conference and Exhibition

27-30 October 2009
World Forum Centre
The Hague, Netherlands

Growing closer, staying distinct: merging civilian and military response to CBRN and IED threats

AN INTERNATIONAL LINE-UP OF SPEAKERS INCLUDES:

- ◆ Rogelio Pfirter, Director General, OPCW
- ◆ Lt. Col. Kees Bourgondien, Commander, Joint NBC Centre of Expertise, Netherlands
- ◆ Colonel Rick Barker, Director of CBRN Defence Development, Department of National Defence, Canada
- ◆ Kim Aytote, Special Operations Chief, Ottawa Fire, Canada
- ◆ Paul Benda Director, CBRNE Directorate, Pentagon Force Protection Agency, USA
- ◆ Dr Syed Raza, Joint Director, Defence Research and Development Establishment, India
- ◆ Lt. Col. Xavier Lefebvre, Commanding Officer, 2nd Dragon Regiment, France
- ◆ Dr Peer Rechenbach, Head of State Department of Civil Protection, Germany
- ◆ Dr Walter Aue, Federal Office for Civil Protection, Switzerland
- ◆ Arwin van de Zande, Hazmat Office, Hague and District Fire, Netherlands
- ◆ Dr Meir Oren, Director General, Hillel Yaffa Medical Centre, Israel
- ◆ Charlene Jensen, Director of CARA, 20th Support Command, USA
- ◆ Krzysztof Paturej, Director Office of Special Projects, OPCW
- ◆ Lt. Col. Schifff, Deputy Director Combat Development, Bundeswehr, Germany
- ◆ Simon Van Orden & Jason Ashwood, Metropolitan Police, London, UK
- ◆ Sander Banus, Scientific Adviser, RIVM
- ◆ Jim Blackburn, Assistant Capability Manager IED, European Defence Agency
- ◆ Lt. Col. Morel Richard, Paris Fire Brigade, France
- ◆ Col. Ben Steyn, Chemical and Biological Defence Advisor to the Surgeon General, SANDF, South Africa

Supporting partners



OPCW



MoD



TNO



RIVM



Hague & District Fire



Hague Police



NFI

CBRNe Convergence: Unique Benefits

- Programme planned by Gwyn Winfield, editor of CBRNe World magazine
- Expert speakers from Europe, North America, Middle East and Asia, chosen for their insight and challenges, allowing you shortcuts to best practice
- Pre-Conference Workshop – Introduction to CBRNE CSI – conducted by specialists from the Netherlands Forensics Institute
- Held in the European city of Justice, giving you the chance to mix with decision makers from a range of international agencies
- Hear lessons learned from military and civil agencies on recent terrorism, conflict, experimentation, real-life exercises and research & development within CBRNE
- Streamed sessions allowing you to pick and choose according to the needs of your organisation
- Third day capability exercise demonstrating Netherlands CBRN and EOD capability, with units from civil and military agencies
- Understand the challenges that EOD, CBRN, narcotics and forensics will make to your force. Ensure that you learn the lessons from the best
- CBRNE exhibition of over 30 companies! Equip your organisation with some of the leading technology available
- Delegates drawn from CBRNe World's high quality readership guaranteeing quality networking
- CD Rom of all papers and proceedings

Register online NOW at www.cbrneworld.com and benefit from an Early Bird Discount

Conference Programme
and list of exhibitors

CBRNe CONVERGENCE

Conference Programme

Pre-Conference Workshop – CBRN CSI 101.

26 October 14.00: Led by a team from the Netherlands National Forensic Institute (NFI), this afternoon class will show you what constitutes evidence, how it should be captured and the dangers of treating a CBRNe crime scene like a hazmat or military scene

DAY ONE October 28

8.30 – Chair's Opening Remarks. Coloned

Rick Barker, Director of CBRN Defence Development, Canada

Conference Welcome, *Major General van der Till, Director of Operational Policy, Requirements and Plans, NL MoD*

08.45 – Plenary Presentations

A multi-stakeholder approach to implementing the CWC

- Involving all stakeholders is essential to fully implement the Convention
 - CWC National Authorities as hubs for involving and coordinating stakeholders
 - Creating synergies in the fight against terrorism
 - OPCW's collaborative partnership with industry
 - The challenges of science and technology to non-proliferation
- Rogelio Pfister, Director General of the OPCW.*

11.00 – 12.30

Stream A HOMELAND COUNTER TERRORISM

The Fire Service CBRNe Response in Canada's Capital

- The Fire Service in Canada and how it responds to CBRNe incidents
 - The Ottawa Fire Service Delivery Model for CBRNe events
 - The Ottawa CBRNe Task Force Response Plan
 - Interoperability using a functions based response strategy.
- Kim Aylotte, Chief of Special Operations, Ottawa Fire, Canada*

Dutch National civil CBRN capabilities

- Expert networks of the Ministry of Spatial Planning, Housing and the Environment (VROM).
 - Laboratory capacity in case of CBRN threats, provided by the Dutch national laboratory network - tern attacks (LLN-ta).
 - New mobile CB laboratory and novel RN-detection units to enhance the capabilities to assess a CBRN-incident on-site.
 - Different fields of expertise within RIVM to provide CBRNe research.
- Sander Banus, PhD and Carin de Hoog, MSc, RIVM, Netherlands*

13.30 – 15.00

Stream C DECONTAMINATION

Covering sources of toxic vapours with foam

- Which foams could be used for this purpose?
 - How thick should the foam cover be?
 - How long would the foam cover be effective?
 - How can we characterise foams?
 - Could the spraying of foam spread out the source?
- Dr Walter Aue, Spiez Laboratory, Switzerland*

Development of Enzyme Systems to Combat Chemical and Biological Threat Agents

- Two enzymes commercially available for organophosphate based nerve agent inactivation
 - Compatible with personal deployment to wide area deployment
 - Arylesterase system that generates a biocide effective against pathogens
 - Arylesterase system scalable from 0.08% to greater than 4% biocide
 - Compatible with a wide range of military application systems
- Christopher Barnett, Director - Applications R&D and Technical Service, Genecor, USA*

16.00 – 17.30

Stream E CRITICAL INFRASTRUCTURE PROTECTION

The security methodology for the protection of the power supply

- Short Overview of threats and tools by global operating territories
 - Critical infrastructures as a potential target
 - Basics of the European structure of electric power supply
 - What must be done for a secure electric energy supply on different levels?
- Peer Rechenbach, Head of State Dept of Civil Protection, Germany*

Next Generation CBRN On-Demand Decon

- Using multi-asset technology;
 - Perform logistically realistic wide-area decon
 - Mitigate naturally occurring and man-made airborne threats
 - Reduce secondary infections in healthcare
- John Breedlove, Director, Intelgard, USA*

CBR DEFENCE AT 2010 FIFA WORLD CUP

- Introduction on South Africa and 2010 FIFA World Cup arrangements
 - Approach to CBR Defence Planning
 - Threat Analysis
 - Threat Management including, prevention and consequence management Preparations
- Col. Ben Steyn, CBRN Advisor to Surgeon General, South Africa National Defence Force*

10.15 – 11.00

Coffee and exhibition

Stream B COUNTER TERROR OPERATIONS

CBRN reconnaissance, tools, challenges and ambitions

- Collection of CBRN Intelligence
 - CBRN advice as part of Force Protection measures
 - Operational CBRN reconnaissance
 - Unique capabilities
 - Cooperation with other specialists (EOD)
- Lt. Col. Klaus Schiff, Deputy Director Combat Development, Bundeswehr, Germany*

NATO/military technical and operational CBRN Reach Back capability

- CBRN information sharing
 - CBRN Fusion and its role in support of strategic/operational planning and missions
 - CBRN Reach Back and Force Concept
- Lt Col Vratslav Oswald, SHAPE*

12.30 – 13.30

Lunch and exhibition

Stream D DETECTION

India's Management of CBW Emergencies

- CBW Emergencies
 - Detection
 - Protection
 - Decontamination
 - Casualty Management
- Dr Syed Raza, Joint Director, DRDE, India*

Total CBRNe integrated solutions

- Vehicle applications
 - Mass transit
 - Airport security
- Sebastian Meyer Plath, Bruker Daltonics, Germany*

15.30 – 16.00

Coffee and exhibition

Stream F MEDICAL RESPONSE TO CBRN

The Israeli approach to casualty management and triage

- Performing informed CBRN triage
 - Mass decon at the hospital
 - Providing care for existing patients
 - Lock down vs. accessibility
 - Experiences and lessons learned from conventional attacks
- Meir Oren, Director General, Hillel Yaffa Hospital, Israel*

Bioagents, Effects, Potential Concerns, and Protection

- Examples of real cases of bioterrorism
 - Bodily reaction to Anthrax exposure
 - How can Anthrax be weaponized?
 - Problems with diagnosing Anthrax infection
 - Protection against Anthrax
- A. Thomas Waytes, MD, PhD, VP, Biodefense Operations, Lansing Inc, USA*

DAY TWO October 29

09.00 – 10.30 Plenary Presentations

2009: The year for CBRN defence within the French Army?

- CBRN in the heart of the French White Paper
 - CBRN within the new Army operational contract and model
 - Increased capabilities for the 2nd CBRN Dragoon Regiment.
 - A continuous commitments within NATO and EU.
- Lt. Col. Xavier Lefebvre, CO Dragon Regt. France*

11.00 – 13.00

Stream G DEMILITARISATION

US Army CBRNE Analytical and Remediation Activity

- Unique capabilities as part of US Army 20th Support Command (CBRNE)
 - Role in conducting remediation operations
 - Current demilitarization operations
 - Deployable mission as part of Joint Task Force Elimination
- Dr Bess Jensen, Director CARA 20th Support Command, USA*

RSDL: New Research and Industry – Government Cooperation

- Bracco Diagnostic's decon development fund
 - The fund's purpose, scope and mechanism.
 - Studying the reactions between RSDL and various CW threats.
 - Seeking the next generation of decontamination products.
 - Addressing multiple decontamination scenarios and additional threats
- Nayla Feghali, P.Eng, Senior Director, Technology & Applications, RSD/Decon, USA*

Chemical Safety and Security at Chemical Plants

- Significant chemical weapons threats since CWC entry into force
 - Cooperation with the UN Security Council and other international bodies
 - Non-proliferation and anti-terrorism dimension
 - Safety and security as a new issue arising from the Second Review Conference
 - OPCW's role in promoting safety and security at chemical facilities
- Krzysztof Paturej, Dir. Office of Special Projects, OPCW.*

13.00 – 14.00 Lunch and exhibition

14.00 - 15.30

Stream I COUNTER-NARCOTICS

IDLs – Developing the UK Police response

- Identifying a National strategy to tackle the emerging threat within the UK.
 - Development of the UK Police response to Illicit Drug Laboratories.
 - Incorporating the lessons learnt from countries with existing meth problems
 - 7 phases of response within CBRN teams and options for national implementation.
 - London – How the CBRN response has been utilised and the lessons learnt.
- Simon Van Orden and Jason Ashwood, Metropolitan Police, London, UK*

Lightweight CBRN Protective Materials with Enhanced Protection and Wear Comfort

- Introduction to CBRN IP-Protection Technologies
 - Light weight CBRN Protection
 - CBRN protection with improved Aerosol protection
 - Post intrusion protection of permeable CBRN protective materials
- Dr. Bertram Böhlinger, Director of R&D / Blücher GmbH*

15.30 – 16.00 Coffee and exhibition

16.00 – 17.30

Stream K CRISIS MANAGEMENT

The Paris fire brigade preparedness plan in case of a CBRN terrorist attack

- General Situation assessment regarding terrorist threat
- Basic principles for CBRN deployment
- The Paris "yellow plan"

Lt. Col. Morel Richard, Paris Fire Brigade, France

Common Alerting protocol (CAP) – Bridge too far?

- Solving the problems of civil-military coordination
 - CAP: an emerging standard for communicating critical information
 - Controlling information access
 - Solving the problems and working towards the solution
- Russ Stout, Optimetrics*

17.30 – 18.00

- The Nexus of explosives, CBRN materials and narcotics: synergy or assumption?
 - The pressure to find synergy - Budgets, Manpower and training burdens.
 - Alphabet soup - How have we come to this point in categorising threat?
 - An inconvenient truth - How useful are the technology synergies?
 - Horses for courses - Is a good CBRN responder a good Narcotics responder?
- Steve Johnson, SCS*

Pentagon Shield - Real-time Chem/Bio Facility Protection

- Pentagon Shield an integrated, real-time CB protection system
 - Tiered sensing architecture with automated HVAC manipulation
 - Sophisticated exterior and interior modeling linked to evacuation guidance
 - Data-driven program based on operational, on-site, tests
- Paul Benda, Director of CBRN Directorate, Pentagon Force Protection Agency, USA*

10.30 - 11.00 - Coffee and exhibition

Stream H NETHERLANDS CBRNE RESPONSE

NLD MoD as structural CBRN partner

- NLD Defence CBRN capabilities
- NLD CBRN incident management organisation
- Intensification Civil Military Cooperation
- SWOT analysis
- Way Ahead

Lt. Col. Kees Bourgondien, Commander, Centre of Expertise, NL MoD

TNO's CBRNE support to NL MoD

- CBRN defence R&D in The Netherlands performed by TNO
 - Supports policy making, operational issues, procurement and equipment dvt
 - Defensive chain ranging from threat assessment to medical countermeasures
 - Development of a biodetector and procurement of a Colpro system
- Marten Nieuwenhuizen, TNO, Netherlands*

The NL Civil Biodefence Response

- Response to Haz&Mat incidents by the fire dept.
 - Rapid intervention teams for HazMat
 - CBRN-mass decontamination
 - Cooperation between Fire and Police for suspicious objects
- Arwin Van de Zande, Hazmat office, Hague and District Fire and Dick Onderwater, Forensic Bureau, Hague Police*

Stream J COUNTER-IED

Research Advances in the Containment of Improvised Explosive Radiological Dispersal Devices and Remediation

- Improving the means of containing and mitigating the effects of hazardous devices (IED or UXO) specifically containing radiostopes
 - Improving the means of collection of effluent containing specific radiostopes
 - Effectiveness of decontaminant for use with chemical and biological remediation
- Laura Cochrane, P.Eng CBRN Technical Director Allen Vanguard, Canada*

European Defence Agency – Roles, tasks and the Capability Development Process

- EDA On going activities - a view of it's agency and its directorates.
 - EDA CBRN
 - EDA Counter IED
 - Other EU actors
- JW Blackburn, Assistant Capability Manager Engagement, European Defence Agency*

Stream L MASS TRANSIT PROTECTION

Border Security in a Borderless World

- Living in a paradox
 - Growing with the flow
 - Looking backward, looking forward
- John Lim, Dir. Security Plans, Homefront Security Division, MHA, Singapore*
- Survival Evolution: How Can Speed & Best-of-Breed Fulfill Needs in a QD World?**
- What is Quick Don?
 - Why is the "QD approach" essential to today's first responders?
 - Where SR leads the field of PPE
 - Who benefits from the use of SR in a QD context
- Paul Forbes, Homeland Security Advisor, Remploy Frontline, UK*

Final Plenary

18.00 – 18.05 - Chair's closing remarks and end of conference

DAY THREE October 30 CBRNE CAPABILITY DEMONSTRATION

CBRNe World is keen to bring you not only theoretical examples of some of the best CBRNE thought, but also some practical demonstrations. The morning of the third day, the 30th, will involve a short trip to see an exercise in CBRNE interoperability by Dutch civil and military agencies.

Exhibitors as of May 12, 2009

To exhibit email David Levitt: david.levitt@cbnrneworld.com

Book your seat at CBRNE Convergence
www.cbrneworld.com

GOLD SPONSOR

Genencor®, a division of Danisco A/S, is a world leading enzyme supplier and a pioneer in enzyme innovation and metabolic pathway engineering.

Genencor improves processes and product performance, and creates new products, for a spectrum of industries. The sectors we serve range from biofuels and laundry detergents to animal nutrition and food. Genencor was founded in 1982, and today is part of the large Danisco A/S global group, with a sales and distribution network that spans more than 40 countries. Worldwide, the division employs about 1500 people, a dedicated team of world-class experts driving Genencor to become the growth engine in industrial biotech.



GENENCOR®
A Danisco Division

SILVER SPONSORS

Emergent BioSolutions Inc. is a profitable, multinational biopharmaceutical company dedicated to one simple mission – to protect life. The company focuses on the development, manufacture and commercialization of biologic products, consisting of vaccines and therapeutics that assist the body's immune system to prevent or treat diseases. Emergent's marketed product, BioThrax® (Anthrax Vaccine Adsorbed), is the only vaccine licensed by the U.S. Food and Drug Administration for the prevention of anthrax. BioThrax is not authorized for use outside of the United States and India. In addition to BioThrax, the company has multiple clinical and preclinical product candidates that are designed as medical countermeasures for use against biological agents that are potential weapons of bioterrorism and bio warfare. To view the company's product portfolio please visit www.emergentbiosolutions.com. The company has offices in the United States, the United Kingdom, Germany and Singapore.



SILVER SPONSORS

Braker Daltonik GmbH. For over 20 years Braker Daltonik has been worldwide leading in CBRNE detection equipment. We are the only supplier who covers the complete range of chemical, biological, radiological and nuclear detection. Braker is specialised in development, engineering and manufacturing of military hardened and easy-to-use analytical systems. The product line supports all possible use cases for the detection of various threats, and includes handheld point detectors as well as detection systems for reconnaissance vehicles, shipboard or stationary use.

State-of-the-art technology, ruggedized design and modular accessories allow flexible and extensive applications.



TNO Defence, Security and Safety provides innovative solutions to enhance the general security of the society and is a strategic partner of the Dutch Ministry of Defence. The accumulated knowledge is also used for foreign governments and defence-related industries. Its focus is on Defence in the broadest sense of the word. In the area of Security and Safety, the emphasis lies on combating crime, calamity and terrorism. TNO Defence, Security and Safety also works for the aerospace and maritime sectors.



Intelgard is a leading designer and manufacturer of powerful and effective tools for CBRN decontamination, fire suppression, and hazmat remediation. Intelgard equipment is designed for maximum usability and versatility. Use the same piece of equipment to decontaminate an office on Monday, suppress a fire on Tuesday, and clean up a hydrocarbon spill on Wednesday. From the Placaw backpack to the large-scale High Mobility Decontamination System, Intelgard has a system to fit your needs. Intelgard also offers solutions such as EasyDECON DF200, a powerful chemical/biological decontamination solution. Watch for new product announcements, coming soon.



BRONZE SPONSORS

RSDL is a patented, broad spectrum skin decontamination product intended to remove or neutralize chemical warfare (CW) agents or T2 toxin from the skin. Originally developed for the Canadian Department of National Defence (DND), RSDL has since been adopted by numerous military services around the world, including the U.S. Department of Defense for deployment with U.S. troops. In the case of large-scale contamination, RSDL can be self-applied, thus reducing the danger to victims awaiting other procedures. RSDL's single-step application provides ease of use.

Remploy Frontline is the world's leading CBRN (chemical, biological, radiological, and nuclear) personal protection equipment producer for worldwide and military services worldwide. Its customers include: UK Home Office & MOD; US Chemical Stockpile Emergency Preparedness Program; Hong Kong Police; Indonesian Special Forces; Australian Defence Force; Thailand's CTCOC. Its Product Development unit continually explores better ways of serving the CBRN community's future needs. Remploy Frontline's ISO and NFPA approved production facilities are located in the UK.

Allen Vanguard is the global leader in protection and countermeasures against Improvised Explosive Devices, including CBRNE hazards. Allen Vanguard offers proven solutions around the world. The market's remediation and blast mitigation to meet evolving threats. Its decontamination single chemistry foam technologies include its CASCAD™ and SDF solutions for civil and military operations. Allen Vanguard recently launched its L-PODS system for large area decontamination, designed in conjunction with and endorsed by the Canadian Association of Fire Chiefs.

BLÜCHER's revolutionary SARATOGA® CBRN protective systems are used by military, law enforcement, emergency response, and other personnel in more than 35 different countries around the world. The market's leading SARATOGA® protective materials and garments are widely recognised as the most advanced chemical and biological warfare agent protective technologies in the world, with a proven record of technological and operational superiority. The most sophisticated and demanding customers in the world rely on SARATOGA® to protect their personnel.

OptiMetrics, Inc., was founded in 1979 to provide applied science and technology to protect and enhance the survival of Soldiers on the battlefield. Our experienced and knowledgeable team:

- Analyzes real-world military systems and sensor performance.
- Provides management assistance of defense technology acquisition and development.
- Develops computer models and simulations of military systems.
- Plans, coordinates, and manages laboratory and field test programs.
- Creates software applications for command and control system integration.



STANDARD EXHIBITORS

Ahura Scientific develops rugged, ultra-compact systems for rapid identification of liquid and solid chemicals directly in the field. Designed specifically for military and civilian first responders, the company's FirstDefender (Raman) and TriDefender FT (FTIR) offer exceptional portability, unparalleled performance and are easy to operate, even in bulky protective gear.

AirBoss-Defense is world renowned for the manufacture and supply of CBRN Personal Protective Equipment (PPE). AirBoss-Defense also manufactures Fire Fighting and Extreme Cold Weather (ECW) footwear, multi-purpose safety boots and a wide range of industrial extruded and moulded rubber engineered products for the defense market.



Argon Electronics LLP is a world leader in CBRN / NBC gas and hazmat simulation and training aids. We provide realistic, cost effective chemical, biological, radiological and nuclear simulators for military and civil use. Detector manufacturers can benefit from our simulation technology and we encourage them to contact us to develop training systems that complement their detection equipment.



Ahura Scientific

ARLE provides High End CBRN equipment for operators in the Warm & Hot zone, such as the Wilcox Inc. Patriot Life Support System, the Lion Apparel M5-M garment and a Gemco Mobile Systems CBRN container in order to store all the equipment and be flexible on scene fast. Please visit us for more information at www.arle.it



Cristanini Spa of Italy are a world leaders in CBRN detoxification and decontamination systems. They have delivered portable radiological nuclear decontamination systems, rapidly deployable trailers for detox and decontamination, a CBRN decon systems for sensitive equipment, mobile autonomous stations and a shelterised self contained biological field laboratory.



Headquartered in Bethesda, MD, Lockheed Martin is a global company that employs about 140,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

For more information, visit: www.lockheedmartin.com



Chemical Warfare agents and biological Warfare agents detection systems of Proengin are based on flame spectrometry. Proengin is the only company using this technology to manufacture field usable chemical and biological detectors.

This unique technology allows detecting the widest range of toxic products with the following features: Simultaneity, Rapidity, Reliability and MTBF 4500 hours.



Smiths Detection provides government regulated technology products and advanced services to security experts and governments worldwide, to detect and identify CBRNE material and other dangerous or illegal objects. Smiths Detection offers advanced integrated security solutions based on trace detection equipment, X-ray screening systems and other proven and developing technologies.



Avon Protection Systems, part of Avon Rubber p.l.c., is the world leader in advanced CBRN respiratory protection solutions. It supplies the world's military, law enforcement, first responder, emergency services and industrial markets. Avon Protection has a unique capability in CBRN protection based on a range of advanced CBRN technologies in respirator design, filtration and compressed air breathing apparatus.



Dycor Technologies and TSI are leading partners in solutions for Biological Defense. Dycor provides the rugged and flexible CFLAPS platform as well as XMX biological sampling systems. In addition, Dycor has a line of fielded, flexible Test and Evaluation products.



NBC-Sys are a leading provider of decontamination, protection and detection systems. Providing air treatment systems for vehicles and shelters, decon systems for sensitive material, vehicles aircraft and personnel-both military and civil. Individual protection with their respirators and filter and detection with individual nerve agent detectors using both paper and chemical detector kits.



Save precious lives and valuable time by sending a robot downrange first. ClinIQ North America's TALON-BX Hazmat robot can "plug and play" up to seven detection instruments for WMD, radiation, gas, explosives and temperature mounted on a quick-release tray. Visit www.TalonRobots.com for further information.



teleroB develops and manufactures special equipment for applications in the field of EOD/IEDD-Technology. We are a leading manufacturer of bomb disposal robot such as iEODor and telermax. Equipped with CBRNE-sensors they identify risks from a safe distance.

For further information, please contact: www.teleroB.de



Bertin Technologies is a French company specialised in Chemical and Biological Warfare agents detection equipment. Bertin products offer an appropriate answer to the complex threats of warfare allowing CBRN teams to undertake their mission safely. Second Sight®: Infrared gas cloud detection Coriolis®: Cyclic air samplers for bioaerosols collection KIM: BWA identification equipment



Environics Oy provides high technology solutions to improve and ensure security and safety of people, environment and property. Our product range consists of CBRN reconnaissance vehicles, CBRN laboratories, portable and fixed detectors, complete turnkey security systems, biological detection and CBRN protection.



OWR is the worldwide leading decontaminator of CBRN decontamination systems and sole source provider of CBRN systems. OWR creates unique CBRN system packages, which includes not only Decontamination equipment, but also a complementary range of state of the art Detection and Protection equipment to fulfil the need of our customers



Remotec, a subsidiary of Northrop Grumman Corporation provide unmanned ground vehicles and equipment specifically configured for explosive ordnance disposal, CBRN, security and surveillance sensing and HazMat. Wheelbarrow, is regarded by EOD specialists as the most capable and reliable unmanned vehicle available. Remotec have also been appointed as prime contractor for Phase II of the Ministry of Defence CUTLASS robotics programme.



Tradeways Ltd, founded in 1974, is the principal exporter of US MILITARY SPECIFICATION CBRNE defence equipment. Our complete range of products include: detection, protection, decontamination, and medical equipment and systems.



Charcoal Cloth International, a subsidiary of Chemviron Carbon (producers of activated carbon products), manufactures ZORFLEX® Defence Cloth - 100% activated carbon cloth for CBRN protective clothing, filters and decontamination wipes. Due to its high protection factor yet low physiological burden, ZORFLEX® is the first choice gas cloth for many users.



Hot Zone Solutions provides training with live agents to emergency responders, law enforcement, medical and security personnel. Building on more than 75 years field experience in NBC defense, international weapons inspection, emergency response, medicine, forensics, counter-terrorism and non-destructive evaluation, Hot Zone Solutions offers a full spectrum service with core competencies covering the use of nerve and blister agents for training.



Worldwide leader in research, development and mass production of CBRN/FP protective suits, Paul Boyé Technologies offers a complete range of products to meet the requirements of Armed Forces and Civil Defence/ soldiers, decontamination experts, aircraft pilots, helicopter pilots, special forces, police, medical personnel, fire fighters).



Scott Health & Safety design and manufacture Respiratory Protection Equipment (RPE) including military and civil defence masks and filters, powered breathing systems, self-contained breathing apparatus (SCBA) and escape sets. Contracts we are currently working on include the General Service Respirator (GSR) for the British MoD and the M 2005 for the Finnish MoD and the End of Service Life Indicator Technical Demonstrator Programme for the UK MoD.



TSI and Dycor Technologies are leading partners in solutions for Biological Defense. The TSI 3317 FLAPS and its predecessors have been successfully deployed in fixed and mobile applications worldwide. Dycor provides the rugged and flexible CFLAPS platform as well as XMX biological sampling systems. TSI's M41 PortaCount® mask fit tester and variants are in use by many of the world's Armed Forces as a primary respirator mask testing system. The Mask Integrity Test Accessory provides the ability to test the complete mask for leaks or defects.



AirSense Analytics offers a wide range of products for chemical-detection. Those units are new technical solutions for special requirements of first responders in the chemical field. Our portable detector, the Gas Detector Array GDA offers detection and identification results in seconds. Through its (multi-sensor array it provides sensitivity to warfare agents and a broad range of toxic industrials.

AIRSENSE
ANALYTICS

Cobham Surveillance working in partnership with industry-leading specialists and the United Kingdom's Police National CBRN Centre, has produced a simple to operate, rugged Scene Management Barrier and Public Communication System solution. This solution allows an increase in efficiency whilst improving police and public safety to enable better allocation of resources by incident commanders.

COBHAM

Dräger is an international leader in the fields of medical and safety technology. The safety division offers customers consultancy, products and services for an integrated hazard management, especially for personal and facility protection. The current portfolio comprises stationary and mobile gas detection systems, respiratory protection equipment, fire training systems, professional diving equipment as well as alcohol and drug detection units.

Dräger

EADS SODERN is the world's specialist in integrating industrial grade neutron-generators into detection instrumentation products for countering dangerous or illicit materials concealed in baggage (e.g. explosives or narcotics), buried subsurface (e.g. mines, chemical weapons), and improved explosive devices as well. Sodern is proud to present his new innovative equipment ULIS dedicated to CBRNE detection and identification.

EADS
SODERN

Germfree Laboratories has been engineering and building biological and chemical containment equipment for the military, research, and healthcare fields since 1962. Germfree mobile laboratories and high containment systems have been purchased by more than 6,000 institutions and companies in over 60 countries worldwide.

GERMFREE

ICx Technologies is a leader in the development and integration of advanced CBRNE sensor technologies for homeland security, force protection and critical infrastructure security. Our compact and portable laboratory-caliber sensors can be used to screen packages, shipping containers, vehicles and people with the sensitivity and accuracy necessary to defeat CBRNE threats.

icx
technologies

INFICON provides vital chemical identification systems for immediate, on-site detection and analysis of volatile organic compounds (VOC), such as toxic industrial chemicals and chemical warfare agents, in air, water, and soil. INFICON offers both gas chromatograph/mass spectrometers (GC/MS), the benchmark for positive identification of organic chemicals with the highest degree of accuracy.

INFICON

Medical Gas Solutions. During a civil emergency or disaster, medics need to get oxygen to the injured – fast. A few minutes' delay can make the difference between life and death. Medical Gas Solutions (MGS) has developed the MPU – Multi Patient Oxygen delivery system and the Frontline Backpack Oxygen Delivery System. These products are the first choice for the UK Government, Civil Contingencies Department.

mgs

Sandia National Laboratories. is government owned/contractor operated research and development laboratory in the United States with 11,000+ personnel engaged in the development of science-based technologies that support national security. Through science and technology, people, infrastructure, and partnerships, Sandia's mission is to meet national security needs in several key mission areas including Homeland Security and Defense.

Sandia National Laboratories

Ultra Electronics Command & Control Systems supplies radiation monitoring systems for ships, fighting vehicles, command headquarters and other facilities including naval dockyards. With the increased radiological threat in the public environment, our systems provide affordable, reliable solutions for I1: Responder vehicles, for covert surveillance and for wide-area monitoring in the event of an incident.

Ultra ELECTRONICS

Biral

BIODETECTION TECHNOLOGY COMPANY

BIRAL'S IN-SERVICE BIO-DETECTORS

- Realtime generic and non-specific bio-detectors
- Intelligent detection software



Aspect

VeroTect

TECHNOLOGY DEVELOPERS

STAND-OFF TECHNOLOGY FOR BIODETECTION



EU BODE anti-terrorism project to develop a spectrally resolving fluorescence LIDAR

IDENTIFICATION TECHNOLOGY FOR BW AGENTS

Biral awarded UK MoD's PIBBDT contract to develop a portable, specific bio-detector



T: +44 (0)1275 847787

E: biodetection@biral.com

www.biral.com

Biral