



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!!!

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03.01.2018 - The First FIRE-IN Project Thematic Group Workshops

Dear Colleagues

From the 14 to the 16 February 2018 took place the 1st First FIRE-IN project CBRNE Thematic Working Group Workshop in Rome at the Istituto Superiore Antincendi.

During the workshop, 13th of Experts from Fire Brigades, Fire Training facilities, Civil protection authorities in the field of CBRNE around of Europe (CZ, FR, GE, GR, PL, SP, IT) have discussed the Common Capability Challenges in the frame of CBRNE accidents.

Dr. Daniele Di Giovanni (member of the didactic board of the International Master Courses in *Protection Against CBRNe Events*) participated as an observer, representing the H2020 #eNOTICE project (#MasterCBRN are a partner of the project, the scientific supervisor of the Project for the University of Rome Tor Vergata). (link: <https://www.h2020-enotice.eu/>)

The activity took place in Rome (Italy), at the Istituto Superiore Antincendio and it had the main issue of searching Common Capability Challenges in frame of CBRNE accidents, in order to get his target two scenarios have been used: Accident of chemical substances during their transport at a place with the occurrence of persons and Use of CBRNE substances in a terrorist attack.

This first workshop conclusion will be distributed to all FIRE-IN community (join the community at <http://enquetes.ensosp.fr/Fire-In-Project/Ethnos.dll>).

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02.28.2018 - GIORNATA DI STUDIO - I DRIVER DELL'ECO INNOVAZIONE: GREEN ECONOMY, ECONOMIA CIRCOLARE E POLITICHE ENERGETICHE

L'incontro I driver dell'eco innovazione: green economy, economia circolare e politiche energetiche si è tenuto ieri 27 Febbraio 2017 a Milano affrontando i temi che sono al centro dell'interesse del mondo produttivo a livello mondiale. Questo perché il settore energetico, che è un aspetto centrale della green economy, è protagonista di una profonda trasformazione, guidata in parte dalle politiche climatiche e in parte dalle evoluzioni delle tecnologie e del mercato. Il principale segnale di questa trasformazione è rappresentato dallo spostamento degli investimenti verso nuove forme di produzione energetica a basse emissioni e verso interventi per l'efficienza energetica e la mobilità sostenibile.

L'Unione Europea stabilisce un quadro comune di misure per ridurre la dipendenza dal petrolio e attenuare l'impatto ambientale dei trasporti, promuovendo l'utilizzo di combustibili alternativi; tra questi l'idrogeno assumerà un ruolo sempre più rilevante nei prossimi anni.

E' intervenuto il Presidente del Gruppo #Sapio (#PremioSapio) #Dr.Alberto #Dossi, il nostro coordinatore didattico Dr. Andrea Malizia insieme a:

- *Mario Nova, Direttore Generale Ambiente, Regione Lombardia
Le azioni regionali per l'energia e l'economia circolare*
- *On Flavio Zanonato - Parlamentare europeo - Commissione per l'industria, la ricerca e l'energia
Investire sull'efficienza energetica: la Governance della UE*

(...[read more](#)...)

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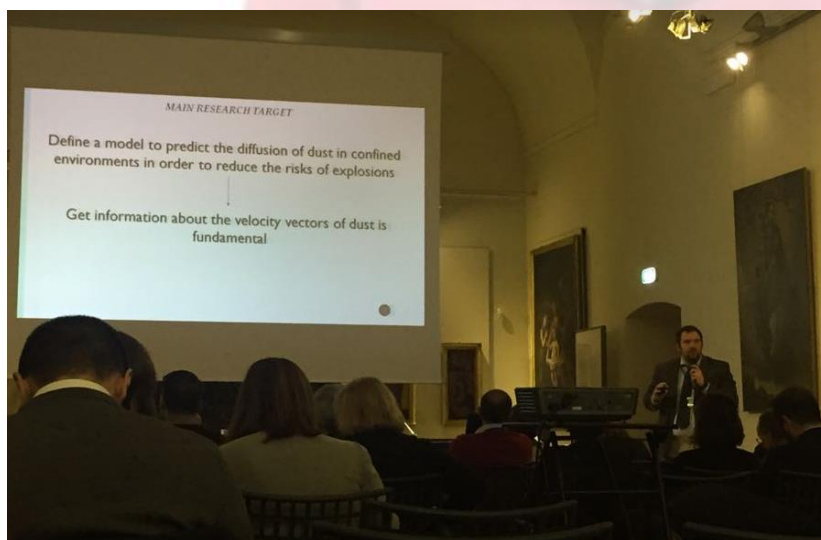
02.27.2018 - 4th National Meeting on Sensors

It is a pleasure announce that the 4th annual meeting on sensors has been held in Catania (Italy) from the 21 to the 23 of February 2018.

The CBRNe Directive Board has participated with a work realized by Andrea Malizia and Riccardo Rossi entitled: **"Analyses and Comparisons of the Feature Matching and Lucas Kanade Algorithms to Elaborate Images of Dust in Order to Measure its Velocity Vectors"**.

The meeting has been also an occasion to meet the colleagues and visit the wonderful city of Catania.

Here the link to the conference's web-site: <http://www.cns2018.it/>



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[02.22.2018 - Second Joint Activity of the H2020 project](#)

[#eNOTICE](#)

Dr. Mariachiara Carestia, represented the University of Rome Tor Vergata and the International Master Courses in *Protection Against CBRNe Events* (*#MasterCBRN*), during the second Joint Activity of the H2020 project *#eNOTICE* (*#MasterCBRN* are a partner of the project, the scientific supervisor of the Project for the University of Rome Tor Vergata is Dr. Daniele Di Giovanni). (link: <https://www.h2020-enotice.eu/>)

The activity took place in Nimes, France, on the 30th of January.

During Nimes, joint activity, organized by *#ARMINES* and *#METU*, a massive arrival of victims after a CBRNE scenario was performed at Nimes Hospital (...[read more...](#))



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[02.21.2018 - II Edition of II Level Master course 2016/2017: Last group of thesis discussion](#)

Dear Colleagues,

It is a pleasure announce that yesterday 20 February 2017 the last group of the Ist Level #MasterCBRN course (IInd Edition) has concluded the thesis discussion.

It has been interesting see how the knowledge and skills acquired in the course have been used by the candidates to develop their thesis.

Giada Bellanca that has worked in the refugees' camps in Bangladesh and has faced several biological emergencies, Ahmed Gamal that has improved the course with interesting proposals and projects born from its experience, Hassan Alemadi that has focused the attention on the important aspects of the phycological problem in case of emergencies, Roberto Bonfiglio that has approached the risk analysis of a chemical plants with an innovative software and Ermanno Vecchi that has explained the approach of Italian Defence into the NATO organization.

The Directive Board want to thank you for this amazing journey with the hope to continue the collaboration in the future.

Greetings to all of you

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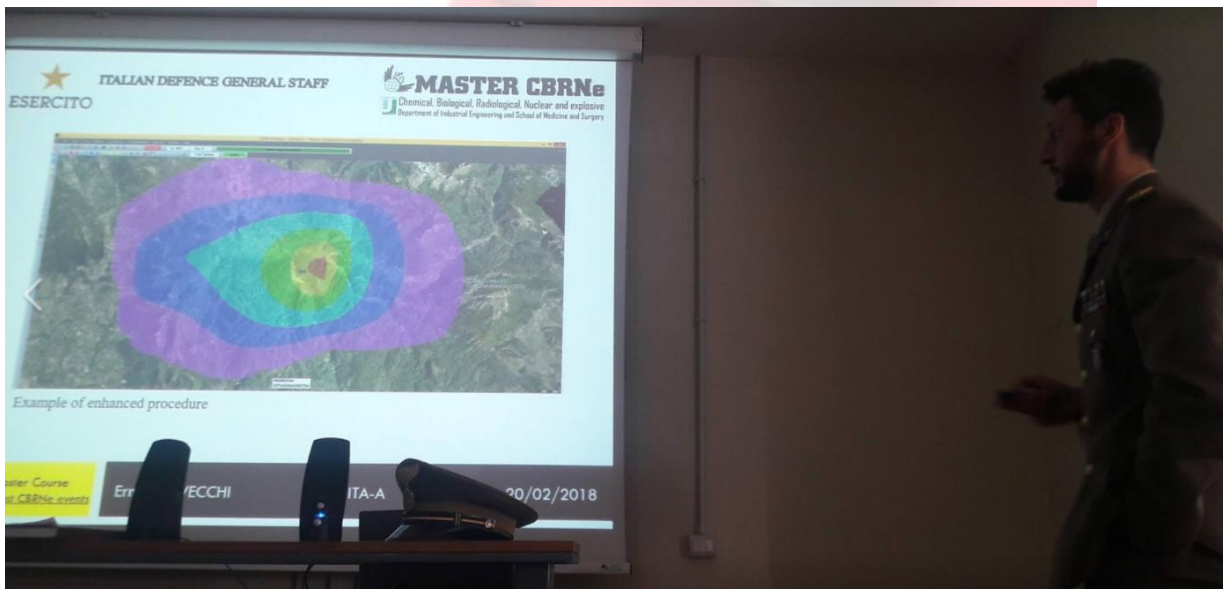
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[02.20.2018 - An interview to our Didactic Coordinator - Andrea Malizia](#)

Dear colleagues,

here an interview on Rai Play Radio - VOCI DAL MONDO to our Didactic Coordinator - Andrea Malizia about the importance of the didactic and training on CBRNe in this particular period.

<http://www.raisplayradio.it/audio/2018/02/VOCI-DAL-MONDO-f529184d-4155-4c06-9a1f-06355888f609.html>

I giochi olimpici invernali potrebbero aprire il dialogo tra il presidente nordcoreano Kim Jon Un e il mondo. C'è molto scetticismo.

La diffidenza di Seoul nei confronti del dittatore Kim. L'analisi di Cheong Seong Whum, ricercatore dell'Asean Institute di Seoul intervistato da Enzo Arceri

Instant book. Kim Jong Un, il nemico necessario, di Loretta Napoleoni, edito da Rizzoli. Francesco Mincone ha incontrato l'autrice

Corriere diplomatico. Siria. Gli sforzi diplomatici e i nuovi scenari di conflitto. Il corrispondente Sergio Pains ne ha parlato con l'inviato dell'Onu per la Siria, Staffan De Mistura.

Il pericolo armi chimiche. L'analisi di Andrea Malizia coordinatore didattico Master in Eventi chimici, biologici radiologici e Nucleari, università di Tor Vergata intervistato da Patrizia Alberici

Il giacimento di Zohr, gioiello dell'Eni in acque egiziane, inaugurato giorni fa dall'amministratore Claudio De Scalzi. Lo ha visitato il corrispondente Giuseppe Bonavolontà.

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[02.15.2018 - Dr. Muhammad Athar Javed](#)

Dear colleagues, It is a pleasure announce that Dr. **Muhammad Athar Javed** is a new member of the Didactic Board. His Areas of Expertise are: Pak-US relations, Middle East, Gulf and Asia - National Security, Sub-Conventional Warfare, Counter Terrorism, Counter Radicalization and Counter Violent Extremism (CVE), Perception management/Lobbying, Ideological Positions of Clergy, Counter-Chemical, terrorism and Nuclear Studies.

He will start with two interesting lectures in March.

Here you can download the [full resume](#)

[02.14.2018 - 1st Level Master course thesis discussion - A.Y. 2016/2017](#)

It is a great pleasure announce that the 2016/2017 class of the first Level Master Course in Protection Against CBRNe events (#MasterCBRN) is going to complete the final thesis discussion. The 14 of February 2017 we had the discussion of the thesis "**Numerical Fluid Dynamics Simulations applied to commercial drones for stand-off chemical detection**" has been discussed by Lt. Col. Fabio Marturano from Italian Air Force.

It has been an amazing work with an interesting approach to face the problem of chemical detection in the atmosphere using drones. Lt. Col. Marturano, with the support of the [QEP Research Group](#) and the scientific supervision of Dr. Jean François Ciparisse (expert in fluid dynamics), has realized an interesting method to evaluate the performance of a drone to flight (with a C detector) in a contaminated area with the use of the COMSOL Multiphysics code. ([...read more...](#))

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[02.06.2018 – Training activities at Scuola Centrale Antincendi](#)

Dear colleagues,

Here an interesting video about the activities of the students of the first level #MasterCBRN at the "Scuola Centrale Antincendi" at Capannelle under the coordination of the Italian Fire Brigades, Ministry of Interior. The First Level is devoted to the first responders so the practical activities are essential for them.

We want to thank again Ing. Emilio Ochiuzzi and all his staff for the wonderful work.

[VIDEO](#)



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