



CBRN: FIRST RESPONSE 2014

11th & 12th February 2014, Mercure Hotel ,Leicester, UK

The consequences of Chemical, Biological, Radiological and Nuclear (CBRN) emergencies challenge national response capabilities to their maximum extent. Responsibility for an effective first response to mitigate the consequences to lives, infrastructure and the environment remains essential. Enhancing preparedness through a multi-agency and multi-national approach is critical.

CBRN First Response 2014 provides the international CBRN community with the unique opportunity to gain a clear understanding of future requirements and capabilities needed for a multi-agency approach to a CBRN emergency. CBRN First Response 2014 will act as a platform for the international military and first responder community to analyse emerging markets, best practice and the latest technologies available.

CONFERENCE DAY 1 – 11th FEBRUARY 2014

0800 – *Registration and Morning Coffee*

0855 – *Chairman's opening remarks*

0900 – **OPENING KEYNOTE ADDRESS: CBRN in the current climate**

- Likely military and civil arenas that require in depth CBRN contingency planning
- The prevalent lessons identified that remain pertinent in a constantly changing landscape
- Look small, think big: the scope required to maintain an efficient and robust CBRN response

0930 – **CBRN Terrorism: Hunting the target**

- Likely options for current targets and potential consequences
- Linking foreign agencies: how to close the web on suspected devices
- Current detection equipment and resources available and where opportunities can be explored

1000 – **UN chemical weapon testing in Syria**

- Participating nations and challenges to collecting data
- Results so far and the resulting actions
- Who will remain to monitor and test

1030 – *Morning Coffee and Networking*

TRAINING & SIMULATION

As with any industry, training and simulation plays a critical part in preparing for any incident no matter how severe. This session enables the audience to gain critical information from some of the world's foremost CBRN response agencies on how they create realistic training environments to ensure they are as prepared as possible.

1115 – The HPA and its role in CBRN training

- Developments in responses to current CBRN threats
- The new challenges lying in wait: where are they from and how they can be managed
- Access to treatment on large scales

1145 – Fighting for information: Modern battlefields influencing CBRN preparation

- Leaving 'the war' for 'a war' and how to best allocate troops, training and resources
- In house vs interagency reliance: who and what offers best results for efficient training
- Latest devices to simulate CBRN environment, and the effect they are having on preparedness

1215 – Defending strategic assets: The essence of successful integration

- Spectrum of responsibilities covered by Civil Nuclear Constabulary
 - Co-ordinating multi-function departments, forces and agencies
 - Assets and resources used, and how they can be managed by the central commander
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1245 – *Lunch and Networking*

PREPAREDNESS & RESILIENCE

This focus session discusses how agencies and organisations can undertake the highest level of preparedness to mitigate the possible effects of any CBRN material release, whether accidental or deliberate. Government level and emergency response services will present on how they interact with other organisations to promote resilience and provide high levels of regional, national and international preparedness.

1415 – FDNY Preparation for CBRN incidents: keeping the public informed

- How the New York approach differs from other cities and why it is so effective
- Keeping the teams motivated: training the spectrum of volunteers
- Simulation of threats and responses: virtual vs actual

1445 – Brazilian Olympics preparation

- Key requirements and challenges for defensive measures on the scale of the Olympics
- What equipment and resources have increased responsiveness and effectiveness
- People vs technology: Which counts for more in the fight against CBRN

1515 – **London resilience units – a key information and reassurance portal**

- People required to plan for the number and size of events in the capital
 - Previous successes and lessons identified and preparation for the next major event
 - The current threats, and what resources are required to ensure they can be dealt with
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1545 – *Afternoon Coffee and Refreshments*

COMMAND, CONTROL & COMMUNICATIONS

Effective command, control and communication are vital to coordinating a swift and effective response to any incident. The following presentations will examine how effective command, control and communications procedures can improve reaction time, mitigate the threat and help reduce number on life changing casualties.

1630 – **Upgrades to police C4I management systems**

- Agencies and parties involved in the upgrade process
- Lessons identified from previous program
- New features and adaptability for other industries

1700 – **US embedded chemical detection communication systems**

- Where the need arose and what factors were involved in planning
- How it will assist command and what other areas may be impacted by the change
- New systems vs adapting current models: the pros and cons

1730 – **Case study – Sellafield power plant C3 systems**

- Who leads on the threat and when and how control is delegated
 - Integration with different services
 - Actions on different scenarios and responsibilities in reducing casualties
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1800 – *Chairman's Summary*

1815 – *End of Day 1*

CONFERENCE DAY 2 – 12th FEBRUARY 2014

0800 – *Registration and Morning Coffee*

0855 – *Chairman's Recap of Day 1 and a look at the Day Ahead*

0900 – **KEYNOTE ADDRESS: Chlorine tanker explosion – US Army response to attack**

- Intelligence regarding terrorist CBRN capabilities – misleading or an asset?
- Contingency plans covering the attack – were they subsequently adapted?

- Initial response and force reactions: how the recovery operation evolved
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SCENE MANAGEMENT & CROWD CONTROL

If a CBRN incident is suspected or confirmed, the Scene Officer in Charge, or Bronze Commander, will play a vital part in reducing the impact on life and environment that such a release would cause. These sessions examine the latest strategies and procedures for scene management which will highlight the importance of directing specialist personnel, control the flow of personnel, relaying information up to Silver Commander and controlling the movement of affected casualties or those exposed to potentially lethal CBRN agents.

0930 – Maintaining public order in a CBRN incident

- Equipment, training and information required to co-ordinate an effective response
- The roles of different units and agencies in establishing control
- Offensive vs defensive, the best approach to reassuring the public

1000 – CASE STUDY – Lothian and Borders Fire and Rescue: The Scotsman Hotel cyanide suicides

- What information was given, and what was required to assist the first responder
 - Briefing process to enable rapid response and cleanup
 - Who was first in, what was their role and what was the protection provided for them?
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1030 – Morning Coffee and Networking

HEALTHCARE RESPONSE

As with any emergency, the healthcare response plays a critical role in minimising effect on life. The following presentations will discuss how the emergency healthcare community are prepared to respond to a CBRN related incident no matter the size.

1115 – Medical synergy: Combining forces to maximise effective treatment

- Which are the pertinent threats and how are they monitored
- How healthcare response is co-ordinated at tactical and strategic levels
- Preparing for the worst: how systems and training are linked to ensure organisations operate the same

1145 – Extreme treatment

- Initial identification and tackling the cause: symptoms to watch and what to administer
- Maintaining effective treatment in a CBRN environment: how and where to replenish
- Monitoring effects and post incident treatment

1215 – Hazardous Area Response Teams (HART): the solution to the unthinkable

- The need for HART and the selection process required
 - Specialist equipment and capabilities required for operating in CBRN environments
 - Distributing the load – incorporating treatment from other sectors
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DECONTAMINATION & DISPOSAL

After the first responders have arrived, decontamination and affected materials need to be decontaminated and disposed of. This session discusses the latest thinking in decontamination procedures, materials and innovations.

1415 – Combat and clean up: The race to ensure public safety

- Current exercises and training in ensuring damage is contained within the incident
- The scope of the threat: challenges in ensuring preparation for decontamination
- Who to use, how and where to dispose of CBRN substances

1445 – Meteorology: Procedures and Communications during toxic material release

- The Bikini Atoll tests in the South Pacific: what happens when MET data is ignored
- Current equipment and capabilities in the event of a CBRN incident
- Which agencies require information and what occurs when this is distributed

1515 – Case study: Louisiana chemical rail spill – initial response, evacuation and disposal

- Causes leading to the incident and initial information received
 - Actions on receiving initial information: who was mobilised and with what resources
 - First arrivals, dealing with casualties and subsequent clear up operation
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PROTECTING THE FIRST RESPONDER

PPE plays a vital role in any CBRN or HAZMAT incident. This session allows a discussion on the very latest innovations and developments in the field of personal protection equipment.

1630 – First to bat: How first responders can prepare

- Information required to assess effectively and avoid first responder contamination
- Essential PPE and recent advancements in technology
- Subsequent treatment and protection post incident

1700 – Introduction of General Service Respirator

- Limitations of the previous S-10 system
- Advantages of current system and reasons for delay
- Other CBRN areas the military are looking to improve

1730 – Case study – On the doorstep of Syria: tension mounts over use of chemical weapons

- The mission and its many decision points over when, where and how to deploy
 - Equipment and resources to protect the front line platoons in a CBRN event
 - Maintaining mobility and effectiveness whilst defending against CBRN threats
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1800 – *Chairman's Summary*

1815 – *Close of Conference*

For more information contact:

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