

Presentation of the CBRNe Master Courses

**CBRNe Directive Board
University of Rome Tor Vergata**



1st Level and 2nd Master Courses

CBRNe Master Courses

2015/2016 - 2016/2017

[Read More](#)

OPEN THE APPLICATION FOR BOTH COURSES FOR ACADEMIC
YEARS 2015/2016 - 2016/2017

[NATO SELECTED](#)

[OPCW AGREEMENT](#)



IW CBRNe 2015
Villa Mondragone, Rome
20/11/2015

www.mastercbrn.com

**PRESENTATION OF THE
CBRNe MASTER COURSES**

DIRECTIVE BOARD

HEAD OF SCHOOL OF MEDICINE & SURGERY: PROF. ORAZIO SCHILLACI

HEAD OF DEP. OF INDUSTRIAL ENGINEERING: PROF. MARCO GAMBINI

COURSES DIRECTOR: PROF. LEONARDO PALOMBI

COURSES COORDINATOR: DR. PASQUALE GAUDIO

PRESIDENT OF SCIENTIFIC BOARD: PROF. CARLO BELLECCI

STAFF MEMBERS 2015/2016

Prof. Sandro Mancinelli, Dr. Andrea Malizia, Dr. Fabrizio D'Amico, Dr. Paolo Maurizio Soave, Dr. Dieter Rothbacher, Dr. Francesco Gilardi, Dr. Mariachiara Carestia, Dr. Daniele Di Giovanni, Dr. Orlando Cenciarelli, Dr. Alessandro Sassolini, Dr. Colomba Russo, Dr. Valentina Gabbarini, Dr. Patrizia Vannicelli.

SCIENTIFIC BOARD

See www.mastercbrn.com

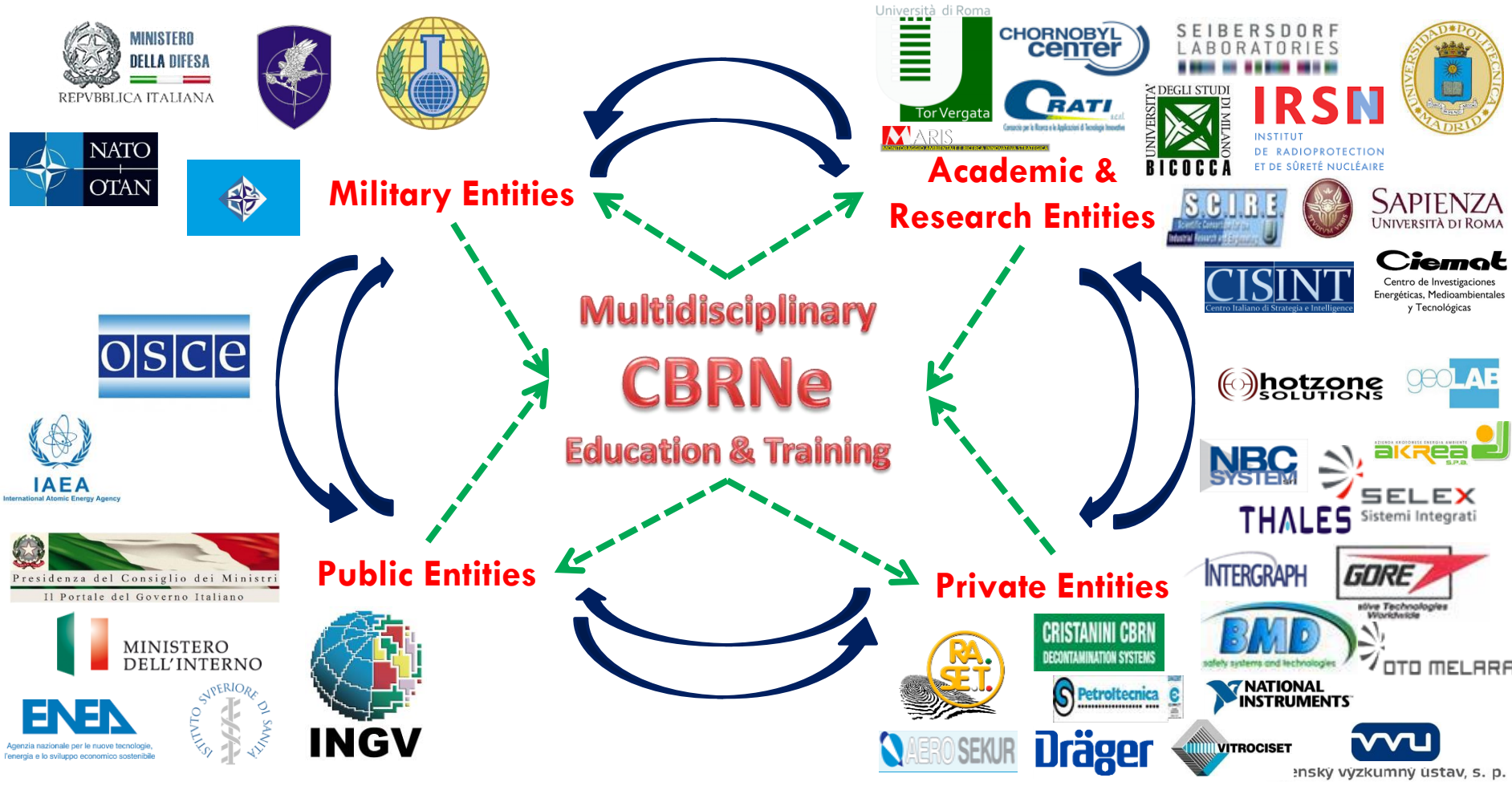
IW CBRNe 2015

**Faculty of
Medicine and
Surgery**



**Department of
Industrial
Engineering**

IW CBRNe 2015



Both Master Courses have been granted with the **NATO SELECTED** status by the **NATO HQ SACT** (Supreme Allied Commander Transformation – Norfolk, Virginia, USA).

The Tor Vergata University has signed a **Cooperation Agreement** with the **OPCW** (Organization for the prohibition of Chemical Weapons), which support the **Master Courses**.

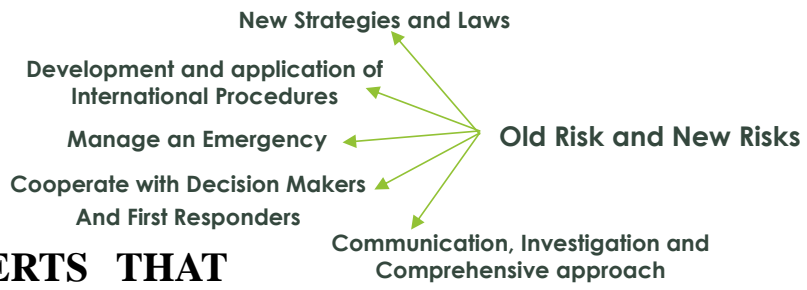
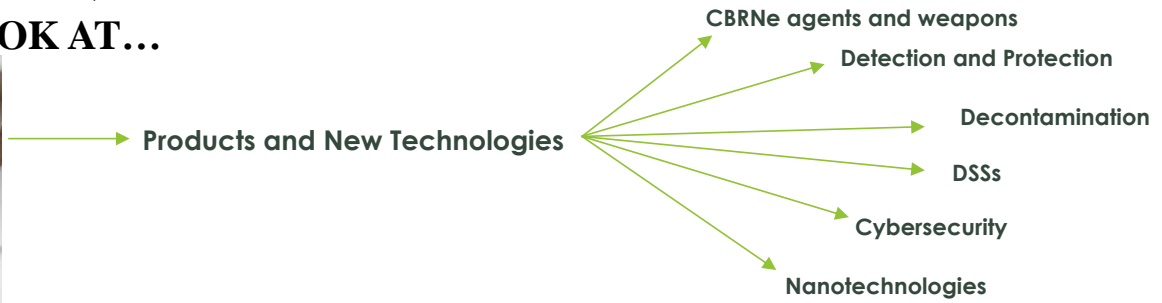


As it is stated in the **OPCW Press Release**,

“It is the first such agreement the OPCW has made with a university in this field”

(https://www.opcw.org/index.php?id=242&tx_ttnews%5Btt_news%5D=1719&cHash=a51e455b9203696a4d17771ae5282b11)

1) IT IS IMPORTANT HAVE EXPERTS THAT LOOK AT...



2) .. AND ALSO EXPERTS THAT LOOK AT...



3) .. AND EXPERTS THAT ARE ABLE TO FACE THE..



VISION

Need



IDEA : 2 POST GRADUATE COURSES IN CBRNe

PROJECT
SINERGY BETWEEN ENTITIES

PRODUCTS
2 MASTER COURSES IN "PROTECTION AGAINST CBRNe EVENTS"
BEGINNING MARCH 2016

- 1st Level Course**
- 120 ECTS → 2 Academic Years
 - Practical Preparation
 - Training activities:
 - ✓ JCBRNE COE NATO (Vyskov)
 - ✓ NBC School of Rieti (Italy)
 - ✓ VVU (Czech Rep.)
 - ✓ Seiesdoorf Laboratories (Austria)
 - ✓ Chornobyl Center (Ukraine)

- 2nd Level Course**
- 60 ECTS → 1 Academic Year
 - Theoretical Preparation - Management
 - Training activities:
 - ✓ NATO SCHOOL (Oberammergau)

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Requirements

Requirements: Bachelor Degree or Equivalent title in Engineering, Science, Medicine, Biology, Chemistry, Physics, Law, Politic Science, Strategic Science, Journalism or similar (contact: info@mastercbrn.it)

Requirements: Master Degree or Equivalent title in Engineering, Science, Medicine, Biology, Chemistry, Physics, Law, Politic Science, Strategic Science, Journalism or similar (contact: info@mastercbrn.it)



1st Level Course
120 ECTS – 2 YEARS

2nd Level Course
60 ECTS – 1 YEAR

(European Credit Transfer System)

(European Credit Transfer System)

OFFICIAL ACADEMIC TITLE
RECOGNIZED BY
“BOLOGNA PROCESS”



ALLOW ACCES to 2nd Level Course

ALLOW ACCES to PhD Programs in
Safety & Security

I LEVEL MASTER COURSE IN PROTECTION AGAINST CBRNe EVENTS 2015-2017 (120 ECTS) CBRNe First Responders

MODULE 1 - INTRODUCTION TO CBRNE RISKS-THE POINT OF VIEW OF A FIRST RESPONDER (1 week) - University of Rome Tor Vergata

MODULE 2- RADIOLOGICAL-NUCLEAR EVENTS (1 week) - University of Rome Tor Vergata

MODULE 3- BIOLOGICAL- (1 week) - University of Rome Tor Vergata

MODULE 4 - CHEMICAL - eXPLOSIVE - (1 week) - University of Rome Tor Vergata

MODULE 5- DETECTION, PROTECTION AND DECONTAMINATION - (1 week) - University of Rome Tor Vergata

MODULE 6 - MEDICAL FIRST AID - (1 week) - University of Rome Tor Vergata

MODULE 7 - DSS, Software- (1 week) - University of Rome Tor Vergata

MODULE 8 - Investigation, Communication and Psychology- (1 week) - University of Rome Tor Vergata

MODULE 9 - - Laboratory activities (1 week)

MODULE 10 - TRAINING AT JCBRNE COE - (1 week) - Vyskov (Czech Republic)

MODULE 11 - TRAINING AT NBC SCHOOL OF RIETI - (1 week) - Rieti (Italy)

MODULE 12 - VVU + SEIBERSDORF - (1 week) - Vyskov (Czech Republic) + Vienna (Austria)

MODULE 13- Training activities for detection, decontamination and protection (1 week)

MODULE 14- Traing in Chernobyl Center, (1 week) Ukraine

STAGE

FINAL THESIS - The students together with the final thesis delivery will have a 2-3 days Table Top Exercise that together with the thesis and the marks of the exams, the stage laboratory activities and training activities will give a final evaluation for each of them

**1° level
program**

II LEVEL MASTER COURSE IN PROTECTION AGAINST CBRNe EVENTS (60 ECTS)

Advisors for CBRNe Decision Makers

**2° level
program**

MODULE 0 - CBRNe Introduction (1 week) - University of Rome Tor Vergata

MODULE 1 - R/N risk (1 week) - University of Rome Tor Vergata

MODULE 2 - C/B/e Risk (1 week) - University of Rome Tor Vergata

MODULE 3 - CBRNe Protection and Decontamination (1 week) - University of Rome Tor Vergata

MODULE 4 - International CBRNe emergency system (1 week) - University of Rome Tor Vergata

MODULE 5 - Biowarfare Awareness Defence Course (1 week) - NATO SCHOOL (Germany)

MODULE 6 – Medical Management (1 week) - University of Rome Tor Vergata

MODULE 7 -DSS (1 week) - University of Rome Tor Vergata

MODULE 8 - Investigation and information in case of CBRNe events (1 week) - University of Rome Tor Vergata

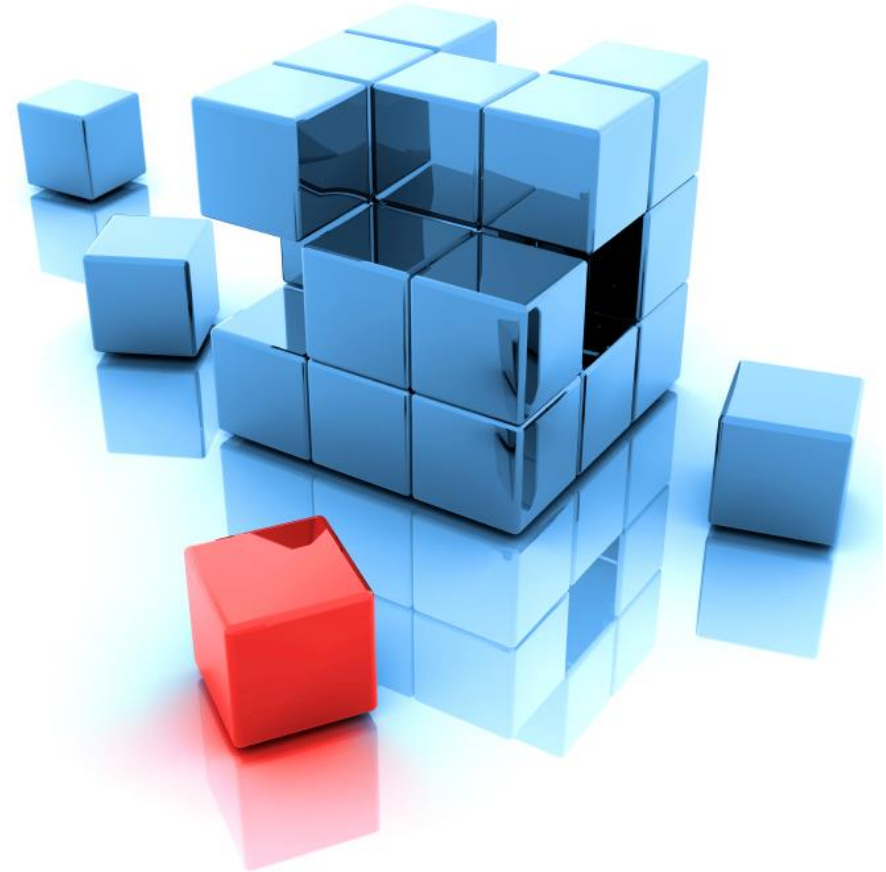
MODULE 9 - Module for the preparation to PSO (1 week) - University of Rome Tor Vergata

FINAL ACTIVITY - The students together with the final thesis delivery will have a 2-3 days Table Top Exercise that together with the thesis and the marks of the stage, exams, laboratory activities and training activities will give a final evaluation for each of them



**It is possible to attend
SINGLE MODULES
and achieve ECTS
of single modules**

**Official Course
Language
ENGLISH**



IW CBRNe 2015

MASTER STUDENTS DURING TABLE TOP EXERCISES ORGANIZED BY MINISTRY OF INTERIOR, MINISTRY OF DEFENCE AND MINISTRY OF HEALTH



Our students

IW CBRNe 2015
Villa Mondragone, Rome
20/11/2015

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**PRESENTATION OF THE
CBRNe MASTER COURSES**

IW CBRNe 2015

MASTER STUDENTS TRAINING WITH ARMY, NAVY, AIR FORCE, FIRE BRIGADES, POLICE STATE



Our students

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20/11/2015

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**PRESENTATION OF THE
CBRNe MASTER COURSES**

IW CBRNe 2015

MASTER STUDENTS TRAINING AT VVU WITH LIVE SARIN, VX and MUSTARD GAS



Our students

IW CBRNe 2015

MASTER STUDENTS TRAINING AT JCBRN COE NATO



Our students

IW CBRNe 2015

MASTER STUDENTS AT NATO SCHOOL



Our students

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20/11/2015

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**PRESENTATION OF THE
CBRNE MASTER COURSES**

IW CBRNe 2015

MASTER STUDENTS DURING TECHNICAL WORKSHOP ORGANIZED DURING THE COURSE



Our students

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Villa Mondragone, Rome
20/11/2015

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PRESENTATION OF THE
CBRNe MASTER COURSES

MASTER STUDENTS DURING FINAL CEREMONIES



Our students

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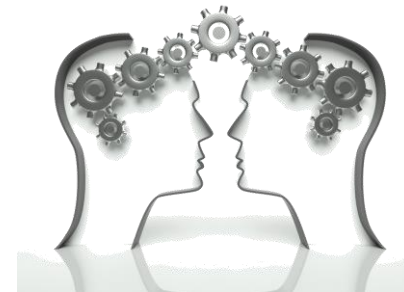
PRESENTATION OF THE
CBRNE MASTER COURSES



Our students

Publications

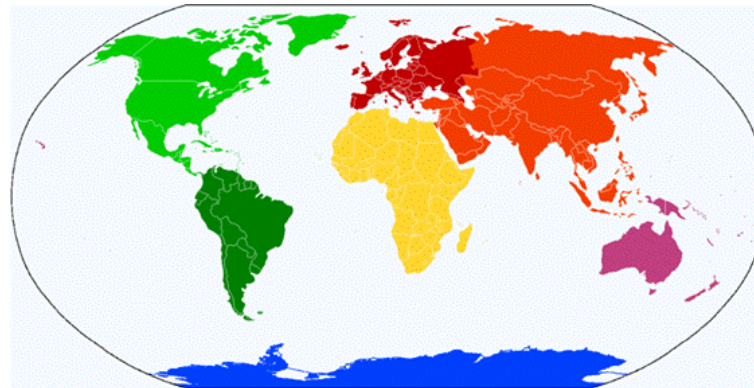
Conferences
Journal Articles
Proceedings



Didactic Board

**Over 150 international experts in
the different CBRNe disciplines**

Working with experts from the 5 Continents



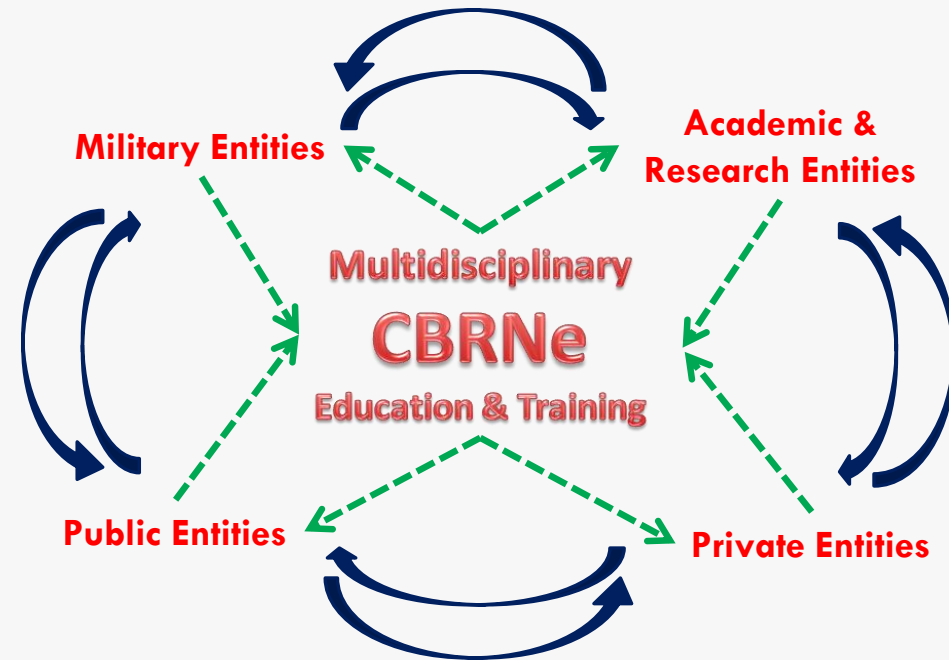
OUR NUMBERS



100% students with
a professional occupation
in 1 year
after the Diploma achievement

120 students from

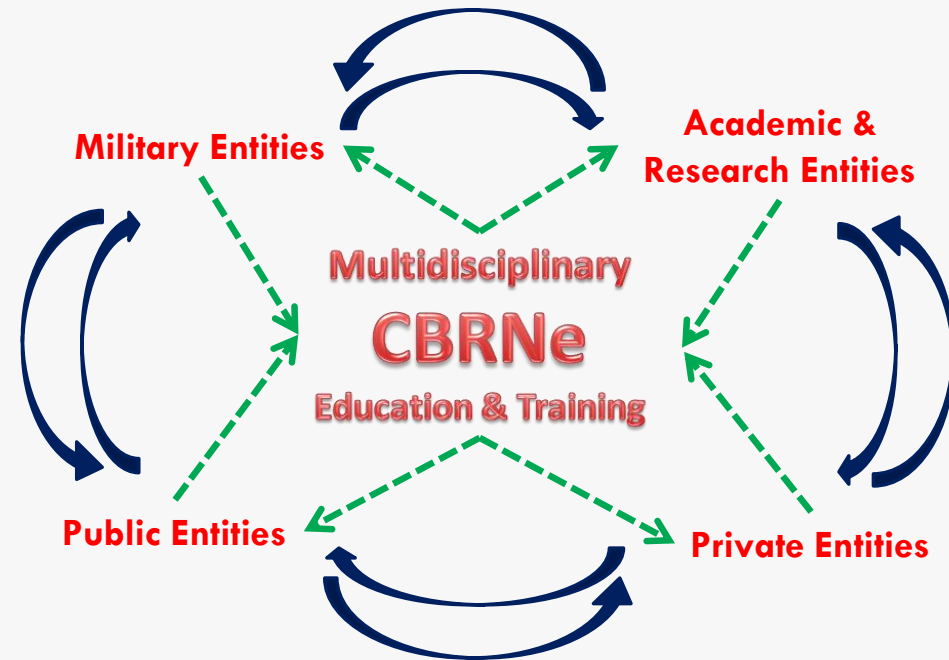
OUR NUMBERS



Completed the 2° Level
Course in the first 5 edition

20 students from

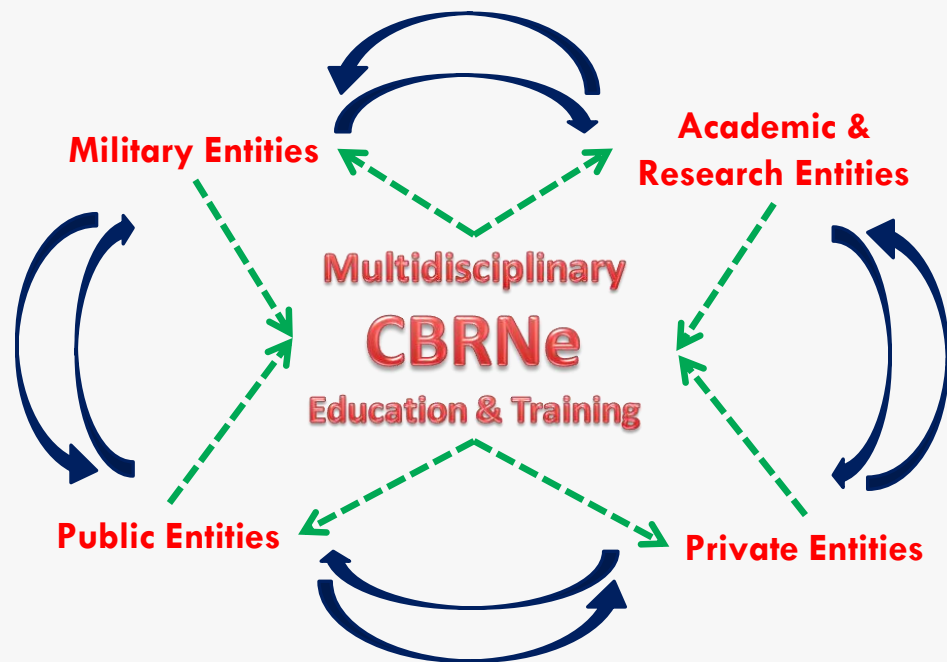
OUR NUMBERS



Are completing the 6^o edition
of the 2^o Level Course

9 students from

OUR NUMBERS



Are completing the 1° edition of
the 1° Level Course

**ENROLLMENTS FOR A.Y
2015/2016
ARE OPEN**

**THE 2 MASTERs will
begin next MARCH 2016**

IW CBRNe 2015

OUR NUMBERS



Actually we got:

10 pre-enrollments for 2° Level

18 pre-enrollments for 1° Level

IW CBRNe 2015

SCIENTIFIC, DIDACTIC AND MARKETING ACTIVITIES 2014 AND 2015

- CBRN First Response 2014, **Leicester (UK), February**
- G8 Technical table, **S. Peterburg (RU), February**
- International CBRN Meeting, **Dubai (UAE), March**
- G7 meeting The Hague, **Amsterdam (NL), March**
- Introduction to CBRN Risk C/o NATO SCHOOL, **Oberammergau (DE), April**
- IED Conference, **Madrid (ES), May**
- COE JCBRNe NATO, **Vyskov (CZ rep) - May**
- Steering Committee Projec, **Rome, May**
- World International Conference, **Tbilisi (GE), June**
- Article on the Italian Journal «Sole 24 ore», **June**
- Click & Read Newsletter, Starting in **June 2014**
- Social Network Facebook, LinkedIn, Twitter
- Youtube channel
- NATO divulgation MRMI Course (Medical Response to Major Incident), **Rome, June**
- TTX , invited by Minister of Interior, **Bari, May**

IW CBRNe 2015

SCIENTIFIC, DIDACTIC AND MARKETING ACTIVITIES 2014 AND 2015

- WSEAS CONFERENCE. **Salerno (IT), June 2014**
- NOE CARABINIERI. **Roma (IT), June 2014**
- JCBRNe COE. **Vyskov (IT), June 2014**
- World Congress CBRNe. **Vyskov (IT), June 2014**
- SOLE 24 ORE. **Article June 2014**
- Medical Response to Major Incident, **Rome, June 13-15 2014**
- Medical Response to Major Incident, **Rome, June 13-15 2014**
- NBC School of Rieti, **Rome, June 13-15 2014**
- NBC School of Spain, **July 2014**
- Seminar on Terrorism and new threat, **Rome, September 2014**
- SOFT conference, **San Sebastian (Spain), September 2014**
- NATO SCHOOL , **OGAU (DE), September-October 2014**
- IW CBRNe 2014, **November 2014**
- National Instruments, **November 2014**
- AIVELA CONFERENCE, **ROME (IT), December 2014**
- EU HSNB proposal, **PISA February 2015**
- TTX , **March 2015 Rome**

IW CBRNe 2015

SCIENTIFIC, DIDACTIC AND MARKETING ACTIVITIES 2014 AND 2015

- Gadgets Gallery
- CSCM 2015, **Zagabria April 2015**
- Final Conference at Bruxelles for HSNG, **Bruxelles (BE) April 2015**
- Event for COE ON NUCLEAR SECURITY, **Bologna May 2015**
- Lecture at Master on Radioprotection, **Campus BIOMEDICO May 2015 (Rome)**
- Conference on Frontiers of Computational Energy, **Zurich (CH) May 2015**
- ISDEF 2015, **TEL AVIV (Israel) May 2015**
- NATO SCHOOL , **OBBERAMMERGAU (Ge) September 2015**
- 3rd International Symposium on Development of CBRN-Defence Capabilities, **Berlin (DE) 2015**

**SCIENTIFIC, DIDACTIC AND MARKETING ACTIVITIES
2014 AND 2015**

Istituto Superiore Antincendi

20 ANNI 26 novembre 2015

Alta Formazione della Sicurezza
Ventennale di collaborazione dell'ISA
con l'Università, la ricerca e gli ordini professionali

8.30 Registrazione	Università la Sapienza "Risultati e prospettive future del Corso di laurea in Ingegneria della Sicurezza e della Protezione Civile"	12.00 Ing. Massimo Bahadri - Ing. Alessandro Leonardi Ordine degli Ingegneri di Roma - Commissione Prevenzione Incendi Ordine degli Ingegneri "Il contributo dell'Ordine degli Ingegneri di Roma: il caso del RIOP"
9.00 Sabati: Ing. Giuseppino Gianni Capo del Corpo Nazionale dei Vigili del Fuoco Prof. Eugenio Gandio Rettore dell'Università La Sapienza di Roma Prof. Maria Pazienza Rettore dell'Università Roma Tre Ing. Carla Cappiello Presidente dell'Ordine degli Ingegneri di Roma Arch. Arturo Livio Sacchi Presidente dell'Ordine degli Architetti di Roma	10.15 Prof. Carlo Redetti Università Tor Vergata "La sinacità NBCR e la collaborazione Università di Tor Vergata con il CNVVF" 10.45 Prof. sa Paola Russo Università la Sapienza "Investigazione di incendi e esplosioni: l'impegno congiunto di CNVVF-Università La Sapienza" 11.15 Prof.ssa Mara Lombardi Università la Sapienza "Ricerche congiunte CNVVF- Sapienza: l'Ingegneria della Sicurezza, sostegno all'arricchimento culturale delle competenze degli ingegneri"	12.30 Prof. Giovanni Laner Università la Sapienza "Comparazione dei sistemi di videosorveglianza degli incendi boschivi" 13.00 Ing. Stefano Marsella Istituto Superiore Antincendi "Ruolo di massa e la gestione dei grandi eventi: l'ingegnerizzazione della pianificazione e della gestione dell'emergenza"
9.30 Introduzioni: Ing. Stefano Marsella Istituto Superiore Antincendi Prof. Giuseppe Bonifazi Prof. Massimo Guarascio	11.45 Pausa	13.30 Conclusioni



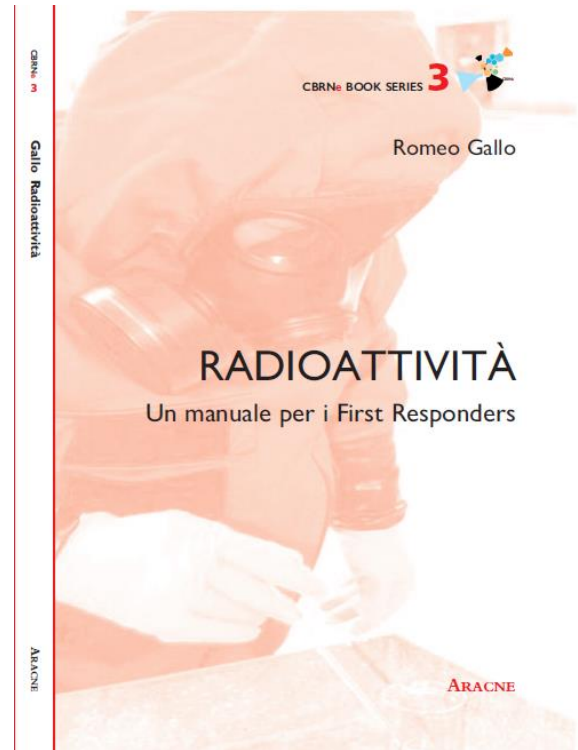
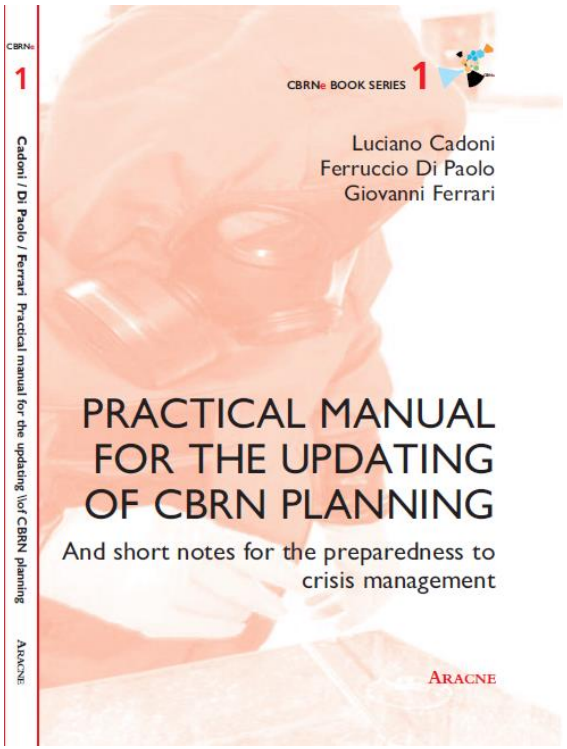
La sede dell'incontro è l'Istituto Superiore Antincendi - Roma, via del Commercio, 13. L'iscrizione è gratuita e si effettua tramite il sito: www.vigilfuoco.it. Per il riconoscimento dei crediti professionali per ingegneri (i CFP) l'iscrizione avviene tramite il sito dell'Ordine degli Ingegneri della provincia di Roma per gli iscritti all'Ordine di Roma (anche del CNVVF); tramite il sito www.vigilfuoco.it per gli iscritti agli altri Ordini. Per informazioni: relazionestime.isa@vigilfuoco.it

IW CBRNe 2015
Villa Mondragone, Rome
20/11/2015

**PRESENTATION OF THE
CBRNE MASTER COURSES**

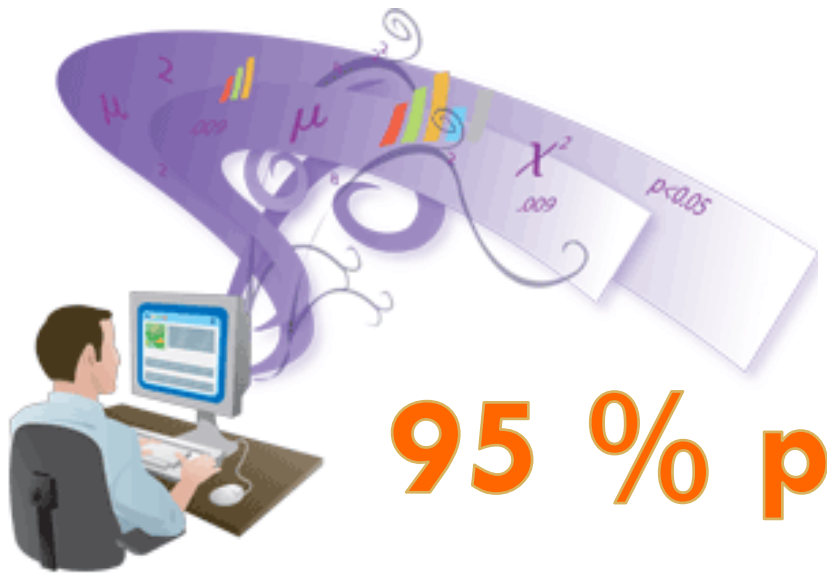
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CBRNe Book Series



IW CBRNe 2015

Scientific papers



95 % published
on scientific journals index on
Scopus®

Daniele Di Giovanni **"Evaluation and Gap analysis Tool for Performance Benchmarking on CBRNe Table Top Exercise Emergency Response Management"**, session 3 – Consequence Management. 22nd Annual CSCM – WORLD CONGRESS ON CBRNeSCIENCE & CONSEQUENCE MANAGEMENT (2015).

L. Palombi, C. Bellecci, A. Malizia, V. Cusmai, V. Rossi, T. Labriola, E. Farrugia, F. Campopiano, F. Salerno, V. Trombadore, L. Cadoni, G. Rezza, R. Fantoni, S. Sandri, M. Chiappini, A. Gucciardino, F. D'Amico, D. Rothbacher, M. Carestia, D. Di Giovanni, O. Cenciarelli, C. Russo, C. Perrimezzi, P. Gaudio. **"Building a Chemical, Biological, Radiological, Nuclear, explosive events Tech Advisor and First Responders to support top decision makers during emergencies"**. Speciale: ENEA Technologies for security. Enea EAI. DOI: 10.12910/EAI2014-101. (2014)

F. Pirelli, O. Cenciarelli, V. Gabbarini, A. Malizia, G. Famà, A. Sassolini, F. D'Amico, D. Di Giovanni, M. Carestia, L. Palombi, C. Bellecci & P. Gaudio (2014). **"Maritime Security: Applications and Perspectives to Combat Chemical, Radiological and Explosive Threats"**. DEFENCE S & T TECHNICAL BULLETIN, vol. 7, Issue 2, Pages 90-98, ISSN: 1985-6571

CBRNe Emergency

Scientific papers

A. Malizia, V. Cusmai, V. Rossi, T. Labriola, E. Farrugia, F. Campopiano, F. Salerno, V. Trombadore, L. Cadoni, G. Rezza, R. Fantoni, S. Sandri, M. Chiappini, A. Gucciardino, F. D'Amico, C. Russo, D. Rothbacher, M. Carestia, D. Di Giovanni, O. Cenciarelli, C. Perrimezzi, I. Palombi, C. Bellecci, P. Gaudio. **"New frontiers of safety and security: Chemical, Biological, Radiological, Nuclear, explosive events"**. Speciale: ENEA Technologies for security. Enea EAI. DOI: 10.12910/EAI2014-99. (2014)

WSEAS TRANSACTIONS on ENVIRONMENT and DEVELOPMENT

L. Palestini, G. Binotti, A. Sassolini, A. Malizia,
O. Cenciarelli, L. Di Gianbernardino, F. D'Amico,
D. Di Giovanni, M. Carestia, R. Bonora, S. Miorotti,
A. Costagliola Di Fiore, F. M. Orecchio, J. F. Ciparisse,
L. A. Poggi, L. Palombi, C. Bellecci, P. Gaudio

**SX34 and the decontamination effects on chemical warfare agents
(CWA)**

L. PALESTINI^{ab}, G. BINOTTI^{ab}, A. SASSOLINI^c, A. MALIZIA^{b,c,*}, O. CENCIARELLI^{b,c}, L. DI
GIANBERNARDINO^{a,c}, F. D'AMICO^{b,c}, D. DI GIOVANNI^{b,c}, M. CARESTIA^{b,c}, R. BONORA^d, S.
MIOROTTI^e, A. COSTAGLIOLA DI FIORE^c, F. M. ORECCHIO^b, J.F. CIPARISSE^c, L.A. POGGI^f,
L. PALOMBI^{bf}, C. BELLECCI^{b,c} and P. GAUDIO^{b,c}

A. Sassolini, A. Malizia, F. D'Amico, M. Carestia, D. Di Giovanni, O. Cenciarelli, C. Bellecci & P.
Gaudio (2014). *Evaluation of the effectiveness of titanium dioxide (TiO2) self-cleaning
coating for increased protection against CBRN incidents in critical infrastructure*. Defence s
& t technical bulletin, vol. 7, Issue 1, Pages 9-17, ISSN: 1985-6571

M. Gelfusa, A. Malizia, S. Parracino, M. Richetta, C. Bellecci, E. Avolio, L. De Leo, C.
Perrimezzi, P. Gaudio (2014). *Detection of pollutant sources in the atmosphere with
Lidar/Dial techniques: Results of an experimental campaign in the south of Italy*. 2014
Fotonica AEIT Italian Conference on Photonics Technologies, Fotonica AEIT 2014, 2014,
Article number 6843908, 2014 Fotonica AEIT Italian Conference on Photonics
Technologies, Fotonica AEIT 2014; Naples; Italy; 12 May 2014 through 14 May 2014;
Category number CFP1421Y-ART; Code 106397.

M. Gelfusa, P. Gaudio, A. Malizia, A. Murari, J. Vega, M. Richetta, S. Gonzalez (2014). *UMEL:
A new regression tool to identify measurement peaks in LIDAR/DIAL systems for
environmental physics applications*. Review of Scientific Instruments. Volume 85, Issue 6,
June 2014, Article number 063112.

Proceedings Article

**Design and development of a compact
lidar/DIAL system for aerial surveillance of
urban areas**

P. Gaudio ; M. Gelfusa ; A. Malizia ; M. Richetta ; A. Antonucci ; P. Ventura
A. Murari ; J. Vega

[+] Author Affiliations

Proc. SPIE 8894, Lidar Technologies, Techniques, and Measurements for Atmospheric
Remote Sensing IX, 88940D (October 22, 2013); doi:10.1117/12.2028940

Chem

The Malaysian Journal of
**ANALYTICAL
SCIENCES**

**COMPARISON OF THREE SAMPLE PREPARATION METHODS FOR
ANALYSIS OF CHEMICAL WARFARE AGENT
SIMULANTS IN WATER**

(Perbandingan Tiga Kaedah Penyediaan Sampel bagi Analisis Agen Simulan Senjata Kimia
di dalam Air)

Alessandro Sassolini^{1,4*}, Andrea Malizia^{1,2}, Fabrizio D'Amico^{1,2}, Orlando Cenciarelli^{1,2}, Mariachiara Carestia^{1,2},
Daniele Di Giovanni^{1,2}, Leonardo Palombi^{2,3}, Maurizio Guidotti⁴, Carlo Bellecci^{1,2}, Pasquale Gaudio^{1,2}

Scientific papers

A REVIEW OF TECHNIQUES FOR THE DETECTION OF BIOLOGICAL WARFARE AGENTS

Gian Marco Ludovici¹, Valentina Gabbarini¹, Orlando Cenciarelli^{1,2*}, Andrea Malizia^{1,2}, Annalaura Tamburrini¹, Stefano Pietropaoli³, Mariachiara Carestia^{1,2}, Michela Gelfusa², Alessandro Sassolini², Daniele Di Giovanni^{1,2}, Leonardo Palombi^{1,4}, Carlo Bellecci^{1,2} & Pasquale Gaudio^{1,2}



Virus Research

Volume 210, 2 December 2015, Pages 318–326



Review

Viral bioterrorism: Learning the lesson of Ebola virus in West Africa 2013–2015

Orlando Cenciarelli^{a, b, 1}, Valentina Gabbarini^{c, 1}, Stefano Pietropaoli^d, Andrea Malizia^{a, b}, Annalaura Tamburrini^e, Gian Marco Ludovici^c, Mariachiara Carestia^{a, b}, Daniele Di Giovanni^{a, b}, Alessandro Sassolini^b, Leonardo Palombi^{b, e}, Carlo Bellecci^{a, b}, Pasquale Gaudio^{a, b}

THE IMPORTANCE OF FORENSIC MICROBIOLOGY IN CBRNe INVESTIGATIONS

Gian Marco Ludovici¹, Orlando Cenciarelli^{1,2}, Mariachiara Carestia^{1,2}, Andrea Malizia^{1,2}, Annalaura Tamburrini¹, Valentina Gabbarini¹, Alessandro Sassolini¹, Daniele Di Giovanni^{1,2}, Sandro Mancinelli^{1,3}, Leonardo Palombi^{1,3}, Pasquale Gaudio^{1,2}, Carlo Bellecci^{1,2} & Teresa Rinaldi^{1,4,5*}

Bio

Scientific papers



Microbial & Biochemical Technology

Cenciarelli et al., J Microb Biochem Technol 2014, 6:5
<http://dx.doi.org/10.4172/1948-5948.1000152>

Case Report

Open Access

Biological Emergency Management: The Case of Ebola 2014 and the Air Transportation Involvement

Orlando Cenciarelli^{1,2*}, Stefano Pietropaoli³, Lilliana Frusteri⁴, Andrea Malizia^{1,2*}, Mariachiara Carestia^{1,2}, Fabrizio D'Amico^{1,2}, Alessandro Sassolini¹, Daniele Di Giovanni^{1,2}, Annalaura Tamburrini¹, Leonardo Palombi^{2,5}, Carlo Bellecci^{1,2} and Pasquale Gaudio^{1,2}

O. Cenciarelli, S. Pietropaoli, V. Gabbarini, M. Carestia, F. D'Amico, A. Malizia, M. Gelfusa, R. Pizzoferrato, A. Sassolini, D. Di Giovanni, F.M. Orecchio, L. Palombi, C. Bellecci and P. Gaudio (2014). *Use of Non-Pathogenic Biological Agents as Biological Warfare Simulants for the Development of a Stand-Off Detection System*. Microbial & Biochemical Technology. J Microb Biochem Technol 2014, 6:7, Volume 6(7): 375-380 (2014) - 375, ISSN: 1948-5948 JMBT.

M. Carestia, R. Pizzoferrato, O. Cenciarelli, F. D'Amico, A. Malizia, M. Gelfusa, D. Scarpellini, P. Gaudio (2014). *Fluorescence measurements for the identification of biological agents features for the construction of a spectra database*. 2014 Fotonica AEIT Italian Conference on Photonics Technologies, Fotonica AEIT 2014. 2014, Article number 6843971. 2014 Fotonica AEIT Italian Conference on Photonics Technologies, Fotonica AEIT 2014; Naples; Italy; 12 May 2014 through 14 May 2014; Category number CFP1421Y-ART; Code 106397.

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Microbial & Biochemical Technology

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Research Article

Open Access

Use of Particle Counter System for the Optimization of Sampling, Identification and Decontamination Procedures for Biological Aerosols Dispersion in Confined Environment

Michele Pazienza^{1,2*}, Maria Serena Britti^{1,3}, Mariachiara Carestia^{1*}, Orlando Cenciarelli¹, Fabrizio D'Amico^{1,3}, Andrea Malizia^{1,3*}, Carlo Bellecci^{1,3}, Roberto Fiorito^{2,3}, Antonio Gucciardino³, Mariarosa Bellino^{1,3}, Corrado Lancia^{1,2}, Annalaura Tamburrini³ and Pasquale Gaudio^{1,3}

Bio

Defence S&T Tech. Bull., 6(2): 111-129, 2013

BIOWEAPONS AND BIOTERRORISM: A REVIEW OF HISTORY AND BIOLOGICAL AGENTS

Orlando Cenciarelli^{1,2*}, Silvia Rea², Mariachiara Carestia¹, Fabrizio D'Amico¹, Andrea Malizia¹, Carlo Bellecci¹, Pasquale Gaudio¹, Antonio Gucciardino¹ & Roberto Fiorito³

Defence S&T Tech. Bull., 6(1) :33-41, 2013

EVALUATION OF BIOHAZARD MANAGEMENT OF THE ITALIAN NATIONAL FIRE BRIGADE

Orlando Cenciarelli^{1,3*}, Andrea Malizia¹, Marianna Marinelli², Stefano Pietropaoli³, Romeo Gallo⁵, Fabrizio D'Amico¹, Carlo Bellecci¹, Roberto Fiorito⁴, Antonio Gucciardino¹, Maria Richetta¹ & Pasquale Gaudio¹

**Scientific
papers**

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R - N

Original Research
Journal of Fusion Energy
December 2015, Volume 34, Issue 6, pp 1320-1330
First online: 11 July 2015



First Experimental Campaign to Demonstrate STARDUST-Upgrade Facility Diagnostics Capability to Investigate LOVA Conditions

L. A. Poggi, A. Malizia, J. F. Ciparisse, M. Gelfusa, A. Murari, S. Pierdiluca, E. Lo Re, P. Gaudio

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Two realistic scenarios of intentional release of radionuclides (Cs-137, Sr-90) – the use of the HotSpot code to forecast contamination extent

D. DI GIOVANNI^{1,4}, E. LUTTAZZI⁴, F. MARCHI⁴, G. LATINI^{3,4}, M. CARESTIA^{1,4}, A. MALIZIA^{1,4}, M. GELFUSA^{1,4}, R. FIORITO^{2,4}, F. D'AMICO^{1,4}, O. CENCIARELLI^{1,4}, A. GUCCIARDINO^{1,4}, C. BELLECCI^{1,4} and P. GAUDIO^{1,4}

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Scientific papers

SIMULATION OF CAESIUM-137 (¹³⁷Cs) LOCAL DIFFUSION AS A CONSEQUENCE OF THE CHERNOBYL ACCIDENT USING HOTSPOT

Ilaria Cacciotti^{1,2*}, Pio Ciro Aspetti^{1,3}, Orlando Cenciarelli¹, Mariachiara Carestia¹, Daniele Di Giovanni¹,
Andrea Malizia¹, Fabrizio D'Amico¹, Alessandro Sassolini¹, Carlo Bellecci¹ & Pasquale Gaudio¹

R - N

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Latest Trends in Energy, Environment and Development

Simulation of ¹³⁷CS radioactive contamination due to an accident in a biomass plant for energy production: the importance of Decision Support System (DSS) in the emergency planning

ANDREA MALIZIA¹,
malizia@ing.uniroma2.it - <http://www.mastercbrn.com>

Claudio Cafarelli², Laura Milanese², Simona Pagannone², Amedeo Pappalardo², Massimo Pedemonte², Daniele Di Giovanni^{1,2}, Mariachiara Carestia^{1,2}, Orlando Cenciarelli^{1,2}, Fabrizio D'Amico^{1,2} and Leonardo Palombi^{2,3}, Carlo Bellecci^{1,2}, Pasqualino Gaudio^{1,2}

Scientific papers

P3-106 Free License codes to simulate the diffusion of contaminants in case of radiological release

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R - N

Recent Advances in Energy Planning and Environment

Scenarios for the intentional release of Cs-137 from stacks of cement production factory: event analysis using the HotSpot code.

G. LATINI¹, A. MALIZIA², M. GELFUSA², M. CARESTIA², R. FIORITO³, F. D'AMICO², A. GUCCIARDINO², C. BELLECCI² and P. GAUDIO²

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Volume 85, Issues 7–9, December 2010, Pages 1410–1415

Proceedings of the Ninth International Symposium on Fusion Nuclear Technology



Operating experiences from existing fusion facilities in view of ITER safety and reliability

T. Pinna^a, L.C. Cadwallader^b, G. Cambi^c, S. Ciattaglia^d, S. Knipe^e, F. Leuterer^h, A. Malizia^g, P. Petersen^f, M.T. Porfiri^a, F. Sagotⁱ, S. Scales^e, J. Stober^h, J.C. Valletⁱ, T. Yamanishi^j

A. Malizia, I. Lupelli, F. D'Amico, A. Sassolini, A. Fiduccia, A.M. Quarta, R. Fiorito, A. Gucciardino, M. Richetta, C. Bellecci, P. Gaudio (2012). *Comparison of Software for Rescue Operation Planning During an Accident in a Nuclear Power Plant*. Defence s & t technical bulletin, vol. 5; p. 36-45, ISSN: 1985-6571.

Experimental and numerical analysis of dust resuspension for supporting chemical and radiological risk assessment in a nuclear fusion device

Mathematical Models for Engineering Science

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R. Gallo, P. De Angelis, N. Gallo, A. Malizia, A. Fiduccia, F. D'Amico, R. Fiorito, A. Gucciardino, M. Richetta, C. Bellecci, P. Gaudio (2012). *Development of a software for the identification mapping of radiological diffusion in order to improve the rescue operations*. In: MIMOS Conference Proceedings. Roma, 9-11 Ottobre 2012.

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**Didactic
and
Training**

SOME OF THE COLLABORATIONS BORN THANKS TO THE MASTER ACTIVITIES

GATE Project & BIOLIDAR Project: 2015 ongoing

UNIVERSITY TOR VERGATA (Dpt.Ind.Eng) and Italian Army
TELEMACO Project: A LIDAR/DIAL SYSTEM for CWA EARLY DETECTION

UNIVERSITY TOR VERGATA (Dpt.Ind.Eng) , SCUOLA SUPERIORE S.ANNA and ITALIAN FIRE BRIGADES
CBRN – Integrated Response Italy (<http://cbrn.netseven.it/>)

UNIVERSITY TOR VERGATA (Dpt.Ind.Eng) , CNR and VITROCISSET
SNIFF – A LIDAR/DIAL SYSTEM for TIC and TIM Detection

FIRE BRIGADES & COMPANIES
SOFTWARE REALIZATION FOR EARLY HOT SPOT ZONE IDENTIFICATION AND MAPPING in CASE OF
RADIOLOGICAL DIFFUSION

COMPANIES & MINISTRY of INTERIOR, MINISTRY of DEFENCE & MINISTRY OF HEALTH
HARDWARE AND SOFTWARE DEVELOPMENT AND/OR IMPROVE TO FACE CBRNe EMERGENCIES

ACADEMIA & MILITARY ENTITIES & PUBLIC ENTITIES & COMPANIES
SCIENTIFIC PUBLICATION, PATENTS, PROPOSALS FOR NEW FOUNDING REQUEST
(AS H2020)

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ACTIVITIES**



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**IMPROVE ENROLLMENTS
&
MEDIA ACTIVITIES**

**IMPROVE
DIDACTICAL
BOARD**

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A.Y. 2016/2017

**with CONFERENCE PROCEEDINGS PUBLISHED on
A PEER REVIEWED JOURNAL**

Special Thanks



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