

2nd International Conference on

ENVIRONMENT, TECHNOLOGY AND MANAGEMENT

ICETEM | 13-15 OCTOBER 2022 / NIĞDE/TURKEY

Niğde Ömer Halisdemir University Environmental Engineering Department



2ND INTERNATIONAL CONFERENCE ON ENVIRONMENT, TECHNOLOGY AND MANAGEMENT (ICETEM)

CONFERENCE PROGRAMME BOOK

NIĞDE ÖMER HALISDEMİR UNIVERSITY

NIĞDE-TÜRKİYE

13-15 October, 2022

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Dear Colleagues,

We have the pleasure for sharing state-of-the-art knowledge, science and technology with you in the "2nd International Conference on Environment, Technology and Management (ICETEM)" which will be held between 13-15 October, 2022 in Niğde (one of the cities of Cappadocia), Türkiye.

2nd ICETEM is organized by Environmental Engineering Department of Niğde Ömer Halisdemir University (Niğde/Türkiye). This conference will provide not only the opportunity to bring experts from all around the World and different disciplines and but also the ideal academic platform for researchers to present the latest research findings. We believe this interaction is a unique platform to come together to discuss critically recent research and to intensify new collaborations and scientific research in environment, technology and management.

On Behalf of Organizing Committee

Prof. Dr. Neslihan DOĞAN-SAĞLAMTİMUR

Co-Chair of the ICETEM

Prof. Dr. Fehiman ÇİNER

Co-Chair of the ICETEM

THE 2ND ICETEM

Opening Ceronomy: October 13, 2022 10.00 a.m. / **Closing Ceronomy:** October 14, 2022 17.30 p.m.

Time Zone: Europe/Istanbul (Türkiye) (UTC+3)

PROGRAMME

Venue: Şehit Ömer Halisdemir Congress and Culture Center

OCTOBER 13, 2022, THURSDAY	HOUR	SESSIONS (DAY-1)	Thursday (13 October 2022) ORAL PRESENTATIONS
	09:30-10:00		REGISTRATION
	10:00-10:45	HALL 1923	WELCOME AND PROTOCOL SPEECHES
	10:45- 11:00		Mini Concert Piano: Prof. Dr. Timur VURAL Lute and Bouzouki: Assoc. Prof. Dr. Hakan Emre ZİYAGİL
	11:00-13:00	HALL 1923 (Online)	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3a16mKSea2zIAAZHxbzT8W3YQh9vJfVTx6gEBQxmclmSk1%40thread.tacv2/1665554817184?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d <u>Keynote Speakers</u> (11:00 – 11:30) Prof. Dr. Marek HEBDA Cracow University of Technology (Poland) “Development of 3D Printing Technology for Eco-Friendly Construction” (11:30 – 12:00) Prof. Dr. Konstantinos ARAVOSSIS National Technical University of Athens (Greece) – UNESCO Chair for Circular Economy and Innovation - Secretary General for Forestry Greek Ministry of Environment and Energy “Forest Policy, the Spearhead in dealing with the Climate Crisis” (12:00 – 12:30) Prof. Dr. Nicola PALTRINIERI Norwegian University of Science and Technology (Norway) “SUSHy Project: Sustainability Development and Cost-Reduction of Hybrid Renewable Energies Powered Hydrogen Stations by Risk-Based Multidisciplinary Approaches” (12:30 – 13:00) Dr. Najib ALTAWELL

OCTOBER 13, 2022, THURSDAY			Convery University (UK) “Causes of Climate Change and Global Warming & Urgent Solutions Required to Minimise the Impacts”
	13:00-14:00	Lunch (University Restaurant)	
	14:00-15:35 Session 1	HALL 1071 (Online) Water Quality	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3ahW-rnXHKawt6vTrDDsglG8OGHrrdJ5gLAv58iS45KXw1%40thread.tacv2/1665555830007?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Invited Speaker (14:00 – 14:20) Prof. Dr. Meltem SARIOĞLU CEBEÇİ Sivas Cumhuriyet University (Türkiye) Title: The Reusability of Rainwater and Gray Water within the Scope of Sustainable Water Management Chairperson: Prof. Dr. Selma Yaşar Korkanç (14:20-14:35) A104 - ASSESSMENT OF THE QUALITY OF GROUNDWATER RESOURCES IN THE TARKWA NSUAEM MUNICIPALITY, WESTERN REGION, GHANA: A REVIEW <i>Daniel Senne, Belinda Bentum, Fosu Yaw, Solomon Agyire, Joshua Nkansah, Gloria Baidoo</i> (14:35-14:50) A121- A COMPARATIVE ASSESSMENT OF THE NOVEL WATER POLLUTION INDEX AND THE WATER QUALITY INDEX USING EMPIRICAL DATA: IMPROVING WATER QUALITY EVALUATION <i>Ebenezer Ebo Yahans Amuah, Prosper Kpiebaya, Raymond Webrah Kazapoe, Benjamin Wullobayi Dekongmen</i> (14:50-15:05) A131- EVALUATION OF CHEMICAL INDICATORS OF ARAZ RIVER WATER QUALITY <i>Sevinj Hajiyeve, Nazim Shamilov, Tarana Aliyeva, Madina Nabiyeve</i> (15:05-15:20) A116 - COMPARATIVE ANALYSIS OF CLASSIFICATION ALGORITHMS IN ARCGIS AND QGIS: AN EMERGING EVIDENCE IN GROUNDWATER POTENTIAL ASSESSMENT <i>Prosper Kpiebaya, Kwartema Osei Mensah, Ebenezer Ebo Yahans Amuah, Abdul-Ganiyu Shaibu, Bernard N. Baatuwie, Vincent K. Avornyo, Benjamin Wullobayi Dekongmen, Precious Kwaku Blege, David Sogfaa</i> (15:20-15:35) A118 - FLOODS AND DROUGHTS IN EASTERN MEDITERRANEAN <i>Anastasia Katsoulela, Antigoni Zafeirakou</i>

OCTOBER 13, 2022, THURSDAY	14:00-15:35 Session 2	HALL 1299 (Online) Sustainability	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3a7WHUBIFx3k8VZ7-enn2RN_ROYdZSKgcWrF2W7OpVEuA1%40thread.tacv2/1665555490307?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Invited Speaker (14:00 – 14:20) Prof. Dr. Subramanian Ravichandran Lovely Professional University (India) Title: Environmental Sustainability through Green Chemistry Chairperson: Prof. Dr. Ravichandran (14:20-14:35) A130 - SUSTAINABILITY APPROACH IN TOURISM INDUSTRY (IN TURKISH) <i>Erhan Ergin, Ayşe Topal</i> (14:35-14:50) A132 - OPERATING PROBLEMS AND SOLUTIONS IN SMALL SCALE WASTEWATER TREATMENT FACILITIES: THE CASE OF KAYSERİ <i>Ali Kemal Ergül, Fehiman Çiner</i> (14:50-15:05) A151 - ASSESSMENT OF GEOCHEMICAL CONTROLS ON GROUNDWATER QUALITY IN THE BAWKU WEST DISTRICT, GHANA: IMPLICATIONS FOR DRINKING AND IRRIGATION PURPOSES <i>Sulleyman Kwaw Haruna, Emmanuel Daanoba Sunkari, Jamel Seidu, Enoch Ofori</i> (15:05-15:20) A103 - TRANSPORT TRENDS AND POLLUTION FACTORS IN POULTRY PRODUCTION <i>Ali Murad Khan, Mesut Selamoglu</i> (15:20-15:35) A169 - THE LIFE CYCLE ASSESSMENT FOR THE ENVIRONMENTAL AND ECONOMIC IMPACT OF WASHING MACHINE PROGRAMS AND SELECTION BEST PROGRAM WITH MOORA <i>Fatma Şener Fidan, Emel Kızılkaya Aydoğan, Niğmet Uzal</i>
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OCTOBER 13, 2022, THURSDAY

14:00-15:35

Session 3

**HALL 1992
(Online)**

**Monitoring
and analysis of
environmental
contaminant**

SESSION LINK

https://teams.microsoft.com/l/meetup-join/19%3aHZMMZrHaAvmNg3Qlmy_OPIJ9Uehdn-YzfmFsAtq4SZk1%40thread.tacv2/1665555740948?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d

Chairperson: Assoc. Prof. Dr. Sunpreet Kaur Sahni

(14:00-14:15) A109 - MOLECULAR ASSESSMENT OF AIR POLLUTION IMPACT ON GENOMORPHIC CHARACTERISTICS OF MIMUSOPS ELENGI L. PLANTED ALONG THE ROAD SIDE OF LAHORE, PAKISTAN

Ali Hasnain, Muhammad Umar Farooq Awan, Harma, Ayesha Iqbal, Khadija Bari, Muhammad Usama Aziz, Arooba John, Binyameen, Maryam Iqbal, Muhammad Naveed Anjum, Rida Hayat, Zahid Mehmood, Mubashara Inam, Maham Batool, Warda Fatima

(14:15-14:30) A134 - IMPACT OF NOISE ON PHYSICAL AND MENTAL HEALTH DURING LOCKDOWN: A CONCEPTUAL ANALYSIS

Sunpreet Kaur Sahni

(14:30-14:45) A136 - MAJOR DETERMINANTS OF NOISE POLLUTION: AN ANALYSIS OF ITS IMPACT ON EMPLOYEE PRODUCTIVITY AT SHARED WORKSPACES

Sunpreet Kaur Sahni, Amrit Kaur

(14:45-15:00) A142 - ENVIROMENTAL EFFECT OF SOME INSECTICIDES TO AGAINST WEEVILS ON SUNFLOWER IN THE SOUTH-EAST OF KAZAKHSTAN

A.S. Zhunussova, M.K. Alimkulova, M.K. Kanatova

(15:00-15:15) A150 - OCCURRENCE, CONTROLLING FACTORS AND HEALTH HAZARDS OF NITRATE-ENRICHED GROUNDWATER IN SOME BIRIMIAN AQUIFERS IN THE UPPER WEST REGION, GHANA

Samuel Yamoah Nyamekye, Emmanuel Daanoba Sunkari, Musah Saeed Zango

(15:15-15:30) A163 - HYDROCHEMICAL ASSESSMENT OF NITRATE CONTAMINATION IN GROUNDWATER OF THE MALUWE BASIN, SAVANNAH REGION, GHANA: IMPLICATIONS FOR HUMAN HEALTH RISK ASSESSMENT

Okai Caleb Okaitei, Emmanuel Daanoba Sunkari, Musah Saeed Zango

OCTOBER 13, 2022, THURSDAY

15:35- 15:45		Coffee Break	
15:45-17:20 Session 4	HALL 1071 (Online) Bioengineering and biotechnology	SESSION LINK https://teams.microsoft.com/l/meetup-join/19%3ahW-rnXHKawt6vTrDDsglG8OGHrrdJ5gLAv58iS45KXw1%40thread.tacv2/1665555830007?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Invited Speaker (15:45 – 16:05) Dr. Khatereh Khorsandi The George Washington University (USA) - ACECR Tehran University Title: Advances in Light-Responsive Drugs for Therapy Chairperson: Prof. Dr. Zeliha SELAMOĞLU (16:05-16:20) A105 - EPILITHIC DIATOMS OF TAHAR STREAM, TUNCELI-TÜRKİYE Rzgar Farooq Rashid, Metin Caglar, Zeliha Selamoglu (16:20-16:35) A114 - PREVENTIVE MEDICINE PRACTICES AND SUSTAINABILITY IN PRIMARY PREVENTION OF DISEASES Betul Ozdemir, Zeliha Selamoglu (16:35-16:50) A125 - EFFECTS OF PRENATAL METHAMPHETAMINE EXPOSURE ON SPATIAL COGNITION AND HIPPOCAMPAL SYNAPTIC PLASTICITY IN ADOLESCENT RATS Razieh Aghazadeh, Shiva Roshan-Milani, Leila Drafshpour, Samaneh Ahmadian-Moghaddam, Ehsan Saboory (16:50-17:05) A126 - ADVERSE EFFECTS OF PROPRANOLOL UPON RODENT MODEL Javaria Shaheen, Ammara Riaz (17:05-17:20) A133 - AN APPROACH TO EVALUATING FOOD SAFETY IN TERMS OF TOXIC ELEMENTS IN MEDICINAL PLANTS IN THE WORLD AND EXAMINING DIFFERENT ASSESSMENT METHODS Ebrahim Alinia-Ahandani, Zahra Alizadeh-Terepoei, Zeliha Selamoglu	
15:45-17:20 Session 5	HALL 1299 (Online) Technological applications	SESSION LINK https://teams.microsoft.com/l/meetup-join/19%3a7WHUBIFx3k8VZ7-enn2RN_ROYdZSKgcWrF2W7OpVEuA1%40thread.tacv2/1665555490307?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Invited Speaker (15:45 – 16:05) Mateusz Góra Cracow University of Technology, Poland – CEO of ATMAT Title: Application of 3D Printing Technology for Green Building Materials	

			(16:05-16:20) A106 - STRUCTURAL, DIELECTRIC AND MAGNETIC OF STUDY OF YTTERBIUM SUBSTITUTED COBALT-ZINC SPINEL FERRITES Qaisar Khan, Maaz Khan, Gaffar Ali, Iftikhar Ahmad, Rashid Ahmad (16:20-16:35) A112 - THERMAL CONDUCTIVITY OF DUSTY PLASMAS UNDER INFLUENCE OF POLARIZATION Aamir Shahzad, Aadil Mahboob, Muhammad Kashif and Maogang HE (16:35-16:50) A113 - DIFFUSION COEFFICIENTS OF WATER IN SINGLE WALLED CARBON NANOTUBE Aamir Shahzad, Ama Tul Zahra, Muhammad Zubair, Adil Loya and Maogang HE (16:50-17:05) A115 - EFFECTS OF ELECTRIC FIELD ON STRUCTURAL BEHAVIOR OF COMPLEX PLASMAS USING MOLECULAR DYNAMICS SIMULATIONS Aamir Shahzad, Fazeelat Hanif, Muhammad Asif Shakoori and Maogang HE (17:05-17:20) A124 - MIXED OXIDES NANOPARTICLES PREPARED FROM HYDROTALCITE LIKE MATERIALS FOR HYDROGEN PRODUCTION VIA NATURAL GAS VALORIZATION Z. Abdelsadek, M. Boudiaf, O. Cherifi, Gonzalez-Cortes, Ouiza Cherifi, Djamila Halliche, Patrick J. Masset
OCTOBER 13, 2022, THURSDAY	15:45-18:00 Session 6	HALL 1923 (Face-to-Face) Technological applications & Advances in biological, physical and chemical processes	SESSION LINK https://teams.microsoft.com/l/meetup-join/19%3a16mKSea2zIAAZHxbzT8W3YQh9vJfVTx6gEBQxmclmSk1%40thread.tacv2/1665554817184?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Chairperson: Assoc. Prof. Dr. Tanzer Satır (15:45-16:00) A171 - EVALUATION OF BIOGAS PLANT OUTPUTS AS BIOFERTILIZER FOR SUSTAINABLE AGRICULTURE Sevgi Demirel, Öznur Begüm Gökçek, Hamdi Muratçobanoğlu (IN TURKISH) (16:00-16:15) A172 - BIOHYDROGEN PRODUCTION VIA MICROBIAL ELECTROLYSIS CELL: ELECTRODE AND SUBSTRATE TYPE Fatma Muratçobanoğlu, Merve Oğuz, Sevgi Demirel (IN TURKISH) (16:15-16:30) A184 - ANAEROBIC CO-DIGESTION OF ORGANIC WASTES: EXAMPLE OF FOOD WASTE, MANURE AND SLUDGE Meltem Sarioğlu Cebeci, Turgay Bişgin (16:30-16:45) A101 - ALTERNATIVE ENERGY SOURCES FOR CARGO PORTS: TURKISH PORTS PERSPECTIVE Tanzer Satır, Neslihan Doğan-Sağlamtimur, Natalia Borisovna Tiron-Vorobiova (16:45-17:00) A152 - MICROTUBULAR SOLID OXIDE FUEL CELLS WITH MIXED CONDUCTOR INFILTRATED ELECTRODES Cigdem Timurkutluk (17:00-17:15) A153 - DEVELOPMENT OF NICKEL INFILTRATED ANODE ELECTRODES FOR SOLID OXIDE FUEL CELLS Fuat Yıldırım, Bora Timurkutluk (IN TURKISH) (17:15-17:30) A170 - DETERMINING THE EFFECT OF LAKE SUĞLA ON REGIONAL CLIMATE BY TREND ANALYSIS (IN TURKISH) Hasan Çağatay Çiftçi, Kutalmış Gümüş

			(17:30-17:45) A123 - REVIEW OF RENEWABLE ENERGY OPTIONS SELECTION IN THE PHILIPPINES THROUGH MULTI-CRITERIA DECISION MAKING <i>Art Marvin Arañas, Ayşe Topal</i> (17:45-18:00) A192 - ZERO WASTE APPROACH OF VOCATIONAL SCHOOL STUDENTS: CASE STUDY OF POLYMER TECHNOLOGIES <i>Aysun Ekinci</i>
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	19:30	Welcome Reception	Şehit Ömer Halisdemir Congress and Culture Center
		Concert	Flute: Mehmet Ali MAMUK Guitar: Rıfki Çağatay YANIKOĞLU

	HOUR	SESSIONS (DAY-2)	Friday (14 October 2022) ORAL PRESENTATIONS
OCTOBER 14, 2022, FRIDAY	09:00-11:00	HALL 1923 (Online & Face-to-Face)	SESSION LINK https://teams.microsoft.com/l/meetup-join/19%3a6mKSea2zIAAZHxbzT8W3YQh9vJfVTx6gEBQxmclmSk1%40thread.tacv2/1665557744647?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Keynote Speakers (09:00-09:30) Prof. Dr. Yusuf SERENGIL Istanbul University-Cerrahpaşa (Türkiye) “An Analysis of GHG Mitigation Options in the Land Use Sector of Türkiye” (09:30-10:00) Prof. Dr. Magdalena SZECHYNSKA-HEBDA The Plant Breeding and Acclimatization Institute-National Research Institute (Poland) “Let's Print an Ecology in 3D” (10:00-10:30) Prof. Dr. Sülün Evinc TORLAK Alanya HEP University (Türkiye) “The Role of Local Governments in Life Long Learning within the Framework of the UNESCO Global Network of Learning Cities” (10:30-11:00) Prof. Dr. Hüseyin SELÇUK Istanbul University-Cerrahpaşa (Türkiye) “Reducing the Carbon Footprint of the Textile Industry via Recycling and Reuse”
	11:00- 11:15	Coffee Break	
	11:15-12:30 Session 7	HALL 1071 (Online) Environmental Assesment	SESSION LINK https://teams.microsoft.com/l/meetup-join/19%3ahW-rnXHKawt6vTrDDsglG8OGHrrdJ5gLAv58iS45KXw1%40thread.tacv2/1665557846224?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Chairperson: Asst. Prof. Dr. Kinga Korniejeko

			(11:15-11:30) A167 - EXTENDED PRODUCER RESPONSIBILITY IN THE FRAMEWORK OF THE CIRCULAR ECONOMY ACTION PLAN <i>Halime Sezer, Özgecan Madenli, Ece Ümmü Deveci</i> (11:30-11:45) A102 - THE ENVIRONMENTAL EFFECT ON THE AQUATIC ECOSYSTEMS OF THE PORT <i>Ali Murad Khan, Mesut Selamoglu</i> (11:45-12:00) A117 - AN OVERVIEW OF SOLUTIONS AGAINST WATER EUTROPHICATION <i>Kinga Korniejenko, Beata Figiela, Piotr Dynowski, Thomas Grab</i> (12:00-12:15) A186 - AIR POLLUTION RESEARCH: COMPARISON OF PM10 AND SO₂ CONCENTRATIONS OF NIĞDE (TURKEY) WITH NORTHERN NEIGHBORING PROVINCES <i>Zinnur Yilmaz, Mustafa Bünyamin Karagözoğlu</i> (12:15-12:30) A110 - HEAVY METALS CHARACTERIZATION OF WASTES DUMP SOIL IN OKENE METROPOLIS, NORTH CENTRAL NIGERIA <i>Yomi B. Gideon, Ayuba, R., Felix B. Fatoye and Joseph I. Omada</i>
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OCTOBER 14, 2022, FRIDAY	11:00-12:30 Session 8	HALL 1299 (Online) Technological applications & Water quality	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3a7WHUBIFx3k8VZ7-enn2RN_ROYdZSKgcWrf2W70pVEuA1%40thread.tacv2/1665557996683?context=%7b%22id%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Chairperson: Assist. Prof. Dr. Burak Yüzer (11:15-11:30) A185 - EVALUATION OF ION-EXCHANGE RESIN PROCESS AS A PRETREATMENT METHOD FOR BIPOLAR MEMBRANE ELECTRODIALYSIS PROCESS <i>Burak Yüzer, Ragad F. Alshebli, Nadira Salsabila, Huseyin Selcuk, Yusuf Bicer</i> (11:30-11:45) A177 - AN INTERPRETABLE UNSUPERVISED MACHINE LEARNING APPROACH FOR CLASSIFYING HYDROTHERMAL SYSTEMS IN WESTERN ANATOLIA BASED ON HYDROGEOCHEMISTRY <i>Bemah Ibrahim, John Owusu Konduah, Isaac Ahenkorah, Albert Kafui Klu</i> (11:45-12:00) A148 - ASSESSMENT OF THE INFLUENCE OF BOREHOLE DRILL DEPTHS ON THE CONCENTRATION OF HYDROCHEMICAL PARAMETERS IN GROUNDWATER AT THE VEA CATCHMENT, GHANA, UPPER EAST REGION: A GUIDE TO WATER WELL DRILLERS <i>Richard Obeng, Emmanuel Daanoba Sunkari</i> (12:00-12:15) A149 - GEOCHEMICAL CHARACTERISATION AND ASSESSMENT OF THE SOURCES OF GROUNDWATER CONSTITUENTS IN THE GARU-TEMPANE DISTRICT, GHANA <i>Awura Adwoa Akyeama Ankomah, Emmanuel Daanoba Sunkari, Edmund Nana Asare, Enoch Ofosu</i> (12:15-12:30) A127 - ECO-CHEMICAL STUDY OF WATER AND BOTTOM SEDIMENT SAMPLES TAKEN FROM KHOJASAN LAKE <i>Islam Mustafayev, Sevinj Hajiyeva, Tarana Aliyeva</i>
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OCTOBER 14, 2022, FRIDAY	11:00-12:35 Session 9	HALL 1992 (Online) Advances in biological, physical and chemical processes	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3aHZMMZrHaAvmNg3Qlmy_OPIJ9Uehdn-YzfmFsAtq4SZk1%40thread.tacv2/1665558342496?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Invited Speaker (11:00-11:20) Rosa Marie ORRIOLS University of Barcelona, Spain Title: Promoting Sustainability and Social Well-Being through Excellence in Occupational Health -Challenges and Role of it in Sustainable Waste Management – Chairperson: Assoc. Prof. Dr. Ömür Gökkuş (11:20-11:35) A108 - GENOTOXIC AND PHYSIO-CHEMICAL DETERIORATION OF EICHHORNIA CRASSIPES (MART.) SOLM GROWING IN PAPER MILL EFFLUENTS <i>Harma, Muhammad Umer Farooq Awan, Ali Hasnain, Maryam Iqbal, Binyameen, Rida Hayat, Muhammad Naveed Anjum, Mubashara Inam, Maham Batool, Warda Fatima</i> (11:35-11:50) A119 - COMPARISON OF REMOVAL EFFICIENCY OF 5-CHLORO-1H-BENZOTRIAZOLE IN SBR WITH FLOCCULATED AND GRANULAR ACTIVATED SLUDGE <i>Joanna Struk-Sokolowska, Aleksandra Dobkowska, Urszula Kotowska</i> (11:50-12:05) A141 - DICLOFENAC REMOVAL BY ANODIC OXIDATION METHOD USING BORON DOPED DIAMOND ANODE (IN TURKISH) <i>Mahmut Soylu, Ömür Gökkuş, Amina Othmani</i> (12:05-12:20) A159 - ELECTROCHEMICAL REMOVAL OF FENOPROFEN FROM AQUEOUS SOLUTION (IN TURKISH) <i>Mahmut Soylu, Ömür Gökkuş, Amina Othmani</i> (12:20-12:35) A175 - THE USAGE OF BACILLUS SP. FOR REMOVAL OF POLYVINYL ALCOHOL (PVA) <i>Tuba Artan Onat, Abdulrahman Zeyno</i>
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	12:35- 13:30	LUNCH (University Restaurant)	
	13:30-15:05 Session 10	HALL 1071 (Online) Novel materials science & Construction technologies and management	SESSION LINK https://teams.microsoft.com/l/meetup-join/19%3ahW-rnXHKawt6vTrDDsglG8OGHrrdJ5gLAv58iS45KXw1%40thread.tacv2/1665557846224?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Invited Speaker Safa'a RIAD MSA University, Egypt (13:30-13:50) Title: Energy Saving and Eco-Friendly UPLC Method for Determination and Validation of Doxycycline Hyclate and Ambroxol Hydrochloride in Presence of Ambroxol Hydrochloride Impurity Chairperson: Prof. Dr. Marek Hebda (13:50-14:05) A156 - MODIFICATION OF POLYVINYL ALCOHOL FOR BIODEGRADABLE PLASTIC BAGS <i>Asylzat Iskalieva, Yerzhanov Yerbolat, Negim Attia El-Sayed, M.N. Mohamad Ibrahim</i> (14:05-14:20) A129 - ECO-FRIENDLY MATERIALS: GEOPOLYMERS BASED ON FLY ASH FROM DIFFERENT COMBUSTION PROCESSES <i>Kinga Plawecka, Kinga Korniejenko, Michal Łach</i> (14:20-14:35) A181 - IMBALANCE AS INDISPENSABLE CONDITION OF MELT FORMATION <i>Reihaniyyih Ismulla kzy Kassimova, Roland Nikolaevich Sobolev</i> (14:35-14:50) A140 - PROPERTIES OF WASTE GLASS-REINFORCED GEOPOLYMER COMPOSITES <i>Celina Ziejewska, Agnieszka Grela, Marek Hebda</i> (14:50-15:05) A143 - THE EFFECT OF TALK ADDITION ON THE MECHANICAL PROPERTIES OF THE POLYMER MATRIX <i>Uliana Pidkovynska, Vera Savchenko</i>
	13:30-15:05 Session 11	HALL 1299 (Online) Advances in biological, physical and chemical processes	SESSION LINK https://teams.microsoft.com/l/meetup-join/19%3a7WHUBIFx3k8VZ7-enn2RN_ROYdZSKgcWrF2W70pVEuA1%40thread.tacv2/1665557996683?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Invited Speaker Farooq ANWAR University of Sargodha, Pakistan (13:30-13:50) Title: Green Extraction and Systematical Characterization of Selected Plant Bioactives Chairperson: Prof. Dr. Yağmur Uysal

OCTOBER 14, 2022, FRIDAY

13:30-15:05
Session 12

HALL 1992
(Online)

Biodiversity &
Bioengineering
and
biotechnology

- (13:50-14:05) **A137 - FOUR TRITERPENE GLYCOSIDES ISOLATED FROM HEDERA HELIX L. GROWING IN AZERBAIJAN**
Akberova Saida, Iskenderov Gaibverdi
- (14:05-14:20) **A111 - BIOSORPTION EFFICIENCY OF KENAF FIBRES AND MORINGA SEEDS COMBINATIONS IN TURBID WATER TREATMENT**
Grace O. Oluwasanya, Enovwo E. Odjegba, Adebayo Y. Sadiq, Abayomi O. Bankole and Olufiropo S. Awokola
- (14:20-14:35) **A195 - INDUSTRIAL SYMBIOSIS CONCEPT AND APPLICATIONS FROM TÜRKİYE AND DENMARK**
Kemal Ulusoy, Neslihan Doğan-Sağlamtimur, Fehiman Çiner, Andrzej Sternik, Paulina Magdalena Sekula
- (14:35-14:50) **A155 - SYNTHESIS, SWELLING PROPERTIES AND EFFECTS ON SEED GERMINATION PROCESS OF OLIVE STONE BIOCHAR-BASED PVA/SA HYDROGEL**
Zeynep Görkem Doğaroğlu, Yağmur Uysal
- (14:50-15:05) **A128 - FUTURE TECHNOLOGIES: MATERIALS IMITATING LUNAR REGOLITH**
Barbara Kozub, Kinga Plawecka, Kinga Korniejenko

SESSION LINK

https://teams.microsoft.com/l/meetup-join/19%3aHZMMZrHaAvmNg3Qlmy_OPIJ9Uehdn-YzfmFsAtq4SZk1%40thread.tacv2/1665558342496?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d

Invited Speaker

(13:30-13:50) **Muhammad Mustaqeem**
University of Sargodha, Pakistan

Title: Effect of Surfactants over the Solubility of Non-Steroidal Anti-Inflammatory Drugs

Chairperson: Dr. Rzgar Farooq Rashid

(13:50-14:05) **A158 - PHYTOBIOTICS AS AN ALTERNATIVE TO ANTIBIOTICS IN POULTRY PRODUCTION AND THEIR EFFECT ON GUT HEALTH**

Muhammad Umair Asghar, Mariusz Korczyński, Martyna Wilk, Sibel Canoğulları Doğan, Sema Yaman

(14:05-14:20) **A166 - A NEW APPROACH ON THE CONNECTIONS THAT MIGHT EXIST BETWEEN THE ENVIRONMENTAL NEUROTOXICITY AND MOST OF THE NEUROPSYCHIATRIC DISORDERS**

Gabriela Savastre, Alin Ciobica, Gabriel-Ionut Plavan

(14:20-14:35) **A168 - BIODIVERSITY AND GUILD STRUCTURE OF SPIDERS (ARANAE: ARACHNIDA) IN THE SUGARCANE FIELDS**

Samina Malik, Tahira Jabeen

(14:35-14:50) **A190 - AN EVALUATION OF THE BIOLOGICAL ACTIVITIES OF ROSA CANINA L.**

Falah Saleh Mohammed, Imran Uysal, Zeliha Selamoğlu, Mustafa Sevindik

(14:50-15:05) **A191 - BIOLOGICAL ACTIVITIES OF LEMNA SPECIES**

Falah Saleh Mohammed, Imran Uysal, Zeliha Selamoğlu, Mustafa Sevindik

	15:05 – 15:20	Coffee Break	
OCTOBER 14, 2022, FRIDAY	15:20-17:05 Session 13	HALL 1299 (Online) Future Technologies & Technological applications	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3a7WHUBIFx3k8VZ7-enn2RN_ROYdZSKgcWrF2W70pVEuA1%40thread.tacv2/1665557996683?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Chairperson: Prof. Dr. Bora Timurkutluk (15:20-15:35) A146 - PHASE BALANCE IN YTTRIA-STABILIZED ZIRCONIA DEPENDING ON THE CONTENT OF THE STABILIZING ADDITIVE AND SINTERING TEMPERATURE <i>Valentyna Vavrukh, Marek Hebda, Pavlo Lyutyy</i> (15:35-15:50) A164 - ADDITIVE MANUFACTURING IN THE CONSTRUCTION INDUSTRY - DEVELOPMENT OF AN ENVIRONMENTALLY FRIENDLY MIXTURE DEDICATED TO 3D PRINTING <i>Magdalena Rudziewicz</i> (15:50-16:05) A176 - INVESTIGATION OF LOCALIZED DEFORMATION AND DISLOCATION STRENGTHENING MECHANISM OF THE VT8 ALLOY AFTER CRACK RESISTANCE TESTING <i>Filimonov Oleksii, Marek Hebda, Valentyna Vavrukh</i> (16:05-16:20) A183 - ENVIRONMENTAL EFFECTS ON THE BASIS OF ENERGY SOURCES DURING CHARGING OF ELECTRIC VEHICLES (IN TURKISH) <i>Ahmet Gökalp Girayhan, Gamze Yücel Işıldar</i> (16:20-16:35) A196 - APPLYING CORONA DISCHARGE AS A PRETREATMENT METHOD TO SPIRULINA PLATENSIS MICROALGAE STRAIN AND INVESTIGATION OF IMPACT ON BIOGAS PRODUCTION POTENTIAL <i>Djaafri Mohammed, M. Rasit Atelge, Mustafa Kaya, A.E. Atabanı, Sebahattin Unalan</i> (16:35-16:50) A200 - SOURCE ROCK CHARACTERISTICS OF CHIA GARA, NAOKELEKAN, AND SARGELU FORMATIONS AT AJEEL OIL FIELD (TIKRIT, IRAQ) <i>Ali Müjdat Özkan, Abbas Falah Gharib</i> (16:50-17:05) A201 - INVESTIGATION OF CO-SEDIMENTATION IN THE FORENSIC-CHEMICAL ANALYSIS <i>Kamala Badalova, Gaibverdi Iskandarov</i>
	15:20-17:05 Session 14	HALL 1992 (Online) Technological applications	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3aHZMMZrHaAvmNg3Qlmy_OPIJ9Uehdn-YzfmFsAtq4SZk1%40thread.tacv2/1665558342496?context=%7b%22Tid%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22Oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Chairperson: Prof. Dr. Nüket Sivri (15:20-15:35) A107 - EVALUATION OF MAJOR SUBGRADE SOIL PROPERTIES AFFECTING PAVEMENT STABILITY USING A

			COMBINATION OF CORRELATION AND MULTIVARIATE STATISTICS IN NORTH-CENTRAL NIGERIA <i>Moroof Oloruntola, Daniel Obasaju, Sunday Oladele, Victor Ojekunle, Olateju Bayewu, Christopher Baiyegunhi, Ganiyu Mosuro</i> (15:35-15:50) A135 - ABATEMENT OF AZO DYE, ACID BLACK 234 BY COAL BASED ACTIVATED CARBON FROM THE WASTEWATER OF LEATHER INDUSTRY IN PAKISTAN <i>Saeed Ullah Jan, Saad Melhi, Nadia, Anam Nisar, Sohail Khan, Sana Faryal, Nabeela, Tahira</i> (15:50-16:05) A145 - A COMPREHENSIVE BIBLIOMETRIC OVERVIEW OF THE TOXICITY OF TEXTILE DYES <i>Büşra Salman, V. Zülal Sönmez, Ceyhun Akarsu, Nüket Sivri</i> (16:05-16:20) A160 - DEVELOPMENT OF A LOW--COST HOUSEHOLD DEFLUORIDATION UNIT USING THERMALLY-ACTIVATED COW BONE: A CASE STUDY AT NORTH EAST REGION, GHANA <i>Charles Mensah, Emmanuel Daanoba Sunkari</i> (16:20-16:35) A138 - 3D PRINTING OF ALUMINUM POWDER BY BINDER JETTING TECHNOLOGY <i>Joanna Marczyk, Marek Hebda</i>
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OCTOBER 14, 2022, FRIDAY	15:20-17:20 Session 15	HALL 1923 (Face-to-Face) Technological applications	<u>SESSION LINK</u> https://teams.microsoft.com/l/meetup-join/19%3a16mkSea2zlAAZHxbzT8W3YQh9vJfVTx6gEBQxmcLmSk1%40tthead.tacv2/1665557744647?context=%7b%22id%22%3a%22da8fc107-2de1-436a-a756-dd42714c58a9%22%2c%22oid%22%3a%2254f76543-e587-44d0-bda6-fb3638825875%22%7d Chairperson: Prof. Dr. Mustafa Korkanç (15:20-15:35) A157 - THE EFFECT OF FA AND GGBFS ON THE FRESH AND RHEOLOGICAL CHARACTERISTICS OF ENGINEERED GEOPOLYMER COMPOSITES (IN TURKISH) <i>Hatice Öznur Öz, Muhammet Güneş</i> (15:35-15:50) A154 - OBTAINING SOIL-IMPROVING COMPOST FROM FOOD PREPARATION WASTES AND PRUNING WASTES: CHARACTERIZATION AND EVALUATION OF ITS EFFECTS ON PLANT GROWTH <i>Yağmur Uysal, Zeynep Görkem Doğaroğlu</i> (15:50-16:05) A147 - THE EFFECTS OF DIFFERENT MULCH MATERIAL APPLICATIONS ON SOME HYDROLOGICAL PARAMETERS IN LABORATORY CONDITIONS (IN TURKISH) <i>Selma Yaşar Korkanç, Halil Şahin</i> (16:05-16:20) A174 - INVESTIGATION OF THE MECHANICAL PROPERTIES OF CEMENT BASED GROUTS INCORPORATED WITH DIFFERENT TYPES OF FLY ASH IN JET-GROUTING PROCESS <i>Fatih Çelik, Çağrı Atasever</i> (16:20-16:35) A144 - THE EFFECT OF MICROCLIMATE ON THE DETERIORATION OF FACING STONES: THE CASE OF NİĞDE ÖMER HALİSDEMİR UNIVERSITY MAIN CAMPUS (IN TURKISH) <i>Mustafa Korkanç</i> (16:35-16:50) A187 - METAL RECOVERY FROM OXIDIZED ORE TAILINGS WITH ORGANIC ACID (IN TURKISH) <i>Emine Yoğurtcuoğlu</i>
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			(16:50-17:05) A178 - USAGE OF ZINC WASTE IN PRODUCTION OF GEOPOLYMER CONCRETE (IN TURKISH) <i>Ahmet Bilgil, Hamdi Can Özmen</i> (17:05-17:20) A194 - THE EMPHASIS OF ENVIRONMENT IN NEW MEDIA MANAGEMENT (IN TURKISH) <i>A. Cemal Saygın, Mutlu Başaru</i>
	17:30 - 18:00	Closing Ceremony	
	20:00	Gala Dinner	
		Concert Tar: Instructor Alpay ÜNSAL	

OCTOBER 15, 2022, SATURDAY	HOUR		DAY 3 -Saturday (15 October 2022)
	09:30-20:00	Travel	Gumusler Monastery, Roman Pool, Tyana Aqueducts, Castle of Nigde, Alaaddin Mosque, Emli Valley

POSTER PRESENTATIONS

A161 - ENVIRONMENTAL IMPACTS OF A DESALINATION PLANT

Aylin Bayram, Nilay Elginöz, Fatos Germirli Babuna

ATTENTION: Posters (70x100 cm in size) could remain suspended throughout the conference.

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