



# NEWSLETTER

## Master CBRNe

Admissions open Academic Year 2017-18

**1<sup>st</sup> Level**

Master Course

[CLICK HERE](#)

**2<sup>nd</sup> Level**

Master Course

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# 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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## Click & Read N° 33-34-35 - Feb-Mar-May 2017

### [06.01.2017 - Seminar of Prof. \(Adj.\) Parag Chatterjee](#)

We had the pleasure to have for 10 days Parag Chatterjee, Adjunct Professor at Universidad Tecnológica Nacional and experts of Internet of Things.

Prof. Chatterjee show to an interest group of researchers (engineers, physicists and biologists) together with students coming from University the potentialities of the Internet of Things and its several applications especially dedicated to the healthcare that is its own expertise.

The seminar has been host by the CBRNe group (Faculty of Engineering and Medicine and Surgery) and it has been an interesting occasion to cross expert in sensors, epidemics and big data analysis under the umbrella of IoT.

We want to thank Prof. Chatterjee for this interesting chance, we are glad to have you at University of Rome Tor Vergata.

See more pics on our social networks.



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### [05.29.2017 - Curbanismo. La curva del crimine nell'urbanesimo](#)

We are glad to say that Friday 26 of May 2017 the book "[Curbanismo. La curva del crimine nell'urbanesimo](#)" by [Romina Fucà](#) (5<sup>th</sup> book of the CBRNe Book Series in cooperation with Aracne).

The book has been presented in Agrigento with the presence of the major of Agrigento On. Calogero Firetto. Greetings from the CBRNe Master staff to Romina for this wonderful work.

### [05.21.2017 - I Level Master Class at ICI - International CBRNe Institute](#)

The students of the First Level Master Course Friday have completed the second week of training activities moving from the Czech Republic to Belgium at the [ICI - International CBRNe Institute](#). The ICI's primary aim is to enhance CBRNE risk mitigation at regional, national and international levels, in particular through its two Knowledge Centres (CBRN & E). The ICI engages in a wide range of CBRNE-related activities including developing and supporting academic and policy-related research, organizing conferences, seminars, and workshops, as well as professional development programs for responders by means of courses and master classes.

The students spent the week between classroom activities, a scientific conference, and training activities. We want to thank Dieter Rothbacher and Yves Dubuq for the wonderful organization.

Too see more pictures visit our social channels.

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## [05.14.2017 - I Level Master Class at NATO Centre of Excellence \(COE\) JCBRNe in Vyskov](#)

We are glad to announce that Friday 12 of May 2017 the 1st Level Master Class has successfully completed the International Radiological Assistance Program Training for Emergency Response RAPTER - Basic Course 2017 in the NATO Centre of Excellence (COE) JCBRNe in Vyskov (Czech Republic)

The aim of this course is to provide, radiation protection specialists, first responders, law enforcement, and emergency managers with practical information to effectively respond to radiological incidents and accidents. The course provides instruction through briefings, equipment demonstrations and field exercises employing a wide variety of radiation detection instrumentation, radiation sources, and personal protective equipment ([read more...](#))

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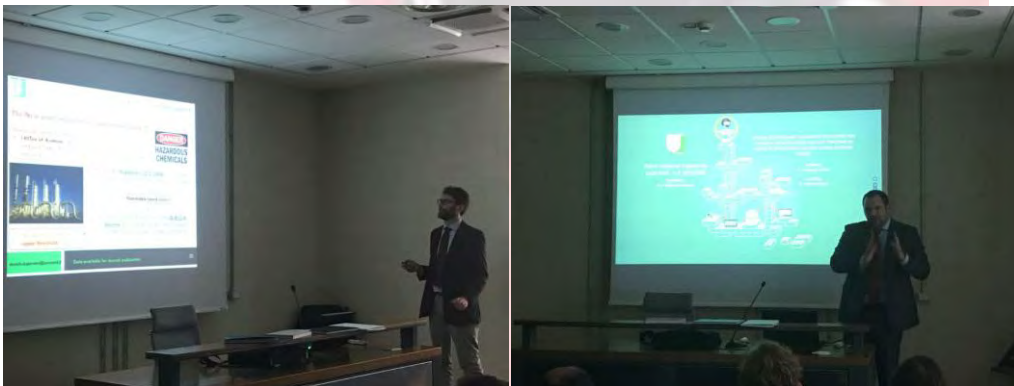
## Click & Read N° 33-34-35 - Feb-Mar-May 2017

### 05.01.2017 - PhD got from Master Directive Board members

We are glad to announce that Dr. Daniele Di Giovanni and Dr. Andrea Malizia have completed the PhD in Industrial Engineering both with an evaluation of excellent cum laude.

Daniele and Andrea are both members of the Directive Board of the International Master Course in Protection against CBRNe events.

Greetings from us guys!! WELL DONE!!



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### [04.29.2017 - Good by Prof. Martellucci, thank you for everything](#)

We do regret to inform all our friends and colleague that yesterday Prof. Sergio Martellucci passed away. He has founded, together with Prof. Bellecci, the Quantum Electronics and Plasma Physics Research Group.

Thanks to Prof. Martellucci important achievement, like the construction of the first laser in Italy, have been achieved and thanks to him hundreds of young boys and girl (including me that I am writing this sad new) growth up from a human and professional point of view and have been able to find a realization in the difficult world of work. We want to remember not only the excellent Professor and Researcher that he was but also the wonderful man that he has been, day by day, with everybody.

### [04.13.2017 - CBRNe Master Thesis discussion for the advanced course](#)

The 12<sup>th</sup> of April 2017 has been completed the first session for the thesis discussion of the second level Master Courses. Dr. Alba Iannotti has completed the Master Course defending a thesis entitled:

**“GAME THEORY APPLICATION TO CHEMICAL MAXI-EMERGENCY SITUATION: THE CASE STUDY OF CHEMICAL WEAPONS TRANSLOAD-ING FROM SYRIA TO GIOIA TAURO”.**

The work was about the possibility to use game theory to reduce the risk during maxi emergency events like the one of CWA trans-loading of weapons from Syria. Greeting to Alba from the Directive Board.

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### 04.12.2017- Master CBRNe @ forum Alitur

We are glad to announce that yesterday the CBRNe Master Courses were at ALITUR forum.

ALITUR organizes every year a forum to let the students that are completing (or have already completed) the Master degree, meet the companies and the organizations that are organizing post-graduate courses like the CBRNe Master courses.

We are participating every year and we are very grateful to the ALITUR to let the students meet us in a such a competitive and interesting environment.

A special thank to **Valentina Gabbarini**, **Alba Iannotti** and **Riccardo Rossi** that spent the entire day in our stand! GRAZIE RAGAZZI!



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### 04.10.2017 - Table Top Exercises for the 2nd Level Master Course

Three days Table Top Exercise (TTX) took place on the 05<sup>th</sup> and 07<sup>th</sup> of April at the University of Rome Tor Vergata, in the framework of the training activities of the 2<sup>nd</sup> level international Master course. The TTX has been organized in collaboration with the Department of Firefighters, Public Rescue and Civil Defense of the Ministry of Interiors. It aimed at assessing the operational responsiveness of Master students in fictional CBRNe scenarios.

The Directive Board wants to thank the Ministry of Interior, in particular, Arch. Giovanni Ferrari and Dr. Ferruccio Di Paolo who also this year are working on the final TTX. The students of the 7<sup>th</sup> edition of the second level Master Course worked hard on the TTX that will be (together with the final thesis) an important part of the final evaluation. Special thanks to **Mariachiara Carestia** and **Daniele Di Giovanni**, our Didactic Management members who every year take care of this activity.

You can enjoy some pictures in the gallery!!!



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### 04.07.2017 - NEW SCIENTIFIC PAPER PUBLISHED!

It is a great pleasure announce that the scientific paper:

#### Application of Optical Techniques to Detect Chemical and Biological Agents

it has been published on the Defence S&T Technical Bulletin, VOL. 10 NUM. 1 YEAR 2017 ISSN 1985-6571, pages 1-13 by: Gaudio Pasqualino, Gelfusa Michela, Murari Andrea, Pizzoferrato Roberto, Carestia Mariachiara, Cenciarelli Orlando, Parracino Stefano, Ludovici Gianmarco, Gabriele Jessica, Gabbarini Valentina, Di Giovanni Daniele, Rossi Riccardo, Jean Francois Ciparisse, Carlo Bellecci & Andrea Malizia.

The full paper list is available: [HERE](#)

### 03.15.2017 - NEW SCIENTIFIC PAPER PUBLISHED!

We are glad to announce that the paper:

#### A Computational Fluid Dynamics Simulation of Anthrax Diffusion in a Subway Station

by Jean-François Ciparisse, Orlando Cenciarelli, Sandro Mancinelli, Gian Marco Ludovici, Andrea Malizia, Mariachiara Carestia, Daniele Di Giovanni, Carlo Bellecci, Leonardo Palombi and Pasquale Gaudio

has been published in the International Journal of Mathematical Models and Methods in Applied Sciences, indexed on SCOPUS.

This is another great success of the QEPM Research Group and the CBRNe Master Courses.

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### [03.07.2017 - Italian Coast Guard module](#)

On Monday 06/03/2017, Captain Giuseppe Famà, of the Italian Coast Guard Headquarters, did a lecture about the tasks and functions of the Italian Coast Guard. He also introduced the Italian fleet and its tasks.

The main focus of the lecture was on S&R (search and rescue) and the migration emergency. The Captain explained the legal framework, the main problems, the operational phases and the Italian scenario.

International and national regulations were introduced and the role of the UN International Marine Organization (IMO) was explained ([read more...](#)).



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### [02.21.2017 - New Scientific Paper Published](#)

We are glad to communicate that the article:

**3D numerical simulations of a LOVA reproduction inside the new facility STARDUST-UPGRADE**

has been published by J.F. Ciparisse, A. Malizia, L.A. Poggi, F. Tieri, M. Gelfusa, A. Murari, C. Del Papa, I. Giovannangeli and P. Gaudio in the Journal of Instrumentation, Volume 12, February 2017 (C02001)

The title is index on SCOPUS. All the papers are available [HERE](#).

### [02.20.2016 - New Scientific Paper Published](#)

We are glad to announce that the paper:

**A Novel Facility to Investigate Dust Mobilization in Confined Environments with Applications to the Security of the Pharmaceutical Industry**

has been published by A. Malizia, M. Gelfusa, A. Murari, M. Richetta, J.F. Ciparisse, L.A. Poggi, M. Lungaroni, P. Gaudio on Materials Science Forum, Vol. 879, pp. 1213-1219, 2017

This paper open a new section on our Papers repository, the one dedicated to **explosive risks**. The title is index on Scopus. You can find all the paper [HERE](#).

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### 02.11.2017 - CEPOL Training for new Framework Partners' on 8 Feb 2017 in Budapest

On 8 February 2017, Dr. Daniele Di Giovanni, as member of the CBRNe Masters Directive unit, participated to a training session organised by CEPOL, in its headquarter in Budapest.

This activity was organized for the new Framework partners, whose course proposal for 2016-2017 have obtained a grant. The training focused on how to organise a CEPOL training activity. The didactic board of the CBRNe Masters wants to take this opportunity to thank the staff of CEPOL, for the willingness and the valuable information provided.

These certainly allow to successfully organize the courses Hotspot - Regional Focus on migration (which will take place between late June and early July); Management of emergency situations (to be held in October). The courses will be taught in English, they will be held by international experts in these areas. Participants will be members of all the national institutions of law enforcement.



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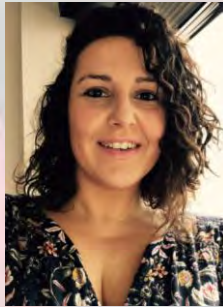
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[02.09.2017 - Student of the CBRNe Master Course winner a grant](#)



**Human Resources Management as a key factor for organizational Effectiveness, Efficiency, Empowerment.**

With this project title **Alba Iannotti**, student of the second level Master Course, present a research program about Human Resources Management and won a grant in the program funded by "Regione Lazio" called "Torno Subito".

The project is divided in two phases:

- 1) **A Master in Human Resource Management** in Philadelphia (USA) organized by **EYES Italia** and **The Italy-America Business Council and Network — or IABCN**.
- 2) After the Course she will have the chance to have a 6 weeks of experience in a public or private entity.

Actually she is completing phase 1. Greetings from the Directive Board Alba!!!!

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### 02.02.2017 - CBRNE MASTER COURSES AWARDED EU H2020 GRANT



The [University of Rome Tor Vergata](#) in the aim of the activities of the **International Master courses in protection against CBRNe** events has been awarded with a grant in the framework of the **Horizon 2020 program of the European Commission**.

The project is called **eNOTICE European Network Of CBRN Training Centers**

**Horizon 2020 SEC-21–GM-2016-2017 topic:** Pan European Networks of practitioners and other actors in the field of security, part c) “Entities from around Europe that manage demonstration and testing sites, training facilities, including simulators or serious gaming platforms in the area of CBRN”.

[Prof. Leonardo Palombi](#) ([Department of Biomedicine and Prevention](#)) directs the International Master Courses in “Protection against CBRNe”. [Dr. Pasquale Gaudio](#) ([Department of Industrial Engineering](#)) coordinates the Master Courses and [Dr. Andrea Malizia](#) ([Department of Biomedicine and Prevention](#)) ([read more...](#))

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### [01.31.2017 - Riccardo Quaranta welcome on board!!](#)

CBRNe Master courses are glad to welcome Dr. Riccardo Quaranta. Riccardo is a talented researcher and teacher that has completed the first edition of our II Level Master course and then he had interesting work experiences worldwide. Riccardo will be involved in all the CBRNe Master activities and the CBRNe related ones.

Riccardo Quaranta holds a Master's degree in Environmental Engineering from the University of Rome Tor Vergata. He attended successfully the first edition of the 2nd Level International Master Course in "Protection against CBRNE events" in 2010. At the same time, he cooperated with the Quantum Electronics and Plasma Physics Research Group of the Industrial Engineering Department of the University of Rome Tor Vergata. During this period, he took part in research activities in the field of numerical simulations applied to the safety of experimental nuclear fusion facilities and CBRNe safety. He co-authored several scientific papers published on Italian and international journals and presented the work of the group at international conferences, on behalf of the University of Rome Tor Vergata.



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### [01.27.2017 - Claudia Marchionni @ Master CBRNe Master Courses](#)

Master CBRNe are pleased and honoured to have on the [Didactic Board](#) of the International Master Courses in Protection against CBRNe events **Dr. Claudia Marchionni**

Dr. Claudia Marchionni is a professional journalist, reporter and editor for Italian Television. She has been editor in chief for [TG5](#) and actually she his editor in chief for [Matrix](#). She worked also for [Il resto del Carlino](#) , [La Voce](#), [Mixer](#), [Corriere del Mezzogiorno](#). She works also with [Marie Claire](#) e [D - la Repubblica delle Donne](#).

Today Dr. Claudia Marchionni had an interesting lecture on communication and how to communicate during the emergency. To see more pictures visit our facebook official page.

The classes have been both involved in the lecture of Dr. Marchionni and have actively participated to the lecture. [Click here](#) to see the interview to Claudia Marchionni



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### [01.26.2017 - I Level Master CBRNe @ RASET](#)

RASET the most important company that organize training courses on investigation has hosted today the students of the I Level Master class.

Finger-prints analysis, investigation technologies and techniques and even more has been learned by the experts of RASET to our first Level Master Courses students.

You can find some images of the gallery and all the album on our facebook page, the images can tell more than the words.

Thanks RASET



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