



MASTER CBRNe



Chemical, Biological, Radiological, Nuclear and explosive
Department of Industrial Engineering and School of Medicine and Surgery

International Master Courses in “PROTECTION AGAINST CBRNe EVENTS”

The evolution and increase in Safety and Security threats at an international level place remarkable focus on the improvement of the emergency systems to deal with crisis, including those connected to ordinary and the non-conventional events (Chemical, Biological, Radiological, Nuclear, and explosives).

In every industrial Country there are multiple entities with specialized teams in very specific fields, but the complexity of the events requires professionals that not only have specific know-how, but also expertise in the relevant areas.

Given the global interest in these issues, the Department of Industrial Engineering and the Faculty of Medicine and Surgery of the Tor Vergata University organize the international Master Courses in “Protection against CBRNe events”: I Level Master Course in “Protection against CBRNe events” (120 ECTS) and II Level Master Course in “Protection against CBRNe events” (60 ECTS). These courses aim at providing attendees with comprehensive competences in the field of CBRNe Safety and Security, through teaching and training specifically focusing on real needs.

The creation of the “**Click & Read**” newsletter, that connects directly to the International CBRNe Master website simply clicking on the blue titles of each news, would be a monthly appointment about the main news around International CBRNe Master Courses... and more!

Enjoy!!!

International CBRNe Master Courses

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[05.31.2018 - ABSTRACT SUBMISSION DEADLINE EXTENDED: IW CBRNe 2018](#)

It is a pleasure announce that the deadline for the abstract submission for the workshop "Countering radiological and nuclear threats" has been postponed to the 1st of July 2018. We do invite you to visit the workshop's website:

<https://sievertacademy.com/iw2018/> and submit your abstract or register to participate as attendees (the early registration option is still available).

We hope to see you in Rome next 8th of November 2018. ([read more](#))

[05.25.2018 - EDUCATION AND TRAINING CBRNE AWARENESS AND PREPAREDNESS](#)

It is a pleasure announce that the ninth book of the [CBRNe book series](#) has been published: **"EDUCATION AND TRAINING CBRNE AWARENESS AND PREPAREDNESS"** by: Sami Abdulla Alsaadi

Sami is a former student from the 1st Level #MasterCBRN, Officer of the Abu Dhabi Police, and this is the first time that a book is published as a consequence of a Master thesis.

Dear Sami, greetings from all the #MasterCBRN Directive Board!

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[05.24.2018 - Living with Chemicals: How to Prevent Their Use for Hostile Purposes and Mitigate Chemical Risks](#)

It is a pleasure announce the new publication:

[Ralf Trapp \(2017\). "Living with Chemicals: How to Prevent Their Use for Hostile Purposes and Mitigate Chemical Risks". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 357-383. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

[05.23.2018 - Alessandro Puleio graduated in Medical Biotechnology defending a thesis titled Study of dispersion and diffusion of pathogens and emerging and re-emerging diseases by numerical approaches.](#)

On Monday 14 of May, Alessandro Puleio, a student that works with the CBRNe Master courses (in the first cooperation between Faculties of Engineering and Medicine for an undergraduate student) graduated in Medical Biotechnology defending a thesis titled Study of dispersion and diffusion of pathogens and emerging and re-emerging diseases by numerical approaches.

The thesis was carried out at the Quantum Electronics and Plasma Physics Research Laboratory directed by Dr. Gaudio, under the supervision of ([read more](#))

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[05.22.2018 - Chemical Security Culture in an Insecure World: The Experience and Understanding of the Chemical Industry](#)

It is a pleasure announce the new publication:

[Timothy J. Scott, Carola Argiolas \(2017\). "Chemical Security Culture in an Insecure World: The Experience and Understanding of the Chemical Industry". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 345-356. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

[05.21.2018 - CBRN study and updating day – Meeting between the French cluster GIE DEFENSE NBC and the Italian authorities](#)

The 15 May 2018 took place a meeting between the French cluster GIE DEFENSE NBC and the Italian Authorities in Rieti at the Joint NBC school.

The purposes of the meeting were:

- To allow the French companies intervened to present their skills, developed within the French concept of CBRN defense, in terms of detection, collective protection, individual protection, decontamination and sanitary countermeasures ([read more](#)).

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[05.20.2018 - Combining Theoretical Education and Realistic, Practical Training: The Right Approach to Minimize CBRNe Risk](#)

It is a pleasure announce the new publication:

[Dieter Rothbacher \(2017\) "Combining Theoretical Education and Realistic, Practical Training: The Right Approach to Minimize CBRNe Risk". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 327-343. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

[05.19.2018 - 'We're Doomed!' a Critical Assessment of Risk Framing Around Chemical and Biological Weapons in the Twenty-First Century](#)

It is a pleasure announce the new publication: [Giulio Maria Mancini, James Revill \(2017\). "We're Doomed!' a Critical Assessment of Risk Framing Around Chemical and Biological Weapons in the Twenty-First Century". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 311-325. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

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[05.18.2018 - An interesting article: Abu Dhabi Police - New challenges on CBRNe](#)

Major Dr. Abdullah Al Hmoudi of the CBRN Unit, Abu Dhabi Police

The impacts and costs of hazards on people, properties, and the environment are often severe when they occur, especially when there's no warning system in place. The lack of an early warning system (EWS), and limited knowledge of the potential impact of hazard in some communities in the UAE have emphasized the need for more effective early warning systems. This paper examines the use of an innovation lab to improve understanding of the potential impacts of hazards, and as an EWS tool in the UAE.

[Click HERE to read the article](#)

[05.17.2018 - Meeting Growing Threats of Misuse of Toxic Chemicals: Building a Global Chemical Safety and Security Architecture and Promoting International Cooperation](#)

It is a pleasure announce the new publication: [Krzysztof Paturej, Pang Guanglian \(2017\). "Meeting Growing Threats of Misuse of Toxic Chemicals: Building a Global Chemical Safety and Security Architecture and Promoting International Cooperation". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 289-309. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

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[05.16.2018 - A video about the Chemical Module, 23-28 April 2018](#)

Here a video about the activities done during the chemical module (23-28 April 2018) of the second level master course.

Click on the image below to see the video:



You can find a beautiful video of the activities with the drone regarding the activities organized by the Italian National Authority in collaboration with the NBC School of Rieti at the Scuola Forestale Carabinieri of Rieti. In this occasion, the Heli Protection Europe Srl, leader of drone use in Italy, has demonstrated the capability of the drone to flight a contaminated area transporting detectors for chemical contamination (provided by BMD spa) and radiological contamination (provided by CAEN SyS). It has been a unique opportunity for the class to verify with a real training the potentialities of drone in a CBRNe scenario.



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[05.15.2018 - Migration and Terrorism: A New Approach to Consider the Threat](#)

It is a pleasure announce the new publication:

[Orlando Cenciarelli, Sandro Mancinelli, Gian Marco Ludovici, Leonardo Palombi \(2017\). "Migration and Terrorism: A New Approach to Consider the Threat". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 277-287. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

[05.12.2018 - Multidisciplinary DSS as Preventive Tools in Case of CBRNe Dispersion and Diffusion: Part 1: A Brief Overview of the State of the Art and an Example – Review](#)

It is a pleasure announce the new publication: [Jean-François Ciparisse, Roberto Melli, Riccardo Rossi, Enrico Sciubba \(2017\). "Multidisciplinary DSS as Preventive Tools in Case of CBRNe Dispersion and Diffusion: Part 1: A Brief Overview of the State of the Art and an Example – Review". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 257-275. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

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05.11.2018 - New lecturers in the didactic board

It is a pleasure present the new lecturers of the International Master Courses in Protection against CBRNe events:

From OPCW:

- Guy Valente
- Katarina Grolmusova
- Albert Kireev

From CAEN sys

- Andrea Pepperosa

From Heli Protection Europe

- Vittorio Massetti
- Elisa Tognaccini
- Stefano Bianchetti
- Timoty Monducci
- Andrea Di Rienzo
- Simone Grandi
- Jan Tawfik Henawy

The Directive Board of the #CBRNMaster welcome you on board. For further details on the lecturers please visit the following link:

<http://www.mastercbrn.com/page/41/didactic-board/>

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05.10.2018 - Preventing Nuclear Terrorism: Addressing Policy Gaps and Challenges

It is a pleasure announce the new publication:

Kenneth Luongo (2017). "Preventing Nuclear Terrorism: Addressing Policy Gaps and Challenges". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series (TESECO.), pag. 235-256. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.

05.08.2018 - Bio-risk Management Culture: Concept, Model, Assessment

It is a pleasure announce the new publication:

Igor Khripunov, Nikita Smidovich, Danielle Megan Williams (2017). "Bio-risk Management Culture: Concept, Model, Assessment". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series (TESECO.), pag. 199-234. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.

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05.07.2018 - 157 ANNIVERSARIO COSTITUZIONE ESERCITO ITALIANO

Gentili colleghe e colleghi,

Venerdì 4 Maggio 2018 una delegazione degli #MasterCBRN ha partecipato al 157 anniversario della costituzione dell'Esercito Italiano.

E' un onore per noi collaborare con voi.

Il Direttivo dei Master Internazionali in Protezione da Eventi CBRNe



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[05.05.2018 - Laser Based Standoff Techniques: A Review on Old and New Perspective for Chemical Detection and Identification](#)

It is a pleasure announce the new paper:

[Pasqualino Gaudio \(2017\). "Laser Based Standoff Techniques: A Review on Old and New Perspective for Chemical Detection and Identification". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 155-177. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

[05.04.2018 - IInd Level Master Course - Module 4: Management of Chemical Releases Scenarios](#)

It is a pleasure announce that last week has been concluded the module about the Management of Chemical Releases Scenarios. The aim of the module is to provide the students with a comprehensive overview of current and emerging chemical hazard, risks and threats within the context of international policies response measures and capabilities to face possible releases of chemical agents.

The module has been held by OPCW experts under the umbrella of the MoU between OPCW and University of Rome Tor Vergata in the aim of the BRNe Master activities. It has been possible thanks to the intervention and cooperation of the Italian National Authority. ([read more](#))

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[05.03.2018 - Radiological and Nuclear Events: Challenges, Countermeasures and Future Perspectives](#)

It is a pleasure announce the new paper:

[Marco D'Arienzo, Massimo Pinto, Sandro Sandri, Raffaele Zagarella \(2017\). Radiological and Nuclear Events: Challenges, Countermeasures and Future Perspectives. Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 129-154. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

[05.02.2018 - A Fresh Approach: Review of the Production Development of the CBRN/HAZMAT Equipment](#)

It is a pleasure announce the new publication:

[Boban Cekovic, Dieter Rothbacher \(2017\). "A Fresh Approach: Review of the Production Development of the CBRN/HAZMAT Equipment". Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges: Threats and Counter Effort Springer International Publishing AG, as part of the Part of the Terrorism, Security, and Computation book series \(TESECO.\), pag. 91-128. Guest editors: Maurizio Martellini, Andrea Malizia. DOI: <https://doi.org/10.1007/978-3-319-62108-1> ; Print ISBN: 978-3-319-62107-4; Online ISBN: 978-3-319-62108-1; Series Print ISSN: 2197-8778; Series Online ISSN: 2197-8786.](#)

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