

Thursday 11 November, 2021

Hall A

Session I: Physics A

9:30 – 11:30

Chairmen	
Prof. Dr. Cristina Margeanu	Prof. Dr. Mohamed Gomaa
9:30 – 9:45 AM	<i>Prof. Dr. Fawzya El Bukkoush</i> Tajoura Nuclear Research Center, Libya Investigation of Local Shield Materials for Nuclear Reactors
9:45 – 10:00 AM	<i>Prof. Dr. Fawzya El Bukkoush</i> Tajoura Nuclear Research Center, Libya Status of Project Explosive and Illicit Materials Detection by Nuclear Techniques
10:00 – 10:15 AM	<i>Ass. Prof. Dr. Khaled Ahmed</i> Faculty of Science, South Valley University, Egypt Natural Radioactivity Measurements for Soil and Springs Water Samples from Siwa Oasis, Western Desert, Egypt
10:15 – 10:30 AM	<i>Ass. Prof. Dr. Gehan Mohamed</i> NRC, EAEA, Egypt Cross Section Empirical Formulation for (n, 2n) Nuclear Reactions on Natural Isotopes from Z= 21 to Z= 79 for Neutron Energy Range, 8-20 MeV
10:30 – 10:45 AM	<i>Ass. Prof. Dr. Emad Ghanim</i> Faculty of Technology and Education, Beni-Suef University, Egypt Registration Response of Makrofol-E NTDs to Heavy Ions for Dosimetric Applications
10:45 – 11:00 AM	<i>Dr. Nagwa Rady</i> Faculty of Science, South Valley University The Relation Between Radon, Meteorological Parameters, Atmospheric Gases and PM10: Case Study Qena City
11:00 – 11:15 AM	<i>Khadijah Makkawi</i> King Fahad Hospital, KSA Attenuation Effectiveness of TiO ₂ /PMMA and Bi/PMMA Nanocomposites Corresponding to X-Ray Beams 20 – 120 kVp
11:15 – 11:30 AM	<i>Dr. Basma Elbadry (Video Conference)</i> Faculty of Girls, Ain Shams University Determination of Radionuclides and its Radiological Risks in Different Brands of Cooking Oil Samples

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THE EGYPTIAN SOCIETY OF RADIATION SCIENCE AND APPLICATIONS

Session II: Poster
11:30 – 1:00

Chairmen	
Prof. Dr. Abeer Amin	Prof. Dr. Mohamed Sallah
1.	<p><i>Prof. Dr. Aya Abaza</i> NRSRC, EAEA, Egypt Theranostic Applications in Nuclear Medicine and Molecular Imaging</p>
2.	<p><i>Prof. Dr. Mohamed Sallah</i> Faculty of Science, Mansoura University, Egypt External Exposure Dosimetry of Radionuclides in Um-Safi Mine Employing High-Resolution Gamma-ray Spectrometer and Dose Equivalent Modeling</p>
3.	<p><i>Ass. Prof. Dr. Taha Alfawal</i> NRC, EAEA, Egypt Dose Optimization for Eyes and Pelvic during CT Examinations</p>
4.	<p><i>Ass. Prof. Dr. Nadia Sirag</i> NRSRC, EAEA, Egypt A new GIS application for Radioactive Characterization to Observe Decontamination within Nuclear Facilities</p>
5.	<p><i>Dr. Emad Sheha</i> Cyclotron Facility, NRC, EAEA, Egypt Evaluation of Thermoluminescence Kinetic Parameters of Ag_3PO_4 Doped with Li^+ and Ba^{2+}</p>

Session III: Medical Physics

2:30 – 4:30

Chairman	
Prof. Dr. Abdul-Wali Ajlouni	
2:30 – 2:45 PM	Prof. Dr. Abdul-Wali Ajlouni College of Applied Sciences, Umm Al-Qura University, KSA Integrated Approach to Safety and Security to Compete Radiological Threats
2:45 – 3:00 PM	Prof. Dr. Abeer Amin HLCWM, EAEA, Egypt ¹³¹ I-PEGylated Silver Nanoparticles as A Theranostic Radiopharmaceutical for Solid Tumor Targeting: In-situ Preparation and In-vivo Evaluation
3:00 – 3:15 PM	Prof. Dr. Khaled Sallam HLCWM, EAEA, Egypt Development of Solid Phase Radioimmunoassay System to Assessment Estriol in Human Serum.
3:15 – 3:30 PM	Prof. Dr. Mohamed Abd El-Rahman HLCWM, EAEA, Egypt Preparation and Biological Evaluation of ^{99m} Tc-Letrozole as a SPECT Solid Tumor Imaging Agent.
3:30 – 3:45 PM	Ass. Prof. Dr. Ghada Khouqeer Imam Mohammad Ibn Saud Islamic University, Saudi Arabia Assessment of Extremity Occupational Exposure and Radiation Effect at Nuclear Medicine Department
3:45 – 4:00 PM	Ass. Prof. Dr. Taha Alfawwal NRC, EAEA, Egypt Radiation Doses Associated with Head, Chest and Abdomen Pelvic Computed Tomogram Examination in Umm Al-Qura University Medical Center
4:00 – 4:15 PM	Rawan Saleem Ministry of Health in Saudi Arabia, KSA Assessment and Optimization of Pediatric Radiation Doses and Associated Risk in Brain CT Procedures
4:15 – 4:30 PM	Suha Omar Master Student, KSA Optimization of Solid Radioactive Waste Management of I-131 Generated in Nuclear Medicine

Hall B
Session IV: Chemistry
9:30 – 11:00

Chairmen	
Prof. Dr. ElSayed Hegazy	Prof. Dr. Refaat Mahfouz
9:30 – 10:00 AM	<i>Prof. Dr. Refaat Mahfouz</i> Sci. Fac., Assiut University Isoconversional Approach for the Non-Isothermal Decomposition of Betaxolol Hydrochloride
10:00 – 10:15 AM	<i>Prof. Dr. Ghada Mahmoud</i> NCRRT, EAEA, Egypt Preparation of Hydrogels by Gamma Irradiation Based on Natural Polymers for Removal of Heavy Metal Ions
10:15 – 10:30 AM	<i>Dr. Hanaa Selim</i> Egyptian Petroleum Research Institute, Egypt. Photocatalytic Degradation of Methylene Blue Dye Using Hybrid Magnetic Core-Shell $\text{TiO}_2@ \text{CoFe}_3\text{O}_4$ Composite Under Visible Light Irradiation
10:30 – 11:00 AM	<i>Ass. Prof. Dr. Ahmed Orabi</i> NMA, Egypt Applied Diversified Methods for the Accurate Determination of U, Th and Some REEs in variegated Geological Samples

Session V: Agriculture 11:00 – 1:00

Chairmen	
Prof. Dr. Yahya Shakhatreh	Prof. Dr. Hedayat-Allah Salem
11:00 – 11:15 AM	<i>Prof. Dr. Yahya Shakhatreh</i> Arab Atomic Energy Agency, Tunisia Development, Release and Register of New Mutant Barley Variety Tolerant to Drought, By Using Gamma Rays
11:15 – 11:30 AM	<i>Prof. Dr. Ahmed Moursy</i> NRC, EAEA, Egypt Growth and Yield of Chickpea Treated with Different Levels of Lead and Molybdenum Using 15N Tracer Technique
11:30 – 11:45 AM	<i>Prof. Dr. Mazen Ismail</i> NRC, EAEA, Egypt Effect of Humic Acid Fertilizer on NPK Uptake by Yield of Rapeseeds Grown in Sand Soil Due to The Exposure of Its Seeds to Gamma Rays Irradiation Before Sowing
11:45 – 12:00 PM	<i>Prof. Dr. Mamdouh Abdel-Sabour</i> NRC, EAEA, Egypt Fate of Cesium and Strontium in Soil-to-Plant System (Overview)
12:00 – 12:15 PM	<i>Prof. Dr. Rehab Taha</i> Agricultural Research Center Sericulture Scennario
12:15 – 12:30 PM	<i>Ass. Prof. Dr. Samah Ibrahim</i> Plant Prot. Res. Inst., ARC, Egypt Semiochemicals Technologies for Control Red Palm Weevil <i>Rhynchophorus ferrugineus</i> (Palm Aids)
12:30 – 12:45 PM	<i>Ass. Prof. Dr. Ali Hamza</i> NCRRT, EAEA, Egypt Melanization and Phenoloxidase Activity in Gamma Irradiated Larvae of Almond Moth, <i>Ephestia cautella</i> (Walker) (Lepidoptera: Pyralidae)
12:45 – 1:00 PM	<i>Ass. Prof. Dr. Nagwan Zahran</i> NCRRT, EAEA, Egypt Fitness, Courtship and Reproductive Potential of Irradiated Onion Bulb Fly Males, <i>Eumerus amoenus</i> Loew (Diptera: Syrphidae) with Gamma Radiation

Session VII: Environment & Engineering Science
2:30 – 4:30

Chairmen	
Prof. Dr. Medhat Abdelaal	Prof. Dr. Wafaa Moustafa
2:30 – 2:45 PM	<i>Prof. Dr. Medhat Abdelaal</i> NRSRC, EAEA, Egypt Solution of Atmospheric Dispersion Models Using Graphical User Interface
2:45 – 3:00 PM	<i>Prof. Dr. Wafaa Moustafa</i> NRSRC, EAEA, Egypt Lessons Learned from The Past Accidents for Safety Culture Development
3:00 – 3:15 PM	<i>Prof. Dr. Mohamed Farahat</i> NRSRC, EAEA, Egypt Recent Design Concepts of Ocean Nuclear Power Plants
3:15 – 3:30 PM	<i>Ass. Prof. Dr. Kamilia Hagagg</i> NRSRC, EAEA, Egypt Assessment of Radiation Hazards and Total Suspended Particulate of Cement Industry, Egypt
3:30 – 3:45 PM	<i>Dr. Mohamed Kassab</i> NRC, EAEA, Egypt Evaluating the Effectiveness of Some Agricultural Practices Using ⁷ Be Fallout at Sehoul Catchment, Morocco.
3:45 – 4:00 PM	<i>Dr. Heba Nada</i> NCRRT, EAEA, Egypt Irradiation Status Identification Method for Fruits and Vegetables Based on Machine Learning Algorithm
4:00 – 4:15 PM	<i>Dr. Nesma Elsokkary</i> NCRRT, EAEA, Egypt Hybrid Particle Swarm Optimization Algorithm and Support Vector Classifier for Coronavirus (COVID-19) Detection from CT Images