



2ND SCIENTIFIC
INTERNATIONAL
CONFERENCE
ON CBRNe
SICC SERIES
••• 2020 •••

10-12 DECEMBER 2020
BOOK OF ABSTRACT

PROGRAM And BOOK of ABSTRACT

SICC Series CBRNe CONFERENCE
10-12 December 2020

ON-LINE

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Andrea Malizia¹, Alba Iannotti², Riccardo Quaranta², Riccardo Rossi², Andrea Chierici^{2,3} and Colomba Russo²

1. Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)
2. Department of Industrial Engineering, University of Rome Tor Vergata (Italy)
3. Department of Civil and Industrial Engineering, University of Pisa (Italy)

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SICC Series - CBRNe Conference

Aims of the Conference:

- SICC Series Conference on CBRNe is the second scientific international conference series on safety & security issues in the CBRNe field (Chemical, Biological, Radiological, Nuclear and explosive). It represents the natural development of the long-standing experience achieved in the field of CBRNe education and training thanks to the International Master Courses in Protection against CBRNe Events of the University of Rome Tor Vergata.
- Spreading education beyond its boundaries to turn CBRNe into an academic discipline.
- Create a synergic global community of CBRNe experts and Enhancing CBRNe.
- Safety & Security multi-disciplinary scientific research.

Expected outcomes:

The experience gained have led us to organize these international scientific conferences. SICC Series Conference primary objective is to internationally promote the dissemination of the culture on the prevention and mitigation of CBRNe events.

In the common struggle for safety & security, SICC Series Conferences are devoted to highlight the state-of-the-art and the future needs of the different methodologies, techniques, theories, instruments, strategies, procedures, technologies and best practices on the prevention and mitigation of CBRNe risks, particularly in the spirit of collaboration and integration among States.

The world of CBRNe today mainly concerns only the military experts, the specialized operators, and the industry. However, institutional task of the University is also spreading the education on CBRNe beyond its traditional boundaries. The experience we have gained so far has led us to an ambitious vision: the CBRNe should become a scientific academic discipline. This new way of approaching the matter will have significant consequences: on the one hand the possibility to train young minds enabling them to deal with problems related to the safety & security identifying new solutions, and on the other hand to spread and increase the information and awareness of the risks and therefore to increase preparedness and resiliency. SICC 2020 represents a small but important step towards these ambitious goals.

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GENERAL PROGRAM – SICC SERIES CBRNe – 10-12
December 2020

Technical Table 1 (10 December 2020) - 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
 Chairpersons: Dr. Duschek, Prof. Gaudio, Prof. Perez Diaz
T.1. Biological, Chemical and explosive (BCe) Events

DAY 1 10 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.1-D.1-O.1	AUTONOMOUS, TRANSPORTABLE LIF BASED DETECTION SYSTEM FOR FAST IN SITU CLASSIFICATION OF BIOLOGICAL HAZARDS
08.20 a.m. - 08.45 a.m.	<u>J. Grzesiak</u> ¹ , Ch. Kölbl ¹ , M. Kraus ¹ , L. Fellner ¹ , K. Grünewald ¹ , and F. Duschek ¹ 1. German Aerospace Center (DLR), Institute of Technical Physics, Im Langen Grund 1, 74239 Hardthausen, Germany
T.1-D.1-O.2	AERIAL REMOTE SENSING OF HAZARDOUS CBE AGENTS BY MEANS OF AN UAV-AIDED LASER BASED STANDOFF DETECTION SYSTEM
08.45 a.m. - 09.10 a.m.	<u>Christoph Kölbl</u> ¹ , Daniel Weigl ¹ , Jonas Grzesiak ¹ , Frank Duschek ¹ 1. German Aerospace Center (DLR), Institute of Technical Physics, 74239 Hardthausen, Germany
T.1-D.1-O.3	LASER BASED TECHNIQUES FOR CHEMICAL DETECTION AND IDENTIFICATION AT UNIVERSITY OF ROME TOR VERGATA, ACTUAL AND FUTURE CAPABILITIES.
09.10 a.m. - 09.35 a.m.	<u>Pasquale Gaudio</u> ¹ 1. Department of Industrial Engineering – University of Rome Tor Vergata, Via del Politecnico 1, 00133 Roma, Italy.
T.1-D.1-O.4	SURFACE-ENHANCED RAMAN SPECTROSCOPY FOR THE DETECTION OF CHEMICAL-BIOLOGICAL AGENT IN TRACES: AN INNOVATIVE TECHNIQUE FOR THE RAPID DETECTION OF SECURITY AND COUNTERTERRORISM ISSUES
09.35 a.m. - 10.00 a.m.	<u>Salvatore Almaviva</u> ¹ , Florinda Artuso ¹ , Antonella Lai ¹ , Isabella Giardina ¹ , Antonio Palucci ¹ , Alessandra Pasquo ¹ 1. ENEA, Diagnostics and Metrology Laboratory, FSN-TECFIS-DIM, via Enrico fermi, 45, I-00040, Frascati, Italy

Technical Table 1 (11 December 2020) - 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
 Chairpersons: Dr. Duschek, Prof. Gaudio, Prof. Perez Diaz
T.1. Biological, Chemical and explosive (BCe) Events

DAY 2 11 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.1-D.2-O.1	ION MOBILITY SPECTROMETRY IN THE CBRNE AREA
08.20 a.m. - 08.45 a.m.	<u>Wolf Münchmeyer</u> ¹ , Andreas Walte ¹ 1. AIRSENSE Analytics GmbH
T.1-D.2-O.2	DRYVHP: A NEW BIODECONTAMINATION TECHNOLOGY
08.45 a.m. - 09.10 a.m.	<u>Fernando Antunes</u> ¹ 1. Centro de Química Estrutural, Faculdade de Ciências, Universidade de Lisboa, and Delox
T.1-D.2-O.3	MEASURES TO PREVENT TOTAL COLIFORM VIOLATIONS IN THE COMPLIED CHLORINE TREATED WATER AT THE WATER TREATMENT PLANT AND IN WATER DISTRIBUTION SYSTEMS
09.10 a.m. - 09.35 a.m.	<u>Ramani Bai V.</u> ¹ , Ang C. K. ² , and Kangadharan G. ³ 1. Department of Civil Engineering, UCSI University Kuala Lumpur, 2. Faculty of Engineering, Technology and Built Environment, UCSI University Kuala Lumpur, 3. Alpha Cambridge International School, Tiruchirappali, South India.
T.1-D.2-O.4	REAL TIME DETECTION OF CHEMICAL WARFARE AGENTS AT NATO DETECTION LEVELS FOR SURFACE CONTAMINATION
09.35 a.m. - 10.00 a.m.	<u>Dieter Rothbacher</u> ¹ , Philipp Sulzer ² , Rene Gutmann ² 1. CBRN Protection GmbH, Brigittagasse 14/25-26, 1200 Vienna Austria 2. IONICON Analytik GmbH, Eduard-Bodem-Gasse 3, 6020 Innsbruck, Austria

Technical Table 1 (10 December 2020) - 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
 Chairpersons: Dr. Duschek, Prof. Gaudio, Prof. Perez Diaz
T.1. Biological, Chemical and explosive (BCe) Events

DAY 1 10 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.1-D.1-O.5	LASER INDUCED FLUORESCENCE (LIF) DETECTION AND DISCRIMINATION OF BACTERIA FROM OILS, POLLEN, AND CHEMICALS: EVALUATION OF MEDIUM SIZED SAMPLE SETS AND EVALUATION OF CLASSIFICATION ROBUSTNESS
10.00 a.m. - 10.25 a.m.	<u>Lea Fellner</u> ¹ , Marian Kraus ¹ , Arne Walter ¹ , Frank Duschek ¹ 1. German Aerospace Center, Institute of Technical Physics, Langer Grund, Lampoldshausen, 74239 Hardthausen, Germany
T.1-D.1-O.6	CAN LAB ON-CHIP AND ORGAN-ON-CHIP DEVICES REPRESENT A NOVEL TOOL TO STUDY CHEMICAL AND BIOLOGICAL AGENTS INTERACTION WITH BIOLOGICAL MODELS?
10.25 a.m. - 10.50 a.m.	D. Di Giuseppe ^{1,2} , M.C. Comes ^{1,2} , M. D’Orazio ^{1,2} , P. Casti ^{1,2} , J. Filippi ^{1,2} , A. Mencattini ^{1,2} , C. Di Natale ¹ , <u>E. Martinelli</u> ^{1,2} 1. Dept. Electronic Engineering, University of Rome Tor Vergata, Rome, Italy 2. Interdisciplinary Center of Advanced Study of Organ-on-Chip and Lab-on-Chip Applications (IC-LOC), University of Rome Tor Vergata, Rome, Italy
T.1-D.1-O.7	RDX REMOTE RAMAN DETECTION ON NATO SET-237 SAMPLES
10.50 a.m. - 11.15 a.m.	<u>Luca M. L. Cantu</u> , Emanuela C. A. Gallo, Frank Duschek 1. DLR, German Aerospace Center
T.1-D.1-O.8	MONOLITHIC SYNTHETIC SINGLE CRYSTAL DIAMOND BASED ΔE-E CHARGED PARTICLE TELESCOPE
11.15 a.m. - 11.40 a.m.	S. Cesaroni, M. Marinelli, E. Milani, S. Palomba, <u>C. Verona</u> , G. Verona-Rinati 1. Department of Industrial Engineering – University of Rome Tor Vergata, Via del Politecnico 1, 00133 Roma, Italy.

Technical Table 1 (11 December 2020) - 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
 Chairpersons: Dr. Duschek, Prof. Gaudio, Prof. Perez Diaz
T.1. Biological, Chemical and explosive (BCe) Events

DAY 2 11 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.1-D.2-O.5	DEVICES IN COMBINATION WITH CBRN PAYLOADS AND RELATED RSPS
10.00 a.m. - 10.25 a.m.	<u>Marco Appodia</u> ¹ 1. European Centre for Manual Neutralisation Capabilities (ECMAN)
T.1-D.2-O.6	THE CERTAINTY OF EFFECTIVE DECONTAMINATION
10.25 a.m. - 10.50 a.m.	<u>Antonio Nuñez Ortuño</u> ¹ , Luis Rodríguez Álvarez de Lara ¹ 1. Military Emergency Unit. Ministry of Defence. Spain
T.1-D.2-O.7	PROTECTION OF CIVIL SOCIETY IN A VUCA WORLD. CASE STUDY: LIBRARY FREE BULK DETECTION OF EXPLOSIVES - COMBINING SIMPLE SENSORS FOR RESOLVING A COMPLICATED ISSUE
10.50 a.m. - 11.15 a.m.	<u>Kostyantyn Konstantynovskiy</u> ¹ , Christof Hammer ¹ , Gerald Njio ² , Niklas Wenzel ² , Gerhard Holl ^{1,2} , Thomas M. Klapotke ³ 1. German Aerospace Center (DLR), Institute for the Protection of Terrestrial Infrastructures (PI), Rathausallee 12, 53757 Sankt Augustin, Germany 2. University of Applied Sciences Bonn-Rhein-Sieg (BRSU), Institute for Detection Technologies (IDT), von-Liebig Str. 20, 53359 Rheinbach, Germany 3. Ludwig-Maximilian’s University Munich (LMU), Department of Chemistry, Butenandtstrasse 5-13, Haus D, 81377 Munich, Germany
T.1-D.2-O.8	HI go: TECHNOLOGIES TO SUPPORT THE RESCUE
11.15 a.m. - 11.40 a.m.	<u>Luigi Palestini</u> International Master Courses in Protection Against CBRNe events

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 Virtual Room: Leonardo
 Chairpersons: Dr. Duschek, Prof. Gaudio, Prof. Perez Diaz
T.1. Biological, Chemical and explosive (BCe) Events

DAY 1 10 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.1-D.1-O.9	CHARACTERIZATION OF CARBON COMPOUNDS FROM BINDER AND PLASTICIZERS OF EXPLOSIVES
11.40 a.m. - 12.05 a.m.	<p><u>Chiara Telloli</u>¹, Antonietta Rizzo¹, Alberto Ubaldini¹, Giuseppe Ottaviano¹, Stefano Salvi¹</p> <p>1. ENEA, Bologna Research Center, Fusion and Technology for Nuclear Safety and Security Department, Nuclear Safety Security and Sustainability Division, via Martiri di Monte Sole 4, 40129, Bologna, Italy</p>

T.1-D.1-O.10	EU-SENSE – A MODERN CBRNE TOOL FOR IMPROVING THE SITUATIONAL AWARENESS OF FIRST RESPONDERS
12.05 a.m. - 12.30 a.m.	<p><u>Łukasz Szklarski</u>¹, Patryk Maik¹, Robert Sigg²</p> <p>1. ITTI Sp. z o.o., 61-612 Poznań, Poland 2. FOI, Totalförsvarets forskningsinstitut, 164 90 Stockholm, Sweden</p>

T.1-D.1-O.11	SAMPLING AND ANALYSIS OF CHEMICAL WARFARE AGENTS: IMPROVING IDENTIFICATION, THROUGHPUT AND RELIABILITY
12.30 a.m. - 12.55 a.m.	<p><u>Caroline Widdowson</u>¹, Helen Martin¹</p> <p>1. Markes International</p>




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 Chairpersons: Dr. Duschek, Prof. Gaudio, Prof. Perez Diaz
T.1. Biological, Chemical and explosive (BCe) Events

DAY 2 11 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.1-D.2-O.9	DETECTION OF CBRN AGENTS THROUGH NANOCOMPOSITE BASED PHOTONIC CRYSTAL SENSORS
11.40 a.m. - 12.05 a.m.	<p><u>Stefano Bellucci</u>¹</p> <p>1. INFN-Laboratori Nazionali di Frascati, Via E. Fermi 40, 00044 Frascati, Italy</p>

T.1-D.2-O.10	CYANIDE REMEDIATION BY ADSORPTION AND BIOSORPTION PROCESS
12.05 a.m. - 12.30 a.m.	<p><u>Jahnvi M.</u>¹, Madhumala. Y.²</p> <p>1. Civil Engineering Department, Basaveshwar Engineering College –Bagalkot 2. Department of Biotechnology, Basaveshwar Engineering College –Bagalkot</p>

Technical Table 2 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
 Chairpersons: Prof. Palombi, Prof. Hosin and Prof. Vasiliou
T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.2-D.1-O.1	FIGHT AGAINST COVID: INTERVENTION OF THE BIOLOGICAL LIGHT FIELDABLE LABORATORY FOR EMERGENCIES (B-LIFE / UCLOUVAIN) IN TURIN AND NOVARA, PIEDMONT, ITALY.
02.00 p.m - 02.25 p.m.	Jean-Luc Gala ¹ 1. <i>Center for Applied Molecular Technologies, Université catholique de Louvain (UCL-CTMA)</i>
T.2-D.1-O.2	PREVENTION PROCEDURES TO CONTAIN COVID-19 CONTAGION IN THE FIRST ITALIAN ARMY FIELD HOSPITAL
02.25 p.m - 02.50 p.m.	Gennaro Palermo ¹ , Paolo Paqliaro ² , Mario Ciccotti ³ 1. <i>Chief Operating Room, Army Medical Center, Rome, Italy</i> 2. <i>Department of Anesthesia and Resuscitation, Army Medical Center, Rome, Italy</i> 3. <i>Joint Veteran Center, Scientific Department, Army Medical Center, Rome, Italy</i>
T.2-D.1-O.3	BIOLOGICAL RISK IN ITALIAN PRISONS: FROM THE COVID-19 MANAGEMENT TO THE DEVELOPMENT OF A NEW MODEL FOR EMERGENCY RESPONSE
02.50 p.m - 03.15 p.m.	Cristiano Franchi ¹ , Fabrizio Ferri ² , Stefania Moramarco ³ , Mariachiara Carestia ³ 1. <i>International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy</i> 2. <i>Department of Infectious Diseases and Prison Health Service - Hospital "Belcolle" Viterbo</i> 3. <i>Department of Biomedicine and Prevention, University of Rome Tor Vergata, Italy</i>
T.2-D.1-O.4	THE IMPACT OF THE PATIENT'S STATE ON THE DESTINATION CARE UNIT CHOICE DURING A PRE-HOSPITAL HEALTH EMERGENCY
03.15 p.m - 03.40 p.m.	Ibtissam Khalfaoui ¹ and Amar Hammouche ² 1. <i>Mohammadia School of Engineers, department of industry, Mohamed V University, Rabat, Morocco</i> 2. <i>PES, Research Team IMOSYS, department of Industry, Mohammadia School of Engineers, Mohamed V University, Rabat, Morocco</i>

Technical Table 2 (11 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
 Chairpersons: Prof. Palombi, Prof. Hosin and Prof. Vasiliou
T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 2 11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.2-D.2-O.1	BUILDING MENTAL HEALTH RESILIENCY AMONG THE PUBLIC AND EMERGENCY STAFF IN THE WAKE OF COVID-19 PANDEMIC
02.00 p.m - 02.25 p.m.	Amer Hosin ¹ <i>Visiting Professor, School of Psychology, University of Ulster, Coleraine, Northern Ireland BT52 1SA, UK</i>
T.2-D.2-O.2	BEING A GYNECOLOGIST DOCTOR SPECIALIZED IN IVF, A MOTHER AND A WOMAN AT THE TIME OF COVID-19
02.25 p.m - 02.50 p.m.	Ferrero Susanna ¹ 1. <i>Studio Medico Dr. ssa Susanna Ferrero</i>
T.2-D.2-O.3	OCCUPATIONAL STRESS AND MENTAL HEALTH WELLBEING OF STAFF WORKING IN HOSPITALS AND MEDICAL /HEALTH SETTINGS DURING THE COVID-19 PANDEMIC
02.50 p.m - 03.15 p.m.	Rifaat Al Hussein ¹ 1. <i>School of Psychology, Faculty of Life and Health Sciences, University of Ulster Coleraine Campus, Northern Ireland BT52 1SA, UK</i>
T.2-D.2-O.4	THE IMPACTS OF COVID-19 ON THE DELIVERY OF EDUCATION
03.15 p.m - 03.40 p.m.	Amal AlKooos ¹ 1. <i>Former under Secretary for Education, UAE</i>

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T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.2-D.1-O.5	VIROLOGICAL ENVIRONMENTAL ANALYSIS
03.40 p.m - 04.05 p.m.	<p><u>Divizia Maurizio</u>¹</p> <p>1. <i>Department of Biomedicine and Prevention, University of Rome Tor Vergata</i></p>
T.2-D.1-O.6	PERFORMANCE ASSESSMENT OF COVID-19 SANITARY WASTE MANAGEMENT DONE IN THE KINGDOM OF SPAIN
04.05 p.m - 04.30 p.m.	<p><u>Quiñones Javier</u>¹, Galvez Jesús¹, Serrano Julio¹, Romero José Salvador Romero¹</p> <p>1. <i>Guardia Civil. Interior Affairs Ministry. C/ Batalla del Salado, 32. 28045 – Madrid. Kingdom of Spain</i></p>
T.2-D.1-O.7	DECONTAMINATION OF AMBULANCE AND EQUIPMENT, A PROBLEM FOR WORKER SAFETY AND NATIONAL SECURITY
04.30 p.m - 04.55 p.m.	<p><u>F. Rosiello</u>¹, L. Zelinotti², M. Monti³, P. Cosmi⁴, M. Procacciantè⁴, G. Petrelli⁴, M. A. Vinci⁴, E. Doca⁵, E. Desideri⁶, M. Serale⁷</p> <p>1. <i>Ph.D. Student at Dipartimento di Scienze Anatomiche Istologiche Medico Legali e dell'Apparato Locomotore - Università la Sapienza di Roma</i> 2. <i>Emergency management, Marino - Roma – Italia</i> 3. <i>Emergency department - Assisi hospital, Via Muller 1, Assisi- Italy,</i> 4. <i>Resident in Hygiene and Preventive Medicine – University of Rome Tor Vergata</i> 5. <i>Pronto Soccorso, Casa di cura CDC – Sant'Anna – Città di Pomezia S.p.A</i> 6. <i>CFSMG: Corso Formazione Specifica Medicina Generale - Regione Lazio (7) ASL Cuneo 1, Cuneo, Italy.</i></p>

Technical Table 2 (11 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
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 Chairpersons: Prof. Palombi, Prof. Hosin and Prof. Vasiliou
T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 2 11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.2-D.2-O.5	DEFINE, DEVELOP AND DEPLOY A HARMONISED CBRN TRAINING CURRICULUM FOR FIRST RESPONDERS AND MEDICAL STAFF - FIRST
03.40 p.m - 04.05 p.m.	<p><u>Carlos Rojas-Palma</u>¹, Ahmed Nagy¹, Marike van der Horst², Saskia Rutjes³, Mariachiara Carestia⁴ and Svenja Stovens⁵</p> <p>1. <i>SCK CEN, Belgian Nuclear Research Centre: Mol, Antwerp, BE</i> 2. <i>TNO DEFENCE SAFETY & SECURITY, Rijswijk, NL</i> 3. <i>Centre for Infectious Disease Control, National Institute for Public Health and the Environment (RIVM), Bilthoven, NL</i> 4. <i>University of Rome Tor Vergata, Rome, IT</i> 5. <i>European CBRNE Center, Umeå University, Umeå, SE</i></p>
T.2-D.2-O.6	THE COORDINATION OF A DIAGNOSTIC DEPARTMENT DURING THE SARS-COV-2 PANDEMIC: HOW TO GUARANTEE THE BEST SERVICE
04.05 p.m - 04.30 p.m.	<p><u>Manenti Guglielmo</u>¹ and Malizia Andrea¹</p> <p>1. <i>Department of Biomedicine and Prevention, University of Rome Tor Vergata</i></p>
T.2-D.2-O.7	XYLELLA FASTIDIOSA ASSOCIATED TO THE OLIVE QUICK DECLINE SYNDROME (OQDS) IN SOUTHERN ITALY: NATURAL OUTBREAK OR AGROTERRORISM?
04.30 p.m - 04.55 p.m.	<p><u>Arduini D.</u>¹, Ludovici G.M.¹</p> <p>1. <i>International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy</i></p>

Technical Table 2 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
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T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 1	  
10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	

T.2-D.1-O.8	TOXICOLOGICAL ASPECTS AND MEDICAL MANAGEMENT OF INCAPACITATING CHEMICAL AGENTS' EXPOSURE IN CBRNE EVENTS: DEFINITION OF A PRACTICAL TOOL.
04.55 p.m - 05.20 p.m.	<p>Gallo Mariapina</p> <p>1. <i>Poison Control Center, Papa Giovanni XXIII Hospital, piazza OMS, 1- 24127 Bergamo, Italy</i></p> <p>2. <i>International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy</i></p>

T.2-D.1-O.9	INSTALLATION EFFECTIVENESS OF A UVC DISINFECTION SYSTEM IN AN HVAC FOR AN ICU DURING COVID-19 PANDEMIC
05.20 p.m - 05.45 p.m.	<p>Susana O. Souza¹, Antônio Américo Cardoso Junior², Francesco d'Errico^{3,4}, Aquiles Sales Craveiro Sarmento⁵, Mayk Rodolfo de Jesus Santana⁶, Rafael Ciro Marques Cavalcante⁶</p> <p>1 <i>Departamento de Física - Universidade Federal de Sergipe - 49100-000 São Cristóvão, SE, Brazil</i></p> <p>2 <i>Departamento de Ciências Florestais - Universidade Federal de Sergipe - 49100-000 São Cristóvão, SE, Brazil</i></p> <p>3 <i>Scuola di Ingegneria - Università di Pisa (UNIPi) - Pisa, Italy</i></p> <p>4 <i>Yale Center for Emergency Preparedness and Disaster Response – Yale University - New Haven, CT, USA</i></p> <p>5 <i>Empresa Brasileira de Serviços Hospitalares, Hospital Universitário de Lagarto 49400-000 Lagarto, SE, Brazil</i></p> <p>6 <i>Departamento de Farmácia - Universidade Federal de Sergipe - 49400-000 Lagarto, SE, Brazil</i></p>

Technical Table 2 (11 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
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 Chairpersons: Prof. Palombi, Prof. Hosin and Prof. Vasiliou
T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 2	  
11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	

T.2-D.2-O.8	CHEMICAL RISK AS BURDEN ON WORKERS POPULATION: INCIDENCE RATES OF CHEMICAL-RELATED OCCUPATIONAL DISEASES ACROSS ITALY IN THE YEARS 2014-2018 USING INAIL AND ISTAT DATABASES
04.55 p.m - 05.20 p.m.	<p>Giulia Agosti¹, D'Amico Margherita¹, Biondi Giorgia¹, Cecchetti Lorenzo¹, Finamore Nikolaos¹, Traglia Francesco¹, Morciano Laura²</p> <p>1. <i>Specialization School of Hygiene and Preventive Medicine, University of Rome Tor Vergata, Rome, Lazio, Italy</i></p> <p>2. <i>Biomedicine and Prevention, University of Rome Tor Vergata, Roma, Lazio, Italy</i></p>

T.2-D.2-O.9	ENVIRONMENT EFFECTS ON AEROSOL DYNAMICS. SIMPLE RULES TO PREVENT AEROSOL TRANSMISSION
05.20 p.m - 05.45 p.m.	<p>Juan Sánchez García Casarrubios¹, José Luis Pérez Díaz¹</p> <p>1. <i>Escuela Politécnica Superior. Universidad de Alcalá. Madrid. España</i></p>




Technical Table 2 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
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T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.2-D.1-O.10 05.45 p.m - 06.10 p.m.	OPERATIONAL EXPERIENCE WITH THE COUNTERFOG® SDR-Fo5A+ FAST DISINFECTION SYSTEM <p><u>Pérez Díaz, José Luis</u> (1); Sánchez García-Casarrubios, Juan (2); Méndez-Vigo Carranza, Pablo (3); Ruiz Navas, Elisa María (4); Cerrato Moreno, Sandra (5); Núñez Ortuño, Antonio (6); Rodríguez Álvarez de Lara, Luis (6); Iliev Petrov, Mihayl (7); Martín Pérez, Tania (1); Fernández Perea, Gonzalo (1)</p> <p>(1)Universidad de Alcalá (UAH). (2)SAN JORGE TECNOLÓGICAS S.L. (SJT). (3)COUNTERFOG EBT DE LA UAH S.L. (COUNTERFOG). (4)Universidad Carlos III de Madrid (UC3M) (5)Cuerpo Nacional de Policía (CNP) (6)Unidad Militar de Emergencias (UME) (7)MAG SOAR S.L. (MAGSOAR).</p>
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T.2-D.1-O.11 06.10 p.m - 06.35 p.m.	CULTURE COMPETENCE AND ETHICS IN EMERGENCY AND DISASTER SETTINGS <p><u>Amer Hosin</u>¹ <i>Visiting Professor, School of Psychology, University of Ulster, Coleraine, Northern Ireland BT52 1SA, UK</i></p>
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Technical Table 2 (11 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Leonardo
 Chairpersons: Prof. Palombi, Prof. Hosin and Prof. Vasiliou
T.2. Epidemics, Medical Management and First Aid, Psychology

DAY 2 11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.2-D.2-O.10 05.45 p.m - 06.10 p.m.	ROMAN HOSPITAL MANAGEMENT OF A POTENTIAL CBRNE EVENTS <p><u>Rosiello Francesco</u>¹, Vinci Antonio², Ricci Livia.³, Morida Khalil Ramla.³, Monti Manuel⁴, Zelinotti Luca⁵, D'Oca Elisa⁶, Ricci Serafino⁷</p> <p>1. <i>Ph D Student in Microbiology, Infectious Disease and Public Health, Sapienza-Università di Roma</i> 2. <i>Department of Biomedicine and Prevention, University of Rome Tor Vergata</i> 3. <i>Medical Doctor</i> 4. <i>PS Assisi</i> 5. <i>Emergency management</i> 6. <i>CDC Sant'Anna-Policlinico città di Pomezia</i> 7. <i>Legal Medicine, Sapienza-Università di Roma</i></p>
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T.2-D.2-O.11 06.10 p.m - 06.35 p.m.	SHAPE-BASED INTELLIGENT MANAGEMENT OF MEDICAL WASTE USING ARTIFICIAL NEURAL NETWORKS <p><u>Ramani Bai V.</u>¹, Abdul Mazli Hafiz A. M.², Ruzaimah R.³, Kangadharan G.⁴</p> <p>1. <i>Civil Engineering UCSI University, Malaysia</i> 2. <i>Department of Environment, Malaysia</i> 3. <i>Civil Engineering UCSI University, Malaysia</i> 4. <i>Alpha Cambridge International School, Trichirappalli</i></p>
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Technical Table 3 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Galileo
 Chairpersons: Prof. Chatterjee, Prof. Illiashenko and Dr. Battista
T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation

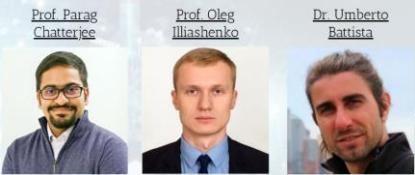
DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.3-D.1-O.1	ARTIFICIAL INTELLIGENCE TOWARD PREDICTIVE RISK PROFILING FOR MASS CASUALTY MANAGEMENT DURING CBRNE-EVENTS
02.00 p.m - 02.25 p.m.	<p><u>Parag Chatterjee</u>^{1,2}, Leandro Cymberknop¹, Ricardo Armentano^{1,2}</p> <p>1. National Technological University, Buenos Aires, Argentina</p> <p>2. University of the Republic, Montevideo, Uruguay</p>
T.3-D.1-O.2	CBRN SECURITY FOR CRITICAL INFRASTRUCTURE
02.25 p.m - 02.50 p.m.	<p><u>Ram Athavale</u>^{1,2}</p> <p>1. Department of Defence & Strategic Studies (DDSS), Savitribai Phule Pune University, Pune, India</p> <p>2. Raksha Shakti University, Gandhinagar, India</p>
T.3-D.1-O.3	AN AGENT-BASED MODEL TO SIMULATE HETEROGENEOUS CROWD FLOWS IN A CRITICAL INFRASTRUCTURE DURING EMERGENCIES
02.50 p.m - 03.15 p.m.	<p><u>Umberto Battista</u>¹, Pietro De Vito¹, Davide Ottonello¹</p> <p>1. Stam S.r.l.</p>

Technical Table 3 (11 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Galileo
 Chairpersons: Prof. Chatterjee, Prof. Illiashenko and Dr. Battista
T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation

DAY 2 11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.3-D.2-O.1	INTEGRATED INFORMATION MODEL OF ENTERPRISE AND CYBERSECURITY MANAGEMENT SYSTEM: FROM DATA TO ACTIVITY
02.00 p.m - 02.25 p.m.	<p><u>Vyacheslav Kharchenko</u>¹, Sergiy Dotsenko², Oleg Illiashenko¹</p> <p>1. National Aerospace University "Kharkiv Aviation Institute" (KhAI), Department of Computer Systems, Networks and Cybersecurity (Ukraine)</p> <p>2. Ukrainian State University of Railway Transport, Department of Specialized Computer Systems (Ukraine)</p>
T.3-D.2-O.2	UAV FLEET BASED ACCIDENT-MONITORING SYSTEMS WITH AUTOMATIC BATTERY REPLACEMENT SYSTEMS: ALGORITHMS FOR
02.25 p.m - 02.50 p.m.	<p><u>Igor Klyushnikov</u>¹, Herman Fesenko¹, Vyacheslav Kharchenko¹</p> <p>1. National Aerospace University "Kharkiv Aviation Institute" (KhAI), Department of Computer Systems, Networks and Cybersecurity (Ukraine)</p>
T.3-D.2-O.3	THREAT ASSESSMENT METHOD FOR BUILDINGS IN CASE OF TERRORIST ATTACKS
02.50 p.m - 03.15 p.m.	<p><u>Marco Carbonelli</u>¹, Mariachiara Carestia¹, Riccardo Quaranta¹</p> <p>1. Department of Industrial Engineering, University of Rome Tor Vergata</p>

Technical Table 3 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time) Virtual Room: Galileo Chairpersons: Prof. Chatterjee, Prof. Illiashenko and Dr. Battista T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation	
DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	
T.3-D.1-O.4	TRANSTUN – “TRANSnational TUNnel operational CBRN risk mitigation”
03.15 p.m - 03.40 p.m.	Federico Benolli ¹ , <u>Marta Di Giacinto</u> ² , TRANSTUN Staff <i>TRANSTUN STAFF: Federico Benolli¹, Silvia d’Adda¹, Alessandro d’Autillio¹, Marta di Giacinto², Daniele di Giovanni², Ludovic Ouvry³, Carole Dougnac³, Juliette Vicaire³, Thierry Pollet³, Pierre Rodde³, Francois Besnehard⁴, Laurent Gabilly⁴, Mireille Lardiere⁴, Damien Tillets⁵, Jean Francois Armands⁵, Gilles Glin⁵, Arthur Lacroix⁵, Vincent Curie⁶, Maud Spirlet⁶, Nicholas Handford⁶, Jose Ignacio Cases⁷, Beatriz Viniagra⁷.</i> ¹ SAFE ² Department of Industrial Engineering, University of Rome Tor Vergata (Italy) ³ OUVRY ⁴ HCL ⁵ LOMBARDI ⁶ B&S ⁷ NOVADAYS
T.3-D.1-O.5	ARTIFICIAL INTELLIGENCE AND FACIAL RECOGNITION IN AN IOT ECOSYSTEM: THE IMPACT ON DATA PROTECTION AND PRIVACY AND
03.40 p.m - 04.05 p.m.	<u>Nicola Fabiano</u> ^{1,2} ¹ Studio Legale Fabiano - Italy ² International Institute of Informatics and Systemics (IIS), Florida, USA
T.3-D.1-O.6	EUPROTECT: DEVELOPMENT OF NEW SOLUTIONS FOR THE PROTECTION OF CITIZENS AND INFRASTRUCTURES AGAINST
04.05 p.m - 04.30 p.m.	Umberto Battista ¹ , <u>Riccardo Quaranta</u> ² , EUPROTECT Project Consortium ³ ¹ Stam S.r.l. (Italy) ² University of Rome Tor Vergata (Italy), Department of Industrial Engineering ³ Istituto Affari Internazionali (Italy), Metro de Madrid SA (Spain), APF Ingeniería (Spain), Paulinyi & Partners Zrt. (Hungary)

Technical Table 3 (11 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time) Virtual Room: Galileo Chairpersons: Prof. Chatterjee, Prof. Illiashenko and Dr. Battista T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation	
DAY 2 11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	
T.3-D.2-O.4	RESIST - “RESilience Support for critical infrastructures through Standardised Training on CBRN”
03.15 p.m - 03.40 p.m.	<u>Silvia D’Adda</u> ¹ , Daniele Di Giovanni ² , Andrea Chierici ² , RESIST STAFF <i>RESIST Staff: Silvia d’Adda¹, Federico Benolli¹, Andrea Chierici², Daniele di Giovanni², Francesco Geriz², Paola Tessari³, Michele Nones³, Giampaolo Santini⁴, Vincenzo Puccia⁵, Olivia Loredans⁵, Giuseppe Paduanos⁵, Luigi de Dominicis⁶, Vasile Somoghi⁷, Flaviana Rotaru⁷, Eugenia Ghita⁷</i> ¹ SAFE ² Department of Industrial Engineering, University of Rome Tor Vergata (Italy) ³ IAI (Institute for International Affairs) ⁴ Joint NBC Defence School ⁵ Italian Firefighters ⁶ ENEA (National Agency for New Technologies, Energy and Sustainable Economic Development) ⁷ PROECO
T.3-D.2-O.5	EU COE PROJECT P73 – “PROTECTION OF CRITICAL INFRASTRUCTURES IN LEBANON, JORDAN AND IRAQ” - IN ITS LEBANESE COMPONENT
03.40 p.m - 04.05 p.m.	<u>Emmanuel Bouquot</u> ¹ , Alessandro D’Autillio ¹ , Omar El Samad ¹ ¹ SAFE
T.3-D.2-O.6	CISINT/OSSISNa
04.05 p.m - 04.30 p.m.	<u>Federico Sesler</u> ¹ , Vincenzo Iavarone ¹ , Claudio Todaro ¹ , Katia Petrini ¹ , Stefano Di Traglia ¹ ¹ Italian Center for Intelligence and Strategy (CISINT)

Technical Table 3 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Galileo
 Chairpersons: Prof. Chatterjee, Prof. Illiashenko and Dr. Battista
T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation

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T.3-D.1-O.7	CBRNe EVENTS AND FULL PROTECTION OF A CRITICAL INFRASTRUCTURE
04.30 p.m - 04.55 p.m.	<p><u>Francesco Geri</u>^{1,2}, Daniele di Giovanni², Francesco d'Errico³, Pasquale Gaudio², Andrea Malizia^{2,4}, and Andrea Chierici^{2,3}</p> <p>1 Italian Civil Protection 2 Department of Industrial Engineering, University of Rome Tor Vergata (Italy) 3 Department of Industrial and Civil Engineering, University of Pisa (Italy) 4 Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)</p>
T.3-D.1-O.8	A SURVEY OF SECURITY GAPS IN COLLABORATIVE UNMANNED AERIAL VEHICLES
04.55 p.m - 05.20 p.m.	<p><u>M.Kayalvizhi</u>¹, <u>S.Ramamoorthy</u>¹</p> <p>1. Computer Science and Engineering Department, SRM University of Science and Technology Chennai, India</p>
T.3-D.1-O.9	BIG DATA FRAMEWORK WITH MACHINE LEARNING TOOLS FOR MASSIVE BIG PROGRAMS THE USAGE OF CLOUD COMPUTING
05.20 p.m - 05.45 p.m.	<p><u>Anand Muni Mishra</u>, Vinay Gautam, Prabhjot Kaur</p> <p>1. Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India</p>

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T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation

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T.3-D.2-O.7	INTERNET OF THINGS (IOT) AND EDGE COMPUTING AS ENABLING TECHNOLOGIES OF CONTEXT AWARENESS AND HUMAN FACTORS MONITORING IN CBRN OPERATIONAL ENVIRONMENT
04.30 p.m - 04.55 p.m.	<p><u>Pietro Rossetti</u>^{1,2,3}, Fabio Garzia^{4,5,6}, Nicola Silverio Genco², Antonio Sacchetti¹</p> <p>1Tera Srl, Conversano (BA) 70014, Italy 2S.T.A.S.A. Studies Center, Rome 00137, Italy 3University of Rome Tor Vergata, Rome 00173, Italy 4Safety & Security Engineering, DICMA - University of Rome La Sapienza, Rome 00185, Italy 5Wessex Institute of Technology, Southampton SO40 7AA, UK 6European Academy of Sciences and Arts, Salzburg A-5020</p>
T.3-D.2-O.8	A COMPREHENSIVE BIBLIOGRAPHIC SURVEY OF THE STANDARD ROUTING PROTOCOLS IN FLYING AD HOC NETWORKS
04.55 p.m - 05.20 p.m.	<p><u>Orchu Aruna</u>¹, Amit Sharma²</p> <p>1. Narasaraopeta Engineering College, Andhra Pradesh, India 2. Lovely Professional University, Punjab, India</p>
T.3-D.2-O.9	IOT BASED INDOOR AIR QUALITY MONITORING AND CONTROL SYSTEM USING RASPBERRY PI4
05.20 p.m - 05.45 p.m.	<p><u>Syed Faiazuddin</u>¹, M.V. Lakshmaiah¹, K.Tanveer Alam²</p> <p>1. Department of Electronics, S.K.University, Anantapuram, A.P.India 2. Department of Electronics, Rayalaseema University, Kurnool, A.P.India</p>

Technical Table 3 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
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T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation

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Technical Table 3 (11 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)
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 Chairpersons: Prof. Chatterjee, Prof. Illiashenko and Dr. Battista
T.3. Cybersecurity, Critical Infrastructure, IoT and AI Investigation

DAY 2 11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
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T.3-D.1-O.10	CYBERTHREATS TO HOSPITALS. PANACEA: A TOOLKIT FOR CYBERSECURITY
05.45 p.m - 06.10 p.m.	<p><u>Sabina Magalini</u>¹, Daniele Gui¹, Pasquale Mari¹, Matteo Merialdo², Emmanouil G. Spanakis³, Rachele Brancaleoni¹, Vangelis Sakkalis³</p> <p>1. <i>Università Cattolica del Sacro Cuore</i> 2. <i>RHEA</i> 3. <i>Foundation for Research and Technology - Institute of Computer Science</i></p>
T.3-D.1-O.11	TRUSTWORTHINESS OF MACHINE LEARNING AND COMPUTER VISION IN GESTURE RECOGNITION
06.10 p.m - 06.35 p.m.	<p><u>Anthony Ijeh</u>¹</p> <p>1. <i>CCG</i></p>
T.3-D.1-O.12	CBRN BORDER MANAGEMENT
06.35 p.m - 07.00 p.m.	<p><u>Ram Athavale</u>^{1,2}</p> <p>1. <i>Department of Defence & Strategic Studies (DDSS), Savitribai Phule Pune University, Pune, India</i> 2. <i>Raksha Shakti University, Gandhinagar, India</i></p>


T.3-D.2-O.10	AUTOMATED ARABIC TEXT CLASSIFICATION USING MULTI-AGENT SYSTEM
05.45 p.m - 06.10 p.m.	<p><u>Mounir Gouiouez</u>¹</p> <p>1. <i>Sidi Mohamed ben Abdellah University, Fez, Morocco</i></p>
T.3-D.2-O.11	AUTONOMOUS ROAD SAFETY NAVIGATION SYSTEM FOR ENVIRONMENTAL HAZARDS
06.10 p.m - 06.35 p.m.	<p><u>Anthony Ijeh</u>¹</p> <p>1. <i>CCG</i></p>
T.3-D.2-O.12	REVISITING THE CYBER RISK ASSESSMENT CAPABILITY APPROACH FOR 4TH PARTY VENDORS: THE CASE OF X
06.35 p.m - 07.00 p.m.	<p><u>Anthony Ijeh</u>¹</p> <p>1. <i>CCG</i></p>

Technical Table 4 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time) Virtual Room: Archimede Chairpersons: Prof. D'Errico, Prof. Wheldon and Prof. Gallego T.4. Radioactive and Nuclear threats	
DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	<div style="display: flex; justify-content: space-around; font-size: 0.8em;"> <div style="text-align: center;">  Prof. Francesco d'Errico </div> <div style="text-align: center;">  Prof. Eduardo Gallego </div> <div style="text-align: center;">  Prof. Tzany Kokalova Wheldon </div> </div>
T.4-D.1-O.1	EMERGENCY MANAGEMENT EXPERIENCE WITH A GAMMA-RAY DOSIMETER FOR THE FUKUSHIMA GENERAL PUBLIC 02.00 p.m - 02.25 p.m. Ryoichi Suzuki ¹ , Hiroyuki Ohguchi ² , Francesco d'Errico ³ <i>1National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, Japan</i> <i>2Chiyoda Technol Corporation. Oarai, Ibaraki, Japan</i> <i>3Scuola di Ingegneria, Università di Pisa</i>
T.4-D.1-O.2	WHAT WE CAN LEARN FROM NUCLEAR EMERGENCIES? 02.25 p.m - 02.50 p.m. Pierre Kockerols ¹ <i>1. European Commission - DG Joint Research Centre (JRC)</i>
T.4-D.1-O.3	PARTICIPATORY STAKEHOLDER PROCESSES AS A WAY TO STRENGTHEN THE PREPAREDNESS FOR POST-ACCIDENT MANAGEMENT AND RECOVERY 02.50 p.m - 03.15 p.m. M. Montero ¹ , C. Trueba ¹ , R. Sala ¹ , B. García-Puerta ¹ <i>1.CIEMAT – Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, Madrid, Spain.</i>

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DAY 2 11 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	<div style="display: flex; justify-content: space-around; font-size: 0.8em;"> <div style="text-align: center;">  Prof. Francesco d'Errico </div> <div style="text-align: center;">  Prof. Eduardo Gallego </div> <div style="text-align: center;">  Prof. Tzany Kokalova Wheldon </div> </div>
T.4-D.2-O.1	NERIS: EUROPEAN PLATFORM ON PREPAREDNESS FOR NUCLEAR AND RADIOLOGICAL EMERGENCY RESPONSE AND RECOVERY – RESEARCH CHALLENGES 02.00 p.m - 02.25 p.m. Eduardo Gallego ¹ , NERIS Management Board members and NERIS R&D Committee members ² <i>1. Universidad Politécnica de Madrid and Management Board of NERIS</i> <i>2. https://eu-neris.net/about-neris.html</i>
T.4-D.2-O.2	SIMULATIONS AND CONVOLUTIONAL NEURAL NETWORKS FOR AUTOMATING RADIO-ISOTOPE IDENTIFICATION AND DEVELOPMENT OF AN ON-LINE NUCLEAR TEACHING LABORATORY – O-LAB 02.25 p.m - 02.50 p.m. Tzany Kokalova Wheldon ¹ , Anthony N. Turner ² , Carl Wheldon ² , Angus Hollands ² , Mark Griffiths ¹ , Dawid Hampel ¹ , Pedro Santa Rita Alcibia ¹ and Martin Freer ³ Mark R. Gilbert ² and Lee Packer ² Jonathan Burns ³ <i>1. School of Physics and Astronomy, University of Birmingham, Birmingham B15 2TT, UK</i> <i>2. UKAEA, Culham Science Centre, Abingdon, Oxfordshire, OX14 3DB, UK</i> <i>3. AME plc, Aldermaston, Reading, RG7 4PR, UK</i>
T.4-D.2-O.3	TESTS AND PERFORMANCES OF A SPECIAL IDENTIFIER OF NUCLEAR THREATS AND SNM IN REALISTIC SCENARIOS 02.50 p.m - 03.15 p.m. Giacomo Mangiagalli ¹ , Massimo Morichi ¹ , Matteo Corbo ¹ , Isacco Bonesso ² , Luca Stevanato ² <i>1. CAEN SpA - Spectroscopy Division - Via Vetraria, 11, 55049 Viareggio LU</i> <i>2. Padova University - Physics department - Via Francesco Marzolo, 8, 35121 Padova</i>




Technical Table 4 (10 December 2020) - 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time) Virtual Room: Archimede Chairpersons: Prof. D'Errico, Prof. Wheldon and Prof. Gallego T.4. Radioactive and Nuclear threats	
DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
T.4-D.1-O.4	CHARACTERIZATION OF SYSTEMS FOR SPECTROMETRY MEASUREMENTS IN ENVIRONMENTAL MONITORING, SECURITY AND SAFETY APPLICATIONS
03.15 p.m - 03.40 p.m.	<p><u>Matteo Corbo</u>¹, G. Mangiagalli¹, M. Morichi¹, E. Fanchini¹, A. Pepperosa¹, F. Rogo¹</p> <p>1. CAEN SpA - Spectroscopy Division - Via della Vetreria, 11, 55049 Viareggio LU</p>
T.4-D.1-O.5	LOW-COST RADIATION MONITORING THROUGH DRONES DURING EMERGENCIES
03.40 p.m - 04.05 p.m.	<p><u>Andrea Chierici</u>^{1,2}, Andrea Malizia^{3,3}, Daniele di Giovanni¹, Pasquale Gaudio¹ and Francesco d'Errico²</p> <p>1 Department of Industrial Engineering, University of Rome Tor Vergata (Italy) 2 Department of Industrial and Civil Engineering, University of Pisa (Italy) 3 Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)</p>
T.4-D.1-O.6	SIMULATION OF A PORTABLE ACTIVE INTERROGATION SYSTEM FOR THE INTERDICTION OF SPECIAL NUCLEAR MATERIALS
04.05 p.m - 04.30 p.m.	<p><u>Anderson V. S. Alves</u>¹, Giuseppe Felici², Francesco d'Errico^{1,2,3}</p> <p>1 Yale University, New Haven CT, USA 2 S.I.T. - Sordina IORT Technologies S.p.A., Vicenza, Italy 3 Università di Pisa, Scuola di Ingegneria, Pisa, Italy</p>
T.4-D.1-O.7	SIMPLIFIED APPROACH FOR PRELIMINARY EVALUATION OF EFFECTIVE DOSE RATE FOR FIELD APPLICATIONS OF D-T NEUTRON GENERATORS
04.30 p.m - 04.55 p.m.	<p><u>Contessa G.M.</u>¹, Cherubini N.¹, Gandolfo G.¹, Lepore L.¹, Marzo G.¹, Remetti R.²</p> <p>1. Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Department of Fusion and Nuclear Safety Technology, Via Enrico Fermi 45, 00044 Frascati (Rome), Italy 2. Sapienza University of Rome, Department of Basic and Applied Sciences for Engineering, Via Antonio Scarpa 14, 00161 Rome, Italy</p>

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T.4-D.2-O.4	SEDEX-NRBO FIELD EXERCISE. A CRITICAL REVIEW EXERCISE OF DETECTION OF NUCLEAR AND RADIOACTIVE MATERIAL IN A POST ATTACK SCENARIO
03.15 p.m - 03.40 p.m.	<p><u>Javier Quiñones</u>¹, Benavente M^a Ángeles², Fernández Marta², Mingorance Emiliano¹, Serrano Julio¹, Torres José Antonio¹.</p> <p>1. Guardia Civil. Interior Affairs Ministry. C/ Batalla del Salado, 32. 28045 – Madrid. Kingdom of Spain 2. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Avenida Complutense nº 40, 28040 Madrid. Kingdom of Spain.</p>
T.4-D.2-O.5	THE USE OF JRODOS DECISION SUPPORT SYSTEM IN EVALUATING THE SIZE OF EMERGENCY PLANNING ZONES OF A NUCLEAR POWER PLANT
03.40 p.m - 04.05 p.m.	<p><u>Gurdal Gokeri</u></p> <p>1. Hacettepe University, Nuclear Engineering Department, Turkey</p>
T.4-D.2-O.6	WHAT DOES THE UME (Military Emergency Unit) CONTRIBUTE IN A NUCLEAR OR RADIOLOGICAL EMERGENCY?
04.05 p.m - 04.30 p.m.	<p><u>Antonio Nuñez Ortuño</u>, Luis Rodríguez Álvarez de Lara</p> <p>Military Emergency Unit. Ministry of Defence. Spain</p>
T.4-D.2-O.7	SMARTPHONES AS EMERGENCY PREPAREDNESS AND DISASTER RESPONSE SUPPORT DEVICES
04.30 p.m - 04.55 p.m.	<p><u>Francesco d'Errico</u>¹, Gordon A. Drukker², Andrea Chierici³, Riccardo Ciolini¹, Andrea Malizia³, Raffaele Zagarella⁴, Eric P. Rubenstein²</p> <p>1 Scuola di Ingegneria, Università di Pisa 2 Image Insight Inc., East Hartford, CT – USA 3 Scuola di Ingegneria, Università di Tor Vergata, Roma 4 Centro Interforze Studi Applicazioni Militari, San Piero a Grado, Pisa</p>

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DAY 1 10 December 2020 02.00 p.m - 07.00 p.m (UTC+1 - Italian Time)	  
T.4-D.1-O.8	ENHANCED VIEWS IN EPR APPROACHES 04.55 p.m - 05.20 p.m. Marie Claire Cantone <i>University of Milan, Via Pascal 36, 20133 Milan, Italy</i>
T.4-D.1-O.9	HOW TO IMPROVE PREPAREDNESS TO EMERGENCIES AND POST-ACCIDENTAL RESPONSE? ADAPTING THE SHAMISEN RECOMMENDATIONS 05.20 p.m - 05.45 p.m. Liudmila Liutsko ^{2,3} , Deborah Oughton ⁴ ; Adelaida Sarukhan ¹ and Elisabeth Cardis ^{2,3} 1. ISGlobal – The Barcelona Institute for Global Health, Spain 2. UPF – Universitat Pompeu i Fabra, Spain 3. CIBERESP – Consorcio de Investigación Biomédica en Red de Epidemiología y Salud Pública, Spain 4. NMBU – Norwegian University of Life Sciences, Norway
T.4-D.1-O.10	STUDIES ON THE PROCESSES OF EMERGENCY RESPONSE AT THE FACILITIES OF THE ATOMIC-ENERGY COMPLEX 05.45 p.m - 06.10 p.m. Maksym Kustov ¹ , Volodymyr Kalugin ¹ 1. National University of Civil Defence of Ukraine
T.4-D.1-O.11	IN VIVO PUBLIC MONITORING IN EMERGENCY EXPOSURE SCENARIOS 06.10 p.m - 06.35 p.m. Ignazio Vilardi ¹ , Giuseppe Antonacci ¹ , Paolo Battisti ¹ , Carlo-Maria Castellani ¹ , Luca Ciciani ¹ , Alessandro Rizzo ¹ , Luciano Sperandio ¹ 1. Radiation Protection Institute, Italian Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Via Anguillarese 301, 00123 Casaccia-Rome, Italy

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T.4-D.2-O.8	AN APPROACH TO COORDINATE TRANS-BOUNDARY NUCLEAR EMERGENCIES: THE EUROPEAN HERCA-WENRA APPROACH 04.55 p.m - 05.20 p.m. Alfredo Mozas García ¹ 1. Technical Coordinator of Emergencies. Deputy Direction for Emergencies and Security. Spanish Nuclear Safety Council (CSN)
T.4-D.2-O.9	LARGE SCALE CONTAINMENT OF RADIOACTIVE CLOUDS 05.20 p.m - 05.45 p.m. Pérez Díaz José Luis ¹ , Sánchez García-Casarrubios Juan ² , Núñez Ortuño, Antonio ² , Rodríguez Álvarez de Lara, Luis ³ , Iliev Petrov Mihayl ⁴ , Fernández Perea Gonzalo ¹ , Ruiz (1) Universidad de Alcalá (UAH). (2) SAN JORGE TECNOLÓGICAS S.L. (SJT). (3) UNIDAD MILITAR DE EMERGENCIAS (UME). (4) MAG SOAR S.L. (MAGSOAR). (5) Universidad Carlos III de Madrid (UC3M)
T.4-D.2-O.10	FIRST RESPONDER SAFETY IN THE EVENT OF A DIRTY BOMB DETONATION IN URBAN ENVIRONMENT 05.45 p.m - 06.10 p.m. Sergio Biancotto ¹ , Andrea Malizia ² , Marco D'ariento ³ , Gian Marco Contessa ³ 1. Nuclear Engineer, Independent Consultant, Turin, Italy 2. Department of Biomedicine and Prevention, University of Rome Tor Vergata
T.4-D.2-O.11	NEW TOOLS FOR TRAINING IN RADIOLOGICAL RISKS 06.10 p.m - 06.35 p.m. Beatriz Gomez-Arquello ¹ , Borja Bravo ¹ 1. TECNATOM
T.4-D.2-O.12	IN-SITU METROLOGY FOR DECOMMISSIONING NUCLEAR FACILITIES: AN OVERVIEW OF METRODECOM₂ PROJECT 06.35 p.m - 07.00 p.m. Peter Ivanov ¹ 1. National Physical Laboratory, UK

Technical Table 5 (10 December 2020) - 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Galileo
 Chairpersons: Prof. Johnson, Col. Lopes and Col. Allert
T.5. CBRNe crisis and emergency management, Communication, Investigation and Forensic, Education and Training

DAY 1 10 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.5-D.1-O.1	CONSEQUENCE MANAGEMENT – A DOCTRINAL APPROACH
08.20 a.m. - 08.45 a.m.	<u>Bernd Allert</u> ¹ <i>1. Joint CBRN Defence Centre of Excellence (JCBRND COE), Vyškov/Czech Republic</i>
T.5-D.1-O.2	ITALIAN ARMY CBRN DEFENSE 7TH CBRN DEFENSE REGIMENT: ROLE, CAPABILITIES AND OPERATIONS.
08.45 a.m. - 09.10 a.m.	<u>Federico Ceccaroli</u> ¹ , <u>Daniele Del Gaudio</u> ¹ <i>1. Esercito Italiano, Largo Acquarone n.24, Civitavecchia (Rome) 00053, Italy</i>
T.5-D.1-O.3	PROACTIVE PROJECT
09.10 a.m. - 09.35 a.m.	<u>Dominic Kelly</u> ¹ <i>1. CBRNe Ltd</i>
T.5-D.1-O.4	CBRN INSTRUCTOR
09.35 a.m. - 10.00 a.m.	<u>Joelle Khadra</u> ¹ , <u>Adolph Eid</u> ² and <u>Ioannis Galatas</u> ¹ <i>Independent CBRNe expert</i>
T.5-D.1-O.5	ENOTICE - EUROPEAN NETWORK OF CBRN TRAINING CENTERS
10.00 a.m. - 10.25 a.m.	<u>Olga Vybornova</u> ¹ , <u>Jean-Luc Gala</u> ¹ <i>1. Centre for Applied Molecular Technologies of Université catholique de Louvain (UCL-CTMA)</i>

Technical Table 5 (11 December 2020) - 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room: Galileo
 Chairpersons: Prof. Johnson, Col. Lopes and Col. Allert
T.5. CBRNe crisis and emergency management, Communication, Investigation and Forensic, Education and Training

DAY 2 11 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.5-D.2-O.1	OPTIMISING COUNTER CBRN TRAINING AND EDUCATION
08.20 a.m. - 08.45 a.m.	<u>Steve Johnson</u> ¹ , <u>George Burke</u> ² , <u>Keith Bullock</u> ¹ , <u>Robert Elms</u> ¹ <i>1. U.K. British Army, less Steve who is Cranfield university</i>
T.5-D.2-O.2	ABU DHABI POLICE PROCEDURES IN COVID-19 CORONAVIRUS DISASTER AND IMPORTANCE OF USED SMART TECHNOLOGY
08.45 a.m. - 09.10 a.m.	<u>Abdullah Ali Ahmad Alhmodi</u> ¹ <i>1. Abu Dhabi Police GHQ, United Arab Emirates</i>
T.5-D.2-O.3	SERIOUS GAME DEVELOPMENT FOR CBRNE TRAINING: A COMPARATIVE ANALYSIS IN VIRTUAL REALITY AND COMPUTER-BASED ENVIRONMENTS
09.10 a.m. - 09.35 a.m.	<u>Burak Altan</u> ¹ , <u>Servet Gurer</u> ² , <u>Ali Alsamarei</u> ³ , <u>Damla Kivilcim Demir</u> ³ , <u>H. Sebnem Duzgun</u> ⁴ , <u>Mustafa Erkayaoglu</u> ² , <u>Elif Surer</u> ¹ <i>1. Department of Modeling and Simulation, Graduate School of Informatics, Middle East Technical University, Ankara, 06800, Turkey</i> <i>2. Department of Mining Engineering, Middle East Technical University, 06800 Ankara, Turkey</i> <i>3. Department of Industrial Design, Middle East Technical University, 06800 Ankara, Turkey</i> <i>4. Mining Engineering Department, Colorado School of Mines, Brown Hall 268, CO 80401, USA</i>
T.5-D.2-O.4	ITALIAN FIRE AND RESCUE SERVICE ROLE IN THE PANDEMIC EMERGENCY – THE SECOND PHASE
09.35 a.m. - 10.00 a.m.	<u>Luca Rosiello</u> ¹ <i>1. Italian Fire and Rescue Service – Central Directorate for Emergency (Italy)</i>
T.5-D.2-O.5	THE EFFECTIVENESS OF TABLE TOP EXERCISES IN IMPROVING PANDEMIC CRISIS PREPAREDNESS
10.00 a.m. - 10.25 a.m.	<u>Michael Ian Thornton</u> ¹ , <u>Colomba Russo</u> ² and <u>Alba Iannotti</u> ^{1,2} <i>1. INAC, HESAR Association, University of Rome Tor Vergata</i> <i>2. Department of Industrial Engineering, University of Rome Tor Vergata</i>

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 Virtual Room: Galileo
 Chairpersons: Prof. Johnson, Col. Lopes and Col. Allert
T.5. CBRNe crisis and emergency management, Communication, Investigation and Forensic, Education and Training

DAY 1 10 December 2020 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)	  
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T.5-D.1-O.6	DNA RESISTANCE TO RADIATION FIELD. FORENSIC GENOTYPING IN A RADIOLOGICAL INCIDENT SCENARIO
10.25 a.m. - 10.50 a.m.	<p><u>Quiñones Javier</u>¹, Fernández Marta², Mingorance Emiliano¹, Serrano Julio¹, Torres José Antonio³, Cobos José Manuel², Amigo Luis Jesus²</p> <p>1. Guardia Civil. Interior Affairs Ministry. C/ Batalla del Salado, 32. 28045 – Madrid. Kingdom of Spain.</p> <p>2. CIEMAT. Avda. Complutense 40, 28040 – Madrid. Kingdom of Spain</p>
T.5-D.1-O.7	THE CBRN THREAT IN 21ST CENTURY - COUNTER THE PROLIFERATION OF WMD IN MARITIME DOMAIN
10.50 a.m. - 11.15 a.m.	<p><u>Fabio Polidoro</u>¹</p> <p>1. ITALIAN NAVY GENERAL STAFF, 7th DEPARTMENT "NAVAL SEA SYSTEM" – Damage Control & CBRN Officer</p>
T.5-D.1-O.8	HEART RATE VARIABILITY AS A PREDICTIVE TOOL IN SQUAD READINESS AND SAFETY
11.15 a.m. - 11.40 a.m.	<p><u>Rui Jorge Palhoto Lucen</u>¹</p> <p>1. Tenente Coronel de Cavalaria, AM SEDE Rua Gomes Freire 1169-203 Lisboa, PORTUGAL</p>

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T.5-D.2-O.6	RISK ASSESSMENT, CHALLENGES, APPLICATIONS, THEORIES: A CASE STUDY FROM THE UNITED ARAB EMIRATES (UAE)
10.25 a.m. - 10.50 a.m.	<p><u>Ibrahim Almarzouqi</u>¹</p> <p>1. The United Arab Emirates Abu Dhabi Police</p>
T.5-D.2-O.7	REUSE: BIO-DECONTAMINATION OF FILTERING FACE PIECE RESPIRATORS AND MASKS FOR REUSE PROJECT DISSEMINATION
10.50 a.m. - 11.15 a.m.	<p><u>Wilson Antunes</u>¹, Ricardo Vieira¹, José Borges¹, David Pêra², Ivo Costa², Fernando Antunes³, João Silva³, Fadhil Musa³, Raquel Nogueira³, Luís Costa⁴, Paulo Cruz⁵</p> <p>¹Centro de Investigação da Academia Militar (CINAMIL), Unidade Militar Laboratorial de Defesa Biológica e Química (UMLDBQ), Av. Dr. Alfredo Bensaúde, 1849-012 Lisboa, Portugal;</p> <p>²Centro de Química Estrutural, Faculdade de Ciências, Universidade de Lisboa, Campo Grande, 1749-016 Lisboa, Portugal;</p> <p>³Delox, Tec Labs, Campus da FCUL Campo Grande 1749-016 Lisboa, Portugal;</p> <p>⁴Fardas 3B, Rua António Macedo, 20 2840-175 Seixal, Portugal;</p> <p>⁵Hospital das Forças Armadas, Azinhaga dos Ulmeiros, 1649-020 Lisboa, Portugal.</p>
T.5-D.2-O.8	COUNTERFOG SYSTEM APPLIED INSIDE THE WAREHOUSE. VERIFICATION OF THE COUNTER RESPONSE AGAINST RADIOCHEMICAL ATTACK SCENARIO
11.15 a.m. - 11.40 a.m.	<p><u>Quiñones Javier</u>¹, Domínguez Jose Antonio², Pascual Laura², Amigo Luis Jesus², Cobo Jose Manuel², Fernández Marta²</p> <p>1. Guardia Civil. Interior Affairs Ministry. C/ Batalla del Salado, 32. 28045 – Madrid. Kingdom of Spain</p> <p>2. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Avenida Complutense nº 40, 28040 Madrid. Kingdom of Spain.</p>

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T.5. CBRNe crisis and emergency management, Communication, Investigation and Forensic, Education and Training

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T.5-D.1-O.9	A PUBLIC SURVEY ON A SAMPLE OF ITALIAN POPULATION DURING COVID19 LOCKDOWN WITH ANALYSIS OF PERCEPTION OF THE EMERGENCY: COMMUNICATION, FAKE NEWS CIRCULATING, WORK OF HEALTH AND SECURITY PERSONNEL AND CENTRAL AND LOCAL GOVERNMENT
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11.40 a.m. - 12.05 a.m.	<u>Simone Nicola</u> ¹ , Ahmed Gamal Ibrahim ² , Andrea Malizia ³ , Alba Iannotti ^{4,5} 1. CREA-IT and UNITOV/Master CBRNe 2. CBRN Academy 3. Department of Biomedicine and Prevention, University of Rome Tor Vergata 4. Department of Industrial Engineering, University of Rome Tor Vergata
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T.5-D.1-O.10	COMPLEX EMERGENCY MANAGEMENT IN INTERNATIONAL CONTEXT
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12.05 a.m. - 12.30 a.m.	<u>Stefania Fiore</u> ¹ 1. Italian Fire and Rescue Service – Central Directorate for Emergency (Italy)
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T.5-D.1-O.11	THE DEPLOYMENT OF THE IT-CBRN TEAM IN LEBANON AFTER BEIRUT BLAST
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12.30 a.m. - 12.55 a.m.	<u>Stefania Fiore</u> ¹ 1. Italian Fire and Rescue Service – Central Directorate for Emergency (Italy)
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T.5-D.1-O.12	COUNTER-MINI/MICRO UAS PERSPECTIVE: SAFEGUARDING TROOPS AND INSTALLATIONS
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12.55 a.m. - 01.20 p.m.	<u>Giorgio Cozzolino</u> ¹ , Savino Sculamieri ² 1. Colonel, Director of the Center of Excellence Counter M/M UAS 2. Major, Plans Section Chief of the Center of Excellence Counter M/M UAS
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T.5-D.2-O.9	ANALYSIS OF CORONA VIRUS OUTBREAK IN CHINA: CRISIS COMMUNICATION CHALLENGES AND LESSONS FOR A SAFE FUTURE
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11.40 a.m. - 12.05 a.m.	<u>Muhammad Usman Asghar</u> ¹ , Saman Choudary ² 1. Department of Government and Public Policy, National Defence University, Islamabad, 44000, Pakistan. 2. International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy
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T.5-D.2-O.10	MANAGEMENT OF TECHNICAL EMERGENCY RESCUE AND OF BIOLOGICAL RISKS IN THE COVID-19 ERA
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12.05 a.m. - 12.30 a.m.	<u>Edoardo Cavalieri d'Oro</u> ¹ 1. Italian Fire and Rescue Services – Advanced Regional CBRN Unit of the Lombardy Region - Milan (Italy)
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T.5-D.2-O.11	ROLE AND TASKS OF THE NATIONAL ARMAMENTS DIRECTORATE LAND ARMAMENT DIRECTORATE (DAT). CBRN AS A DEAL: TECHNICAL CHALLENGES AND INVOLVEMENTS
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12.30 a.m. - 12.55 a.m.	<u>Salvatore Masi</u> ¹ 1. Brig. Gen. National Armaments Directorate Land Armament Directorate (DAT), Italian Ministry of Defence (Italy)
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T.5-D.2-O.12	CBRNE TRAINING IN VIRTUAL ENVIRONMENTS – STRUCTURED ANALYSIS & PRACTICAL GUIDELINES
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12.55 a.m. - 01.20 p.m.	<u>Markus Murtinger</u> ^{1,2} 1. USECON – The Usability Consultants (Austria) 2. AIT Austrian Institute of Technology (Austria)
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Technical Table 6 (10 December 2020) - 08.20 a.m - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room Archimede
 Chairpersons: Dr. Trapp, Cpt. Kwon and Prof. Morea
T.6. CBRNe-related geopolitical issues, Safety and security Legal and Economic aspects, New frontiers of science

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T.6-D.1-O.1	RESPONDING TO CHEMICAL-WEAPONS TREATS: AN OPCW VIEW
08.20 a.m. - 08.45 a.m.	<u>Joseph Ballard</u> ¹ 1. Senior Policy Adviser, Office of Strategy and Policy, Organisation for the Prohibition of Chemical Weapons
T.6-D.1-O.2	HOW REAL IS THE THREAT OF TERRORIST USE OF WEAPONS OF MASS DESTRUCTION?
08.45 a.m. - 09.10 a.m.	<u>Chalaris Michail</u> ¹ 1. International Hellenic University, Department of Chemistry (Kavala) – Hellenic Fire Academy, School of Fire Officers, Military Nursing Academy (SAN), Hellenic Fire Corps, Greece.
T.6-D.1-O.3	WHAT ROLE FOR THE UNITED NATIONS AND OTHER RELEVANT INTERNATIONAL ORGANIZATIONS IN CASE OF A REQUEST FOR ASSISTANCE PURSUANT TO ARTICLE VII OF THE BWC IN CASE OF USE OF BIOLOGICAL WEAPONS?
09.10 a.m. - 09.35 a.m.	<u>Valeria Santori</u> ¹ 1. Implementation Support Branch (ISU) for the Biological Weapons Convention (BWC) in the United Nations Office for Disarmament Affairs (UNODA - Geneva Branch)
T.6-D.1-O.4	WEAPONS OF MASS DESTRUCTION AND THEIR PROHIBITION
09.35 a.m. - 10.00 a.m.	<u>Claude Lefebvre</u> ¹ , <u>Weiszberg Guillaume</u> ¹ 1. Independent co-authors

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T.6-D.2-O.1	NON-STATE ACTORS, CHEMICAL WEAPONS, AND THE CHEMICAL WEAPONS CONVENTION
08.20 a.m. - 08.45 a.m.	<u>Ralf Trapp</u> ¹ 1. Independent International Disarmament Consultant
T.6-D.2-O.2	SMALL SATELLITES CONSTELLATIONS AND THEIR IMPACT ON CBRNE MANAGEMENT IN AFRICA
08.45 a.m. - 09.10 a.m.	<u>Donato Morea</u> ¹ , <u>Giacomo Primo Sciortino</u> ^{2,3} 1. Faculty of Economics, Universitas Mercatorum, Rome, Italy. 2. Pegaso University, Naples, Italy. 3. Shortman Consultants, Rome, Italy.
T.6-D.2-O.3	NEW FRONTIER OF AIRBORNE REAL-TIME MONITORING OF VOLATILE COMPOUNDS
09.10 a.m. - 09.35 a.m.	<u>Gaetano Carminati</u> ¹ , <u>Brais Vazquez Iglesias</u> ² 1. Head of Technical Operational Unit, Ministry of Foreign Affairs and International Cooperation, Direction of Politics and Security General Affairs, Italian National Authority for the implementation of the Chemical Weapons Convention 2. Pollution srl.
T.6-D.2-O.4	LEAN THINKING APPROACH IN CRISIS SCENARIOS: MANAGING A CBRNE EMERGENCY IN A LAW ENFORCEMENT DEPARTMENT BY MEANS OF
09.35 a.m. - 10.00 a.m.	<u>Claudio Guidotti</u> (1); <u>Damiano Ricci</u> (2) (1) Central Anticrime Directorate of Italian Police, Forensic Science Police Service, Regional Forensic Unit "Toscana", Firenze, Italy. (2) Central Anticrime Directorate of Italian Police, Forensic Science Police Service, Rome, Italy.

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T.6-D.1-O.5 10.00 a.m. - 10.25 a.m.	ISTITUTO AFFARI INTERNAZIONALI: THE ROLE OF A THINK TANK IN THE FIELD OF CBRN <u>Paola Tessari</u> ¹ 1. Istituto Affari Internazionali (IAI)
T.6-D.1-O.6 10.25 a.m. - 10.50 a.m.	BIOLOGICAL TRANSMITTABLE DISEASES IN AVIATION (AIRPLANES AND AIRPORTS). A RISK OR HOAX? <u>Patrick Wengler</u> ¹ <i>International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy</i>
T.6-D.1-O.7 10.50 a.m. - 11.15 a.m.	INDUSTRIAL RISK AS BURDEN ON WORKERS POPULATION: INCIDENCE RATES OF NUCLEAR/RADIOLOGICAL OCCUPATIONAL DISEASES ACROSS <u>Cicciarella Modica D.</u> ¹ , <u>Chatzichristou P.</u> ¹ , <u>Mancinelli S.</u> ² , <u>Mosaico F.</u> ¹ , <u>Vinci A.</u> ¹ , <u>Parrinello C.</u> ¹ , <u>Silvestri G.M.</u> ¹ , <u>Palombi L.</u> ² 1. <i>School of Specialization in Hygiene and Preventive Medicine, Tor Vergata University of Rome</i> 2. <i>Department of Biomedicine and Prevention, Tor Vergata University of Rome</i>

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T.6-D.2-O.5 10.00 a.m. - 10.25 a.m.	INTRODUCTION OF COUNTER TERRORISM SYSTEM IN REPUBLIC OF KOREA : THE ONLY DIVIDED COUNTRY IN THE WORLD <u>Hojun Kwon</u> ^{1,2} 1. <i>Captain of Republic of Korea Army.</i> 2. <i>International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy</i>
T.6-D.2-O.6 10.25 a.m. - 10.50 a.m.	ITALIAN MILITARY CBRN EDUCATIONAL AND TRAINING CAPABILITIES <u>Giampaolo Santini</u> ¹ 1. <i>Maj. NBC School of Rieti, Italian Ministry of Defence (Italy)</i>
T.6-D.2-O.7 10.50 a.m. - 11.15 a.m.	PREPAREDNESS AND RESPONSE FOR A NUCLEAR OR RADIOLOGICAL EMERGENCY: ANALYSIS OF IAEA'S SAFETY REQUIREMENTS AND GUIDES <u>Andrea Micozzi</u> 1. <i>International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy</i>

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T.6-D.1-O.8	FAST SURFACE DISINFECTION WITH COUNTERFOG SDR-F05A+
11.15 a.m. - 11.40 a.m.	<p><u>Pérez Díaz, José Luis</u>³; Sánchez García-Casarrubios, Juan²; Méndez-Vigo Carranza, Pablo³; Ruiz Navas Elisa María⁴; Iliev Petrov, Mihayl⁵; Martín Pérez, Tania¹; Alcamí, Antonio⁶; Vázquez, Ángela⁶; Rastrojo, Alberto⁶; Fernández Perea, Gonzalo⁷, Victor Archilla⁸ and María Sánchez-García⁸</p> <ol style="list-style-type: none"> 1. Universidad de Alcalá (UAH). 2. SAN JORGE TECNOLÓGICAS S.L. (SJT). 4. COUNTERFOG EBT DE LA UAH S.L. (COUNTERFOG). 5. Universidad Carlos III de Madrid (UC3M) 6. MAG SOAR S.L. (MAGSOAR). 7. Centro de Biología Molecular Severo Ochoa. CSIC. UAM. 8. Instrumentation and experimental measurement techniques laboratory // Energy and Environmental Area INTA (National Institute of Aerospace Technology), Ctra Torrejon Ardoz, Spain

T.6-D.1-O.9	RISKS AND SAFETY MEASURES ASSOCIATED WITH THE STORAGE AND TRANSPORT OF LNG
11.40 a.m. - 12.05 a.m.	<p><u>Luigi Palestini</u>¹, Fabio Sassu¹</p> <ol style="list-style-type: none"> 1. International Master Courses in Protection Against CBRNe events

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T.6-D.2-O.8	CBRNE VETERINARY: ANIMAL MANAGEMENT IN DISASTER
11.15 a.m. - 11.40 a.m.	<p><u>Luca Zelinotti</u>¹, Marco Serale², Botti Lorenzo³, Cardamone Rocco⁴, Petrelli Guido⁵, Francesco Geri⁶, Leonardi Marco⁷, Terzilli Dania⁸, Vinci Antonio⁹, Monti Manuel¹⁰, Rosiello Francesco¹¹</p> <ol style="list-style-type: none"> 1. Emergency Management 2. ASL Cuneo 1 3. Vigili del Fuoco 4. Polizia di Stato 5. Italian military Red Cross 6. Protezione civile 7. Protezione civile 8. Independent 9. Università degli Studi di Roma "Tor Vergata" 10. USL Umbria 1 11. Sapienza University of Rome

T.6-D.2-O.9	THE TEAM LEADER'S DECISION - BETWEEN THE LAW AND OPERATIONAL REQUIREMENTS
11.40 a.m. - 12.05 a.m.	<p><u>Carol Peterfi</u>¹</p> <ol style="list-style-type: none"> 1., OPCW Organization for the Prohibition of the Chemical Weapons (OPCW), The Hague, (NETHERLANDS)

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T.6-D.1-O.10	LOOKING AT THE ARMAGEDDON FROM THE KITCHEN WINDOW
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12.05 a.m. - 12.30 a.m.	Massimo Pedemonte ¹ <i>1. Italian Police Bomb Squad Commander (Ret.)</i>
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T.6-D.1-O.11	BEIRUT PORT EXPLOSION: POST-BLAST MANAGEMENT OPERATIONS
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12.30 a.m. - 12.55 a.m.	Andrea Gloria ¹ <i>1. Ten. Col. Italian Army, EU funded project "Technical Assistance on CBRN Risks Mitigation in Lebanon"</i>
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T.6-D.2-O.10	THE ITALIAN AIR FORCE OPERATIONAL LOGISTICS AT THE TIME OF COVID-19
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12.05 a.m. - 12.30 a.m.	Luongo Giovanni ¹ <i>1. Colonel, Commander 3rd Wing Italian Air Force, Villafranca di Verona, Via Caluri (Verona), Italy</i>
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T.6-D.2-O.11	COVID-19 PANDEMIC. THE ITALIAN AIR FORCE PERSPECTIVE
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12.30 a.m. - 12.55 a.m.	Alberto Autore ¹ <i>1. Colonel, Commander of Air Base Clinic, Pratica di Mare Airport, Via Pratica di Mare, Pomezia (Roma), Italy</i>
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PLENARY SESSION 1
 12 December 2020 - 08.30 a.m. - 01.00 p.m. (UTC+1 - Italian Time)
 Virtual Room: AUDITORIUM
 Chairpersons
 Dr. Michael Ian Thornton Dr. Andrea Malizia

Epidemics, biological threats and radiological events
 The importance of multidisciplinary approach for International Research Cooperation
 10-12 December 2020
 Rome - ITALY


08.30 a.m. - 09.00 a.m. Opening Welcome

<p>Prof. Orazio Schillaci</p>		<p><i>Rector of the University of Rome Tor Vergata (Italy)</i></p>
<p>Prof. Loredana Santo</p>		<p><i>Director of the Department of Industrial Engineering, University of Rome Tor Vergata (Italy)</i></p>
<p>Prof. Antonino De Lorenzo</p>		<p><i>Director of the Department of Biomedicine and Prevention, University of Rome Tor Vergata (Italy)</i></p>
<p>Prof. Pasquale Gaudio</p>		<p><i>Coordinator of the International Master Courses in Protection Against CBRNe events, University of Rome Tor Vergata (Italy)</i></p>

PLENARY SESSION 1
 12 December 2020 - 08.30 a.m. - 01.00 p.m (UTC+1 - Italian Time)

Virtual Room: AUDITORIUM

Chairpersons




Dr. Michael Ian Thornton Dr. Andrea Malizia



Epidemics, biological threats and radiological events

The importance of multidisciplinary approach for International Research Cooperation

10-12 December 2020
 Rome - ITALY



09.00 a.m. - 09.40 a.m.		<i>Oral Session</i>
P1.O1	<p>Prof. Tony Hooker</p> 	
	09.00 a.m. - 09.20 a.m.	<p><i>Centre for Radiation Research, Education and Innovation University of Adelaide (AUSTRALIA)</i></p>
P1.O2	<p>Prof. Nakahiro Yasuda</p> 	
	09.20 a.m. - 09.40 a.m.	<p><i>The Research Institute of Nuclear Engineering University of Fukui (JAPAN)</i></p>


EMERGENCY PREPAREDNESS AND RESPONSE TRAINING: A SOUTH AUSTRALIAN PERSPECTIVE


A NEW EMERGENCY RESPONSE EDUCATION CURRICULUM: FROM THE EXPERIENCES AND LESSONS LEARNED FROM THE TEPCO FUKUSHIMA DAIICHI NUCLEAR POWER PLANT ACCIDENT


PLENARY SESSION 1
 12 December 2020 - 08.30 a.m. - 01.00 p.m (UTC+1 - Italian Time)
 Virtual Room: AUDITORIUM
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Epidemics, biological threats and radiological events
 The importance of multidisciplinary approach for International Research Cooperation
 10-12 December 2020
 Rome - ITALY

09.40 a.m. - 12.00 a.m. **Round Table** - Presentation of the new cooperation agreements with the University of Rome Tor Vergata in the aim of the CBRNe activities: education, training and research

LECTIO MAGISTRALIS	Prof. Dr. rer. nat. Thomas DEKORSY	LASER BASED CBE STAND-OFF DETECTION AND THE NEW COOPERATION OF GERMAN AEROSPACE CENTER (DLR) WITH THE UNIVERSITY OF ROME TOR VERGATA IN THE AIM OF CBRNE RESEARCH, DIDACTIC AND TRAINING
	 <i>Director of the Institute of Technical Physics German Aerospace Center (DLR) (GERMANY)</i>	
09.40 a.m. - 10.10 a.m.		

P1.O4	Lt.Col. Tiago Manuel Batista Lopes	THE FIRST RESPONDERS ROLES DURING NATIONAL AND INTERNATIONAL CBRNE EMERGENCIES
	 <i>Commander of the Firefighters Regiment of Lisbon Regimento De Sapadores Bombeiros (PORTUGAL)</i>	
10.10 a.m. - 10.30 a.m.		

P1.O5	Sen. Vincenzo D'Anna	BIO-THREATS AND RISKS RELATED TO BIO-CONTAMINATION: AN ALL HAZARDS APPROACH TO IMPROVE THE SAFETY FACTORS
	 <i>President of National Order of Biologist (ITALY)</i>	
10.30 a.m. - 10.40 a.m.		

10.40 a.m. - 10.50 a.m. **BREAK**

PLENARY SESSION 1
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Virtual Room: AUDITORIUM





Dr. Michael Ian Thornton Chairpersons Dr. Andrea Malizia

Epidemics, biological threats and radiological events

The importance of multidisciplinary approach for International Research Cooperation

10-12 December 2020
 Rome - ITALY



<p>P1.O6</p>	<p>Dr. Ramon De La Vega</p> 	<p>IAEA GUIDANCE ON RADIOLOGICAL AND NUCLEAR EMERGENCIES IRRESPECTIVE OF ITS CAUSE, SAFETY OR SECURITY RELATED. CURRENT CHALLENGES AND WAY FORWARD</p>
<p>10.50 a.m. - 11.10 a.m.</p>	<p><i>International Atomic Energy Agency (IAEA) Vienna International Centre, Vienna (AUSTRIA)</i></p>	
<p>P1.O7</p>	<p>Dr. Colomba Russo</p> 	<p>THE ROLE OF HESAR IN THE CBRNe INTERNATIONAL MASTER COURSES IN PROTECTION AGAINST CBRNe EVENTS</p>
<p>11.20 a.m. - 11.35 a.m.</p>	<p><i>HESAR Association, CBRNe Master Courses (University of Rome Tor Vergata) (ITALY)</i></p>	
<p>P1.O8</p>	<p>Dr. Michael Ian Thornton</p> 	<p>TABLE TOP EXCERSISES: THE EMERGENCY SIMULATIONS TO IMPROVE THE LEVEL OF EXPERTISE FOR THE CBRNe OPERATORS</p>
<p>11.20 a.m. - 11.35 a.m.</p>	<p><i>INAC Association (ITALY)</i></p>	
<p>P1.O9</p>	<p>Prof. Amer Hosin</p> 	<p>THE LINK BETWEEN ABU DHABI POLICE AND THE UNIVERSITY OF ROME TOR VERGATA FOR THE MAXI-EMERGENCIES EDUCATION, TRAINING AND RESEARCH</p>
<p>11.35 a.m. - 11.55 a.m.</p>	<p><i>Abu Dhabi Police (UNITED ARAB EMIRATES)</i></p>	

PLENARY SESSION 1
 12 December 2020 - 08.30 a.m. - 01.00 p.m (UTC+1 - Italian Time)

Virtual Room: AUDITORIUM

Chairpersons




Dr. Michael Ian Thornton Dr. Andrea Malizia



Epidemics, biological threats and radiological events

The importance of multidisciplinary approach for International Research Cooperation

10-12 December 2020
 Rome - ITALY





11.55 a.m. - 12.40 p.m.		Oral Session
P1.O10	<p>BMD spa</p> 	NEW TECHNOLOGIES FOR CBRNe DETECTION and IDENTIFICATION
12.00 p.m. - 12.30 p.m.	<i>PLATINUM Sponsor</i>	
P1.O11	<p>WL GORE & ASSOCIATI</p> 	NEW TECHNOLOGIES FOR INDIVIDUAL CBRNe PROTECTION
12.30 p.m. - 12.50 p.m.	<i>Gold Sponsor</i>	

PLENARY SESSION 2
 12 December 2020 - 01.50 p.m. - 04.00 p.m. (UTC+1 - Italian Time)
 Virtual Room: AUDITORIUM

Dr. Dieter Rothbacher Chairpersons Dr. Andrea Malizia

Epidemics, biological threats and radiological events
 The importance of multidisciplinary approach for International Research Cooperation
 10-12 December 2020
 Rome - ITALY



01.50 p.m. - 03.50 p.m.		Oral Session
P2.O1	<p>Dr. Sergei Zinoviev</p>  <p><i>International Cooperation Branch Organization for the Prohibition of the Chemical Weapons (OPCW) (NETHERLANDS)</i></p>	<p>CAPACITY BUILDING PROGRAMMES OF THE INTERNATIONAL COOPERATION BRANCH AIMING AT PROMOTING THE PEACEFUL USES OF CHEMISTRY AND ENSURING CHEMICAL SAFETY AND SECURITY IN THE FRAMEWORK OF THE IMPLEMENTATION OF ART XI OF THE CONVENTION</p>
01.50 p.m. - 02.20 p.m.		
P2.O2	<p>Prof. Leonardo Palombi</p>  <p><i>Department of Biomedicine and Prevention University of Rome Tor Vergata (ITALY)</i></p>	<p>GLOBALIZATION, EPIDEMICS and SECURITY</p>
02.20 p.m. - 02.40 p.m.		

PLENARY SESSION 2
 12 December 2020 - 01.50 p.m - 04.00 p.m (UTC+1 - Italian Time)
 Virtual Room: AUDITORIUM

Dr. Dieter Rothbacher Chairpersons Dr. Andrea Malizia

Epidemics, biological threats and radiological events
 The importance of multidisciplinary approach for International Research Cooperation
 10-12 December 2020
 Rome - ITALY

<p>LECTIO MAGISTRALIS</p>	<p>Prof. Rick FONTANA</p> 	<p>ON THE GROUND 9/11, THE RESPONSE & RECOVERY AT GROUND ZERO</p>
<p>02.40 p.m. - 03.10 p.m.</p>	<p><i>Director at the City of New Haven Office of Emergency Management & Homeland Security (USA)</i></p>	
<p>P2.O3</p>	<p>Prof. Francesco d'Errico</p> 	<p>TRENDS AND TRAINING IN NUCLEAR SAFETY AND SECURITY</p>
<p>03.10 p.m. - 03.30 p.m.</p>	<p><i>Department of Civil and Industrial Engineering University of Pisa (ITALY)</i></p>	
<p>P2.O4</p>	<p>Prof. Vasilis Vasiliou</p> 	<p>EPIDEMICS, EMERGING AND RE-EMERGING DISEASE: THE IMPORTANCE OF INTERNATIONAL COOPERATION TO REDUCE RISKS</p>
<p>03.30 p.m. - 03.50 p.m.</p>	<p><i>Director of the Department of Environmental Health Sciences Yale School of Public Health, University of Yale (USA)</i></p>	

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: AUDITORIUM

Chairpersons: Dr. Chierici, Dr. Quaranta, Dr. Gamal



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.1 **THE INFECTIOUS DISEASES SEEKER (IDS): AN INNOVATIVE TOOL FOR PROMPT IDENTIFICATION OF INFECTIOUS DISEASES DURING OUTBREAKS**

Federico Baldassi¹, O. Cenciarelli², A. Malizia³, P. Gaudio¹

1. Department of Industrial Engineering, University of Rome Tor Vergata
2. International CBRNe Master Courses, University of Rome Tor Vergata
3. Department of Biomedicine and Prevention, University of Rome Tor Vergata

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: LEONARDO

Chairpersons: Dr. Di Giovanni, Dr. Carestia, Dr. Rossi



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.1 **THE CENTRAL ROLE OF INTERNATIONAL COOPERATION IN SUPPORTING LOCAL HEALTH AUTHORITIES IN POST-CBRNE: THE DEVELOPMENT OF THE KURDISTAN REGIONAL GOVERNMENT HEALTH INFORMATION SYSTEM (KRG_HIS), AN EXAMPLE OF BEST PRACTICE**

Stefania Moramarco¹, Faiq Basa^{3,2}, Haveen Alsilefane^{3,3}, Sivar Qadir^{3,4}, Shahla Othaman^{5,6}, Bayar Azeez^{6,7}, Gorgees Shlimon^{6,7}, Luma Alhanabadi^{1,8}, Daniele Di Giovanni⁹, Leonardo Palombi¹, Leonardo Emberti Gialloreti¹

1. Department of Biomedicine and Prevention, University of Rome Tor Vergata, Rome, Italy
2. Rizgary Teaching Hospital, Erbil, Kurdistan Region, Iraq
3. Family Medicine, Directorate of Health, Duhok, Kurdistan Region, Iraq
4. Directorate of Health, Sulaimaniya, Kurdistan Region, Iraq
5. Department of Statistics and Informatics, University of Sulaimaniya, Iraq.
6. Ph.D. Candidate, Department of Civil Engineering and Computer Science Engineering, University of Rome Tor Vergata, Rome, Italy
7. Computer Systems Engineering, Erbil, Kurdistan Region, Iraq
8. Primary Health Care Department, Preventive Health Affairs Directorate, Duhok, Kurdistan Region, Iraq
9. Department of Industrial Engineering, University of Rome Tor Vergata, Rome, Italy

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.2 CLIMATE CHANGES AND CBRN

Saeed Bin Hadher^{1,2}

1. *International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy*
2. *Dubai Police, Search and Rescue Department, United Arab Emirates*

PO.1.3 LOW COST BISTATIC LIDAR FOR FILTERING EFFICIENCY OF FACE MASKS EVALUATION

Federico Angelini¹, Valeria Spizzichino¹

1. *ENEA*

PO.1.4 A REVIEW OF SINGLE AND MULTI-HAZARD RISK ASSESSMENT APPROACHES FOR CRITICAL INFRASTRUCTURES PROTECTION

Alessandro Pasino¹, Andrea Clematis¹, Silvia De Angeli², Umberto Battista², Davide Ottonello²

1. *CNR Imati*
2. *STAM s.r.l.*

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.2 NUMERICAL SIMULATIONS OF THE DUST PARTICLE RELEASE DURING A LOSS OF VACUUM ACCIDENT IN A NUCLEAR FUSION REACTOR

Rossi Riccardo¹, Pasquale Gaudio¹, Luca Martellucci¹, Andrea Malizia²

1. *Department of Industrial Engineering, University of Rome Tor Vergata, 00133, Italy;*
2. *Department of Biomedicine and Prevention, University of Rome Tor Vergata, Italy*

PO.2.3 APPLICATION OF DIFFERENTIAL DIODE LASER ABSORPTION SPECTROSCOPY FOR REMOTE DETECTION OF TOXIC GASES

Romanelli Sara¹

1. *International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy*

PO.2.4 RISK ASSESSMENT OF RADIOACTIVE WASTE

Micozzi Andrea

1. *International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy*

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.5 CYCLONE DETECTION AND FORECASTING USING DEEP NEURAL NETWORKS THROUGH SATELLITE DATA

Shweta Kumawat¹, Tanveer Habib Sardar¹

¹. School of Engineering and Technology, Jain University, Bengaluru

PO.1.6 COVID-19 AND SOCIAL MEDIA COMMUNICATION: WHAT LESSON CAN WE LEARN?

Parrilla Antonio¹

¹. Presidenza del Consiglio dei Ministri

PO.1.7 COMMUNICATION IN THE ERA OF SOCIAL MEDIA: HOW TO WRITE A COMMUNICATION PLAN FOR EMERGENCIES

Parrilla Antonio¹

¹. Presidenza del Consiglio dei Ministri

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.5 EU PREPAREDNESS AND RESEARCH OF SECURITY FOR CBRNE THREATS

Chalaris Michail¹, Aikaterini Poustourli², Dimitrios Emmanoloudis³

¹. International Hellenic University, Department of Chemistry (Kavala) – Hellenic Fire Academy, School of Fire Officers, Military Nursing Academy (SAN), Hellenic Fire Corps, Greece.

². International Hellenic University

³. International Hellenic University, School of Geosciences- Department of Forestry & Natural Environment

PO.2.6 CBRN-P₃ CLUSTER

Paola Tessari¹, Karolina Muti¹, Gianna Latini¹

¹. Istituto Affari Internazionali (IAI)

PO.2.7 RECURRENT NEURAL NETWORK CLUSTER, A NEW INSTRUMENT FOR THE PREDICTION OF INFECTIOUS DISEASES

Puleio Alessandro

Independent researcher

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.8 CRISIS COMMUNICATION AND CBRN TERRORISM: DEVELOPMENT OF A TRAINING CURRICULUM FOR COMMUNICATION EXPERTS AND CBRN ADVISORS

Saman Choudary¹, Ahmed Gamal Ibrahim¹, Muhammad Usman Asghar²

1. International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy
2. Department of Government and Public Policy, National Defence University, Islamabad, 44000, Pakistan

PO.1.9 CLASSIFICATION OF THE CURRENT STANDARD FRAGMENTATION CAPTURE MATERIAL, AND ITS COMPARISON TO ECONOMICAL ALTERNATIVES

Thomas Ritchie¹, Richard Critchley¹, Rachael Hazael^{1,2}, David Wood¹, David Miller¹, Andrew Roberts¹, Steve Johnson³

1. Centre for Defence Engineering, Cranfield University, Defence Academy of the United Kingdom, Shrivenham, SN6 8LA

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.8 DNMTs ASSOCIATED GLOBAL EPIGENETIC SILENCING PROMOTES BREAST CANCER METASTASIS

Anam Rafique¹, Muhammad Mustafa¹

1. School of Life Sciences, Forman Christian College (A Chartered University), Lahore, Pakistan

PO.2.9 CWA DISPOSAL: A NEW APPROACH

Ciampa Sabatino¹

1. International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy
2. Engineering, Design and Mathematics, University of the West of England, Frenchay Campus, Coldharbour Lane, Bristol BS16 1QY
3. Cranfield Forensic Institute, Cranfield University, Defence Academy of the United Kingdom, Shrivenham, SN6 8LA

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.10 EVALUATION OF THE SPATIO TEMPORAL EPIDEMIOLOGICAL MODELER (STEM) DURING THE RECENT COVID-19 PANDEMIC.

F. Baldassi^{1,2}, F. D'Amico², A. Malizia³ and P. Gaudio^{1,2}

1. Department of Industrial Engineering, University of Rome Tor Vergata

2. International CBRNe Master Courses, University of Rome Tor Vergata

3. Department of Biomedicine and Prevention, University of Rome Tor Vergata

PO.1.11 THE EXPERIMENTAL NEUTRON CROSS SECTION OF BARITE-ENRICHED CONCRETE IN THE ENERGY RANGE 1 MEV - 1 KeV

Marco Martellucci¹, Giovanni Romanelli², Silvio Valeri¹, Danilo Cottone³, and Roberto Senesi⁴

1 Mardel Srl, Via Topino 35, Roma, ITALY

2 ISIS Facility, Rutherford Appleton Laboratory, Didcot OX11 0QX, United Kingdom

3 Bariblock - SVA S.r.l., Via Meucci 26, Noventa di Piave (VE), 30020, ITALY

4 Dipartimento di Fisica and NAST Centre, Università degli Studi di Roma "Tor Vergata", 00133 Roma, Italy

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.10 CONTACT-FREE AND FAST DETECTION OF ENERGETIC MATERIALS IN CONTAINMENTS

Dominik Wild¹, Cathrin Thei², Gerhard Holl^{1,2}

1. Institute for the Protection of Terrestrial Infrastructures, Germany

2. German Aerospace Center (DLR), 53757 St. Augustin, Germany

PO.2.11 COVID-19 - EFFECTS OF CORONAVIRUS ON THE EUROPEAN SOVEREIGN CREDIT DEFAULT SWAPS MARKET

Oumayma Nadir¹, Daoui Driss¹

1. Analyse, évaluation et gestion des risques

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.12 EVALUATION OF THE TECNOMUSE MUON TOMOGRAPHY SCANNER IN A REAL SCENARIO

Enrico Preziosi¹, Claudio Fornaro³, Claudia Scatigno⁴, Laura Fazi¹, Anna Prioriello², Valerio Scacco¹, Roberto Senesi¹ and Alessandro Cianchi²

1. NAST Center and Department of Physics, University of Rome "Tor Vergata", Rome, Italy

2. IRCSS Neuromed, Pozzilli (IS), Italy

3. Faculty of Engineering, Uninettuno University, Rome, Italy

4. Museo Storico della Fisica e Centro Studi e Ricerche Enrico Fermi, Rome, Italy

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.12 ALLIUM CEPA USED AS A BIOTA FOR DETECTION OF RADIOLOGICAL AND NUCLEAR EMERGENCIES

Magno Nogueira Xavier¹, Ruan Pitágoras Melo Feitoza¹, Silmara de Moraes Pantaleão², Ricardo Scher³, Francesco d'Errico^{4,5}, Susana Oliveira de Souza¹

1. Departamento de Física, Universidade Federal de Sergipe, São Cristóvão, SE, Brasil

2. Departamento de Biologia, Universidade Federal de Sergipe, São Cristóvão, SE, Brasil

3. Departamento de Morfologia, Universidade Federal de Sergipe, São Cristóvão, SE, Brasil

4. School of Engineering, University of Pisa, Pisa, Italy

5. School of Medicine, Yale University, New Haven, CT, USA

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.13 **CYTOGENETIC BIO-DOSIMETRY TECHNIQUES IN THE DETECTION OF DICENTRIC CHROMOSOMES (DCS) INDUCED BY RADIOLOGICAL EVENTS**

G. M. Ludovici¹, M.G. Cascone², T. Huber³, A. Chierici^{1,2}, P. Gaudio¹, S.O.de Souza⁴, F. d'Errico² and A. Malizia⁵

1. Department of Industrial Engineering, University of Rome Tor Vergata, Rome, Italy

2. Department of Civil and Industrial Engineering, University of Pisa, Pisa, Italy

3. Radosys Ltd, Budapest, Hungary

4. Physics Department, Federal University of Sergipe – UFS, Aracaju, Brazil

5. Department of Biomedicine and Prevention, University of Rome Tor Vergata, Rome, Italy

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.13 **DESIGN AND OPTIMIZATION OF MINIATURIZED SENSORS FOR UAV APPLICATION: A NEW PATHWAY FOR EARLY WARNING**

Mattia Bianchelli^{1,2}, Francesca Fumian^{1,2}, Andrea Chierici¹, Riccardo Rossi¹, Luca Martellucci¹, Gaetano Carminati³, Pasqualino Gaudio¹ and Daniele Di Giovanni^{1,4}

1. Department of Industrial Engineering, University of Rome Tor Vergata, 00133, Italy;

2. Joint NBC Defence School of Rieti, 02100, Italy;

3. Head of Technical Operational Unit, Ministry of Foreign Affairs and International Cooperation, Direction of Politics and Security General Affairs, Italian National Authority for the implementation of the Chemical Weapons Convention

4. Unicamillus-Saint Camillus International University of Health Sciences, 00131, Italy;

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.14 ARE CITIZEN SCIENTISTS READY TO MEASURE DOSES AND HEALTH/WELL-BEING INDICATORS WITH MOBILE APPS AFTER A NUCLEAR ACCIDENT?

Liudmila Liutsko^{1,3}, Paola Fattibene⁴, Sara Della Monaca⁴, Aya Goto⁵, Takashi Ohba⁵, Deborah Oughton⁶, Yevgeniya Tomkiv⁶, Vadim Chumak⁷, Adelaida Sarukhan¹ and Elisabeth Cardis^{1,3}

¹ISGlobal, Barcelona, Spain

²UPF, Barcelona, Spain

³CIBERESP, Madrid, Spain

⁴ISS, Rome, Italy

⁵FMU, Fukushima, Japan

⁶NMBU/CERAD, Aas, Norway

⁷NRCRM, Kyiv, Ukraine

PO.1.15 PLANT TOXINS AND BIOTERRORISM: A REVIEW ON THE THREAT

Ludovici Gian Marco^{1,2}, Arduini Daniela¹, Gaudio Pasqualino^{1,2}, Chierici Andrea^{2,3} and Andrea Malizia⁴

¹ International Master Courses in Protection against CBRNe Events, University of Rome Tor Vergata, Italy

² Department of Industrial Engineering, University of Rome Tor Vergata, Italy

³ Department of Civil and Industrial Engineering, University of Pisa, Italy

⁴ Department of Biomedicine and Prevention, University of Rome Tor Vergata, Italy

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.14 THE RE-EMERGENCE OF CHEMICAL THREATS AND THE ROLE OF THE OPCW. THE ENTRY INTO FORCE OF CHANGE TO SCHEDULE 1 OF THE ANNEX ON CHEMICALS TO THE CHEMICAL WEAPONS CONVENTION AND THE IMPACT IN THE INDUSTRY

Daniele Meuti¹, Carminati Gaetano^{1,3}, Borgiani Stefano³

¹ Ministry of Defence Italian Army;

² Ministry of Defence Italian Navy

³ Ministry of Foreign Affairs and international cooperation

PO.2.15 UAV MODULAR PAYLOAD FOR MISSION-ORIENTED CONFIGURATIONS IN THE SURVEY AND MONITORING OF AREAS EXPOSED TO CHEMICAL AND RADIOLOGICAL CONTAMINATION

Francesca Fumian^{1,2}, Andrea Chierici¹, Riccardo Rossi¹, Gaetano Carminati¹, Andrea Malizia³, Pasqualino Gaudio¹ and Daniele Di Giovanni^{1,4}

¹ Department of Industrial Engineering, University of Rome Tor Vergata, 00133, Italy;

² Joint NBC Defence School of Rieti, 02100, Italy;

³ Department of Biomedicine and Prevention, University of Rome Tor Vergata, 00133, Italy;

⁴ Unicamillus-Saint Camillus International University of Health Sciences, 00131, Italy;

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

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Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.16 RESPONSE TESTS OF SRI₂(EU) SCINTILLATION SPECTROMETERS FOR THYROID MONITORING IN NUCLEAR EMERGENCY SITUATIONS

Masahiro Hosoda¹, Kazuki Iwaoka², Akira Yunoki³, Takahiro Fukuhara⁴, Yusuke Imajo⁴, Yuki Tamakuma¹, Shinji Tokonami¹

¹Hirosaki University

²National Institutes for Quantum and Radiological Science and Technology

³National Institute of Advanced industrial Science and Technology

⁴Advanced Fusion Technology, Co., Ltd.

PO.1.17 EVALUATION OF THE PERMANENCE OF FLAME ACCELERATING MATERIAL ON BURNED MATERIAL WITH GCMS ANALYTICAL TECHNIQUES

Claudio De Maio¹

¹. Ministry of Interior - Italian National Fire Corps

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.16 COMMUNICATION AND DECISION SUPPORT SYSTEMS FOR RESCUE AND EMERGENCIES

Luigi Palestini¹

¹. CNVVF (Italian Fire and Rescue Service)

PO.2.17 PREVALENCE OF OCCUPATIONAL DISEASES DUE TO BIOLOGICAL AGENTS ON WORKFORCE POPULATION (OVERALL AND BY SECTORS) IN ITALY IN THE YEARS 2014-2018 USING INAIL AND ISTAT DATABASES

Scarano Laura¹, De Carli Matteo¹, Ingravallo Fabio¹, Amadori Fabiana¹, Macino Mattia¹, Abbondanzieri Alessio¹, Lucaroni Francesca².

¹. School of Specialization in Hygiene and Preventive Medicine, University of Rome Tor Vergata, Roma

². Department of Biomedicine and Prevention, University of Rome Tor Vergata, Roma

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.18 THE OPTIMISATION OF NUCLEAR REACTIONS FOR THE PRODUCTION OF INDUSTRIAL RADIOTRACERS USING UOB-TIP COMPUTATIONAL PACKAGE

R. AM Allen^{1,2}, D. Hampel^{1,2}, Tz. Kokalova Wheldon¹, A. Hollands¹, C. Wheldon¹, P. Ivanov², B. Russell²

1. Nuclear Physics Group, School of Physics and Space Research, The University of Birmingham, Birmingham, B15 2TT, U.K.

2. Nuclear Metrology Group, National Physical Laboratory, Hampton Rd, Teddington TW11 0LW, U.K.

PO.1.19 PERFORMANCES OF INTRUSION DETECTION SYSTEM USING KDD CUP 99

Siti Norwahidayah Binti Wahab, Noor Suhana Binti Sulaiman, Noraniah Binti Abdul Aziz

1. University College TATI, Malaysia

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.18 CONVERGENT APPROACH TO DYNAMIC SYSTEMS SAFETY – COGNITIVE ASPECTS

Oleg O. Iliashenko¹, Valeriy P. Mygal², Galyna V. Mygal³, Olga F. Protasenko⁴

1 Department of Computer Systems Networks and Cybersecurity, National Aerospace University "Kharkiv Aviation Institute", Ukraine

2 Department of Physic, National Aerospace University "Kharkiv Aviation Institute", Ukraine

3 Department of Automobile and Transport Infrastructure, National Aerospace University "Kharkiv Aviation Institute", Ukraine

4 Department of Environmental Technologies, Ecology and Safety of Vital Activity, Simon Kuznets Kharkiv National University of Economics

PO.2.19 APPLICATION OF EYE TRACKING TECHNOLOGY FOR ASSESSMENT AND ASSURANCE OF SECURITY AND SAFETY-CRITICAL SYSTEMS

Oleksandr Gordieiev¹, Oleg Iliashenko², Vyacheslav Kharchenko²

1 Banking University, Department of Cybersecurity

2 National Aerospace University "Kharkiv Aviation Institute" (KhAI), Department of Computer Systems, Networks and Cybersecurity

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

PO.1.20 DESIGNING A NEW APPROACH FOR RISK REDUCTION DURING PANDEMIC EMERGENCIES LIKE SARS-COV-2: POST-MORTEM INVESTIGATION THROUGH VIRTUAL AUTOPSY TECHNIQUES

Laura Filograna¹, Andrea Malizia¹, Colleen Patricia Ryan³ and Guglielmo Manenti¹

1. *Polclinico Tor Vergata: Fondazione PTV, Via di Montpellier 1, 00133 Rome (Italy)*

2. *Department of Biomedicine and Prevention, University of Rome Tor Vergata, Via di Montpellier 1, 00133 Rome (Italy)*

3. *University of Rome Tor Vergata, Via di Montpellier 1, 00133 Rome (Italy)*

PO.1.21 ACCURATE NUMERICAL EVALUATION OF HUMAN EXPOSURE TO BROADBAND RADIATED FIELDS BY PORTABLE SYSTEMS

Agostino Monorchio¹, Eliana Canicatti¹, Elisa Giampietri¹, Danilo Brizi¹ and Nunzia Fontana¹

1. *University of Pisa*

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

PO.2.20 F.A.Q. - (Filtered Air Quality) – APPLICATION FOR FILTERING AND MONITORING THE QUALITY OF BREATHING AIR

Roberto Mo¹, Fabrizio Pirri¹

1. *Dept. of Applied Science and Technology - Politecnico di Torino*

PO.2.21 NEW TECHNOLOGIES FOR THE CBRNe FILTRATION THROUGH NANOTECHNOLOGIES AND FOTOCATALYSIS

Giovanni Baldi¹, Luca Pinciarelli²

1. *COLOROBIA CONSULTING – Centro Ricerche COLOROBIA*

2. *BMD spa*

04.00 p.m. - 07.00 p.m.

POSTER SESSION 1

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **AUDITORIUM**

Chairpersons: **Dr. Chierici, Dr. Quaranta, Dr. Gamal**



Dr. Chierici



Dr. Quaranta



Dr. Gamal

5 minutes of Presentation per POSTER

- PO.1.22 THREATS TO PLANT HEALTH: IMPACT AND RISKS FOR HUMAN SECURITY**
Stefania Tegli¹, Giovanni Agati¹, Luca Calamai¹, Lucia Cavigli¹, Dario Gaudio¹
 1. Dipartimento di Scienze e Tecnologie Agrarie, Alimentari, Ambientali e Forestali – Università di Firenze
- PO.1.23 CBRN RISK COMMUNICATION TO MEMBERS OF THE PUBLIC IN CASE OF A TERRORIST ATTACK**
Jozef Sabol¹, Otakar Mika¹
 1. Police Academy of the Czech Republic in Prague, Lhotecka 559/7, 143 91 Prague 4, (Czech Republic)
- PO.1.24 DISPLACEMENT, RISK AND RESILIENCE: REBUILDING THE LIVES OF INTERNALLY DISPLACED WOMEN IN NIGERIA PLAYFULLY**
 Jayne Mwangi¹, Victor Ladan Lutsili¹, Desire Adebimpe Fashina¹
 1. Technical University of Mombasa, Kenya
- PO.1.25 RISK ASSESSMENT INSTITUTIONAL APPROACHES FOR DISASTERS MANAGEMENT: US, UN AND EU CASES**
Marco Carbonelli¹, Mariachiara Carestia¹, Riccardo Quaranta¹
 1. Department of Industrial Engineering, University of Rome Tor Vergata

POSTER SESSION 2

12 December 2020 - 04.00 p.m - 07.00 p.m (UTC+1 - Italian Time)

Virtual Room: **LEONARDO**

Chairpersons: **Dr. Di Giovanni, Dr. Carestia, Dr. Rossi**



Dr. Di Giovanni



Dr. Carestia



Dr. Rossi

5 minutes of Presentation per POSTER

- PO.2.22 PAPER-BASED ELECTROCHEMICAL DEVICE FOR ON-SITE AND RAPID DETECTION OF BOTULINUM NEUROTOXIN SEROTYPES A AND C**
Fabiana Arduini¹, Veronica Caratelli¹
 1. Department of Chemical Science and Technologies – University of Rome "Tor Vergata")
- PO.2.23 A GENERAL MULTI-RISK ASSESSMENT METHOD FOR NATURAL DISTASTERS AND CBRNE ATTACKS**
 Marco Carbonelli¹ and Laura Gratta²
 1. Department of Industrial Engineering, University of Rome Tor Vergata (Italy)
 2. Risk Management Expert, Italian Public Administration (Italy)
- PO.2.24 HOW MACROECONOMIC DETERMINANTS AFFECTING COMMERCIAL BANKS NON-PERFORMING LOAN IN ETHIOPIA COMMERCIAL BANK**
Getachew Mulat¹
 1. Departement of Economics, Aksum University Tigray, Ethiopia
- PO.2.25 DEVELOPMENT OF DELIBERATION-BASED ORGANIZATIONS FOR CONSENSUS IN RURAL CENTRAL JAVA, INDONESIA**
 Koes Indrati¹, Bambang Tri Cahyono¹
 1. Universitas Pelita Bangsa, Indonesia