

## Conference Program

### 28 August 2025

13.30-...	Conference Registration
14.45-15.00	Opening Ceremony
15.00-15.20	Keynote Speech 1: <b>"Increasing Innovation Capacity at Óbuda University - Tasks and Early Results"</b> <b>Dr. Peter Galambos</b> - Obuda University, Hungary
15.20-15.40	Keynote Speech 2: <b>"Applications of Artificial Intelligence in Different Disciplines"</b> <b>Dr. Mehmet Ozaslan</b> - Gaziantep University, Türkiye
15.40-16.00	Keynote Speech 3: <b>"An Innovative Global Perspective: The PV Model in the Age of AI"</b> <b>Dr. Maria Susy Rogers</b> - University of South Wales, U.K.
16.00-16.30	Coffee break
16.30-17.30	Poster Presentation

### 29 August 2025

10.00-12.00	Session - Presentation
12.00-14.00	Lunch
14.00-15.30	Session - Presentation
15.30-16.00	Break
16.00-17.30	Session - Presentation
17.30-18.00	Session - Presentation

### 30 August 202

10.00-12.00	Session - Presentation
12.30-13.30	Lunch
13.30	Budapest Walking Tour
14.00-15.30	Session - Presentation

15.30-16.00	Break
16.00-17.30	Session - Presentation
17.30-18.30	Session - Presentation

31 August 202

08.00-08.30	Closing Ceromony
08.30	Esztergom Tour

MEETING ROOM

SESSION	August 28, 2025 - Thursday 16.30-17.30
CHAIRS	Oszkár Dobos, Biljana Chitkusheva Dimitrovska
ICBAST090	STUDY OF SECONDARY METABOLITES IN ENDEMIC PLANT RAW MATERIALS AND PROCESSING RESIDUES OF GEORGIA USING UPLC-PDA-MS METHODS <i>Eteri Margalitadze, Iamze Kezheradze, Indira Japaridze, Maia Vanidze, Aleko Kalandia</i>
ICBAST089	FAILURE FACTORS IN ARTIFICIAL INTELLIGENCE DEVELOPMENT AND INTEGRATION PROJECTS: A SYSTEMATIC LITERATURE REVIEW A SOCIO-TECHNICAL PERSPECTIVE BARRIERS <i>Oszkár Dobos</i>
ICBAST071	INFLUENCE OF ALUMINIUM ON THE CORROSION OF THE SINTERED NICKEL <i>Halem Zohra, Halem Nacer, Abrudeanu Mariora, Petot-Ervas Georgette</i>
ICBAST047	SCADA MONITORING ON RADIO RELAYED STATION AT HYDRO MELIORATION SYSTEM SUPPORTED IN IOT NETWORK <i>Goce Stefano, Biljana Chitkusheva Dimitrovska, Vlatko Cingoski, Maja Kukusheva Paneva</i>
ICBAST021	DEVELOPMENT OF A NEW XANTHENE–TRIPHENYLAMINE–INDANDIONE CONJUGATED FLUORESCENT COMPOUND AND ITS DETAILED CHARACTERIZATION <i>Sait Malkondu, Serkan Erdemir, Mehmet Oğuz</i>
ICBAST036	EVALUATION OF ANTIOXIDANT ACTIVITIES AND DETERMINATION OF THE ACUTE TOXICITY OF AQUEOUS EXTRACT OF PISTACIA LENTISCUS L <i>Benzidane Nadia</i>
ICBAST08	INFLUENCE OF CALCIUM ON THE THERMAL OXIDATION OF CA-DOPED COO AND OF CAO-COATED COBALT <i>Nacer Halem, Zohra Halem</i>
ICBAST044	REMOTELY READ AND TRANSFER ENERGY METER PARAMETERS IN AN RF AND IOT NETWORK <i>Biljana Chitkusheva Dimitrovska, Goce Stefanov, Vlatko Chngoski, Todor Cekerovski</i>

**MEETING ROOM**

<b>SESSION</b>	<b>August 29, 2025 - Friday 10.00-12.00</b>
<b>CHAIRS</b>	Erol Pehlivan, Hayati Akman
ICBAST038	TAGUCHI APPLICATION TO CUTTING BEHAVIOR OF STAINLESS STEELS <i>Yusuf Sahin, Ahmet Saygin Ogunmus</i>
ICBAST050	SYNTHESIS, CHARACTERIZATION AND SELECTIVE FLUORIMETRIC DETECTION OF AL <sup>3+</sup> BY A SCHIFF BASE DERIVED FROM 5-CHLORO-8-HYDROXYQUINOLINE <i>Önder Alici, Maghan I Camara</i>
ICBAST076	EPICHLOROHYDRIN-CROSSLINKED NANO-TIO <sub>2</sub> /PLUM KERNEL SHELL/CHITOSAN HYDROGEL BEADS FOR THE EFFICIENT REMOVAL OF HEXAVALENT CHROMIUM FROM AQUEOUS SOLUTIONS <i>Şerife Parlayıcı, Erol Pehlivan</i>
ICBAST075	THE SYNTHESIS OF MICROWAVE ASSISTED MELAMINE-SCHIFF BASES AND INVESTIGATION OF BRIDGED FE(III) METAL COMPLEXES <i>Ziya Erdem Koç</i>
ICBAST072	SYNTHESIS OF FLUORESCENT CALIX[4]ARENE DERIVATIVES FOR THE DETECTION OF HG(II) / CR(VI), AND INVESTIGATION OF THEIR ANTIMICROBIAL PROPERTIES <i>Mustafa Yilmaz, Ayse Yildirim, Ahmet Uysal</i>
ICBAST05	STRENGTHENING HERITAGE: A REVIEW OF SUSTAINABLE CONSERVATION WITH ALKER AND SHOTCRETE IN TURKEY AND CYPRUS <i>Ayşe Pekrioglu Balkis, Aya Ahmad, Abdullah Ekinici</i>
ICBAST077	COLOR WHEATS FOR FUNCTIONAL FOOD CANDIDATES WITH ENHANCED NUTRITION <i>Hayati Akman</i>
ICBAST052	ENHANCING ENERGY EFFICIENCY AND MITIGATING RISKS IN HYDROPOWER PLANTS USING DRONE AND AI TECHNOLOGIES: A CASE STUDY IN ERZURUM AND ERZINCAN, TURKEY <i>Öykü Alkan</i>

**MEETING ROOM**

<b>SESSION</b>	<b>August 29, 2025 - Friday 14.00-15.30</b>
<b>CHAIRS</b>	Nora Mamulaishvili, Lali Kalandadze
ICBAST018	FABRICATION AND CHARACTERIZATION OF FEMNCO/NANOFIBER FOR RADAR ABSORBING MATERIAL BY ELECTROSPINNING <i>Kadir Asrın Sarı, Ümit Erdem, Uğur Sarı</i>

ICBAST085	QUANTITATIVE REDUCTION OF LIGHT OIL LOSSES USING POLYMERIC MATERIALS <i>Nora Mamulaishvili, Otar Janelidze</i>
ICBAST088	AUTOMATED PREDICTION OF SUDOKU PUZZLE DIFFICULTY USING CONVOLUTIONAL NEURAL NETWORKS <i>Majlinda Axhiu</i>
ICBAST040	THE ROLE OF BIG DATA ANALYTICS IN REINFORCING THE BUSINESS SUSTAINABILITY OF ENTERPRISES <i>Mohamed Hamada, Gehad Hamada</i>
ICBAST014	RELIABILITY ANALYSIS OF A GRAVITY ADDUCTION OF WATER SUPPLY SYSTEM: A CASE STUDY <i>Karima Bouzelha, Hocine Hammoum, Melissa Rezki, Hafidh Belabes</i>
ICBAST034	INVESTIGATION OF RED BLOOD CELL MICROCIRCULATION USING THE DLVO THEORY <i>Lali Kalandadze, Nugzar Gomidze, Mirian Kontselidze</i>
ICBAST013	REINFORCEMENT ANALYSIS OF A WATER TANK WALL BY EXTERNAL PRESTRESSING <i>Hammoum Hocine, Karima Bouzelha, Amar Aliche</i>

MEETING ROOM

SESSION	August 29, 2025 - Friday 16.00-17.30
CHAIRS	Hasan Öktem, Ayşe Aypay
ICBAST09	INVESTIGATION OF BURR HEIGHT FOR SHEET METAL PROCESS OF MEDIUM DUTY CASTERS IN INDUSTRIAL KITCHENS <i>Hasan Öktem, İlyas Uygur, Halit Karasungur</i>
ICBAST080	TRANSFORMING THE CUSTOMER EXPERIENCE IN SUPER-APPS: AN ANALYSIS OF AGENTIC AI POTENTIAL THROUGH THE PASSO CASE STUDY <i>Mehmet Kutanoğlu, Erkut Baloğlu, Eren Çağlar, Ufuk Baş</i>
ICBAST032	HOW DOES MOBILE LANGUAGE LEARNING APP FEEDBACK AFFECT LEARNING MOTIVATION AND PERSISTENCE? THE CASE OF DUOLINGO <i>Ayşe Aypay, Fatma Altinsoy</i>
ICBAST031	HOW USERS DEAL WITH EXPERIENCES THAT UNDERMINE THE RELIABILITY OF PRODUCTIVE ARTIFICIAL INTELLIGENCE TOOLS (AI) <i>Fatma Altinsoy, Ayşe Aypay</i>

MEETING ROOM

SESSION	August 29, 2025 - Friday 17.30-19.00
CHAIRS	Merzoug Mohammed, Bourebia Mounira

ICBAST02	SEISMIC VULNERABILITY ASSESSMENT OF EXISTING BUILDINGS UNDER THE EFFECT OF GEOMETRIC CHARACTERISTICS <i>Akkouche Karim</i>
ICBAST027	CATALYTIC SYNTHESIS OF LOW MOLECULAR WEIGHT ETHYLENE SERIES HYDROCARBONS FROM DIMETHYL ETHER <i>Gulmira Keldiyarova</i>
ICBAST01	EFFECT OF DUNE SAND – CRUSHED RECYCLED CONCRETE SAND ON THE MECHANICAL PROPERTIES OF FIBER-REINFORCED MORTARS <i>Nacim Khelil, Karim Akkouché, Amar Kahil, Aghiles Oubellil</i>
ICBAST03	EXPERIMENTAL ANALYSIS OF THE PUNCHING SHEAR BEHAVIOR OF CONCRETE SLABS REINFORCED WITH METAL AND POLYPROPYLENE FIBERS <i>Djamal Atlaoui, Nacim Khelil, Karim Accouché, Amar Aliche</i>
ICBAST043	INFLUENCE OF WELDING PARAMETERS ON THE SURFACE CONDITION OF FRICTION STIR LAP WELD JOINTS <i>Merzoug Mohammed, Miloudi Abdelkader, Benamara Nabil, Boulenouar Abdelkader</i>
ICBAST048	IMPACT OF WORK HARDENING ON THE SURFACE ANISOTROPY AND MECHANICAL PROPERTIES OF A LOW-ALLOY STEEL <i>Bourebja Mounira, Meddah Soumaya, Achouri Sihem, Bouhamla Khadidja, Oulabbas Amel, Ghennai Walid, Taleb Ahlem, Laouar Lakhdar, Remili Salah, Hadad Djalil</i>
ICBAST039	NUMERICAL STUDY OF CRACK GROWTH RETARDATION DUE TO OVERLOAD IN AN ALUMINUM ALLOY <i>Miloudi Abdelkader, Miloudi Abdelkader, Benamara Nabil, Merzoug Mohamed, Boulenouar Abdelkader</i>

## MEETING ROOM

<b>SESSION</b>	<b>August 30, 2025 - Saturday 10.00-12.00</b>
<b>CHAIRS</b>	Mehmet Yilmaz, Erkut Yalcin
ICBAST060	EVALUATION OF DIFFERENT ADDITIVES ON MECHANICAL PROPERTIES AND PERFORMANCE OF HOT MIX ASPHALT USING MARSHALL STABILITY AND ITSM TESTS <i>Erkut Yalcin, Sefa Utku Tiryaki</i>
ICBAST010	INVESTIGATION OF SHRINKAGE AND FLAMMABILITY PROPERTIES OF PA66 POLYMER AFTER INJECTION MOLDING <i>Oğuzhan Döner, Orhan Kara, Hasan Öktem</i>
ICBAST066	INVESTIGATION OF FATIGUE PERFORMANCE OF HOT MIX ASPHALT MIXTURES MODIFIED WITH ELVALOY AND PHOSPHORIC ACID (PPA) AS AN ALTERNATIVE TO SBS POLYMER <i>Beyza Furtana-Yalcin</i>

ICBAST062	A MODIFIED PEAK LOAD METHOD BASED ON THE TWO-PARAMETER MODEL IN CONCRETE FRACTURE <i>Ragip Ince</i>
ICBAST061	DETERMINATION OF PHYSICAL PROPERTIES OF POLYMERIC AND DIFFERENT ADDITIVES ON BITUMINOUS BINDERS <i>Mehmet Yilmaz, İsra Seza Deveci</i>
ICBAST065	CLASSIFICATION OF EARTHQUAKE-INDUCED ASPHALT CRACKS WITH A TRANSFER LEARNING-BASED HYBRID STRATEGY <i>Fatih Demir, Erkut Yalcin</i>
ICBAST063	A NOVEL SCB TEST FOR DETERMINING FRACTURE QUANTITIES OF BITUMINOUS COMPOSITES <i>Ragip Ince, B. Fatih Furtana</i>
ICBAST083	QUANTIFYING UNCERTAINTY IN PROJECTED TEMPORAL VARIATIONS OF RESERVOIR RELEASES FOR CROP WATER REQUIREMENT <i>Zeynep Beril Ersoy, Okan Fistikoglu, Umut Okkan</i>
ICBAST068	BIOLOGICAL FUNCTIONS AND THERAPEUTIC POTENTIAL OF OTULIN <i>Tuba Yalcin</i>
ICBAST055	SYNTHESIS OF TRIPHENYLAMINE-BASED FLUORESCENT SENSORS FOR BIOGENIC AMINE DETECTION AND EVALUATION OF THEIR CYTOTOXIC POTENTIAL <i>Mehmet Oguz</i>

## MEETING ROOM

<b>SESSION</b>	<b>August 30, 2025 - Saturday 14.00-15.30</b>
<b>CHAIRS</b>	Victor Rizov, Vessela Petrova
ICBAST028	DEVELOPMENT OF BIG DATA CLUSTERING WITH APACHE SPARK <i>Bakhshali Bakhtiyarov, Aynur Jabiyeva, Gunay Hasanova</i>
ICBAST023	INNOVATIVE TECHNOLOGIES FOR WASTE REDUCTION IN THE EXTRACTION AND PROCESSING OF CRITICAL RAW MATERIALS <i>Vessela Petrova</i>
ICBAST046	INHOMOGENEOUS PLANAR STRUCTURE EXPERIENCING ROTARY MOTION: A LONGITUDINAL FRACTURE INVESTIGATION <i>Victor Rizov</i>
ICBAST082	STUDY OF ENERGY EFFICIENCY OF A PROTOTYPE OF A HOUSEHOLD REFRIGERATOR WITH A BUILT-IN ADDITIONAL REFRIGERANT ACCUMULATOR <i>Slav Valchev, Todor Arshinkov</i>

ICBAST022	CUTTING-EDGE GLOBAL TECHNOLOGIES FOR EXTRACTION AND PROCESSING OF CRITICAL AND STRATEGIC RAW MATERIALS: A REVIEW <i>Yoan Hristov, Vessela Petrova</i>
ICBAST049	DESIGN OF S-BOXES BASED ON ALTERNATIVE IRREDUCIBLE POLYNOMIALS <i>Gulmira Shakhmetova, Zhanat Saukhanova, Altynbek Sharipbay, Alibek Barlybayev, Sayat Raykul, Altay Khassenov</i>
ICBAST084	NEUTROSOPHIC $\alpha B * G \alpha$ -FUNCTIONS IN NEUTROSOPHIC TOPOLOGICAL SPACES <i>Raja Mohammad Latif</i>
ICBAST087	DEEP LEARNING-BASED CROP RECOMMENDATION USING SOIL AND ENVIRONMENTAL PARAMETERS <i>Fatma Özge Özkök</i>

MEETING ROOM

SESSION	August 30, 2025 - Saturday 16.00-17.30
CHAIRS	Patrick Cerna, Kandouci Chahinaz
ICBAST012	OPTIMIZATION OF UNDERWATER OPTICAL WIRELESS COMMUNICATION (UWOC) PERFORMANCE <i>Kandouci Chahinaz</i>
ICBAST074	INTEGRATING IOT AND REGRESSION MODELLING IN ASSESSING SWAMP PURIFICATION EFFICACY <i>Patrick Cerna</i>
ICBAST030	MACHINE LEARNING-BASED CLASSIFICATION OF GEOLOGICAL STRUCTURES FROM MAGNETIC ANOMALY DATA: CASE STUDY OF NORTHERN NIGERIA BASEMENT COMPLEX <i>Ema Abraham, Ayatu Usman, Ifunanya Amano</i>
ICBAST086	ANIIOT-BASED WASTE MONITORING AND PAYMENT PLATFORM <i>Percy Okae</i>
ICBAST024	EFFECT OF THE STRAIN RATE AND TEMPERATURE ON THE SHAPE MEMORY BEHAVIOR OF PMMA <i>Mohammed Nadhir Djamel Eddine Cherief, Ilies Mohammed Amine Ghermaoui</i>

MEETING ROOM

SESSION	August 30, 2025 - Saturday 17.30-19.00
CHAIRS	Aliche Amar, Ahmed Amine Aidouni
ICBAST057	ANTIBACTERIAL AND ANTIVIRULENCE EFFECTS OF SPINACIA OLERACEA ROOT EXTRACT AGAINST PSEUDOMONAS AERUGINOSA <i>Mohamed Ashraf, Hesham Soliman, Amr Nassrallah</i>

ICBAST033	<p>STUDY OF DYNAMICS OF SOME GLACIERS OF THE CAUCASUS USING THE OGGM MODEL</p> <p><i>Teimurazi Davitashvili, Dimitri Amilakhvari</i></p>
ICBAST042	<p>ON THE MIXED-MODE CRACK PROPAGATION INCEMENT MANTLE OF THRUSING A REMESHNIG TECHNIQUE</p> <p><i>Benamara Nabil, Boulenouar Abdelkader, Miloudi Abdelkader, Merzoug Mohammed</i></p>
ICBAST081	<p>THE POTENTIAL OF WEF NEXUS TO TACKLE CLIMATE CHANGE: JORDAN AS A CASE STUDY</p> <p><i>Aiman Albatayneh</i></p>
ICBAST015	<p>DETERMINISTIC ANALYSIS OF THE SEISMIC BEHAVIOUR OF CYLINDRICAL STEEL STORAGE TANKS: A METHODOLOGICAL APPROACH BASED ON THE NEW OF ALGERIAN SEISMIC CODE (RPA 2024).</p> <p><i>Aliche Amar, Ider Ourdia, Hammoum Hocine, Bouzelha Karima, Guemmoun Mouloud, Atlaoui Damal</i></p>
ICBAST011	<p>FIRST-PRINCIPLES STUDY OF THE DYNAMICAL, AND ELECTRONIC PROPERTIES OF <math>\beta</math>-ZNPAU HALF-HEUSLER COMPOUND</p> <p><i>Ahmed Amine Aidouni, Mounir Ould-Mohamed, Souheil Belbachir Souheil, Abdelkader Aissat</i></p> <p>Prof. Dr. Abdelkader Aissat sakre23@yahoo.fr Adrar University</p>