

SICC 2017 | OVERVIEW

Rome, May 22-23-24, 2017

Program & informations updated on 05 April 2017

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| VENUE

Istituto Superiore Anticendi / *National Fire Academy*
Via del Commercio 13, 00154 Rome, Italy

| CONTACTS

WEBSITE: www.sicc2017.com
EMAIL: sicc2017@sicc2017.com
PHONE: +39 06.7259.7201

ABOUT SICC 2017

SICC 2017 will be the first event of its kind involving the safety & security community and stakeholders involved in the prevention and mitigation of Chemical, Biological, Radiological, Nuclear and explosives events, and represents the natural development of the long-standing experience achieved in the field of CBRNE education and training by the **“International Master Courses in Protection against CBRNE Events”** (www.mastercbrn.com) of the University of Rome “Tor Vergata”.

The event organizational management has been assigned to the non-profit association **HESAR - Health Safety Environmental Research Association Rome** (www.hesar.it). Please scroll down the www.sicc2017.com homepage to learn more about who we are and our experience. Here a brief summary of the exceptional features that make SICC 2017 a unique opportunity. Also, please find the latest Announcements in PDF at <https://www.sicc2017.com/downloads/>.

The world of CBRNE today mainly concerns the military experts, the specialized operators, and the industry. However, our vision is also to promote the spread of education on CBRNE beyond its traditional boundaries: the **CBRNE should become an academic scientific discipline**. We strongly believe in “Science as the first countermeasure for CBRNE and Cyber threats”, in order to increase the information, awareness, preparedness and resiliency. The main difference between the SICC 2017 conference and the other conferences on CBRNE is the **production of scientific papers**.

Also, do not miss the opportunity to discover Rome and its beauties! Take the advantage of participating in the **SICC 2017 Special Activities** we have arranged for you and get the best out of your journey. Please check <https://www.sicc2017.com/travel-accommodation/>.

Do not hesitate to contact the Local Organizing Committee for further information at sicc2017@sicc2017.com.

SCIENTIFIC PAPERS PUBLICATION

Enhancing CBRNE safety & security: Proceedings of the SICC 2017 Conference. Science as the first countermeasure for CBRNE and Cyber threats

Oral and poster contributors to SICC 2017, after Abstract approval by the SICC 2017 Scientific Committee, are invited to develop their work into **full papers (max 8 pages) that will be published in the SPRINGER CONFERENCE PROCEEDINGS BOOK with an ISBN CODE.**

Full papers will be **peer reviewed** by the SICC 2017 Scientific Committee and other experts identified by the Committee. Accepted papers will be submitted by Springer for **INDEXING IN SCOPUS.**

Also, papers will be indexed in Google Scholar, Index Copernicus, Academic J Database, Open J Gate, Electronic Journals Library, RefSeek, SciLit.



Selected papers from SICC 2017 conference will be published by Springer in **The European Physical Journal Plus - EPJ Plus (Impact Factor 1.521),**

indexed in:

SCOPUS, Science Citation Index, Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, Astrophysics Data System (ADS), Chemical Abstracts Service (CAS), Google Scholar, Current Contents/Physical, Chemical and Earth Sciences, INSPIRE, OCLC, SCImago, Summon by ProQuest.

THIS IS SUCH A UNIQUE OPPORTUNITY TO PUBLISH IN A HIGH-IMPACT JOURNAL.

Also, remember that all other contributors are invited to develop their work into papers that will be published in the **Springer Conference Proceedings Book** with an **ISBN code**, and will be submitted by **Springer** for indexing in **Scopus.**

SCIENTIFIC COMMITTEES



President of the International Scientific Committee
Ambassador Bonnie D. Jenkins
 U.S. Department of State
 – Bureau of International Security and Nonproliferation –
 Coordinator for Threat Reduction Programs (ISN/TR)



President of the National Scientific Committee
Senator Linda Lanzillotta
 Vice President of the Italian Senate (Vicepresidente del Senato della Repubblica)

INTERNATIONAL



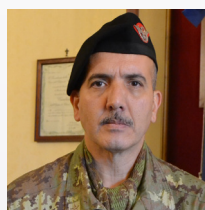
Lt. Col. Bernd Allert
 Head/Doctrine and Concept Development Section – Joint CBRN Defence Centre of Excellence (JCBRND-COE), Vyškov/CZE



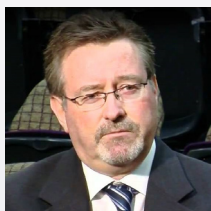
H. E. Fahad Alruwaily
 Minister and Secretary General of the Saudi National Authority for the Implementation of Chemical and Biological Weapons Convention (Saudi Arabia)



Gen. Faisal Al-Shoubaki
 Director of the Jordan General Intelligence Department (Jordanian Armed Forces), Advisor to His Majesty the King for National Security Affairs



Gen. B. Sossio Andreottola
 Head of the Interforce NBC School of the Italian Defence General Staff (Comandante della Scuola Interforze per la Difesa NBC dello Stato Maggiore della Difesa)



Prof. Paul Arbon
 Director of the Torrens Resilience Institute, Flinders University, Adelaide, Australia



Dr. Cornelius Bartels
 Robert Koch Institute – Berlin, Germany



Amm. Isp. Capo Osvaldo Brogi
 Head of the Italian Naval Armaments Corp (Capo di Corpo delle Armi Navali)



Ten.Gen. Ing. Francesco Castrataro
 Head of the Italian Army Engineers Corp, Terrestrial Armaments Director (Capo di Corpo degli Ingegneri dell'Esercito, Direttore degli Armamenti Terrestri)



Maria Rita Gismondo
Associate Professor in
Microbiology at University of
Milano



Alan Grimmer
INTERPOL – Coordinator of the
CBRNE Sub-Directorate



Dr. Amer Hosin
Senior Consultant and main
Adviser of the Emergency and
Public Safety Department, Abu
Dhabi Police GHQ, United Arab
Emirates



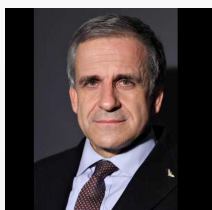
Dr. Martin Krottmayer
Senior Officer – Nuclear
and radiological Emergency
Preparedness, International
Federation of Red Cross



**Gen. Isp. Capo Francesco
Langella**
Head of the Italian Air Force
Engineers Corp (Capo di Corpo
del Genio Aeronautico)



**Amm. Isp. Capo Marco
Manfredini**
Head of the Italian Marine
Engineers Corp (Capo di Corpo
del Genio Navale)



Prof. Maurizio Martellini
University of Insubria – Associate
Professor of Physics



Amm. Isp. Capo Enrico Mascia
Head of the Italian Health Marine
Corp (Capo di Corpo Sanitario
della Marina Militare)



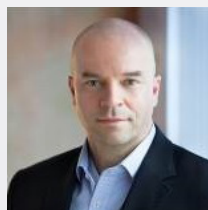
Gen. D. A. Fabio Molteni
Head of the Test Flight Center
of the Italian Air Force Logistic
Command (Comandante della 1ª
Divisione del Comando Logistico
dell'Aeronautica Militare - Centro
Sperimentale di Volo)



Amb. Krzysztof Paturej
International Centre for Chemical
Safety and Security (ICCSS).
Titular in the Ministry of Foreign
Affairs of the Republic of Poland.



On. Gen. Domenico Rossi
Undersecretary of State at the
Italian Ministry of Defence.



Dr. Dieter Rothbacher
President of the International
CBRNE Institute - ICI (Belgium),
Director Operations of
Hotzone Solutions Group BV
(Netherlands).



Prof. Enrico Sciubba

University of Rome La Sapienza – Full Professor of Turbomachinery & Energy Systems



Michael Thornton

Team Leader of the European Commission Joint Research Centre (Ispra)



Gen. Isp. Capo Prof. Enrico Tomao

Chief of Military Medical Services at the Italian Defence General Staff (Ispettore Generale della Sanità Militare – Stato Maggiore della Difesa)



James M. Welch

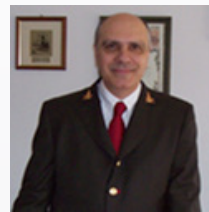
Elizabeth R Griffin Research Foundation – ERGRF (USA) – Executive Director

NATIONAL



Prof. Carlo Bellecci

University of Rome Tor Vergata – Full Professor in Experimental Physics (Rtd.), President of the Scientific Committee of the International Master Courses in Protection against CBRNe Events.



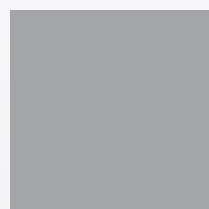
Ing. Luciano Cadoni

Italian National Fire Corps – Provincial Commander of Cagliari.



Dr. Massimo Chiappini

INGV (National Institute for Geophysics and Vulcanology) – Research Director, Head of Methodologies of Environmental Geophysics Unit.



Lt. Col. Andrea Gloria

Italian Ministry of Defence – NATO School of Oberammergau (Germany) – CBRN Defence Course Director and Instructor.



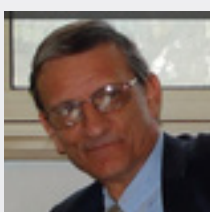
Dr. Pasqualino Gaudio

University of Rome Tor Vergata – Senior Researcher in Experimental Physics, Coordinator of the International Master Courses in Protection against CBRNe Events.



Ten. Gen. Antonio Gucciardino

National Association of Former Students of Nunziatella – President of Lazio Section.



Prof. Sandro Mancinelli

University of Rome Tor Vergata – Associate Professor of the Department of Biomedicine and Prevention.



Adj. Prof. Donato Morea

University of Rome Tor Vergata – Industrial Engineering Dept. – Adjunct Professor of Engineering Economy.



Ing. Emilio Occhiuzzi

Italian Ministry of Interior –
National Fire Corps (CNVVF) –
Director of General Directorate
for Training.



Prof. Leonardo Palombi

University of Rome Tor Vergata
– Full Professor and Director of
the Department of Biomedicine
and Prevention and of the
International Master Courses in
Protection Against CBRNe events



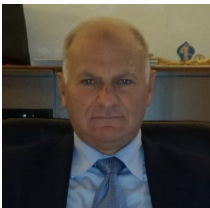
Dr. Antonio Palucci

ENEA – Head of Diagnostics and
Metrology Laboratory.



Prof. Giovanni Rezza

National Institute of Health (ISS)
– Director, Dept. of Infectious,
Parasitic and Immune-Mediated
Diseases.



Viceprefetto Vincenzo Rossi

Italian Ministry of Interior –
Vice-Director of the SSAI (The
Interior Ministry School of
Administration).



Ten. Col. Franco Salerno

Italian Ministry of Defence
– Interforce School for NBC
Defense.



Dr. Sandro Sandri

ENEA – Director, Radiation
Protection for Nuclear Fusion
Plants and Large Accelerators
Laboratory (IRP-FUAC).



Dott. Vincenzo Trombadore

Italian Ministry of Interior – State
Police.



Cons. Amb. Enrico Valvo

Italian Ministry of Foreign Affairs
and International Cooperation –
Directorate General for Political
Affairs and Security.

SICC 2017 PROGRAMME TIMELINE

	MONDAY, 22 MAY	TUESDAY, 23 MAY	WEDNESDAY, 24 MAY	
8:30 - 9:00	Registration	Registration & Welcome Coffee	Registration & Welcome Coffee	
9:00 - 9:30			Keynote Lecture Rothbacher (HotzoneSolutions)	
9:30 - 10:00			OPCW SIDE EVENT Opening	Keynote Lecture TBD
10:00 - 10:30	Registration & Welcome Coffee	OPCW SIDE EVENT Keynote Speech Amb. Üzümcü (OPCW Director-General)	Parallel Sessions 9, 10, 11, 12	
10:30 - 11:00	Welcome by Authorities	OPCW SIDE EVENT Panel Discussion		
11:00 - 11:30	Opening Plenary Session Amb. Jenkins (U.S. State Dept.)			
11:30 - 12:00	Keynote Lecture Johnson (Georgetown Univ.)			
12:00 - 12:30	Keynote Lecture Suryantoro (WHO)	Lunch Break Industrial Exhibition Poster Session 2	Demonstration Activities Industrial Exhibition	
12:30 - 13:00	Lunch Break Industrial Exhibition Poster Session 1			Lunch Break Industrial Exhibition
13:00 - 13:30				
13:30 - 14:00		Parallel Sessions 1, 2, 3, 4	Parallel Sessions 5, 6, 7, 8	Parallel Sessions 9, 10, 11, 12
14:00 - 14:30				
14:30 - 15:00	Coffee Break, Industrial Exhibition		Closing Plenary Session	
15:00 - 15:30				
15:30 - 16:00	Coffee Break, Industrial Exhibition	Parallel Sessions 5, 6, 7, 8		
16:00 - 16:30				
16:30 - 17:00	Parallel Sessions 1, 2, 3, 4			Private Companies ORAL SESSION (available for SICC 2017 Sponsors)
17:00 - 17:30				
17:30 - 18:00				
18:00 - 18:30				
17:30 - 18:30	Private Companies ORAL SESSION (available for SICC 2017 Sponsors)			
18:30 - 20:00	Welcome Cocktail Concert	Gala Dinner Awards Ceremony		
20:00 - 23:30				

Main Hall

Parallel Sessions

OPCW Side Event

Private Companies



OPENING PLENARY SESSION

Monday, 22 May 2017



On. Gen. Domenico Rossi (ITALY)

Undersecretary of State at the Italian Ministry of Defence (Sottosegretario di Stato alla Difesa)



Senator Linda Lanzillotta (ITALY)

Vice President of the Italian Senate (Vicepresidente del Senato della Repubblica)



Ambassador Bonnie Jenkins (USA)

US Department of State, Bureau of International Security and Nonproliferation – Coordinator for Threat Reduction Programs ISN/TR



Andrea Malizia (Italy)

Researcher in Physics and Measures at the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)

KEYNOTE SPEAKERS

DAY ONE - Monday, 22 May



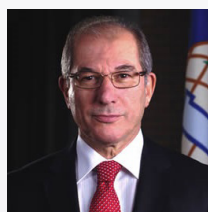
Steve Johnson (USA) Adjunct Professor at the Georgetown University

"The world's responder or teacher? Developing International Resilience"



Ludy Suryantoro (Switzerland) Senior Advisor – High Level Government and External Relations, Office of Assistant Director-General, World Health Organisation

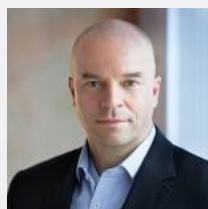
DAY TWO - Tuesday, 23 May



Amb. Ahmet Üzümcü, Director General of the OPCW, Nobel Peace Prize 2013

"Twenty years after the entry into force of the Chemical Weapons Convention: looking back and looking forward"

DAY THREE - Wednesday, 24 May



Dieter Rothbacher (THE NETHERLANDS) Hotzone Solutions Group BV

"Training as a key-issue in case of CBRNE events"

SESSION 1 - EMERGENCY SYSTEM AND SOLUTIONS

Monday, 22 May 2017 (14:00 - 18:30)

Subsequent to a Chemical, Biological, Radiological or Nuclear event, whether intentional or not, the importance of a rapid and correct response by the emergency management team is vital, in order to reduce the magnitude of the effects to a minimum and to save lives.

The correct response in such a crisis can only be achieved by following previously defined and well-rehearsed standard operating procedures, and a prompt and correct communication flow at both the strategic and operational levels.

A well-defined command and control workflow is the best basis for good management of such an emergency, both from a civilian and military standpoint, thus highlighting the duality approach in such an event.

The session is aimed at bringing together researchers and experts in the following fields:

- **Emergency Management**
- **Crisis Management**
- **Disaster Management**
- **Industrial Accidents**
- **Command and Control of CBRNE Events**
- **Civil Protection and Safety**



CHAIRMAN | Steve Johnson

Adj. Professor at the Georgetown University (USA)



CO-CHAIRMAN | Bonnie D. Jenkins

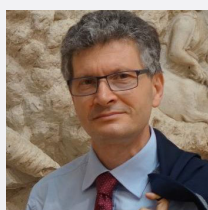
Coordinator for Threat Reduction Programmes ISN/TR, US Department of State, Bureau of International Security and Nonproliferation (USA)



CO-CHAIRMAN | Ludy Parapancha Suryantoro

Senior Advisor – High Level Government and External Relations, Office of Assistant Director-General, World Health Organisation (WHO). (Switzerland)

ORAL PRESENTATIONS



Stefano Marsella* (Invited Speaker) D. Pozzi, N. Sciarretta, M. Marzoli.
*Director of Istituto Superiore Antincendi (ISA), Ministry of Interior, Department of Fire Brigades (Italy)

CBRNe events and mass evacuation planning



Amb. Bonnie D. Jenkins (Invited Speaker)
Coordinator for Threat Reduction Programs ISN/TR, US Department of State, Bureau of International Security and Nonproliferation (USA)

Global partnership on CBRNE: a worldwide solution



Steve Johnson

Adj. Professor at the Georgetown University (USA)

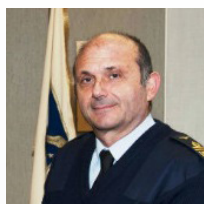
**Hazardous Investigations
- bringing CBRN and other
forensic challenges together**



Ludy Parapancha Suryantoro

Senior Advisor – High Level Government and External Relations, Office of Assistant Director-General, World Health Organisation (WHO) (Switzerland)

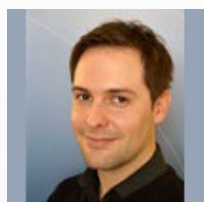
Title TBD



Fabio Molteni

ARMY CORPS GENERAL, Head of the Test Flight Center of the Italian Air Force Logistic Command (Comandante della 1ª Divisione del Comando Logistico dell'Aeronautica Militare - Centro Sperimentale di Volo)

**Understanding Homemade
Explosives (HMEs): the first
step for enhanced security**



Louis Gauntlett (1), G. J. Rubin (1) & R. Amlot (2).

(1) Researcher, Department of Psychological Medicine, Weston Education Centre (UK) (2) Public Health England, Applied Psychological Sciences, Emergency Response Dept, Health Protection Directorate, Public Health England.

**What Predicts Behaviour
Immediately Following a
Deliberate Radiation Release?**



Ibrahim Al Marzouqi

Head of Strategy Department, Emergency and Public Safety Department, ADP, GHQ (United Arab Emirates)

**Community Awareness in
Disaster and Emergency
Settings: A Case Study of the
United Arab Emirates.**



Carlos Rojas-Palma (1), F. Steinhäusler (2), P. Kuça (3)

(1) Belgian Nuclear Research Center, Environment, Health and Safety Institute, (Belgium) (2) Department Chemistry and Physics of Materials, Paris-Lodron University of Salzburg, Hellbrunnerstr. (Austria) (3) National Radiation Protection Institute, Prague, (Czech Republic)

**On the reconstruction of a
radiological incident and its
possible implications for an
R-type terror attack**



L. Pascual (1), L. Amigo (1), M. Fernández (1) and Javier Quiñones Diez (1)

CIEMAT, Subdirector General of Safety and Refurbishment Facility, Madrid (Spain)

**First measurement has gotten
off using fog as CBRN counter.
Nuclear and Radiological
scenario**



Amer Hosin

Professor of Trauma Psychology & Child Psychiatry
Senior Academic Advisor, Emergency and Public Safety Department, ADP, GHQ (United Arab Emirates)

Emergency in Disasters and the Needs of Displaced Population



Mariana Carpes (1), K. Pantaleão (1)

Prof., Dr at Escola de Comando e Estado-Maior do Exército (ECEME), (Brasil)

Brazil's CBRNe defense system and the challenges to keep the operational capability acquired over the last decade

SESSION OPEN

Submit your Contribution to SICC 2017 conference. Join this session!

Submit your abstract today!

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SESSION 2 - MODELING AND SIMULATION, DIFFUSION AND DISPERSION

Monday, 22 May 2017 (14:00 - 18:30)

CBRNE events may disperse harmful agents into the air, water or onto the soil. The prediction of where this material may be is essential for prevention, response and to reduce the impact of the event. In order to achieve these goals, Modelling and Simulation is a useful tool that can be used to estimate both the location and concentration of deposited material.

The use of mathematical models as a basis for simulations has been applied to simulate the dispersion of harmful substances, such as chemical compounds, radioactive materials, as well as biological warfare agents. By coupling clinical models to numerical simulations, it is possible to get accurate information about the potential effects on human health following a CBRN event.

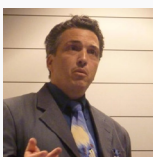
The session is aimed at bringing together researchers and experts in the following fields:

- **Modelling and Simulation**
- **Analysis and Evaluation of CBRNE Threats**
- **CBRNE Hazard Simulation**
- **Diffusion and Dispersion Models**
- **Software and Tools for Safety and Security**
- **Environmental Contamination**
- **CBRNE Risk Mitigation**
- **CBRNE Risk Scenarios**



CHAIRMAN | Enrico Sciubba

Full Professor in Turbomachinery and Energy System, University of Rome La Sapienza (Italy)



CO-CHAIRMAN | Marco Biagini

Lieutenant Colonel, NATO Modelling & Simulation Centre of Excellence (Italy)



CO-CHAIRMAN | Andrea D' Ambrogio

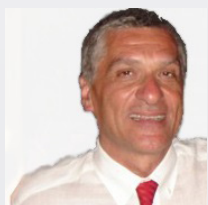
Associate professor of Software and Systems Engineering, Department of Enterprise, University of Rome Tor Vergata

ORAL PRESENTATIONS



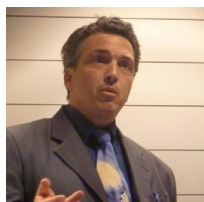
Marco D' Arienzo (1) (Invited Speaker),
Biancotto S. (2), Malizia A. (3)
(1) Senior Researcher, ENEA, Casaccia
Research Centre (Italy)
(2) ENEA, Casaccia Research Centre
(Italy)
(3) Department of Biomedicine and
Prevention, University of Rome Tor
Vergata

**Radiation exposure of the
population following a dirty
bomb attack in a large
metropolitan area**



Enrico Sciubba (Invited Speaker)
Full Professor in Turbomachinery and
Energy System, University of Rome La
Sapienza (Italy)

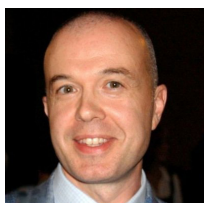
**Numerical simulation as a tool
to prevent CBRNE emergency**



Marco Biagini

Lieutenant Colonel, NATO Modelling & Simulation Centre of Excellence (Italy)

Modeling and simulation tools for detection of radioactive material used in dirty bombs



Andrea D'Ambrogio

Associate professor of Software and Systems Engineering, Department of Enterprise, University of Rome Tor Vergata (Italy)

Emergency prevention through the use of numerical simulation



Jean-François Ciparisse

Researcher Department of Industrial Engineering, University of Rome Tor Vergata (Italy)

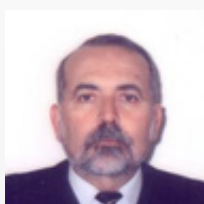
Emergency prevention through the use of numerical simulation



Gianmarco Contessa (1), Guardati M. (2), Poggi C. (2), Sandri S. (2), D'Auria M.C. (3), Genovese E.(2), Cannatà V.(2), M. D'Arienzo (2)

(1) Senior Researcher, ENEA, Casaccia Research Centre (Italy) (2) ENEA, Casaccia Research Centre (Italy) (3) International Master Courses in Protection Against CBRNe events, University of Rome Tor Vergata.

The impact of Climate Change on radiological emergencies: a case study in Italy

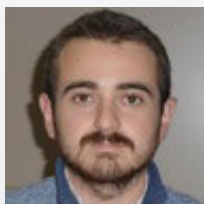


John G. Bartzis (1), G. C. Efthimiou (2), S. Andronopoulos (2)

(1) Professor at University of Western Macedonia, Dept. of Mechanical Engineering, Sialvera & Bakola Str., 50100, Kozani, Greece.

(2) Environmental Research Laboratory, INRASTES, NCSR Demokritos, Patriarchou Grigoriou & Neapoleos Str., 15310, Aghia Paraskevi, Greece.

Short Exposure Times for Airborne Hazardous Releases in Urban Environments



Arturo Buscarino (1), L. Fortuna (1), M. Frasca (1)

(1) DIEEI, University of Catania, (Italy)

Epidemic spreading in populations of moving individuals

SESSION OPEN

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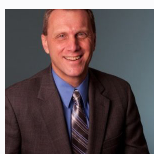
SESSION 3 – EDUCATION AND TRAINING

Monday, 22 May 2017 (14:00 – 18:30)

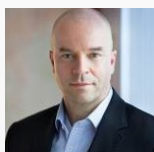
The evolution of and increase in Safety and Security threats requires an improvement to the emergency systems to deal with crisis, including those connected to ordinary and non-conventional events. In every industrial country there are multiple entities with highly-specialized teams in very specific fields, but the complexity of the events requires professionals that not only have specific know-how, but also expertise in the relevant areas. To face an emergency properly highly specialized first responders and CBRNE advisors to the decision makers require comprehensive competences in the field of CBRNE safety and security. Active learning is a key element to CBRNE awareness and preparedness and represents two critical factors that need to be improved.

The session is aimed at bringing together researchers and experts in the following fields:

- **Active Learning**
- **Education Methodologies**
- **CBRNE Awareness and Preparedness**



CHAIRMAN | Frank Reiner
President of The Chlorine Institute (USA)

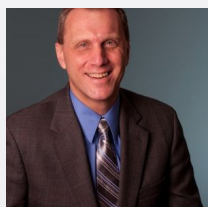


CO-CHAIRMAN | Dieter Rothbacher
Co-owner of the Hotzone Solutions Group BV (The Netherlands)



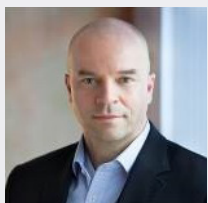
CO-CHAIRMAN | Andrea Malizia
Researcher in Physics and Measures at the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)

ORAL PRESENTATIONS



Frank Reiner (Invited Speaker)
President of The Chlorine Institute (USA)

The Sum is Greater than the Parts: The Chlorine Institute Approach to Emergency Response Training



Dieter Rothbacher (Invited Speaker)
Co-owner of the Hotzone Solutions Group BV (The Netherlands)

Training as a key-issue in case of CBRNE issues



Andrea Malizia

Researcher in Physics and Measures at the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)

Actions and efforts to turn CBRNE in an Academic Discipline



Amer Hosin

Senior Consultant and main Adviser of the Emergency and Public Safety Department, Abu Dhabi Police GHQ (United Arab Emirates)

The added value of continual professional development (CPD) and training programmes for staff working in emergency settings



Angelo Minotti

Researcher and DUAL-USE expert, University of Rome La Sapienza (Italy)

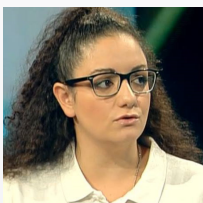
Academic outreach on counterproliferation: the Dual Use Space System technical course



Andrea Gloria

Lt. Col. (OF-4), ITA-A, Department Director PROT, Protection Department, NATO SCHOOL, Obberammergau, Germany, (Italy)

Proposal of an innovative International Training Curriculum for advisors in emergencies and CBRNe events management



Giada Bellanca

International Master Courses in Protection Against CBRNe events, University of Rome Tor Vergata

Project and solution to fill the gap between professionals and population



Francesco Romanelli

Full Professor of Nuclear Physics at the Department of Industrial Engineering, University of Rome Tor Vergata (Italy)

The Master in Fusion Energy - opportunities for education and training in high-tech field



Roberto Fiorito

Assistant Professor at the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)

The importance of education to improve the maxi-emergency medical system

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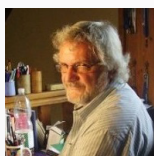
SESSION 4 - CBRNE POLICIES, INTERNATIONAL LEGAL AND ECONOMIC FRAMEWORK

Monday, 22 May 2017 (14:00 - 18:30)

CBRNE is a multidiscipline field, which requires a high level of commitment from law and policy makers to define sound political and legal instruments to effectively deal with the subject. The “old” threat represented by the military use of chemical, biological, radiological/nuclear agents has rapidly evolved due to a constantly changing world, compounded by cyber-related issues as well as technological and dual-use implications. Moreover, to guarantee the rapid movement of people and goods worldwide, there is a clear need for strong and easily applicable legal regimes. At the same time, CBRNE and Cyber threats have to be examined carefully from the economical perspective, since many assets may be the target of CBRNE or Cyber attack. Moreover, economic investigations represent a useful tool, and can provide additional information related to the illicit trade of CBRNE materials worldwide.

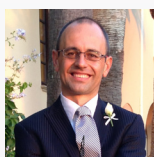
The session is aimed at bringing together researchers and experts in the following fields:

- **International legal frameworks governing CBRNE: gaps and opportunities**
- **Non-proliferation and disarmament regimes**
- **Economic analysis of CBRNE events**
- **International legal framework governing Cyber related issues: gaps and opportunities**
- **Economic analysis of Cyber threats**



CHAIRMAN | Ralph Trapp

International Disarmament Consultant, Chessenaz (France)



CO-CHAIRMAN | Donato Morea

Adj. Professor at the Department of Enterprise, University of Rome Tor Vergata (Italy)



CO-CHAIRMAN | Matteo E. Bonfanti

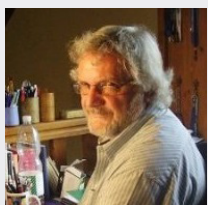
ETH Zürich, Senior Researcher at the Center for Security Studies (Switzerland)

ORAL PRESENTATIONS



Alfonso Pecoraro Scanio (Invited Speaker)
President, Fondazione UniVerde (Italy)

Title TBD



Ralf Trapp (Invited Speaker)
International Disarmament Consultant,
Chessenaz (France)

**CBRNe - legal framework or
legal patchwork?**



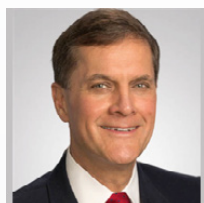
Donato Morea (1), L.A. Poggi (2), V. Tranquilli (3)
 (1) University of Rome Tor Vergata, Department of Industrial Engineering, Via del Politecnico, 1, 00133, Rome, (Italy)
 (2) University of Rome Tor Vergata, Department of Industrial Engineering, Via del Politecnico, 1, 00133, Rome, (Italy)
 (3) Order of Engineers of the Province of Rome, Piazza della Repubblica, 59, 00185, Rome, (Italy)

Economic impact of biological incidents: a literature review



Matteo E. Bonfanti
 ETH Zürich, Senior Researcher at the Center for Security Studies (Switzerland)

"One Single Official Voice or Multiple Voices?" Ensuring Regulatory Compliance while Improving Effective (CBRN) Emergency or Crises Communication



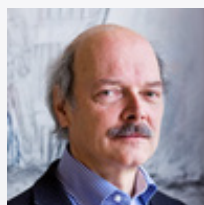
Jonathan Brewer
 Visiting Professor, Centre for Science and Security Studies, King's College London (UK)

The financing of proliferation of weapons of mass destruction USA



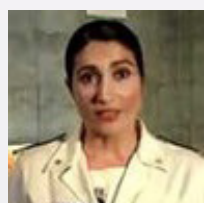
Zabta Khan Shinwari (1), S. Hameed (2), S. Tayyab (2), A.T. Khalil (2), M. Ali (2)
 (1) Professor at the Department of Biotechnology, Quaid-i-Azam University, Islamabad, Pakistan / Pakistan Academy of Sciences. (Pakistan) (2) Department of Biotechnology, Quaid-i-Azam University, Islamabad, (Pakistan)

Assessment of the dual use research concerns in life sciences; rethinking the future



Eric Myjer
 Professor of Conflict and Security Law, School of Law, Utrecht University, the Netherlands; Director Centre for Conflict and Security Law. (The Netherlands)

Arms control law as the common legal framework for CBRN security



Amalia Alberico
 (1) Italian Coast Guard Headquarters, Safety of Navigation department- Maritime Security Office, Rome- (Italy)

The International Maritime Security Legislation and Future Perspectives for Italian Ports



Hermann Alex Lampalzer
 Political Affairs Officer, Biological Weapons Convention Implementation Support Unit, UN Office for Disarmament Affairs (Geneva Branch), Palais des Nations, Geneva (Switzerland)

The Biological Weapons Convention at a crossroads: The way ahead after the Eighth Review Conference

**Arianna Frascchetti**

Senior Legal Officer , Organisation for the Prohibition of Chemical Weapons (OPCW), Office of the Legal Adviser, The Hague, (The Netherlands)

The OPCW's mandate related to chemical safety and security

**Scott Spence**

VERTIC, National Implementation Measures Programme, Development House, London, (United Kingdom)

Methodology for Assistance in CBRN Legislation and Implementation

**Silvia Venier**

Scuola Superiore Sant'Anna, Institute of Law, Politics, Development (DIRPOLIS), Pisa, (Italy)

A Human Rights approach to protection from CBRN risks

**Francesca Capone**

Research Fellow in Public International Law and Coordinator of the Master in Human Rights and Conflict Management, Scuola Superiore Sant'Anna (Italy)

The EU Response to the CBRN Terrorism Threat: A Critical Overview of the Current Legal Framework



A. Coviello (1) and **Giovanni Di Trapani (1)**
(1) National Research Council (CNR) Institute for Research on Innovation and Services for Development (Italy)

The Risk Management and the transfer to the insurance market

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SESSION 5 - MEDICAL MANAGEMENT AND FIRST AID

Tuesday, 23 May 2017 (13:30 - 18:00)

First aid can be one of the main bottlenecks of emergency response; therefore, an effective Medical Management is key to the response in case of CBRNE events. Health services are a critical infrastructure that has to be prepared and resilient to CBRNE incidents and attacks.

This means having plans, procedures, equipment, and trained personnel, on the one side, and a smooth cooperation among first responders and stakeholders on the other. An increasing number of research and innovation projects addressing the issue of medical management and first aid in the framework of CBRNE events, testifies to the growing need to find new and smart solutions in terms of materials, equipment, procedures, communication and general management.

The session is aimed at bringing together researchers and experts in the following fields:

- **Medical management and the role of medical management in CBRNE safety and security**
- **Medical countermeasures: vaccines, antimicrobial and antiviral drugs, blood products and antibodies, devices including diagnostic tests**
- **Triage**
- **Personal Protective Equipment (PPE)**
- **Collective Protective Equipment (CPE)**
- **Decontamination**
- **Diagnostic and Surveillance**
- **Biological emerging and re-emerging threats and Epidemiology**
- **Dual-use**
- **Chemical, Biological, Radiological threats to medical management**
- **Hazardous materials – hazmat**
- **Innovative materials for medical applications**



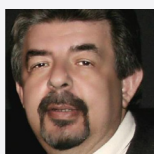
CHAIRMAN | Giovanni Rezza

Research Executive Director, Italian Health Institute (Italy)



CO-CHAIRMAN | Stef Stienstra

Strategic consultant in biomedical science, Commander of the reserve of the Royal Dutch Navy (The Netherlands)



CO-CHAIRMAN | Ioannis Galatas

BrigGen. (Rtd), MD Consultant in Allergy and Clinical Immunology, Medical/ Hospital/Ops CBRNE Planner/instructor Manager @ CBRN Knowledge Center, International CBRNE Institute (Belgium)

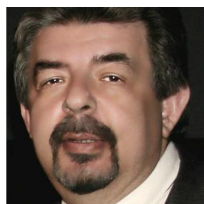
ORAL PRESENTATIONS



Leonardo Palombi (Invited Speaker)

Full Professor in Epidemiology and Director the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)

International medical emergencies, terrorism and immigration



Ioannis Galatas (Invited Speaker)
BrigGen. (Rtd), MD Consultant in Allergy and Clinical Immunology, Medical/Hospital/Ops CBRNE Planner/instructor Manager @ CBRN Knowledge Center, International CBRNE Institute (Belgium)

How to CBRNE-proof your hospital



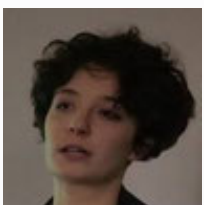
Giovanni Rezza
Research Executive Director, Italian Health Institute (Italy)

Italian Health Institute actions during biological maxi-emergencies



Stef Stienstra
Strategic consultant in biomedical science, Commander of the reserve of the Royal Dutch Navy (The Netherlands)

Counter measures in CBRNe threats and medical consequence management both in a military and a civilian setting



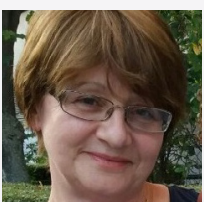
Rachele Brancaleoni (1), D. Gui (2), S. Magalini (2), M. Foco (2), G. Capalbo (3), P.M. Soave (3)
(1) Catholic University of Sacred Heart, Largo F. Vito, 1, Rome, Italy (2) Fondazione Policlinico Gemelli, Dept. of Emergency Surgery, Largo A. Gemelli, 8, Rome, Italy (3) Fondazione Policlinico Gemelli, Accident and Emergency Department, Largo A. Gemelli, 8, Rome, Italy

Development of a CRN training course: the case of Gemelli hospital



Gideon Waterman (1), Oren Milstein (1), **Amos Schupak (1)**, Itzhak Orion (2), Kenneth Kase (1)
(1) Department of Research & Development, StemRad, Ltd., 6 Raoul Wallenburg St. 1st Floor Tel Aviv 6971905, Israel. (2) Department of Nuclear Engineering, Ben-Gurion University of the Negev. P.O.B.653, Beer-Sheva 84105, Israel

Bone Marrow Selective Shielding Personal Protective Equipment to Mitigate Deterministic and Stochastic Radiation Effects for First Responders



Gordana Joksić
Biologist, PhD. Vinča Institute of Nuclear Sciences, M.Petrovića Alasa 12-14, 11000 Belgrade, Department of Physical Chemistry (Serbia)

The micronucleus test in radiation accidents



Roberto Fiorito (1)
(1) Assistant Professor at the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)

Best practices in nuclear medicine. A proposal for Italy

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SESSION 6 - DECISION SUPPORT SYSTEM (DSS)

Tuesday, 23 May 2017 (13:30 - 18:00)

A Decision Support System (DSS) can be seen as both a tool to help the decision-making process in the aftermath of a CBRNE event, as well as a tool to optimize the planning and management of operations. Today, DSSs are essential instruments in coping with problems that may not have been identified in advance and are changing rapidly, or when dealing with large amounts of data. DSSs are interactive software-based systems intended to help decision makers to gather useful information from a combination of raw data, documents, and personal knowledge. Therefore, DSSs greatly assist the identification and solving of problems, hence the decision-making process. In this regard, DSSs can be extremely helpful when applied to CBRNE Prediction, Planning and Emergency Management.

This session is aimed at bringing together researchers and experts in the following fields:

- **Big Data**
- **Data Mining Applied to Safety & Security**
- **Software and Tools for Safety & Security**
- **CBRNE Events Prediction and Management**



CHAIRMAN | Andrea Murari
Consortium Eurofusion-RFX CNR (UK)



CO-CHAIRMAN | Jesús Vega
Head of Unit, CIEMAT Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, (Spain)



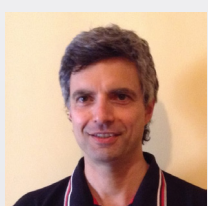
CO-CHAIRMAN | Parag Chatterjee
Professor at the Universidad Tecnológica Nacional, Buenos Aires (Argentina)

ORAL PRESENTATIONS



Jesús Vega (Invited Speaker)
Head of Unit, CIEMAT Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, (Spain)

Machine Learning Tools in Support of Classification Decision



Andrea Murari (Invited Speaker)
Consortium Eurofusion-RFX CNR (UK)

Big data analysis as a tool to prevent and manage emergencies



Parag Chatterjee

Professor at the Universidad Tecnológica Nacional, Buenos Aires (Argentina)

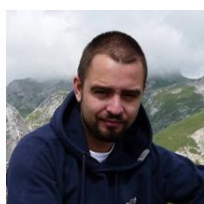
Internet of Things - Redefining Healthcare



Robin Singh Bhadoria

Researcher at the Indian Institute of Technology Indore (India)

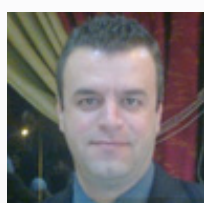
Provisioning for Sensory Data using Enterprise Service Bus: A Middleware Epitome



Thibaut Jombart

Researcher at the Department of Infectious Disease Epidemiology, Imperial College London (France)

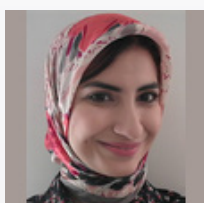
The R Epidemics Consortium: building the next generation of statistical tools for outbreak response using R



Issa Kamar (1), Mohamad Toutayo

(2), Parag Chatterjee (3), Leandro Cymberknop (3), Ricardo Armentano (4) (1) Professor at Arts Science and Technology University, Beirut, (Lebanon) (2) Arts Science and Technology University, Beirut, (Lebanon) (3) National Technological University (UTN.BA), Buenos Aires, (Argentina) (5) Favaloro University, Buenos Aires, (Argentina)

Internet of Things in Healthcare – Application in Cardiovascular Emergencies



Ibtissam Khalfaoui (1), Amar Hammouche

(2) (1) Mohammadia School of Engineers, department of Mechanical Engineering, Mohamed V University, Rabat, (Morocco). (2) PES, Research Team IMOSYS, department of Mechanical Engineering, Mohammadia School of Engineers, Mohamed V University, Rabat, (Morocco)

Modeling and Optimization of the Regional Network of Health Emergency Services in Morocco



Jiayi Qi (1), Di Wu(1), Yan Ma(1)

State Key Laboratory of NBC Protection for Civilian, Beijing, P. R. (China)

Establishing the Advanced Technology Supporting System for CBRNE Defense Conversion

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SESSION 7 - CYBER SECURITY, CBRNE INTELLIGENCE, CBRNE FORENSIC AND CRITICAL INFRASTRUCTURES

Tuesday, 23 May 2017 (13:30 - 18:00)

Cybersecurity is becoming crucial, as more information and advanced technology is being made available in cyberspace. As recent events have demonstrated, cyberspace has to be considered the new theatre of warfare and has the potential to undermine the stability of a country.

New terms, such as cyberwarfare and cyberterrorism, were coined to better describe this threat and there is growing concern among governments, that they are not ready to fully face such an emerging menace. More critical infrastructure is being remotely controlled via software systems that, while increasing efficiency, expose new vulnerabilities. In this scenario, CBRNE Intelligence plays an extremely important role in preventing the malicious use of, an otherwise beneficial, asset.

This session is aimed at bringing together researchers and experts in the following fields:

- **CBRNE Intelligence**
- **Information Security**
- **Emerging Cyberterrorism Threats**
- **Critical infrastructures**



CHAIRMAN | Umberto Rapetto

CEO of Human Knowledge as Opportunity (HKAO), Senior Partner at CYBERIUS (Italy), B. Gen. (Ret.) Italian Economic, Tax and Finance Police (Italy)



CO-CHAIRMAN | Ian Stubbs

Inspector at the National CBRN Centre, UK Police (UK)



CO-CHAIRMAN | Roberto Setola

Professor at the Università Campus Bio-medico di Roma, and Director of Master in Homeland Security (Italy)

ORAL PRESENTATIONS



Umberto Rapetto (Invited Speaker)
CEO of Human Knowledge as Opportunity (HKAO), Senior Partner at CYBERIUS (Italy), B. Gen. (Ret.) Italian Economic, Tax and Finance Police (Italy)

Title TBD



Roberto Setola (Invited Speaker)
Professor at the Università Campus Bio-medico di Roma, and Director of Master in Homeland Security (Italy)

How to evaluate the risk for interdependent Critical Infrastructures scenarios

	Nys Bart (1) , Natalie Kummer (1), Peter De Bruyn (2), Jan Blok (2), Ed Van Zalen (2) (1) National Institute of Criminalistics and Criminology, Brussels, (Belgium) (2) Netherlands Forensic Institute, Laan van Ypenburg 6, P The Hague, (The Netherlands)	Increasing Forensic Awareness with CBRNE Responders and CBRNE Awareness with Forensic Experts - a Pan-European Challenge
	Paolo Castelli Ministry of Interior, Department of Fire Brigades (Italy)	A review of the progress of early-warning crisis management systems for CBRNE attacks in high threat infrastructures
	Stephanie Meulenbelt National Institute for Public Health and the Environment, Centre for Environmental Safety and Security (The Netherlands)	Risk assessment methodology and CBRN-related threats
	Andrea Gloria Lt. Col. (OF-4), ITA-A, Department Director PROT, Protection Department, NATO SCHOOL, Obberammergau, Germany, (Italy)	CBRNe Intelligence
	John Hart Stockholm International Peace Research Institute (SIPRI). (Sweden)	The Role of Unmanned Autonomous and Semi-autonomous Platforms for OPCW verification and Investigations of Alleged Use
	L. Faramondi, Roberta Pellegrino , R. Setola University Campus Bio-Medico of Rome (UCBM), Via Alvaro del portillo n21, Rome, (Italy)	Analysis of Blast Impact Estimation in Industrial Plants
	Edoardo Cavalieri d'Oro Italian National Fire Brigades, Milan Headquarters, Milano (Italy)	Drones in the nearest future: ally or threat to CBRNe events?

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SESSION 8 - EMERGENCY COMMUNICATION AND PSYCHOLOGY

Tuesday, 23 May 2017 (13:30 - 18:00)

Clear communication strategies and effective psychological approaches are significant aspects to improve the quality of the prevention and the management of CBRNE events. Reducing the effects and consequences on the population as well as operators in the field. By definition first responders are normally the first to arrive on the scene, and are therefore in direct contact with the victims of a CBRNE event as well as with the components of other teams on the hotspot.

A sound knowledge of the issues affecting the psychology of those involved and communication at strategic, operational and tactical level is a key aspect of an effective response. Mastering emergency communication is essential to avoid the spread of incorrect or inappropriate information that may cause, panic or lead the population to underestimate the gravity of the situation. Thus, Raising Awareness in the population is another fundamental aspect on which emergency communication and psychology are focused.

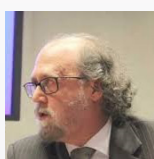
This session is aimed at bringing together researchers and experts in the following fields:

- **Emergency Communication and Information**
- **Emergency Psychology**
- **First Response in Case of CBRNE Events**
- **Raising Awareness**



CHAIRMAN | Amer Hosin

Senior Academic Advisor, Emergency and Public Safety Department, ADP, GHQ
(United Arab Emirates)



CO-CHAIRMAN | Ferruccio Di Paolo

Ministry of Interior, Department of Fire Brigades (Italy)

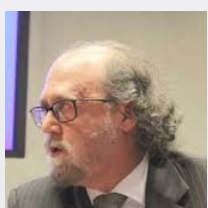
ORAL PRESENTATIONS



Amer Hosin (Invited Speaker)

Senior Academic Advisor, Emergency and Public Safety Department, ADP, GHQ
(United Arab Emirates)

Victims reactions and psychological trauma in emergency and disaster settings



Ferruccio Di Paolo (Invited Speaker)

Ministry of Interior, Department of Fire Brigades (Italy)

Psychology and Communication during CBRNE events



Abdulla Al Hmoudi

Head of Training Department, Emergency and Public Safety Department, ADP, GHQ. (United Arab Emirates)

Early warning communication in disaster



Holly E. Carter (1), J. Drury (2), G. J. Rubin (3), R. Williams (4) and R. Amlot (5).

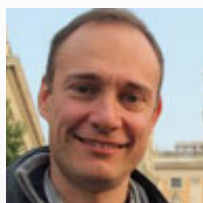
(1) Researcher, Public Health England, Behavioural Science Research Team, Salisbury (UK)

(2) University of Sussex, School of Psychology, Falmer, Brighton, (UK)

(3) King's College London, Department of Psychological Medicine, London, (UK)

(4) University of South Wales, Welsh Institute for Health and Social Care, Cardiff and Pontypridd (UK) (5) Public Health England, Behavioural Science Research Team, Porton Down, Salisbury, (UK).

How crowd psychology can improve public compliance and cooperation during mass decontamination: implications for public behaviour during a CBRN incident



Luca Rotondi (1), M. Zuddas (1)

International Master ISSMM Student, Faculty of Medicine and Surgery, University of Rome Tor Vergata, Rome, (Italy)

Deaf communication techniques in a big natural disaster: the experience of the Amatrice Earthquake

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SESSION 9 - CBRNE-RELATED GEOPOLITICAL ISSUES

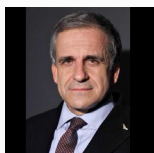
Wednesday, 24 May 2017 (10:00 - 16:00)

In an ever changing international scenario, with non-conventional and CBRNE threats on the rise, the need for Global Partnership focused on Safety and Security is essential. Cooperation among international entities is a key aspect of the preparedness and ability to counteract CBRNE events, whose effects could often cross borders, jeopardizing the safety of the population of different countries.

Non-Proliferation and Disarmament initiatives are a fundamental means in reducing the risks connected to the proliferation and potential use of CBRNE agents. International Response Systems allow improved public Safety and Security in these situations.

This session is aimed at bringing together researchers and experts in the following fields:

- **Non-Proliferation and Disarmament;**
- **International Cooperation and Response;**
- **Global Partnerships for Safety and Security;**
- **Evolution of the CBRNE Threats;**
- **Terrorist Threats;**
- **Improvised Explosive Device (IED), Explosives Ordinance Disposals (EOD), Non-Conventional Threats (NCT)**
- **Explosives and Dirty Bombs;**
- **Dual Use.**



CHAIRMAN | Maurizio Martellini

Associate Professor of Physics, University of Insubria (Italy)



CO-CHAIRMAN | Krzysztof Paturej

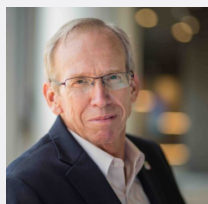
Ambassador, Director of the International Centre for Chemical Safety and Security - ICCSS (Poland)



CO-CHAIRMAN | Ralf Trapp

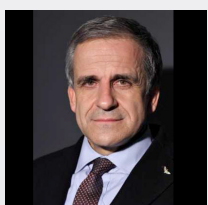
International Disarmament Consultant, Chessenaz (France)

ORAL PRESENTATIONS



Jim Welch (Invited Speaker)
Executive Director - Elizabeth R Griffin
Research Foundation (USA)

**Linking High Reliability
Organizations**



Maurizio Martellini (Invited Speaker)
Associate Professor of Physics, University
of Insubria (Italy)

**The CBRNE security paradigm
as new formal institution**



Krzysztof Paturej

Ambassador, Director of the International Centre for Chemical Safety and Security- ICCSS (Poland)

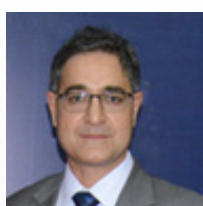
The role of ICCSS to improve the chemical emergencies



Igor Khripunov

Center for International Trade and Security At University Of Georgia. (USA)

Human Factor and Biorisk Management: Culture Assessment and Enhancement



Naeem Haider

PhD, Brigadier at Arms Control & Disarmament Affairs Branch, Strategic Plans Division, Chaklala garrison, Rawaplindi, Punjab, (Pakistan)

CWC & BWC: Orienting to emerging Chem-Bio risks and threats



William So

PhD, Policy & Program Specialist, United States Federal Bureau of Investigation (FBI) Weapons of Mass Destruction Directorate, Biological Countermeasures Unit, Washington, DC, (USA)

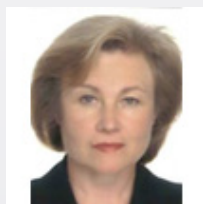
The Convergence of Security, Science, and Safety



Jayant Sangwan

United Nations Interregional Crime and Justice Research Institute (UNICRI), CBRN Risk Mitigation and Security Governance Programme, Viale Maestri del Lavoro, 10 - 10127, Turin, Piedmont, (Italy)

CBRN International Legal Framework and Needs Identified by Partner Countries



M. Barbeschi (1), Irina Zastenskaya (2), D. Nirzan (3), F. Cerutti (1), E. Paunovic (2) (1) World Health Organization, Geneva, Switzerland. (2) WHO European Centre for Environment and Health, Bonn, Germany. (3) WHO Regional Office for Europe, Copenhagen, Denmark

Public health in the center of global agendas for disasters and emergencies risk reduction



E. Bergamini (1), F. Jacobone (2), **Donato Morea (3)**, G.P. Sciortino (4)

(1) University of Rome Tor Vergata,
Department of Enterprise Engineering,
Via del Politecnico, 1, 00133, Rome, (Italy)

(2) University of Roma Tre, Department
of Engineering, Via della Vasca Navale,
79/81, 00146, Rome, (Italy)

(3) University of Rome Tor Vergata,
Department of Industrial Engineering, Via
del Politecnico, 1, 00133, Rome, (Italy)

(4) Shortman Consultants, Via Enrico
Glori, 40, 00137, Rome, (Italy)

**The increasing risk of space
debris impact on Earth: case
studies, potential damages,
international liability
framework and management
systems**



Kalimi M. Mwoira

Ambassador (South Africa)

Title TBD

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SESSION 10 - CBRNE CENTERS OF EXCELLENCE - COE

Wednesday, 24 May 2017 (10:00 - 16:00)

CBRNE is a multidisciplinary domain that requires a joint effort to bring together expertise and knowhow in order to address this threat from a comprehensive and effective perspective. A number of initiatives have been promoted from international organizations like NATO and the European Union, to create Centres of Excellence (COE) in the field of CBRNE.

The role of such centres ranges from providing strategic, operational and tactical advice for defence, to the establishment and strengthening the institutional capacity to mitigate CBRNE risks.

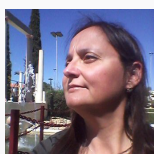
The session is aimed at bringing together stakeholders, experts and researchers in the following fields:

- **CBRN Programmes**
- **Research & Innovation**
- **Risk Assessment and Management**
- **Defence**
- **Training**
- **Policies**



CHAIRMAN | Volker R. Quante

Deputy Director & DEU Senior National Representative, Joint CBRN Defence Centre of Excellence (Czech Republic)



CO-CHAIRMAN | Margarita Goulart

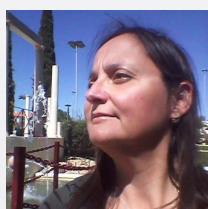
Nuclear Safety and Security Unit, European Commission Directorate-General Joint Research Centre (Belgium)



CO-CHAIRMAN | Stefano Giribono

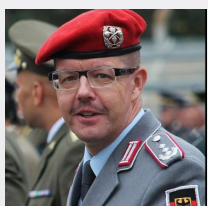
Colonel, 7th CBRN Defense Regiment Commander, Italian Army (Italy)

ORAL PRESENTATIONS



Margarita Goulart (Invited Speaker)
Nuclear Safety and Security Unit,
European Commission Directorate-
General Joint Research Centre (Belgium)

**COE effective solutions to
reduce CBRNE risks**



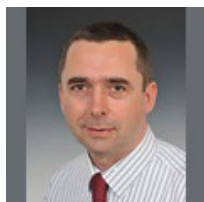
Volker R. Quante
Deputy Director & DEU Senior National
Representative, Joint CBRN Defence
Centre of Excellence (Czech Republic)

**Knowledge Management
and other Scientific Aspects
of CBRN Defence from a
Practitioner's Perspective**



Stefano Giribono (1), D. Del Gaudio (2)
 (1) Colonel, 7th CBRN Defense Regiment
 Commander, Italian Army (Italy)
 (2) 7th CBRN Defense Regiment -
 Technical Support Section Chief, Italian
 Army (Italy)

**7th CBRN Defense Regiment
 - Capabilities, tasks, main
 systems and equipment**



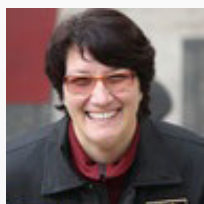
Shaun A. Forth (1), S. Johnson(2), S. J.
 Burrows(1), R. P. Sheldon (3)
 (1) Centre for Simulation & Analytics,
 Cranfield University, Defence Academy
 of the United Kingdom, Shrivenham, SN6
 8LA, (UK)
 (2) Cranfield Forensic Institute, Cranfield
 University, Defence Academy of the
 United Kingdom, Shrivenham, SN6 8LA,
 (UK)
 (3) Centre for Defence Engineering,
 Cranfield University, Defence Academy
 of the United Kingdom, Shrivenham, SN6
 8LA, (UK)

**Cranfield University Centre
 of Excellence in Counter-
 Terrorism**



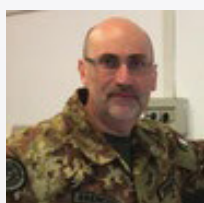
Salvatore Corrao
 Department o Fire Brigades, Ministry of
 Interior, Via Genova, Roma, (Italy)

**The activities of Italian Fire
 Brigades to reduce the CBRNe
 risks in big events, such as
 Jubilee**



Stefania Fiore and E. Occhiuzzi
 Italian National Fire and Rescue Service,
 Central Directorate of Emergency and
 Technical Rescue, Piazza del Viminale,
 Roma, (Italy)

**Italian National Fire and Rescue
 Service: CBRNe Emergency
 Response and National Civil
 Defence**



Raffaele Zagarella and R. Santaguida
 Joint Center for Military Studies and
 Applications, CISAM, Via della Bigattiera -
 Pisa. (Italy)

**The Activities of CISAM for
 radiation safety in the Armed
 Forces**

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SESSION 11 - BIOLOGICAL AND CHEMICAL SAFETY AND SECURITY, PROTECTION AND DECONTAMINATION

Wednesday, 24 May 2017 (10:00 - 16:00)

Biological and Chemical agents are widely used in the industrial world; they are often easily available on the open market and therefore may be used deliberately to cause harm, and have been often used as warfare agents. Under this premise, it is clear how important Biological and Chemical Safety and Security are for first responders and other involved professionals, civilian and military organizations and the population. Risk reduction can be achieved by both enhancing the protection of the actors involved and constantly improving the decontamination systems. PPE and CPE, innovative materials, technologies and systems, engineering applications, experimental and applied physics and technical challenges related to CBRNE will be discussed in this section.

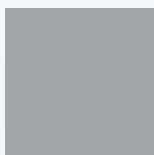
This session is aimed at bringing together researchers and experts in the following fields:

- **CBRNE Contamination and Decontamination**
- **Experimental and Applied Physics for CBRNE Agents Decontamination, Protection, Risks Reduction**
- **Engineering Applications for CBRNE Agents Decontamination, Protection, Risks Reduction**
- **Technical Challenges on CBRNE**
- **Chemical Safety & Security**
- **Biosecurity and Biosafety**
- **CBRNE Research & Innovation**
- **Personal Protective Equipment (PPE) Materials, Technologies and Systems**
- **Collective Protective Equipment's (CPE) Materials, Technologies and Systems**
- **Nanotechnologies and Nanomaterials for Safety & Security**
- **Innovative materials for CBRNE Applications**



CHAIRMAN | Cornelius Bartles

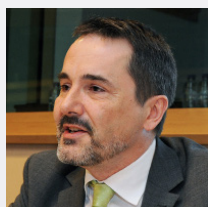
Deputy Head Global Biosecurity – GBS for the Robert Koch Institute (Germany)



CO-CHAIRMAN | Florigio Lista

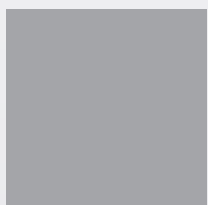
Col., Centro studi e ricerche di sanità e di veterinaria dell'esercito (Italy)

ORAL PRESENTATIONS



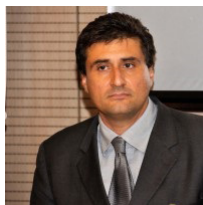
Cornelius Bartles (Invited Speaker)
Deputy Head Global Biosecurity – GBS for the Robert Koch Institute (Germany)

The Robert Koch Institute Role in the CBRNe protection



Florigio Lista
Col., Centro studi e ricerche di sanità e di veterinaria dell'esercito (Italy)

Title TBD



Piergianni Medaglia

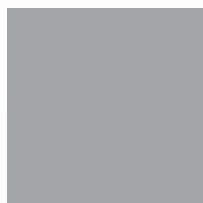
Researcher in Material Physics at the Department of Industrial Engineering, University of Rome Tor Vergata (Italy)

The role of ICCSS to improve the chemical emergencies



Klara Kubelkova, A. Myslivcova Fucikova, M. Schmidt, A. Macela, J. Stulik. University of Defense, Faculty of Military Health Sciences, Department of Molecular Pathology and Biology (Czech Republic)

Investigation of microbial-host interactions for development of decontamination and biodefence strategies



Kithalawaarachchi Samantha K. (1), K.A.T. Kumara (2), D. Jayalath, Dinidu Jayalath (3)
(1) Director Presidential Task force on Drug Prevention and Disaster Management, Presidents office (Sri Lanka) (2) Medical officer Disaster Management coordinator Teaching Hospital, Polonnaruwa (Sri Lanka) (3) GIS officer Ministry of Environment, (Sri Lanka)

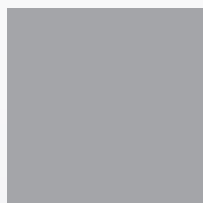
Development of MIC Real-Time PCR for Detecting Four Major Biological Weapons



Miah Basher Abul

(1) Acting President, Bangladesh Chemical Society (Bangladesh)

Chemical Safety & Security best practices in Bangladeshi Industries



Lei Mei-ling (1), Xi Hai-ling (1), Han Shi-tong (1) Zhong Jin-yi (1)
(1) State key laboratory of NBC protection for civilian, P.O.Box 1043 Beijing (China)

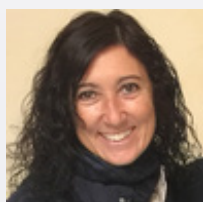
Reaction process of sulfur mustard in O/W microemulsion media



Alhmoudi Abdulla Ali

United Arab Emirates , Abu Dhabi Police – CBRN Unit Team. (United Arab Emirates)

CBRN Innovation Lab



A. Cirigliano (1), R. Negri (1) and **Teresa Rinaldi (1)(2)***

(1) Department of Biology and Biotechnology "Charles Darwin", La Sapienza University of Rome, Italy.
(2) Italian Army, Ministry of Defence, Italy.

Dual-use molecules from yeast



José L. Pérez-Díaz(1), Y. Qin(2), O. Ivanov(3), J. Quiñones (4), V. Stengl (5), K. Nylander (6), W. Hornig (7), J. Álvarez (8), E. Ruiz-Navas (9) and K. Mazanec (10)

1. Escuela Politécnica Superior, Universidad de Alcalá, (Spain)

2. University of Strathclyde, (United Kingdom)

3. Bulgarian Academy of Science, (Bulgaria)

4. Centro de Investigaciones Energéticas y Medioambientales (CIEMAT), (Spain)

5. Institute of Inorganic Chemistry, Academy of Sciences of Czech Republic. (Czech Republic.)

6. Consilium Marine and Safety AB, (Sweden)

7. BPE e.K., (Germany)

8. European Association of Railway Personnel (AEC)-section of Spain, (Spain)

9. Universidad Carlos III de Madrid (Spain)

Wen Zhu (1), S. S. Razia (2), M. S. Mannan (1)

(1) Mary Kay O'Connor Process Safety Center, Artie McFerrin Department of Chemical Engineering, Texas A&M University, College Station, (USA)

(2) Department of Chemical Engineering, Bangladesh University of Engineering and Technology, (Bangladesh)

Device for Large Scale Fog Decontamination: COUNTERFOG

Security Vulnerability Analysis (SVA) of a Chemical Management System

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SESSION 12 - DETECTION AND IDENTIFICATION

Wednesday, 24 May 2017 (10:00 - 16:00)

Rapid detection and identification of biological and chemical agents represent one of the major challenges today. The presence of environmental chemical and biological pollutants, arising from industrial and research facilities, may prohibit the use of some techniques that are used for the detection and identification of Chemical Warfare and Biological Warfare Agents.

This session examines the latest techniques that can be employed to detect and identify both civilian and military materials.

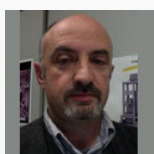
Particularly, the session is aimed at bringing together researchers and experts in the following fields:

- **CBRNE Detection and Identification Techniques and Methods**
- **Stand-on and Stand-off Detection and Identification Technologies**
- **Experimental and Applied Physics for CBRNE Detection and Identifications**
- **Engineering Applications for CBRNE Detection and Identifications**
- **Technical Challenges on CBRNE Explosive Detectors**
- **Field Sampling & Analysis**
- **Physics Applied to Safety and Security Issues**



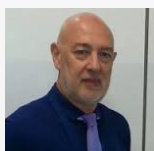
CHAIRMAN | Milica Marčeta Kaninski

Researcher at University of Belgrade, Vinča Institute of Nuclear Sciences (Serbia)



CO-CHAIRMAN | Pasqualino Gaudio

Researcher in Experimental Physics Department of Industrial Engineering, University of Rome Tor Vergata (Italy)



CO-CHAIRMAN | Antonio Palucci

Senior Researcher, ENEA, Frascati Research Centre (Italy)

ORAL PRESENTATIONS



Ten.Gen. Ing. Francesco Castrataro

(Invited Speaker)

Head of the Italian Army Engineers Corp,
Terrestrial Armaments Director (Capo
di Corpo degli Ingegneri dell'Esercito,
Direttore degli Armamenti Terrestri)

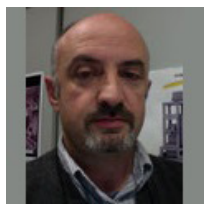
**Detection of Biological Warfare
Agents using UV Laser Induced
Fluorescence (LIF)**



Milica Marčeta Kaninski (Invited Speaker)

Researcher at University of Belgrade,
Vinča Institute of Nuclear Sciences
(Serbia)

Title TBD



Pasqualino Gaudio

Researcher in Experimental Physics Dep. of Industrial Engineering, University of Rome Tor Vergata (Italy)

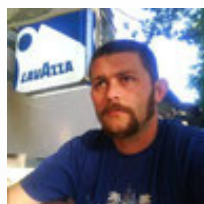
Standoff detection and identification of chemical agents by LIDAR and DIAL techniques



Antonio Palucci

Senior Researcher, ENEA, Frascati Research Centre (Italy)

Proximal and/or Stand-off detection of threats are demanding challenges in CBRNE



Vladimir Nikolic, M. Marčeta Kaninski, M. Tošić, Ž. Nikolić, D. Milovanović, T. Brdarić
University of Defense, Faculty of Military Health Sciences, Department of Molecular Pathology and Biology (Czech Republic)

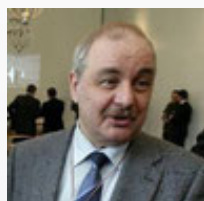
Detection and identification of the warfare agents in different matrices by capillary column electron impact GC-MS



Maria Pilar Pina

Researcher at the Nanoscience Institute of Aragon. Dep. of Chemical & Environmental Engineering, Zaragoza (Spain)

Real time detection of CWA simulants in gas phase by SERS



Sergey Babichenko (1), A.S. Piette (2), L. Poryvkina (1), O. Rebane (1), B. Smits (2), I. Sobolev (1), N. Soboleva (1), J.L.Gala (2)
(1) LDI Innovation, 12 Lohu, Tallinn, (Estonia)
(2) Center for Applied Molecular Technologies, Institute of Clinical and Experimental Research, Université catholique de Louvain, Clos chapelle-aux-champs, Brussels, (Belgium)





Stand-off detection of microbial contamination



Angelo Minotti

Researcher and DUAL-USE expert, University of Rome La Sapienza (Italy)

A novel micro propulsion system to enlarge NANOSATs applications to CBRNe identification

	<p>Eleftheria Dossi (1), Mogens H. Jakobsen (2), Jan Larsen (3), Lina Lässig (4), Sol Tatlow (5), Lars Sandström (6), Ole T. Buus (3), Lasse L. Mølgaard (3), Hamid Babamoradi (7), Milan Laustsen (7), Caroline O’Keeffe (8)</p> <p>(1) Centre for Defence Chemistry, Cranfield University, Defence Academy of United Kingdom, Shrivenham, (UK) (2) Department of Micro- and Nanotechnology, Technical University of Denmark, (Denmark) (3) Section for Cognitive Systems, DTU Compute, Technical University of Denmark, (Denmark) (4) R&D, Securetec Detektions-Systeme AG, Neubiberg, (Germany) (5) PRO DESIGN Electronic GmbH, (Germany) (6) Gammadata Instrument AB, (SWEDEN) (7) Department of Micro- and Nanotechnology, Technical University of Denmark, (Denmark) (8) Centre for Defence Chemistry, Cranfield University, Defence Academy of United Kingdom, Shrivenham, (UK)</p>	<p>Detecting the threat</p>
	<p>Christopher Pöhlmann and T. Elßner Bruker Daltonik GmbH (Germany)</p>	<p>Field based multiplex detection of bioterror agents</p>
	<p>Fabiana Arduini (1), S. Cinti (1), D. Neagu (2), D. Moscone (1), G. Palleschi (1)</p> <p>(1) Department of Chemical Science and Technology, University of Rome “Tor Vergata”, 00133, Rome, Italy. (2) Tecnosens, Via della Ricerca Scientifica, Parco Scientifico, 00133 Rome, Italy.</p>	<p>Early and on site detection of nerve agents using miniaturised and cost-effective biosensors</p>
	<p>Milan S. Trtica, B. Radak, D. Milovanovic VINCA Institute of Nuclear Sciences, University of Belgrade, 11001 Belgrade, Serbia</p>	<p>Optical/Laser Methods of Chemical Agents Detection – Modern Trends</p>



Ignazio Vilardi (1), G. Antonacci (1), P. Battisti (2), C.-M. Castellani (3), D. Del Gaudio (4), M. Di Giuda (4), I. Giardina (2), G. Iurlaro (5), S. Mancinelli (4), L. Sperandio (1)
(1) Laboratory of Radiological and Environmental Surveillance – Radiation Protection Institute, Italian National agency for new technologies, Energy and sustainable economic development (ENEA), Rome, (Italy) (2) Laboratory of Radioactivity Monitoring and Measurements – Radiation Protection Institute, ENEA, Rome, (Italy) (3) Radiation Protection Institute, ENEA, Bologna, (Italy) (4) 7th NBC-defense Regiment “Cremona”, Italian Army, Civitavecchia (Rome, Italy) (5) Radiation Protection Institute, ENEA, Ispra (Varese, Italy)

A Mobile Complex System for fast internal contamination monitoring in nuclear and radiological terrorism scenarios



Florian Gebert (1), Marian Kraus (1), Lea Fellner (3), Arne Walter (1), Carsten Pargmann (1), Frank Duschek (1)
(1) German Aerospace Center, Institute of Technical Physics, Langer Grund, Lampoldshausen, 74239 Hardthausen

Standoff detection and classification of chemical and biological hazardous substances combining temporal and spectral laser induced fluorescence techniques

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POSTER SESSION 1

Monday, 22 May 2017 (12:30 – 14:00)

Presenter and Co-Authors

	P1.1	Some of the major issues to be addressed for the detection of the environmental presence of CBRNe agents
	Paolo Castelli	
	Ministry of Interior, Department of Fire Brigades (Italy)	
	P1.2	Proposal of benchmark guidance values in surface microbiological monitoring: a literature review
	Raffaella Giovinnazzo* , L. Caradonna, G. Giaquinta, E. Guerrera, M. Mameli, A. Mansi, G. Marena, T. Mastromartino, D. Sarto, P. Tomao.	
	*INAIL - Consulenza Tecnica Accertamento Rischi e Prevenzione, Dipartimento di Medicina, Epidemiologia, Igiene del Lavoro e Ambientale	
	P1.3	Earthquakes could be generated by nuclear fusion of the hydrogen present in the ground
	Roberto Paoletti*	
	*Senior engineer (Executive – Deputy Manager) of the Ministry of the Interior – Fire Department	
	P1.4	Development of MIC Real Time PCR for Detecting Four Major Biological Weapons
	Min-jeong Kim, Hyunwook Cha, Minsu Ko, and Gyu-Cheol Lee*	
	*Water Quality Research center, K-water, Republic of Korea	
	P1.5	Duplex Real-time PCR assay for Simultaneous Detection of Acanthamoeba spp. and Naegleria fowleri in Raw Water
	Min-jeong Kim* and Gyu-Cheol Lee	
	*Water Quality Research center, K-water, Republic of Korea	
	P1.6	Development of radiation detection methods against radiological or nuclear threat
	Ken'ichi Tsuchiya , K. Kurosawa, N. Akiba, H. Kakuda, D. Imoto, M. Hirabayashi, K. Kuroki	
	National Research Institute of Police Science, Physics section, 6-3-1 Kashiwanoha, CHIBA, (Japan)	

	P1.7	The potential of Italian Fire Brigade for the immediate securing of the environment, which is essential for the containment of environmental damage as a result of CBRNE incidents
	Stefano Venturini	
	Ministry of Interior, Department of Fire Brigades (Italy)	
	P1.8	A novel concept for integrated environmental surveillance and protection
	Vito Volpetti(1) , F. Barcio (1)	
	(1) TEKNE s.r.l. - Defence & Security Division, via E.Mattei 20, 66100 Chieti, (Italy)	
	P1.9	The e-factor in Industrial Risk: Predict and Prevent through Experiments
	Yasmin Himid (1) , R. Rossi (1) and A. Malizia (2)	
	(1) Department of Industrial Engineering, University of Rome "Tor Vergata", Rome, (Italy) (2) Department of Biomedicine and Prevention, University of Rome "Tor Vergata", Rome, (Italy)	
	P1.10	Applying Incident Command System (ICS) to the Command and Control of Bioterrorist Attack Response in Taiwan
	Tzu-Yun Huang (1) , Yu-Ju Lin(1), Yi-Chien Chih(1), Shu-Mei Chou(1), Chang-Hsun Chen(1)	
	(1) Centers for Disease Control, No.6, Linsen S. Rd., Jhong-gjheng District, Taipei, Taiwan (R.O.C). (Taiwan)	
	P1.11	Variations in fluorescence spectra of a bacterial population during different growth phases
	Lea Fellner (1) , F. Gebert (1), A. Walter (1), K. Gruenewald (1), F. Duschek (1)	
	German Aerospace Center, Institute of Technical Physics, Langer Grund, Lampoldshausen, 74239 Hardthausen, (Germany)	
	P1.12	Comparison of classification models for spectral data of laser-induced fluorescence
	Marian Kraus (1) , Lea Fellner (1), Florian Gebert (1), Karin Grünewald (1), Carsten Pargmann (1), Arne Walter (1), Frank Duschek (1)	
	German Aerospace Center, Institute of Technical Physics, Langer Grund, Lampoldshausen, 74239 Hardthausen, (Germany)	

	P1.13	
	Patrick Wengler (1) , Cenciarelli O. (2), Ludovici G.M. (3)	First Responders Pocket-Card, 9 liner
	(1) Luxemburg Grand-Ducale Police, UCPA /SGA, L-1110 Findel (Luxemburg) Phd candidate, London Metropolitan University	
	(2) University of Rome "Tor Vergata", Department of Industrial Engineering, Via del Politecnico 1, Rome, Italy (3) University of Rome "Tor Vergata", International Master Courses in Protection Against CBRNe events, Rome, Italy	
	P1.14	
	Francesco Rosiello (1) , Monti M. (2), Modini C. (1), Russo L. (1), Zelinotti L.(3), Vinci A. (1)	Is Rome ready to react to CBR- Ne attacks?
	(1) Sapienza-University of Rome, Via del Policlinico 155, Rome, Italy (2) USL Umbria 1, Via G. Guerra 21, Perugia, Italy (3) Istituto Zooprofilattico Lazio, Via Appia Nuova, 1411, Roma, Italy	
	P1.15	
	Tania Martín-Pérez (1) , F. J. Llerena-Aguilar (1) , J. Pérez-Serrano (2), J.L. Copa-Patiño(2), J. Soliveri de Carranza (2), J.M. Orellana-Muriana (3), J.L. Pérez-Díaz (1)	Eco-friendly air decontamination of biological warfare agents using "Counterfog" system
	1. Escuela Politécnica Superior, Universidad de Alcalá, (Spain) 2. Facultad de Farmacia, Universidad de Alcalá, (Spain) 3. Centro de Experimentación Animal, Universidad de Alcalá, (Spain)	
	P1.16	
	Juan Sánchez-García-Casarrubios , F. J. Llerena-Aguilar and J.L. Pérez-Díaz	FOG DYNAMICS
	Escuela Politécnica Superior, Universidad de Alcalá, Spain	

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POSTER SESSION 2

Tuesday, 23 May 2017 (12:00 – 13:30)

Presenter and Co-Authors

	P2.1	MOF-type materials for nerve agents adsorption on microfabricated preconcentrators
	F. Almazan (1), J. Fantova (1), I. Pellejero (2), M.A. Urbiztondo (3), J. Sese (1), Maria Pilar Pina (1,4) , J. Santamaria (1,4)	
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	P2.2	DUAL USE, iterated symmetric encryption and the upper limit of 56 bits key length. is it useless?
	Daniele Capolupo (1) , B. d'Amore (1), C. Minotti (1)	
	(1) Sapienza University of Rome, "Faculty of Information Engineering, Informatics, and Statistics", "Department of Computer Science", Rome, (Italy)	
	P2.3	CBRN risk assessment during earthquakes: the Amatrice 2016 earthquake case
	Edoardo Cavalieri d'Oro (1) , M. Pannuti (1), S. Venturini (1)	
	(1) Ministry of Interior, Department of Fire Brigades (Italy)	
	P2.4	Survey on management of environmental disinfection in South Korea hospitals
	Yeongtak Song (1) , Tae Ho Lim (1), Hyunggoo Kang (1), Jaehoon (1), Yoonjae Lee (5), Hyungoo Shin (1), Juncheol Lee (1).	
	(1) Hanyang University, Dept. of Emergency Medicine, 222 Wangsimni-ro, Seongdong-gu, Seoul, Republic of Korea.	

	P2.5	Emerald Cloud: A New Environment to form Intercloud Competitiveness
	A. Jahanbani(1), A. Khosravi (2), Soheila Heidari (3)	
	(1) Sapienza University of Rome, Department of Computer, Control and Management Engineering, Rome, (Italy). (2) Sapienza University of Rome, DIPARTIMENTO DI INGEGNERIA AERONAUTICA, ELETTRICA ED ENERGETICA, Rome, (Italy). (3) Sapienza University of Rome, Dipartimento di Studi europei, americani e interculturali, Rome, (Italy).	
	P2.6	Dirty bomb Drones, Urban surveillance and Explosive/ Radiological materials supply chain regulation's challenges in the Age of Globalization
	Pietro Rossetti (1) , G. Calabresi (2), N. S. Genco (3), C. Rossetti (3), S. Scolari (4)	
	(1) University of Rome Tor Vergata, Rome, (Italy). (2) S.T.A.S.A. Studies Center, Rome, (Italy). (3) Italian Air Force, Rome, (Italy). (4) Sapienza University of Rome, Dipartimento di Studi europei, americani e interculturali, Rome, (Italy).	
	P2.7	Crisis managers workload evolution during a crisis situation
	Clément Judek (1) , F. Verhaegen (2), J. Belo (1), T. Verdel (1)	
	(1) GeoRessources, Université de Lorraine, CNRS, CREGU, Mines Nancy, (France) (2) APEMAC (EA4360), Université de Lorraine, 54500 Vandœuvre-lès-Nancy, (France)	
	P2.8	CBRN emergencies: integrated approach to develop innovative technology and training of operators
	Rossella Franconi (1) , A. Testa (1), V. Lopresto (1), R. Pinto (1), R. Turchi (1), E. Illiano (1, 2), S. Massa (1), C. Patrono (1), V. Palma (1), A. Rinaldi (1, 2), A. Giovanetti (1), C. Marino (1)	
	(1) ENEA, Casaccia Research Center, Department for Sustainability, Casaccia, Rome, (Italy) (2) NANOFABER s.r.l, Rome, (Italy)	

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Wednesday, 24 May 2017



Ambassador Bonnie Jenkins (USA)

US Department of State, Bureau of International Security and Nonproliferation – Coordinator for Threat Reduction Programs ISN/TR.

Andrea Malizia (Italy)

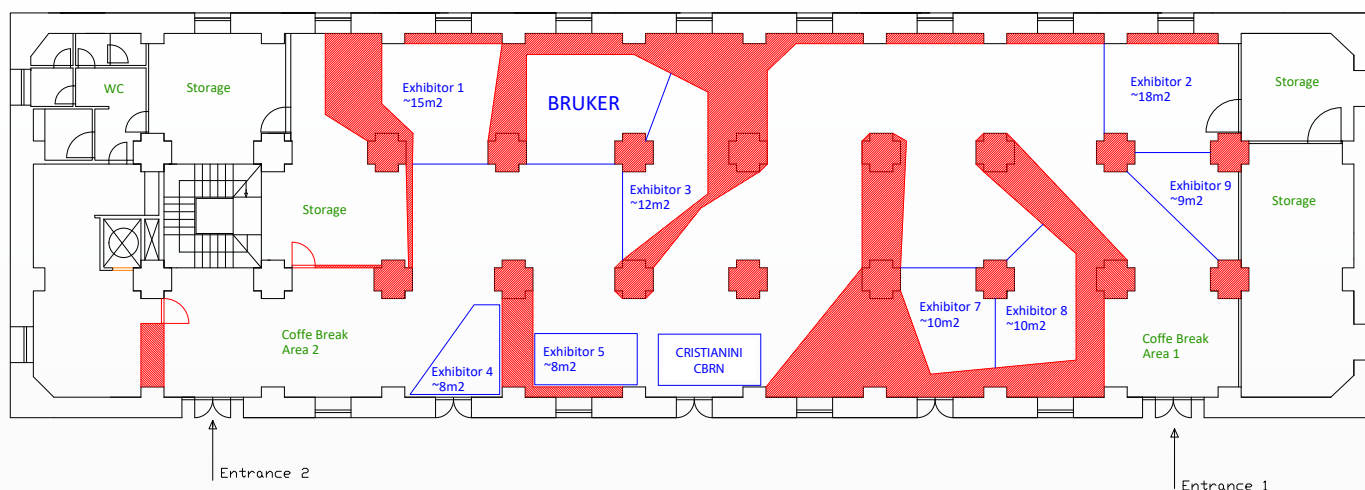
Researcher in Physics and Measures at the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)



MAPS & PLANS

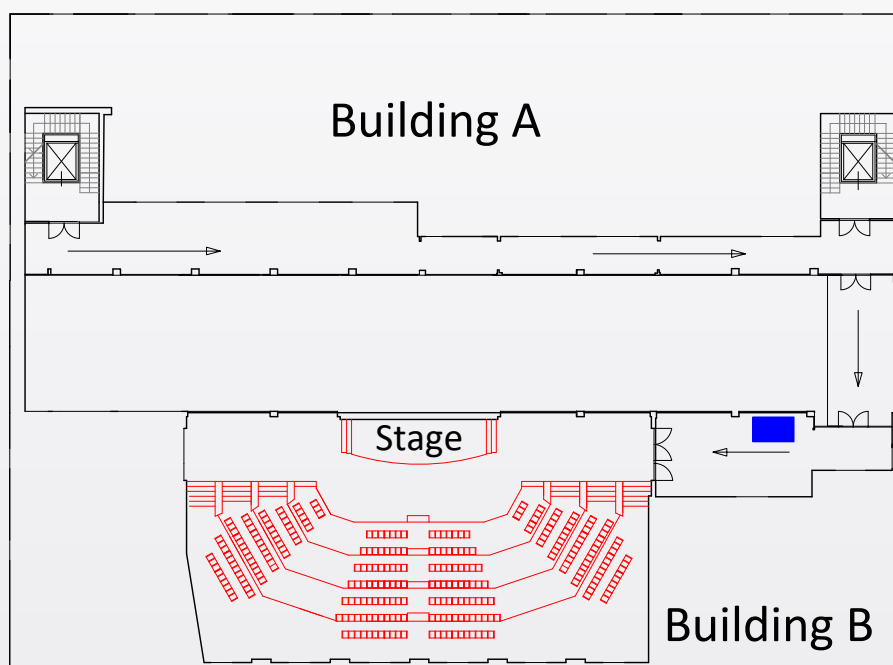
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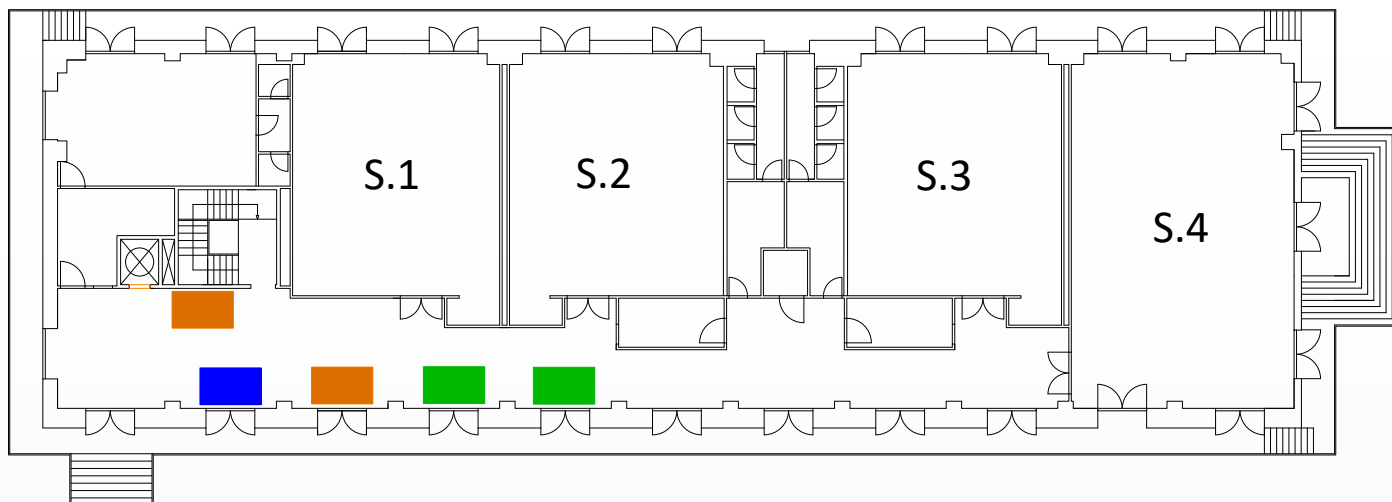
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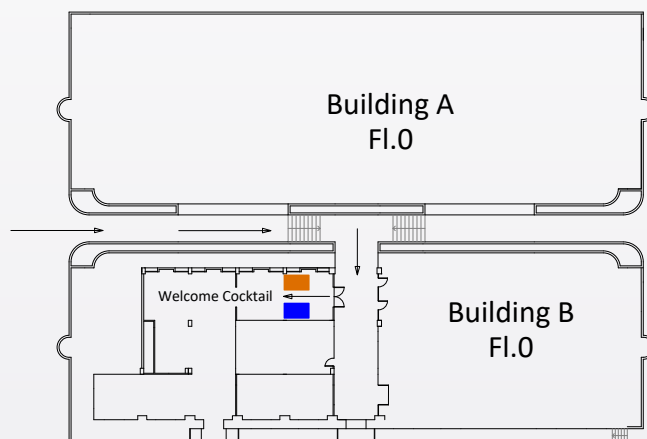
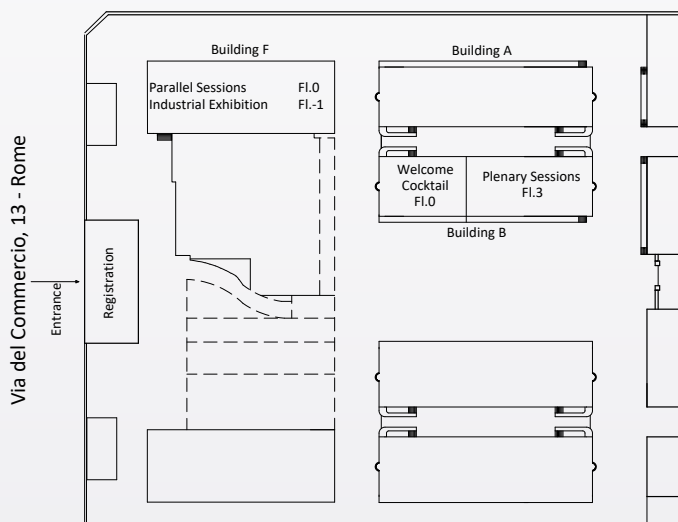
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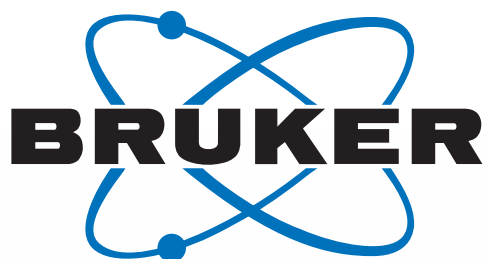
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