

# <sup>2</sup> CBRNE DIARY

*Dedicated to Global  
First Responders*



December 2019



## UPCOMING EVENTS



# 2020

— HAPPY NEW YEAR —

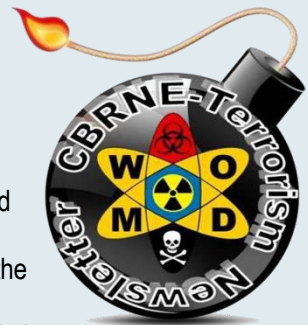
[www.cbrne-terrorism-newsletter.com](http://www.cbrne-terrorism-newsletter.com)

## C<sup>2</sup>BRNE-DIARY

Are you organizing a CBRNE-related event? We are interested to become media partners!

### What we offer:

- Include a text with photos at the "Upcoming Events" chapter of the Newsletter and keep it there until the conference, workshop, etc;
- Include a full page (or more) of the event in the same or related chapters of the Newsletter (it must be in high resolution .jpg format);
- Incorporate a banner at the home page of the Newsletter with a link to event's website.




### What we would like to be offered:

- Inclusion of Newsletter's logo in the website of the event;
- Inclusion of Newsletter's logo in the final program of the event;
- Inclusion of a small text about the Newsletter along with the URL of the Newsletter.



► For more details please contact the Editor-in-Chief at: [igalatas@yahoo.com](mailto:igalatas@yahoo.com)

**INTERNATIONAL  
HAZARDOUS**  
MATERIALS RESPONSE TEAMS  
International Association of Fire Chiefs



Preconference: June 3, 2020  
Conference: June 4-7, 2020  
**Hilton Baltimore**  
**Baltimore, MD**



The [2020 International Hazardous Materials Response Teams Conference](#) – IAFC's Hazmat Conference 2020 – will be held June 4 – 7, 2020 in Baltimore, Maryland.

The annual conference provides the latest classroom, hands-on and field trip-based training on what's new in hazmat, covering all aspects of hazmat, including transportation, safety, WMD, gear, terrorism, mass decontamination, bioterrorism and more. The hazmat exhibit

floor includes outdoor demonstrations of hazardous materials gear and equipment.

►► Please visit the [International Association of Fire Chiefs' website](#) for more information.

## Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Sensing XXI

Anaheim Convention Center  
Anaheim, California, United States  
26 - 30 April 2020





While the modern era of chemical warfare began over 100 years ago, armies have been using toxic



gases, biological threats, as well as incendiary and explosive devices for most of recorded history. The threats of chemical, biological, radiological, nuclear and explosive (CBRNE) hazards continue to advance. However, warring parties with limited resources improvise or reuse older technologies with great effect. Today's military and homeland protection forces must therefore be prepared for a wide range of threats including many "old ones". The rising global trend for civil war and internal conflict, especially in large cities, increases the probability that industrialized chemicals will either intentionally or accidentally become a hazard to military and security forces or the localities' residents. A greater proliferation through the internet of the knowledge necessary to make CBRNE threats, coupled with the trends of rapid innovation and improvisation witnessed in Iraq and Afghanistan with IEDs, will make threat prediction difficult. The non-attribution of strategic CBRNE acts will also make a response difficult without a strong reliance on forensics to narrow down or identify the person(s) or group(s) responsible.

For those of us trying to develop detection capabilities for military, security, and emergency response forces, the current and future strategic environment means that there are literally thousands of lethal materials that can be used as weapons. The sensing of CBRNE threats is important to obtain "real-time" answers that allow actionable decisions to be made on-the-spot; to reduce the logistical burden by moving the analysis closer to the source of the sample; to rapidly screen materials to identify samples that need to be sent to a lab for additional analysis and minimize the number of these samples; and to nondestructively analyze large, valuable, or immovable objects for which excising samples is not possible. The Department of Defense is increasingly interested in offloading forward decision making and analysis from soldiers to software. This will increase the need for signal processing to be more robust and accurate. This conference will also provide a forum for discussion of advances in algorithms for sensor signal and data processing, including signal detection and sensor fusion. Of interest is the detection of low signal-to-noise signals in cluttered signal spaces, for the detection of biological/chemical threats.

In addition to protecting against battlefield CBRNE threats, there is an increasing demand to protect borders, ports, and other geographical points of entry, from the emergent threats of improvised explosive devices (IEDs), homemade explosives (HMEs), nuclear devices, radiological dispersal devices, and illicit narcotics. These threats have elevated the importance of technologies for the reliable detection, classification, and identification of asymmetric threats.

The scientific principles behind many CBRNE detection technologies are similar, despite their diverse application areas. Technologies such as laser induced fluorescence, Raman and infrared spectroscopy, LIBS/LIPS, mass spectrometry, chromatography, specifically labeled antibodies, DNA/RNA extraction and analysis, biomimetic sensors, micromechanical devices and microfluidics have found recent applications in chemical, biological, radiological and explosives sensing. In addition, methods for electro-optical biological monitoring and biomarker sensing technologies are needed to quantify and detect physical and health indicators of exposure to CBRNE materials. Also, new and sophisticated radiation detection systems are needed for better protection of military personnel and civilians from radiological threats.



[www.qcbrna.qa](http://www.qcbrna.qa)





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This conference provides an unprecedented forum for authors from Government, industry, and academia to address a wide variety of CBRNE sensing issues, technologies, and advances in algorithms and signal process of threat related scenarios. Suggested topics for presentation include, but are not limited to:

- novel CBRNE detection modalities and materials
- wearable and/or miniature sensors for CBRNE threats
- integrated photonic applications for CBRNE threats
- biological surveillance and monitoring, methods, and analysis
- through barrier detection techniques for CBRNE sensing of hidden threats
- quantum sensing applications for CBRNE detection
- machine learning for detection and identification
- low signal-to-noise or clutter processing
- background removal/clutter rejection/image processing
- signal processing and data analytics for detection and identification
- modeling of sensor phenomenology and performance
- unmanned and/or autonomous ground or aerial CBRNE detection
- environmental monitoring of CBRNE or hazardous materials
- atmospheric transport phenomena for CBRNE releases
- environmental fate and transport of CBRNE materials
- novel decontamination and remediation technologies
- micromechanical components/nano-composite materials for CBRNE sensing
- biologically inspired or biomimetic CBRNE sensors
- active/passive detection and identification
- results/status of laboratory testing (live or attenuated agents, simulants)
- results/status of field testing (live or attenuated agents, simulants)
- gamma and neutron detection techniques
- standoff detection of ionizing radiation

## CBRNe Summit Europe 2020

Brno, Czech Republic

21st April 2020 - 23rd April 2020

CBRNe Summit Europe is returning to Brno, Czech Republic for our 7<sup>th</sup> annual event. Many major cities across Europe have faced critical incidents over the past few years. With terrorism threat levels high across Europe and the increased use of chemical agents being used by terrorist organizations this is a key event to attend.

During our international event you will hear perspectives from military and civil officials who deal with CBRNe incidents. Many governments across the region have realized the importance of CBRNe capabilities and preparedness and budgets have been increased to deal with the new type of threats faced to civilians.

CBRNe Summit Europe will focus on a number of key topics across the whole CBRNe domain such as CBRNe capabilities of military and civil agencies, first responder techniques, asymmetrical threats, medical countermeasures to chem-bio threats, decontamination developments and techniques, countering IED's, CBRNe threat intelligence, CBRNe forensics and many more.





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### Why Attend?

- Discuss the latest CBRNe threats faced across Europe
- Analyze major incidents that have taken place in recent years
- Understand the developments of first responder techniques
- Review the medical countermeasures to chem-bio threats
- Debate asymmetrical threats and the seriousness of the threats
- Network with leading CBRNe vendors in the vibrant exhibition hall



To be part of the largest gathering of CBRNe professionals in Europe please contact us via email at [events@intelligence-sec.com](mailto:events@intelligence-sec.com) or by phone +44 (0)1582 346 706 and we will be happy to provide you further information on how you can participate either as a speaker, sponsor/exhibitor or as delegates.



### The 2019 World Border Security Congress:

Over 250 delegates

52 countries represented

Director / Heads of Agency – 32

Deputy Director/Heads of Agency – 13

Director / Heads of Dept/Division – 68

Deputy Director/Heads of Dept/Division – 21

Senior Officials / Program Managers – 79

Embassies – 19





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The 2019 World Border Security Congress thanks for the support of the *Ministry of Interior of Morocco, Directorate General for Border Surveillance & Migration, Organization for Security & Co-operation in Europe (OSCE), African Union ECOSOCC (AU-ECOSOCC), European Association of Airport & Seaport Police, International Security Industry Organization, National Security & Resilience Consortium and International Association of CIP*

### .Current Border Security Challenges:

- Migration Crisis Tests European Consensus and Governance
- Migrants and refugees streaming into Europe from Africa, the Middle East, and South Asia
- Big Business of Smuggling Enables Mass Movement of People for Enormous Profits
- Climate Change and Natural Disasters Displace Millions, Affect Migration Flows
- Europe and the United States Confront Significant Flows of Unaccompanied Child Migrants
- Tackling Southeast Asia's Migration Challenge
- ISIS threatens to send 500,000 migrants to Europe
- Border Skirmishes Resonate in National Domestic Politics
- Women's Labor Migration from Asia and the Pacific

As we see the continued escalation of the global migration crisis, with mass movements of people fleeing the war zones of the Middle East as well as illegal economic immigration from Africa and elsewhere, international terrorism shows every sign of increasing, posing real threats to the free movement of people.

**The world is expected to see a continuation of the migration challenges** for the border management and security community, as little sign of peace and security in the Middle East is apparent and porous borders in Africa continue to provide challenges.

International organized criminal gangs and human and drug trafficking groups exploit opportunities and increasingly use the internet and technology to enhance their activities.

Controlling and managing international borders in the 21st Century continues to challenge the border control and immigration agencies around the world. It is generally agreed that in a globalized world borders should be as open as possible, but threats continue to remain in ever evolving circumstances and situations.

Advancements in technology are assisting in the battle to maintain safe and secure international travel. The border security professional still remains the front line against these threats.

The World Border Security Congress is a high level 3-day event that will discuss and debate current and future policies, implementation issues and challenges as well as new and developing technologies that contribute towards safe and secure border and migration management.

► Visit conference's website at: <http://world-border-congress.com/>

## Qatar Health 2020

Mass gatherings can occur in complex-built environments such as shopping malls or airports as well as at pre-planned events such as sporting events, music festivals, and political rallies. They are characterized by the concentration of people at a specific location for a specific purpose over a set period and have the potential to strain the planning and response



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resources of the country or community. The decision to host a mass gathering will usually be made well in advance by the key agencies involved, to make effective prior planning possible.

Pre-planning for mass gatherings is of paramount importance and a thorough understanding of their many associated risks is essential to ensure all parties involved can provide a safe and secure environment for the public. Ensuring there is adequate preparation, prevention and response to any public health concerns is one of the most important aspects in planning for a mass gathering. Indeed, the influx of large numbers of people to such events may lead to public health risks and stretch the health systems beyond their capacity.

### Mass Gathering Medicine

Also known as Event Medicine, Crowd Medicine or Mass Gathering Health, this is a field of medicine that explores the health effects/risks of mass gatherings and the strategies that contribute positively to effective health services delivery during these events. The reason for the development of this field of medicine is because mass gatherings generate a higher incidence of injury and illness, and/or may be the subject to a catastrophic accident or attack resulting in a large number of injured or dead.

### Key purposes of mass gathering medical services at an event are

- Rapid access to the injured or ill patients
- Effective stabilization and transport of injured or ill patients
- On-site care for minor injuries and illnesses

Due to the growth in the area of Mass Gathering Medicine, there is a need for consistency in the research and evaluation of mass gathering events. This is important because mass gatherings may impact on health services and having a collective understanding of the impact of mass gatherings on health services may mitigate any potentially poor outcomes for patients.

Health services are generally designed to meet routine priorities and demands and have limited capacity to expand. Even the most prepared of events may experience a disaster, which can overwhelm



local healthcare systems and their ability to provide an adequate emergency response. However, mass gatherings also present opportunities for long-lasting positive benefits such as stronger public health systems after the event, and improved global health security, as well as residents and visitors who are better informed about how they can protect themselves from certain diseases.

### Aim of the conference

Qatar Health 2020 is being organized by Hamad Medical Corporation in collaboration with the Ministry of Public Health in preparation for the 2022 FIFA World Cup that will be hosted in Qatar.





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The conference will offer national, regional and international delegates working in a healthcare related field the opportunity to learn about Mass Gatherings and Disaster Medicine from experts in this field including the World Health Organization and other international organizations involved in MGs, as well as previous World Cup host countries (Russia, Brazil, London (UK), academic institutions, healthcare leaders, disaster managers, global experts and government bodies.

This international conference will provide the guiding principles for pre-planned mass gathering events and will encourage the building of relationships and the sharing of best practice in public health, security and crowd management. It will also provide an opportunity to look at advances in mass gathering preparedness and planning to set the scene for a successful 2022 Qatar FIFA World Cup.

### Objectives

- Identify gaps and challenges in preparation for and the management of mass gatherings, between sectors and across levels (local, national, international).
- Collect lessons learnt and best practice for better preparedness and response in support of mass gatherings.
- Foster multi-sectoral and multi-disciplinary collaboration between relevant stakeholders and find opportunities to enhance mass gathering preparedness
- Review and analyze the latest advances on mass gatherings.



### Topics to be covered

- The emergence of medicine for mass gatherings: lessons learned
- Public health surveillance and epidemiology
- Global perspectives for prevention of infectious diseases associated with mass gatherings
- Non-communicable health risks during mass gatherings
- The crowd and environmental management during mass gatherings
- Education and research for mass gatherings
- Mass gatherings medicine: international cooperation and IHR
- Incident and outbreak response management
- Event context and risk assessment
- Risk and crisis communication
- Health promotion and public information
- Surveillance and alert systems
- Modern technologies in mass gathering planning and operations



## **C<sup>2</sup>BRNE DIARY – December 2019**

- Environmental health and protection
- Event medical services
- Disaster preparedness
- Preparedness for chemical, biological, and radio-nuclear agents

### **Proposed Methodology**

- Panel discussions
- Case studies
- Presentations
- Small groups workshops

### **Key speakers to be invited**

- WHO Mass Gathering Collaborative Centers Expertise:
  - Public Health England, United Kingdom
  - Flinders University, Australia
  - Institute of Public Health of Vojvodina, Serbia
  - Centers for Disease Control and Prevention (CDC), United States of America
- International, regional and national experts in Mass Gatherings
- Other previous, current and future MG hosts:
  - Russian FIFA 2018 experts
  - Brazilian FIFA 2014 experts
  - South African FIFA 2010 experts
- WHO EMRO MG Focal Point

### **Target Audience**

- Health providers (doctors, nurses, paramedics, and allied health professionals)
- Public health specialists
- Emergency managers and planners
- Healthcare leaders, managers
- Academic and educational institutes
- National emergency services

► Visit conference's website:

## **The American College of Medical Toxicology Offers 'Total Tox Course' Cutting-Edge Toxicology for Healthcare Providers**

PHOENIX, Sept. 12, 2019 /PRNewswire-PRWeb/ -- ACMT will present the 2019 'Total Tox Course' on Monday, December 9 – Wednesday, December 11, 2019, at The Wink Hotel in Washington, DC.

The ACMT Total Tox Course is a comprehensive review of the scope of emergency toxicology and will include up-to-date interventions and management options for poisoned patients. Prominent experts in medical toxicology and emergency medicine will lead the course.

The 3-day course will focus on medical toxicology topics of interest to physicians, mid-level practitioners, clinical pharmacists, paramedics and emergency providers, including issues of current clinical and public health importance. Attendees will be presented with the most up-to-date information to evaluate and manage cases of poisoning and exposure to medications, drugs of abuse, chemical terrorism, and environmental toxins.

Topics will include:

- Dangers and Management of Opioid Abuse
- Over-the-Counter Poisons
- Carbon Monoxide Poisoning
- Envenomations
- Disaster Preparedness
- Dangers in Your House
- Tricyclic Antidepressants, Antipsychotics, SSRIs and Lithium



American College  
of Medical Toxicology





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- Ethanol Intoxication & Withdrawal
- Plants, Mushrooms & Nutritional Supplements
- Toxic Alcohols
- Antimicrobials & Antivirals
- Drug Screen Pitfalls
- Asphyxiants
- Anticonvulsants
- And More!

This activity is eligible for CME (Continue Medical Education) and CPE (Continuing Pharmacy Education).

[Register for the course](#) and [reserve your hotel room](#) by November 18, 2019 to get the ACMT early bird discount and the group rate at The Wink Hotel.

This course has been recommended by the American Academy of Emergency Medicine, The District of Columbia ACEP Chapter, and the Pennsylvania College of Emergency Physicians.

The American College of Medical Toxicology (ACMT) is a professional, nonprofit association of physicians with recognized expertise and board certification in medical toxicology. Our members specialize in the prevention, evaluation, treatment, and monitoring of injury and illness from exposures to drugs and chemicals, as well as biological and radiological agents. ACMT members work in clinical, academic, governmental, and public health settings, and provide poison control center leadership.



## CBRN Survivability Conference

January 14, 2020 - January 15, 2020

Embassy Suites by Hilton San Diego Bay Downtown San Diego, United States

The DoD CBRN Survivability Conference is an intensely educational two-day symposium for those that support programs with CBRN survivability requirements and want to learn more. This conference aims to leverage DoD and industry resources by forming strategic collaborative partnerships. Your participation will lead to specific solutions to challenges for each of the operational environments to be discussed and allow stakeholders to share the path forward to establishing and implementing CBRN survivability initiatives.

[Find out more »](#)



## CBRNe Convergence Boston

Boston and Massachusetts are well known in the US for having an extremely high competency when it comes to dealing with CBRN and Hazmat incidents. The phrase 'Boston Strong' has become world famous due to the tragic events of April 15, 2013. That event saw an already extremely competent capability taken to the next level. This three-day event will provide delegates with the chance to be able to learn from the best that Massachusetts and the rest of the world has to offer.

Much more information will be available after CBRNe Convergence Nashville, but make



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sure you make a note in your diary for the Westin Copley in Boston for next year!

If you want more information please contact

[zoe.rutherford@cbrneworld.net](mailto:zoe.rutherford@cbrneworld.net)

►► Conference website: <https://cbrneworld.com/events/cbrne-convergence-boston>



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EVENT SERIES

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**Colombian Army**

**4 - 5 FEBRUARY, 2020  
BOGOTÁ, COLOMBIA**

## NCT South America

NCT South America is coming back to Colombia - at the Colombian War College in Bogotá between the 4th and 5th of February 2020. In official partnership with the Colombian Army, we will host the largest CBRNe, C-IED and EOD conference in the region, welcoming high-level regional and international decision-makers, civil and military operators, as well as industry experts relevant to combatting Non-Conventional Threats.

After decades of armed conflict, Colombia has become a key regional player in CBRNe and especially C-IED, EOD and demining, and as such, this year's NCT South America presents a unique opportunity for joint development of capabilities and cooperation with regards to combatting Non-Conventional Threats throughout the whole region.

Join us next February in Bogotá, Colombia for the 3rd edition of NCT South America!

►► Visit conference's website: [http:// www.nctsouthamerica.com](http://www.nctsouthamerica.com)







## CBRNe World Jakarta

Indonesia is both the world's largest Muslim country and has the world's third largest city (Jakarta with an amazing 31.5m people) and is also the largest economy in South East Asia. Despite having done enormous work in poverty reduction there is still a subset of radicalised individuals that are wedded to terrorism and attacking individuals throughout Indonesia. In May 2019, for example, 18 people were arrested on bomb making charges, with six men that had been part of ISIS in the Middle East. While Indonesia has been the most fervent driver in nuclear security in the region, chairing the Non Aligned Members (NAM) and also being one of the earliest nations to sign the CTBT, it has also spent the past four years revising their hazardous materials regulations, which are still not yet published, which makes it far easier for terrorists to get their hands on chemicals for bomb making or toxic industrial chemical attacks. With over 17,000 islands in Indonesia there are also relatively porous borders, and with many of those islands not having active law enforcement there are opportunities for devices to be created that can then be emplaced in major cities.

With such a dynamic threat environment it is no surprise that both the Indonesia Police and the Army are actively taking steps to defeat the risk of CBRN in the region and improve their detection, mitigation and protection against these devices. Spending on security is rising generally, with expenditure expected to increase from US\$6.4 Billion in 2018 to US\$9.6 Billion in 2022 and funding is expected to rise in CBRN too.

As such CBRNe World has partnered with the leading homeland security and defence event in Indonesia, [HLS Indonesia](#) to bring together a group of experts that can discuss the challenges that the region faces and propose solutions to deal with them. HLS Indonesia will bring together over 2,000 people from 15 countries together to an event supported by the Ministry of Law and Human Rights, The National Counter Terrorist Agency and the Indonesia National Police. The 5<sup>th</sup> and the 6<sup>th</sup> of March will also have a dedicated CBRN conference and exercise space that will allow delegates to gather and learn from some of the best in the region and also to see practical demonstrations of capability from local agencies and suppliers.

We will post information soon on how to register as a FREE delegate. To enquire after the remaining exhibition space, email [james.ross@cbrneworld.net](mailto:james.ross@cbrneworld.net) or [david.levitt@cbrneworld.net](mailto:david.levitt@cbrneworld.net)



## Conference on Comprehensive National Care for Casualties of War and Terrorism

14-16 April 2020

Ritz Carlton, Riyadh, Saudi Arabia

It is my pleasure to extend this invitation to attend the International Conference on Comprehensive Healthcare, focusing on the Casualties of War and Terrorism that will be held



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from 14th to 16th April 2020 in Riyadh. The conference will bring together experts in the management of health care of war injured veterans and victims of terrorism.

We are looking forward to this opportunity to share ideas and recent research innovations for improving military medicine and healthcare for victims of war and terrorism. You are welcomed to this exciting conference to share, grow, and brighten the way into the future. We look forward to reuniting with many of our long-term supporters, as well as welcoming new ones.

We would be delighted to have you present at this conference and to hear from you about your experiences, the advancements and their impact on different management strategies for the injured in the war.

Your presence in the conference will be highly appreciated and I look forward to seeing you in Riyadh this April 2020.

**Dr. Ahmed Mohammed Al Amri, MD, MHA, FRCPC**  
*Chairman of Organizing Committee CCNC*



### Scope

The conference will bring together healthcare physicians, nurse, paramedics, administrators, policy makers, candidates, researchers and scientists. The themes of the conference will emphasis on new innovations, sustainability, critical thinking, volatility and applications. The importance of healthcare and nursing to improve health results and cost management is progressively recognized worldwide. Stronger healthcare and nursing systems are connected to improve health outcomes and lower costs, especially for victims of war and terrorism. Growth and globalization have their footmark on what healthcare providers and nursing care providers need and how healthcare is planned. Progressively research and application of new ideas are becoming more and more important for improved healthcare through innovative vision and designing strategies for better treatment and management.





**C<sup>2</sup>BRNE DIARY – December 2019****Why to attend?**

CCNC offers a broad platform for sharing your own understandings and innovative ideas to come up with. It is possible to update the latest advances in healthcare. It's a great opportunity to watch presentations from around the world by accomplished scientists and researchers. Take advantage of opportunities to learn from a variety of verbal and poster presentations about healthcare of victims of war and terrorism. Meet physicians, administrators, faculty, scientists and researchers, and network with them. Take advantage of opportunities to work with varied specialists. Participate in prominent complete sessions on relevant topics affecting recent adapted healthcare and treatment techniques. *"Attending and presenting at conferences remains as the most favorable model of knowledge dissemination for researchers and practitioners to keep abreast of all advances in their field, presenting state-of-the-art research usually on a variety of subjects"*

**Conference Workshops**

- ◆ Prehospital Ultrasound
- ◆ Psychosocial Aspects in Battle Field.
- ◆ **Medical Response and Decontamination in CBRN Incidents**
- ◆ Airway Management Workshop
- ◆ Mass Casualties Triage
- ◆ Ethical Military Medical Research
- ◆ Disaster Management and Emergency Preparedness (DMEP) Workshop
- ◆ Care Under Fire:(A) Hemorrhagic Control; (B) Evacuations

►► Conference website: <http://psmchs.edu.sa/en/ccnc>



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