



# 1st SCIENTIFIC INTERNATIONAL CONFERENCE ON CBRNE

Rome, May 22-23-24, 2017

## THE PROGRAMME OF SICC 2017

### Timeline

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Updated on 21 March 2017.

**MONDAY, 22 MAY 2017**

8:30 - 20:00

### SESSION 1 - Emergency System and Solutions

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)

**Ludy Parapancha Suryantoro**

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

More info available at: [www.sicc2017.com](http://www.sicc2017.com)

## SESSION 2 - Modeling and Simulation, Diffusion and Dispersion

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**

<b>Chairman</b>	<b>Enrico Sciubba</b> Full Professor in Turbomachinery and Energy System, University of Rome La Sapienza (Italy)
<b>Co-Chairman</b>	<b>Marco Biagini</b> Lieutenant Colonel, NATO Modelling & Simulation Centre of Excellence (Italy)
	<b>Andrea D' Ambrogio</b> Associate professor of Software and Systems Engineering, Department of Enterprise, University of Rome Tor Vergata

## SESSION 3 - Education and Training

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

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

<b>Chairman</b>	<b>Frank Reiner</b> President of The Chlorine Institute (USA)
<b>Co-Chairman</b>	<b>Dieter Rothbacher</b> Co-owner of the Hotzone Solutions Group BV (The Netherlands)
	<b>Andrea Malizia</b> Researcher in Physics and Measures at the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)

## SESSION 4 - Cbrne Policies, International Legal and Economic Framework

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**

<b>Chairman</b>	<b>Ralph Trapp</b> International Disarmament Consultant, Chessenz (France)
<b>Co-Chairman</b>	<b>Donato Morea</b> Adj. Professor at the Department of Enterprise, University of Rome Tor Vergata (Italy)
	<b>Matteo E. Bonfanti</b> ETH Zürich, Senior Researcher at the Center for Security Studies (Switzerland)

**TUESDAY, 23 MAY 2017**

8:30 - 23:30

## SESSION 5 - Medical Management and First Aid

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**

<b>Chairman</b>	<b>Giovanni Rezza</b> Research Executive Director, Italian Health Institute (Italy)
<b>Co-Chairman</b>	<b>Stef Stienstra</b> Strategic consultant in biomedical science, Commander of the reserve of the Royal Dutch Navy (The Netherlands)
	<b>Ioannis Galatas</b> BrigGen. (Rtd), MD Consultant in Allergy and Clinical Immunology, Medical/ Hospital/Ops CBRNE Planner/ instructor Manager @ CBRN Knowledge Center, International CBRNE Institute (Belgium)

## SESSION 6 - Decision Support System (DSS)

The 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**

<b>Chairman</b>	<b>Andrea Murari</b> Consortium Eurofusion-RFX CNR (UK)
<b>Co-Chairman</b>	<b>Jesús Vega</b> Head of Unit, CIEMAT Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, (Spain)
	<b>Parag Chatterjee</b> Professor at the Universidad Tecnológica Nacional, Buenos Aires (Argentina)

## SESSION 7 - Cyber Security, Cbrne Intelligence, Cbrne Forensic and Critical Infrastructures

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

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

<b>Chairman</b>	<b>Umberto Rapetto</b> CEO of Human Knowledge as Opportunity (HKAO), Senior Partner at CYBERIUS (Italy)
<b>Co-Chairman</b>	<b>Ian Stubbs</b> Inspector at the National CBRN Centre, UK Police (UK)  <b>Roberto Setola</b> Professor at the Università Campus Bio-medico di Roma, and Director of Research at Ce.Mi.S.S. Centro Militare di Studi Strategici (Italy)

## SESSION 8 - Emergency Communication and Psychology

The 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**

<b>Chairman</b>	<b>Amer Hosin</b> Senior Academic Advisor, Emergency and Public Safety Department, ADP, GHQ (United Arab Emirates)
<b>Co-Chairman</b>	<b>Ferruccio Di Paolo</b> Ministry of Interior, Department of Fire Brigades (Italy)

## WEDNESDAY, 23 MAY 2017

8:30 - 16:30

### SESSION 9 - CBRNe - Related Geopolitical Issues

The 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;**
- **Improved Explosive Device (IED), Explosives Ordinance Disposals (EOD), Non-Conventional Threats (NCT)**
- **Explosives and Dirty Bombs;**
- **Dual Use.**

<b>Chairman</b>	<b>Maurizio Martellini</b> Associate Professor of Physics, University of Insubria (Italy)
<b>Co-Chairman</b>	<b>Krzysztof Paturej</b> Ambassador, Director of the International Centre for Chemical Safety and Security - ICCSS (Poland)  <b>Kalimi M. Mwoira</b> Ambassador (South Africa)

### SESSION 10 - CBRNe Centers of Excellence - COE

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

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

<b>Chairman</b>	<b>Volker R. Quante</b> Deputy Director & DEU Senior National Representative, Joint CBRN Defence Centre of Excellence (Czech Republic)
<b>Co-Chairman</b>	<b>Margarita Goulart</b> Nuclear Safety and Security Unit, European Commission Directorate-General Joint Research Centre (Belgium)

## SESSION 11 - Biological And Chemical Safety and Security, Protection and Decontamination

The 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**

<b>Chairman</b>	<b>Cornelius Bartles</b> Deputy Head Global Biosecurity – GBS for the Robert Koch Institute (Germany)
<b>Co-Chairman</b>	<b>Florigio Lista</b> Col., Centro studi e ricerche di sanità e di veterinaria dell'esercito (Italy)

## SESSION 12 - Detection and Identification

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**

<b>Chairman</b>	<b>Milica Marčeta Kaninski</b> Researcher at University of Belgrade, Vin a Institute of Nuclear Sciences (Serbia)
<b>Co-Chairman</b>	<b>Pasqualino Gaudio</b> Researcher in Experimental Physics Department of Industrial Engineering, University of Rome Tor Vergata (Italy)  <b>Antonio Palucci</b> Senior Researcher, ENEA, Frascati Research Centre (Italy)

# POSTER SESSION

Monday, 22 May 2017 (12:30 – 14:00)

<b>P1.1</b>	<p><b>Some of the major issues to be addressed for the detection of the environmental presence of CBRNe agents</b></p>
<b>Paolo Castelli*</b>	
<p>*Ministry of Interior, Department of Fire Brigades (Italy)</p>	
<b>P1.2</b>	<p><b>Proposal of benchmark guidance values in surface microbiological monitoring: a literature review</b></p>
<p><b>Raffaella Giovinnazzo*</b>, L. Caradonna, G. Giaquinta, E. Guerrera, M. Mameli, A. Mansi, G. Marena, T. Mastromartino, D. Sarto, P. Tomao.</p>	
<p>*INAIL - Consulenza Tecnica Accertamento Rischi e Prevenzione, Dipartimento di Medicina, Epidemiologia, Igiene del Lavoro e Ambientale</p>	
<b>P1.3</b>	<p><b>Earthquakes could be generated by nuclear fusion of the hydrogen present in the ground</b></p>
<b>Roberto Paoletti*</b>	
<p>*Senior engineer (Executive – Deputy Manager) of the Ministry of the Interior – Fire Department</p>	
<b>P1.4</b>	<p><b>Development of MIC Real-Time PCR for Detecting Four Major Biological Weapons</b></p>
<p>Min-jeong Kim, Hyunwook Cha, Minsu Ko, and <b>Gyu-Cheol Lee*</b></p>	
<p>*Water Quality Research center, K-water, Republic of Korea</p>	
<b>P1.5</b>	<p><b>Duplex Real-time PCR assay for Simultaneous Detection of Acanthamoeba spp. and Naegleria fowleri in Raw Water</b></p>
<p><b>Min-jeong Kim*</b> and Gyu-Cheol Lee</p>	
<p>*Water Quality Research center, K-water, Republic of Korea</p>	

## POSTER SESSION OPEN

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# WHY ATTEND SICC 2017 & ABOUT

## MEET

Worldwide Public, Military, Private, Research and Academic CBRNE experts.

## LEARN

Different approaches to the CBRNE safety&security.

## VISIT

One of the most beautiful cities worldwide.

## PUBLISH

Scientific papers in the Conference Proceedings (published by Springer, Scopus indexing).

## TOPICS

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## INDUSTRIAL EXHIBITION

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## COMMITTEE

Discover our international and national scientific committees

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## SCIENTIFIC PAPERS PUBLICATION

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.



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## REMEMBER...

### ABSTRACT SUBMISSION

The first step for all contributors to SICC 2017 is the abstract submission (please use the button below to be redirected)

**submit your Abstract**

All abstracts must be submitted using the online form and remember that the abstract submission online form **is not** the registration form needed to subscribe to the conference.

**ABSTRACT SUBMISSION DEADLINE:  
2 APRIL 2017**

### REGISTER

The online registration form is provided by the Health Safety Environmental Research Association Rome - HESAR. Please click here to be redirected

**online registration**

Upon receipt of the registration form and the payment, a Letter of Confirmation will be sent to the participants. Please present the Letter of Confirmation at the Registration desk at the Conference venue to pick up your Conference Kit.

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Side Event on 23 May



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THE PROHIBITION OF  
CHEMICAL WEAPONS

**OPCW 20<sup>TH</sup> ANNIVERSARY**

"TWENTY YEARS AFTER THE ENTRY INTO FORCE OF THE CHEMICAL WEAPONS CONVENTION: LOOKING BACK AND LOOKING FORWARD"

### VENUE

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

### CONTACTS

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