ANIMMA 2025

Tuesday, June 10, 2025

#06 - Nuclear Safeguards, Homeland Security and CBRN - Room 3 (2:00 PM - 4:00 PM)

time	[id] title	presenter
2:00 PM	[57] #6-57 Measurement of Neutron Active Interrogation Contraband Signatures Using Organic Scintillators	Mr GRAHAM, Colton
2:20 PM	[272] #6-272 The photofission reaction against the illicit transport of nuclear material in cargo containers: A review on recent achievements and future challenges in active photon interrogation	SARI, Adrien
2:40 PM	[11] #6-11 Novel nuclear measurements and systems for facilitating the implementation of Safeguards and Safeguards-by-design in new SMR, AMR and Microreactor	Dr MORICHI, Massimo
3:00 PM	[266] #6-266 Evaluating the performance of a photofission prompt neutron detection system based on threshold activation scintillation coupled with a 9 MeV electron accelerator	SOBCZAK, Luna
3:20 PM	[16] #6-16 Advancements in Illicit Material Detection Using Active Photon Interrogation and Photoneutron Spectrometry: Proof of Concept and Application to Homeland Security	BESNARD-VAUTERIN, Clément
3:40 PM	[235] #6-235 Development of a radiation detection system for the prevention of illicit trafficking of special nuclear materials and radiation sources	Mr MARQUES, Luís

#06 - Nuclear Safeguards, Homeland Security and CBRN - Room 1 (5:10 PM - 5:25 PM)

time	[id] title	presenter
5:10 PM	[2] #6-2 Combined peak searching and machine learning algorithm for identification of radionuclides	HUTOUSKI, Aliaksei
5:15 PM	[9] #6-9 An Italian software infrastructure for the safe use and tracking of HASS and their use and management	FANCHINI, Erica
5:20 PM	Empty	

Wednesday, June 11, 2025

#06 - Nuclear Safeguards, Homeland Security and CBRN - Room 3 (9:20 AM - 11:00 AM)

time	[id] title	presenter
9:20 AM	[194] #6-194 Directional Detection and Fissile Material Identification: Results from tests campaign at STUK and SCK-CEN with the nFacet 3D detector	Mr BÉRAUD, Kaciel
9:40 AM	[24] #6-24 Comparative analysis of automatic identification of radionuclide in gamma-ray spectrometry: machine learning versus statistical approaches	PHAN, Dinh Triem
10:00 AM	[47] #6-47 Laboratory tests of SNM identifier with respect to ANSI standard reference: technology, test scenarios, and measurements results	Dr MORICHI, Massimo
10:20 AM	[13] #6-13 Assessment of radiological dispersal devices in densely populated areas: simulation and emergency response planning	Mr EL KHADIRI, Yassine Dr KABACH, Ouadie CHAKIR, El Mahjoub
10:40 AM	[71] #6-71 NaTIF a Radiation Portal Monitor: multiparametric analysis towards performances optimization, source anisotropy and threats tracking.	BURIDON, Victor

#06 - Nuclear Safeguards, Homeland Security and CBRN - Room 3 (11:20 AM - 12:40 PM)

time	[id] title	presenter
11:20 AM	[251] #6-251 Neutron/gamma discrimination with proportional counter using artificial intelligence	Mrs KANJ, Aya
11:40 AM	[45] #6-45 3D-Printed Modular Radiation Sources for Testing Radiation Detectors and Advancing Radioisotopes Identification Algorithms	BENTOUMI, Ghaouti
12:00 PM	[283] #6-283 A computer-vision aided Compton-imaging system for radioactive waste characterization and decommissioning of nuclear power plants	BABIANO SUÁREZ, Víctor
12:20 PM	[176] #6-176 Benchmarking TRIPOLI-4, MCNP6, PHITS and DIANE Monte Carlo codes against photofission experiments using a 9 MeV electron accelerator	Mr GARNAUD, Louis

#06 - Nuclear Safeguards, Homeland Security and CBRN - Room 3 (2:00 PM - 4:00 PM)

time	[id] title	presenter
2:00 PM	[217] #6-217 Estimation of the time of exposure from the differential fading of luminescent detectors	Mr ROINA, Gianpaolo
2:20 PM	[102] #6-102 Study of the industrial feasibility of Neutron Resonance Transmission Analysis (NRTA) for spent nuclear fuel reprocessing exploitation	AZZOUNE, Melissa
2:40 PM	[68] #6-68 OMNISCINTI™: From quintuple discrimination scintillator to prototype detection head.	BERTRAND, Guillaume
3:00 PM	[206] #6-206 Differential Die Away and Delayed Neutron Temporal Analysis to Determine Fissile Mass and Isotopes in Uranium Samples	WILSON, Caryanne
3:20 PM	[134] #6-134 Augmented X-rays: New Functionalities for High energy X-rays Cargo Scanner	MAITREJEAN, Serge

| 3:40 PM | [20] #6-20 A Compact Solution for Detecting and Identifying Radioactive Gases Through Coincidence Quenching | Dr SABOT, Benoit |

#06 - Nuclear Safeguards, Homeland Security and CBRN - Room 3 (4:20 PM - 5:15 PM)

time	[id] title	presenter
4:20 PM	[59] #6-59 Cyber security of instrumentation and radiation monitoring systems based on programmable digital devices such as FPGAs in New Nuclear Power Plant	PARK, Seunghoon
4:25 PM	[69] #6-69 HV effect on neutron coincidence counting	Dr RISSE, Monika
4:30 PM	[128] #6-128 Active Fast Neutron Multiplicity Counting with DT Neutron Generator	LIU, Xiaobo
4:35 PM	[125] #6-125 Fast Neutron Multiplicity Counting for High Mass Plutonium Assay	LIU, Xiaobo
4:40 PM	[187] #6-187 An Overview of the MULTISCAN 3D Project: An Advanced Inspection System Integrating Cutting-Edge Technologies to Improve Cargo Container Security Checks at European Borders	MER, Christine
4:45 PM	[258] #6-258 Experimental verification of nuclear fuel analogues for the detection of water	GREEN, Brendan
4:50 PM	[247] #6-247 Inter-laboratory comparison within the RESORAD Italian network on the natural occurring radioactive materials (NORMs)	Dr CAPOGNI, Marco Dr DE FELICE, Pierino Dr FONTANI, Sonia
4:55 PM	[303] #6-303 Development of Portable Radiological Monitoring Systems for CRBN Emergencies	MINI, Giuliano
5:00 PM	[12] #6-12 Optimization of neutron shielding in radioactive waste containers using novel materials: a Monte Carlo simulation approach	Mr EL AZZAOUI, Brahim KABACH, Ouadie Prof. CHAKIR, El Mahjoub
5:05 PM	[122] #6-122 Single-plane readout Compton camera - laboratory performance evaluation	DASH, Om Prakash
5:10 PM	[62] #6-62 Development of the Uranium Verification System for Nuclear Material Management in Korea	AHN, Jihyun