

**INTEC-2024**

International Nuclear Sciences and Technologies Conference

**5-7 September 2024**Ege University Ataturk Cultural
Center, IZMIR**Final Programme****5 September 2024**

Hall 1	
9:30-10:00	Registration
10:00-10:30	Opening Ceremony
10:30-10:45	Coffee Break
	Session Chairs: Prof. Dr. Şenol Sert
10:45-11:15	Invited Lecture 1 Needs of Medical Physicists in Diagnostic Radiology and Nuclear Medicine: Presentation of the IAEA staffing algorithm Assoc.Prof.Dr. Leila OUNALLI
11:15-11:45	Invited Lecture 2 The reconstruction of global change impacts on the coastal zone by using ²¹⁰ Pb-dated sediment cores Prof.Dr. Ana Carolina RUIZ-FERNANDEZ
11:45-12:00	Foto
12:00-13:30	Lunch
	Session Chairs: Prof.Dr. Aysun Uğur Görgün
13:30-14:00	Invited Lecture 3 Plutonium in corals: a good Anthropocene marker? Prof.Dr.Joan Albert SANCHEZ-CABEZA
Hall 1	
	Session Chairs: Prof. Dr. Serap Teksöz
14:00-14:15	Absorbed Doses for ⁶⁸ Ga-PSMA PET/CT Prostate Imaging Erkan SEZGİN
14:15-14:30	Development of a Methyl Thymol Blue-Loaded Alginate Hydrogel for Quantitative Detection of Sr(II) Ions in Water Alparslan E. Oral
14:30-14:45	Synthesis and In Vitro Evaluation of ^{99m} Tc Radiolabeled Salinomycin Loaded Mesoporous Silica Nanoparticles On Cervix and Ovarian Cancers Özge Kozguş Güldü
14:45-15:00	Development of a novel Zr-89 Radiolabeled Multimodal Nanoparticle System Oğuz Çetin
15:00-15:15	Coffee Break
	Session Chairs: Assoc. Prof. Dr. Ayfer Yurt Kılçar
15:15-15:30	Comparison of Four Image and Single Image Estimated Renal Dosimetry Results in ¹⁷⁷ Lu-Psma Treatment Bilal Kovan
15:30-15:45	New Approach to CRPC with [^{99m} Tc]Tc-XCT-790: In Vitro Therapy with Auger
Hall 2	
	Session Chairs: Prof.Dr. Ralph Santos Oliveira
14:00-14:15	Luminescence Characterization of Nanophosphors CaGdAlO ₄ Doped with Terbium and Praseodymium Arzu Ege
14:15-14:30	Thermoluminescence Characteristics of CaF ₂ :Tb Irradiated with Beta Radiation Alara Çan
14:30-14:45	PIXE Analysis of Vegetation Samples from Mining Site, Dange-Shuni LGA, Sokoto State Yusuf Ahijjo Musa
14:45-15:00	Possible applications of zeolitic rocks in the nuclear waste field Nina Nikolova
15:00-15:15	Coffee Break
	Session Chairs: Dr. Michael Duncan Yoho
15:15-15:30	Heavy Metal Pollution in Sediments from Bosphorus Derived from ²¹⁰ Pb and ¹³⁷ Cs Serkan Gürleyen
15:30-15:45	Assessment of Radionuclide Concentrations in Construction Materials

	Energy Emre Uygur	Employed in Housing Structures within İzmir Province Aysun Uğur Görgün
15:45-16:00	Synthesis, Characterization, and Application of Cys-graft-poly(2-hydroxyethyl methacrylate) Nanopolymers Radiolabeled with Technetium-99m for Biomedical Applications Emre Uygur	Effect of Gamma Irradiation on conductivity Cd1-xFexTe Zarifa Ahmadzada
16:00-16:15	Sedimentation Rate and Chronology of Çınarcık Basin, the Marmara Sea İdris Koraltan	Investigation of the Usability of Ce and N Doped Hybrit Carbon Quantum Dots for the Removal of Neodymium Ions Berkant Şentürk
	Session Chair: Prof. Dr. Ana Carolina Ruiz-Fernandez	Session Chair: Prof. Dr. Joan Albert Sanchez-Cabeza
16:15-16:30	Radio ecology in India: Strategies for Improved Understanding and Mitigation of Radiation Impact Amitansu Pattanaik	Radiologic Risk Assessment of Outdoor Gamma Dose Rate in Çorum Province, Turkey İlayda Yılmazkaya
16:30-16:45	Impact of Uranium on the Environment: A Machine Learning Perspective Amitansu Pattanaik	Generation of Nuclear Reaction Cross-Section Data by Artificial Intelligence Ramzi Maalej

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09:30-17:00	Poster Presentation Session Chairs: Dr. Caner TAŞKÖPRÜ, Dr. Özge KOZGUŞ GÜLDÜ, Dr. Berkan ÇETİNKAYA, Prof.Dr. Galina LUJAIENE	
	Hall 1	
	Session Chairs: Prof. Dr. Derya İlem Özdemir	
09:30-10:00	Invited Lecture 4 Nanoradiopharmaceuticals applications and cases Ralph SANTOS-OLIVERIA	
10:00-10:30	Invited Lecture 5 Nuclear Medicine as a World-Heritage: Current Status and Future Perspectives Prof. Dr. Murat Fani BOZKURT	
10:30-10:45	Coffee Break	
	Hall 1	Hall 2
	Session Chairs: Prof. Dr. Fatma Yurt	Session Chairs: Assoc. Prof. Dr. Leila Ounalli
10:45-11:00	Imaging Potential of 89Zr Radiolabelled Trastuzumab Conjugated Magnetic Nanoparticles in Breast Cancer Derya Özel	Variation of soil gas 222Rn/220Rn concentration ratios along the Balçova-Narlıdere segment of the İzmir Fault Ceren Altun
11:00-11:15	In Vitro Efficacy of 177Lu-DOTA-Trastuzumab Targeted Carbon@Silica Nanostructures for HER2-POSITIVE Breast Cancer Ayça Tuncel	Assessment of soil gas radon variations in terms of seismicity in Yalova, Türkiye Osman Günay
11:15-11:30	Soft Error Risk Assessment in Heavy Ion Radiation Therapy for Prostate Cancer Makoto Sakai	Investigation of Indoor Radon Levels in Schools in the Bornova District of İzmir Province Gülse Masruoğlu
11:30-11:45	Radiation Shielding Properties of New Knitted Fabric-Reinforced Composites at Nuclear Medicine Energies Melek Can	Determination of Radon (222Rn) Levels in Halkapınar Springs and its relation with seismicity. İlayda Sapmaz
11:45-13:30	Lunch	
	Hall 1	
	Session Chairs: Assoc.Prof. Dr. Mutlu İçhedef	
13:30-14:00	Invited Lecture 6 Assessing Radon Monitoring Data for Precursory Studies in Taiwan: Relevance to Recent Seismic Events Vivek WALIA	
14.00	Social Programme	

7 September 2024

	Hall 1	
	Session Chairs: Prof. Dr. Yüksel Altaş	
09:30-10:00	Invited Lecture 7 Environmentally Friendly Sorbents Based on Nanotechnology for the Removal of Pollutants from Aqueous Solutions	

Galina LUJANIENE		
10:00-10:30	Invited Lecture 8 Development Studies of Molten Salt Reactor Project in TÜRKİYE Dr. Reşat UZMEN - FIGES A.Ş.	
10:30-10:45	Coffee Break	
	Hall 1	Hall 2
	Session Chairs: Prof. Dr. Michele Guida	Session Chairs: Prof. Dr. Şenol Sert
10:45-11:00	Strontium removal by activated carbon produced "Posidonia oceanica" Seagrass Doğukan Alkım Türközü	Analysing the Relationship between Electricity Generation and Environmental Impact of Coastal Nuclear Plants in the European Union Ercüment Aksoy
11:00-11:15	Investigation of the use of electrospun graphene based ZnO nanofiber in uranium(VI) adsorption Gözde İkbal Kaptanoğlu	Radionuclides (40K, 232Th, 238U) and Trace Elements in Sediment and Seagrass (Cymodocea nodosa) on the Aegean Coast Nurdan Akakçe
	Session Chairs: Prof. Dr. Sabriye Yuşan	Session Chairs: Prof. Dr. Serpil Aközcan Pehlivanoğlu
11:15-11:30	Synthesis and Characterization of Bio-Based Solvents for the Separation of Thorium, Uranium and Rare Earth Elements Bekir Özkan	Diurnal variation of soil gas radon (222Rn) and carbon dioxide (CO2) concentrations around İzmir Fault Zone (IF) Mutlu İçhedef
11:30-11:45	Synthesis and Characterization Studies of CMC/NCC Nanocomposites Derived from Textile Waste for the Adsorption of Lanthanum Ions from Aqueous Solutions Hasan Türkmen	Investigation of Radon Adsorption Capacity of Metal Organic Frameworks by Using Solid-State Nuclear Track Detectors Caner Taskopru
11:45-12:00	Evaluation of TPA (terephthalic acid) as an Adsorbent for Ce(III) and Sr(II) Adsorption from Aqueous Solution Şenol Sert	Failure of Electron Spin Resonance Technique to Detect Irradiated Foods: Poppy (Papaver Somniferum) Seeds Ufuk Paksu
12:00-13:30	Lunch	
	Hall 1	
	Session Chairs: Prof. Dr. Şule Aytaş	
13:30-14:00	Invited Lecture 9 The THERADE international Center for Research and Advanced Studies on Innovative Technologies for Radiations applied to Environment, Cultural Heritage Conservation and Protection, and Health Risks: A multidisciplinary intraeuropean fan of projects with the vision of pursuing sustainability, inclusion and well-being. Michele GUIDA	
14:00-14:30	Invited Lecture 10 Current Status and Distribution of Radioactive Nuclides in Central India: Advances in Environmentally Friendly Removal Technologies Santosh KUMAR SAR	
	Hall 1	Hall 2
	Session Chairs: Assoc.Prof.Dr. Banu Yoho	Session Chairs: Prof. Dr. Günseli Yaprak
14:30-14:45	Photocatalytic Degradation of Pharmaceutical Compound Efavirenz Using Green Synthesized Titanium Dioxide Nanoparticles Maryam Amra Jordaan	Calculation the Form factors of the nucleons in a higher approximation Mohammadreza Shojaei
14:45-15:00	The Use of BPW34 as a Sensor in Radiation Detection Nuray Meric	Even-Odd Proton rich N=49 Isotones Nuclear Structure Investigations Nadjet Laouet
15:00-15:15	Coffee Break	
	Session Chairs: Prof. Dr. Süleyman İnan	Session Chairs: Assoc. Prof. Dr. Berkay Camgöz
15:15-15:30	Assessment of Cs-137 Radioactive Contamination Levels in the Salda Lake Osman Günay	Shell Model Calculations in Isotopic Chain Beyond Doubly Magic 56Ni core Benrachi Fatima
15:30-15:45	Development, Characterization and Investigation of Sorption Properties of Graphene Oxide/Alginate Based Nanobiocomposites for Strontium Removal Yusuf Azmi Akbaş	The role of RS and GIS Methods in Nuclear Leakage Spatial Risk Assessment: A Sample Study C. Bertan Güllüdağ
15:45-16:00	Adsorption of Strontium Using Magnetic Biochar Obtained from Tree of Heaven (Ailanthus Altissima) Melike Doğmuş	Microscopic analysis of electric dipole strengths in 185,187Re Ayşenur Özçetin
16:00-16:15	Correlation Between the Atomic Radius of Dopant Elements and the Photocatalytic Efficiency of Titanium Dioxide (TiO2) Sedratı Hichem	A theoretical study on the oblate shape of 191,193Ir nuclei Zülal Gökmen

	Session Chair: Assist. Prof. Dr. Gözde İkbal Kaptanoğlu	Session Chair: Assoc. Prof. Dr. İlker Sert
16:15-16:30	Measurement of Indoor Radon Concentration using Different Types of Devices and Accompanying Health Hazards Serpil Aközcan Pehlivanoglu	The Isovector Giant Dipole Resonance in 195Pt Kader Akkaya
16:30-16:45	Natural Radioactivity Measurements and Dose Assessment in Beach Sands Collected Along the Coastline of the Campania Region, Southern Italy Serpil Aközcan Pehlivanoglu	Nuclear Ground State Properties in Halo Nuclei Mohammadreza Shojaei
16:45-17:00	Polymeric Nanoparticles Loaded With 99mTc Radiolabeled Zolmitriptan: Synthesis, Characterization and In Vitro Evaluation İbrahim Sarıkavak	Adaptive Neuro-Fuzzy Inference System (ANFIS) Modelling of First and Second Photonuclear Sum Rules in Giant Dipole Resonance Ayşenur Özçetin

POSTERS

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		Session Chairs: Assist. Prof. Dr. Caner TAŞKÖPRÜ, Dr. Özge KOZGUS GÜLDÜ, Dr. Berkan ÇETİNKAYA, Prof. Dr. Galina LUJAIENE	
ID	Code	Title	Name
5513	P-01	Clofoctol (o-CLO): Isolation from cave environment, radioiodination and its antibiofilm effect	Fazilet Zümrüt Biber Muftuler
5531	P-02	Preparation, Optimization, and Stability of Dye-Loaded Protein Structured Nanocolloids as a Novel Radiopharmaceutical Candidate	Derya İlem Özdemir
5536	P-03	Quantitative Imaging Characteristics of Terbium-161	Yasemin Parlak
5540	P-04	Natural Radionuclide Concentrations in Coal and Combustion Wastes in Medium Scale Industry	Elçin Ekdal Karalı
5542	P-05	Complexation Behaviour of Caffeic and Cinnamic Acids Towards La(III), Sm(III), Th(IV) and UO ₂ (II) Ions	Serap Teksöz
5545	P-06	Utilization of Cyanex-272 Impregnated Amberlite XAD Resins for Uranium Adsorption	Süleyman İnan
5556	P-07	⁸⁹ Zr-Labeled DFO@DURVALUMAB-HSA Nanoparticles: In Vitro Potential for Triple-Negative Breast Cancer	Fatma Yurt
5565	P-08	Investigation of Radon, Radium, Ph and Conductivity Values of Drinking Water: Menemen Region	Murat Saç
5567	P-09	Synthesis of Naphthelene Diimide Derivative Targeting G-Quadruplex Structures	Hilal Kızıılışık
5568	P-10	Radiolabeling and Quality Control Studies of Dexketoprofen	Meliha Ekinci

		Trometamol Loaded Chitosan Nanoparticles	
5569	P-11	Seagrass Active Carbon / Pectin Composite (AC-P) Formation for Strontium Adsorption	Şule Aytas
5571	P-12	Fly Ash-TiO ₂ Composites for Adsorption of Sr ²⁺ from Aqueous Solution	Emine Nostar Aslan
5585	P-13	Luminescence Properties of BaSO ₄ Doped with Gd Synthesized by Solid State Reaction Method	Hakan Eroğlu
5586	P-14	Natural Radioactivity of Soils in Aydin-Germencik Geothermal Region	Filiz Gür
5588	P-15	Radioiodination of AuFe Nanoparticle Conjugated Topoisomerase Inhibitor Camptothecin and Evaluation of It's Efficacy on Cancerous Cells	Emin İlker Medine
5621	P-16	(e ⁻ , 3e ⁻) reaction of methane(CH ₄) Final state correlation and Molecular orientation effects	Kada Imene
5653	P-17	The Sorption Properties of Strontium on High Poros Polyhype/Nanoclay Composite	Ümran Hiçsönmez
5714	P-18	Aspergillus niger as a Biosorbent: pH Influence on Radiostrontium Removal Efficiency	RNDr. Marek Hupian
5718	P-19	Radiosensitization Potential of Betulinic Acid and Bismuth Nanoparticle Combination in Melanoma Cells	Filiz Bostan
5719	P-20	Assessment of Indoor Radon Concentrations Using Solid-State Nuclear Track Detectors (LR-115)	Buket Gülsoy
5723	P-21	The effect of irradiation methods on soft-error generation in carbon ion radiotherapy	Hiroshi Sakurai
5727	P-22	A New Explanation for the Decay of Nuclei of Heavy Elements Such as Uranium	Gh. Saleh
5728	P-23	A New Explanation for Nuclear Fission of All Elements in the Universe	Gh. Saleh
5729	P-24	A New Calculation of Frequencies of Electrons and Atomic Nucleus	Gh. Saleh
5730	P-25	Validation of methods for measuring the number of soft errors in particle therapy	Makoto Sakai

5732	P-26	Sorption Characteristics of ¹¹¹ In-labeled Hydroxyapatite Nanoparticles	Martina Bugriová
5733	P-27	Environmental impact and risks associated with radioactive contamination of Aquatic ecosystems	BOUHILA Ghania
5735	P-28	Investigation of monomers ratios in a 2M mixture by positron annihilation spectroscopy	Katarína Cifraničová
5787	P-29	Efficiency of Nanocrystalline Cellulose Reinforced Carboxymethyl Cellulose Nanocomposites Obtained from Textile Wastes in Neodmium Adsorption	Hasan Türkmen
5789	P-30	Synthesis of Cerium and Nitrogen Doped Hybrid Carbon Quantum Dots for Environmental Monitoring Applications	Berkant Şentürk
5793	P-31	Determination of Natural Radioactivity and Radiological Risk Distribution of Surface Soils in Aliğa District Industrial Zone and its surroundings	Filiz Gür
5802	P-32	Radioiodination of saponin derivative, C1, isolated from Astragalus sp.	Ayfer Yurt Kılçar
5804	P-33	In Vitro Efficacy of Pemetrexed-Conjugated GO/ZnO Nanoparticles Produced by Green Synthesis Method on Lung Cancer	Zeliha Eren
5806	P-34	Immobilization of Cobalt Wastes in Glass Ceramic Matrices	Sema Erentürk
5647	P-35	The Spatial Distribution of Thorium(IV) ion Concentration in the Shivnath River Basin in Chhattisgarh State	Neha Verma
5649	P-36	An Investigation into the Spatial Distribution of Uranium in Durg and Rajnadgaon District of Chhattisgarh , Focusing on its Presence in Soil, Rocks, Water, Plants, and its Constituents	Ranu Singh
5652	P-37	Green Steps for Bio decorated material:AMBP (Aegle marmelos bark powder) a Promising Scavenger towards	Ms. Poonam Deshmukh

		Radionuclide Adsorption	
5848	P-38	Investigation of thorium(IV) removal utilizing reduced graphene oxide - zinc oxide nanofibers with response surface methodology	Ikbal Gozde Kaptanoglu
5674	P-39	Correlation between short hardness and lec behavior of HDPE loaded with carbon black	Zemouri Zahia
5760	P-40	Efficient Removal of Lanthanum (La ³⁺) from Aqueous Solutions Using Dried Brown Algae: Understanding Adsorption Mechanisms and Optimization	Latifa Boukarma
5558	P-41	The Use of ⁷ Be, ¹³⁷ Cs and ²¹⁰ Pb in the Evaluation of the Contemporary and Medium Term Sediment Deposition on the Meric River Floodplains	Nedime Irem Elek
5562	P-42	Sedimentation Rate of the Meriç Floodplains by ¹³⁷ Cs technique	Günseli Yaprak
5758	P-43	Adsorption of Lanthanum Ions Using Magnetic Nanoparticle/Clay Mineral Composite: A Study on Kinetics, Isotherms, and Box-Behnken design	Abdelali Aboussabek