



# TICMET '22

8-10 SEPTEMBER, 2022  
YTÜ DAVUTPAŞA CONGRESS AND CULTURE CENTER



**The 4<sup>th</sup> International Conference of  
Materials and Engineering Technology**  
**4. Uluslararası Malzeme ve Mühendislik  
Teknolojileri Konferansı**

**Konferans Hakkında Detaylı Bilgi**  
Detailed Information About the Conference  
[www.ticmet.org](http://www.ticmet.org)

## CONFERENCE OBJECTIVE

The 4th International Conference of Materials and Engineering Technology (TICMET'22) will be held on 08-10 September 2022 in partnership with Yıldız Technical University, Hasan Kalyoncu University and Gaziantep University.

The main purpose of TICMET'22 is to present the latest research and results of scientists related to materials and engineering technologies. This conference provides different field delegates with opportunities to exchange new ideas and application experiences, build business or research relationships, and find global partners for future collaboration. Due to Covid-19 that shook the world, in addition to face-to-face sessions, ONLINE presentation will be provided to our participants. After this science feast, your abstract/full texts will be published in congress books with ISBNs and will be brought to the world science literature with open access and significant contributions will be made to the scientific field.

Webinars will be used in online presentations and will be broadcast live. All participants will be able to ask questions to be answered in the presentations. In the event that more than one session takes place at the same time, it will be possible to follow from parallel rooms.

The conference organizing committee is pleased to invite prospective authors to send their original texts to TICMET'22. All papers will be reviewed and evaluated by the referees in the field, based on their technical and research content depth, accuracy, relevance to the conference, contributions and readability.

**Selected papers presented (face to face or online) at the conference will be proposed to publish in one of the following journals:**

- \* Sigma Journal of Engineering and Natural Sciences (Sigma) (E-SCI)
- \* Acta Mechanica et Automatica (E-SCI)
- \* El Cezeri Journal of Science and Engineering (ECJSE) (TR Dizin)
- \* Journal of Sustainable Construction Materials and Technologies (JSCMT) (TR Dizin)
- \* International Journal of Materials and Engineering Technologies (TIJMET) (Dergipark)

TICMET'22 Conference is funded within the framework of Tübitak 2223-B.

## PROGRAM COMMITTEES

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Prof. Dr. Tamer Yılmaz, Yıldız Technical University - TR

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Prof. Dr. Yousef Haik, Hamad Bin Khalifa University Hbku - QA

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Prof. Dr. Zakaria Boumerzoug, University Of Biskra - DZ

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Assoc. Prof. Dr. Mehmet Emin Aydin, UWE Bristol - GB

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Assist. Prof. Dr. Yusuf Bicer, Hamad Bin Khalifa University Hbku - QA

Dr. Abdessalem Bouferrouk, University Of The West Of England - GB

Dr. Fahmi Fariq Muhammad, Koya University - IQ

Dr. Mazhar Malik, University Of The West Of England - GB

Dr. Mirza Nadeem Baig, Pakistan Welding Institute - PK

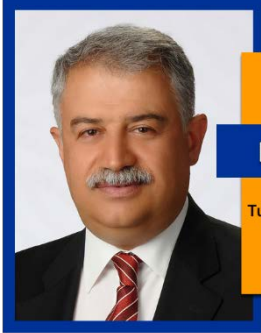
Dr. Mohammad Ghaffar Faraj, Koya University - IQ

Dr. Peter Kay, University Of The West Of England - GB

Dr. Sabir Ghauri, University Of The West Of England - GB

Dr. Shahroz Sakhawat, Pakistan Welding Institute - PK

## INVITED SPEAKERS



Invited Speaker

**Prof. Dr. MUZAFFER ŞEKER**

Turkish Academy of Sciences (TÜBA) President

Türkiye Bilimler Akademisi Başkanı  
(TÜBA)

**Muzaffer Şeker** 1961 yılında İzmir'de doğdu. 1986'da Uludağ Üniversitesi Veteriner Fakültesi'nden mezun oldu. 1995 yılında İngiltere'de Leicester Üniversitesi Tıp Fakültesi'nde İnsan Anatomisi üzerine doktora derecesi aldı. 2000 yılında doçent, 2006 yılında da profesör oldu. Birleşik Arap Emirlikleri'nde iki yıl öğretim görevlisi olarak çalıştı. Selçuk Üniversitesi Meram Tıp

Fakültesi Tıp Eğitimi ve Bilişimi Ana Bilim Dalı Başkanı olarak da görev yapan Şeker, 2008-2010 yılları arasında İstanbul Medipol Üniversitesi Kurucu Mütevelli Heyeti'nde de görev aldı. Aynı zamanda Kamu Yönetimi Lisans mezunu olan Şeker, Aralık 2010 yılında Konya Üniversitesi'ne kurucu rektör olarak atandı. Necmettin Erbakan Üniversitesi Rektörlüğüne Aralık 2014 yılında ikinci dönem için tekrar atandı. TÜBA Asli Üyesi ve TÜBA Konsey Üyesi, TÜBİTAK Bilim Kurulu Üyesi, Üniversitelerarası Kurul (ÜAK) Tıp Sağlık Eğitim Konsey Üyesi, Sağlık Bakanlığı Sağlık Turizmi Üst Kurul Üyesi, Üniversitelerarası Kurul (ÜAK) Doçentlik Konsey Üyesi, Yükseköğretim Kurulu (YÖK) Engelli Öğretim Komisyon Üyesi, KOP Bölgesi Üniversiteler Birliği (UNİKOP) Dönem Başkanı, Üniversite Hastaneler Birliği Yönetim Kurulu Asil Üyesi, Ahmet-Nezhat Keleşoğlu Eğitim Vakfı Mütevelli Heyet Üyesi, Selçuklu Otizimli Bireyler Eğitim Vakfı (SOBE) Kurucu Mütevelli Üyesi, İstanbul İlim ve Eğitim Vakfı (İSİLEV) Kurucu Mütevelli Üyesi, Birlik Vakfı Danışma Kurulu Üyesi ile İNNOPARK Yönetim Kurulu Üyesidir. Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB) Aziz Sançar Bilim, Hizmet ve Teşvik Ödülleri, TÜBA-GEBİP Teşvik Ödülleri, TÜBİTAK Bilim, Hizmet ve Teşvik Ödülleri seçici kurullarında idari görev yürüttü. G20 ülkelerinin 2017 Science '20 Zirvesi'nde ve 2018 World Science Forum Jordan'da ülkemizi temsil etti. Ayrıca 2002 yılından bu yana üyesi olduğu Türk Anatomi ve Klinik Anatomi Derneği ile Temel Tıp Bilimleri Platformu yönetimlerinde farklı görevler yürüten Şeker, evli ve üç çocuk babasıdır.

**Krzysztof Jan Kurzydłowski** was born on 29 August 1954, in Lublin. Polish physicist, professor of technical sciences, vice-rector of the Warsaw University of Technology in 1993-1999, undersecretary of state in the Ministry of Education and Science in 2005-2006, undersecretary of state in the Ministry of Science and Higher Education in 2006-2007, Director of the National Research and Development Center in 2011-2016.



Invited Speaker

**Prof. Dr. KRZYSZTOF JAN KURZYDŁOWSKI**

BIALYSTOK UNIVERSITY  
OF TECHNOLOGY

Professor Kurzydłowski graduated from the Warsaw University of Technology Faculty of Technical Physics and Applied Mathematics. He later earned his doctorate (1981) and postdoctoral (1989) degrees at the Warsaw University of Technology. In 1995, he received the title of professor of technical sciences. In his scientific work, he deals with materials engineering, modeling the structure and properties of materials, nanomaterials, and the degradation of structural and functional materials.

He is the European consultant in the field of operational safety of industrial plants. He held position of research associate at the University of Manitoba in Canada, and visiting professor at Brunel University in Great Britain, and École Nationale Supérieure des Mines de Saint-Étienne in France. He has published more than 500 scientific papers and several monographs. He supervised over 70 doctoral theses. He is a member of Senate of E-MRS. Received a gold medal of FEMS. Professor Kurzydłowski is married and has two sons.



Invited Speaker

**Dr. RADOVAN KOPECEK**

CTO and co-founder  
ISC Konstanz / [www.isc-konstanz.de](http://www.isc-konstanz.de)

**Radovan Kopecek** obtained his Diploma in Physics at the University of Stuttgart in 1998. In addition, he studied at Portland State University (Oregon, USA), where he obtained a Master of Science in 1995. In 2002 he finalizes his PhD dissertation in Konstanz in the field of thin film crystalline photovoltaics.

Until the end of 2006 he was a group leader at University of Konstanz. One of the founders of ISC Konstanz, Dr. Kopecek has been working at the institute as a full time manager and researcher since 2007 and is currently a managing director and the head of the Advanced Solar Cells department. Dr. Kopecek was since 2016 in the board of directors of EUREC (Association of EU's R&D centers involved in renewables). He is co-founder of ATAMOSTEC in 2018 – an R&D center for desert modules and systems in Chile and since 2022 in board of directors. In 2022 Dr. Kopecek was elected also for the board of directors of ESMC (European Solar Manufacturing Council).

**Muammer Koç**, Prior to his appointment as a founding professor of sustainability at HBKU in 2014, Professor Koç held professor, director, chair and dean positions at different universities in Turkey and the USA between 2000-2014. He has a PhD degree in Industrial and Systems Engineering from the Ohio State University (1999) and an



Invited Speaker

**Prof. Dr. MUAMMER KOÇ**

Professor and Coordinator  
Hamad Bin Khalifa University (HBKU)

Executive MBA degree from the University of Sheffield, UK (2014). He has published 130+ publications in various international journals and conferences; edited three books; organized, chaired, and co-chaired various international conferences, workshops and seminars on design, manufacturing and product development. In addition to his academic and educational activities, he provides consulting services to industry, government and educational institutes for strategic transformation, business optimization, organizational efficiency, lean operations, restructuring and reengineering initiatives. He has taught courses across a range of subjects, including product/process/business innovation and development; medical design and production; energy and efficiency; computer-aided engineering, design and manufacturing; modern manufacturing technologies; manufacturing system design; material forming plasticity; and the mechanical behavior of materials.

<b>PROGRAM OVERVIEW</b>		
<b>Location: Yıldız Technical University - Davutpaşa Congress and Culture Center</b>		
<b>08.09.2022 - THURSDAY</b>		
09:00 – 10:00	Registration	Conference Registration Desk
10:00 – 11:15	Opening Ceremony	Yildiz Technical University – Main Hall
11:15 – 12:00	Invited Speakers Session	Prof. Dr. Muzaffer ŞEKER – President of TUBA
12:00 – 13:30	Launch	
13:30 – 15:15	Plenary Session	Prof.Dr. Krzysztof Jan KURZYDŁOWSKI – Bialystok University of Technology
		Prof.Dr. Radovan KOPECEK – CTO and Co-Founder / ISC Konstanz
		Prof.Dr. Muammer KOÇ – Founding Professor, Sustainability, Hamad Bin Khalifa University
15:15 – 15:30	Coffee Break	
15:30 – 16:45	Session I	Yildiz Technical University - Hall 1 (Face to Face) - Hall 2 & Hall 3(Online)
16:45 – 17:00	Coffee Break	
17:00 – 18:15	Session II	Yildiz Technical University - Hall 1 (Face to Face) - Hall 2 & Hall 3(Online)
19:30 – 21:00	Gala Dinner and Plaque Presentation	
<b>09.09.2022 - FRIDAY</b>		
09:30 – 10:45	Session III	Yildiz Technical University - Hall 1 (Face to Face) - Hall 2 & Hall 3(Online)
10:45 – 11:00	Coffee Break	
11:00 – 12:30	Session IV	Yildiz Technical University - Hall 1 (Face to Face) - Hall 2 & Hall 3(Online)
12:30 – 14:30	Launch	
14:30 – 17:00	Session V	Yildiz Technical University – Main Hall - <b>Special R&amp;D Session</b>
19:30 – 21:00	Conference Dinner	
<b>10.09.2022 - SATURDAY</b>		
ALL DAY	Social Event – Free Time for Participants	



## OPENING CEREMONY

08.09.2022 - THURSDAY (10:00 – 11:15)

OPENING SPEECH :

## INVITED SPEAKERS SESSION

08.09.2022 - THURSDAY (11:15 – 12:00)

OPENING SPEECH :

MAIN HALL

PROF. DR. MUZAFFER ŞEKER – TURKISH ACADEMY OF SCIENCE (TUBA) PRESIDENT  
İNSAN, MALZEME, SAĞLIK VE GELECEK

## PLENARY SESSION

08.09.2022 - THURSDAY (13:30 – 15:15)

Chair: Prof. Dr. Necip Fazıl YILMAZ

Face-to-Face & Online : <https://zoom.us/j/94965200151>

MAIN HALL

PROF.DR. KRZYSZTOF JAN KURZYDLOWSKI – BIALYSTOK UNIVERSITY OF TECHNOLOGY  
DENSITY FUNCTIONAL THEORY: EVALUATION AND DEVELOPMENT OF STRUCTURES AT THE ATOMIC SCALE OF THE MATERIAL

PROF.DR. RADOVAN KOPECEK – CTO AND CO-FOUNDER-INTERNATIONAL SOLAR ENERGY RESEARCH CENTER KONSTANZ E. V.  
NEW AND FUTURE TRENDS IN SOLAR ENERGY

PROF.DR. MUAMMER KOC – FOUNDING PROFESSOR, SUSTAINABILITY, HAMAD BIN KHALIFA UNIVERSITY  
3DP TECHNOLOGY: MATERIAL, DESIGN, PROCESS AND PERFORMANCE

## SESSION I

08.09.2022 - THURSDAY (15:30 – 16:45)

Chair: Prof. Dr. Ömer EYERCIÖĞLU

### Face to Face

<b>HALL 1</b>	<b>TICMET22-0063: ELEKTRİKSEL EROZYON İLE DELİK DELME İSLEMİNİN ANFİS İLE MODELLENMESİNDE DENEY PLANININ ETKİSİ</b> ALI TOLGA BOZDANA , ALI GOCMEN
	<b>TICMET22-0025: FARKLI İSİL İSLEM SICAKLIKLARININ BORAKS TAKVİYELİ ALUMİNYUM METAL MATRİS KOMPOZİTLER ÜZERİNDEKİ KOROZYON DAVRANISINA OLAN ETKİSİ</b> SUAT ONAL
	<b>TICMET22-0020: 3B YAZICIDA ÜRETİLEN POLİLAKTİK ASİT PLA BENZOİL PEROKSİT KOMPOZİTİNİN MEKANİK DAVRANISININ İNCELENMESİ</b> MUSA YILMAZ , NECİP FAZİL YILMAZ , ALI KİLİC , HİDAYET MAZİ
	<b>TICMET22-0024: POLİMER TEMELLİ SİKLOİD DİSLİLERDE SONLU ELEMANLAR ANALİZİ</b> NECİP FAZİL YILMAZ , HASAN MİTHAT DELİBAS , MAHMUT FURKAN KALKAN
	<b>TICMET22-0013: THE ANALYSIS AND CHALLENGES OF 2D BORON BOROPHENE</b> MURAT ODUNCUOĞLU
	<b>TICMET22-0014: QUANTUM COMPUTING AND SIMULATION OF MATERIALS</b> MURAT ODUNCUOĞLU , BİLAL EROL

08.09.2022 - THURSDAY (15:30 – 16:45)

Chair: Prof. Dr. Metin BEDİR

ONLINE : <https://zoom.us/j/97866678998>

<b>HALL 2</b>	<b>TICMET22-0059: ELECTROCHEMICAL GROWTH OF ALLOYS FROM IONIC LIQUIDS ON COPPER TO PREVENT CORROSION</b> ABDULCABBAR YAVUZ
	<b>TICMET22-0057: PHYSICAL PROPERTIES OF RING AND AIR VORTEX YARNS MADE OF SOYBEAN RECYCLED POLYESTER POLYESTER AND VISCOSE</b> GULİSTAN BANU GOKGONUL , EMEL CEYHUN SABİR , MEHMET KERTMEN , AYBUKE SEN
	<b>TICMET22-0017: DEEP MACHINE LEARNING ANALYSIS FOR ATOMIC COORDINATE PREDICTION OF CARBON NANOTUBES</b> EMİNE AKPINAR , BİLGİN KESERCI
	<b>TICMET22-0018: THE CLASSIFICATION PERFORMANCE COMPARISON OF CLASSICAL AND QUANTUM SUPPORT VECTOR MACHINE IN PREDICTING THE TREATMENT OUTCOME OF HIGH INTENSITY FOCUSED ULTRASOUND ABLATION OF UTERINE FIBROIDS</b> EMİNE AKPINAR , BİLGİN KESERCI
	<b>TICMET22-0076: MICROWAVE COAXIAL PROBE MEASUREMENTS OF METAKAOLİN GEOPOLYMERS AT THEIR EARLY CURING TIMES</b> UGUR CEM HASAR , HAMDULLAH ÖZTÜRK , HUSEYİN KORKMAZ , MUSA BUTE , AHMET TAŞDEMİR
	<b>TICMET22-0064: MICROWAVE METAMATERIAL BASED SENSOR DESIGN FOR DETECTION OF ADULTERATION IN OLIVE OIL</b> HUSEYİN KORKMAZ , UGUR CEM HASAR

08.09.2022 - THURSDAY (15:30 – 16:45)

Chair: Prof. Dr. Murat ODUNCUOĞLU

ONLINE : <https://zoom.us/j/98625495545>

<b>HALL 3</b>	<b>TICMET22-0073: A COMPARATIVE STUDY OF THE HOMOGENEITY OF THE DISTRIBUTION OF ALUMİNA GREEN CERAMIC PARTS MANUFACTURED BY TWO DIFFERENT METHODS TRADITIONAL MOLDING AND 3D PRINTING</b> OMER EYERCIÖĞLU , DERYA KAPUSUZ YAVUZ , DİMA BABİ
	<b>TICMET22-0012: EFFECT OF LASER WELDING CURRENT ON THE MICROSTRUCTURE AND NANOCREEP BEHAVIOR OF TITANIUM ALLOY WELD BEADS</b> MİRZA NADEEM BAİG
	<b>TICMET22-0006: A STUDY ON AL CU MG ALLOY REINFORCED BY CERAMIC CLAY</b> HALİL İBRAHİM KURT , MUSTAFA GUVEN GOK , DAMRA NİSA DAL , ENGİN ERGUL
	<b>TICMET22-0005: A STUDY ON AL CU ALLOY REINFORCED BY STEEL POWDER</b> MUSTAFA GUVEN GOK , HALİL İBRAHİM KURT , OKAN SERT , ENGİN ERGUL
	<b>TICMET22-0075: PERMITTİVİTY EXTRACTION USING UNCALIBRATED MICROWAVE MEASUREMENTS OF SOIL SAMPLES FROM THE CITY GAZİANTEP</b> HAFİZE HASAR , TASKİN ÖZTAS
<b>TICMET22-0028: THE EFFECT OF B TARGET VOLTAGE ON WEAR PROPERTIES OF TİCRNB HBN COATINGS</b> YASAR SERT , TEVİK KUCUKOMEROĞLU , HUCCEK KAHRAMANZADE , LEVENT KARA	

## SESSION II

08.09.2022 - THURSDAY (17:00 – 18:15)

Chair: Prof. Dr. Mustafa BAKKAL

Face to Face

<b>HALL 1</b>	<b>TICMET22-0027: EFFICIENCY IMPROVEMENT THROUGH LEAN MANUFACTURING AND PROBLEM SOLVING TECHNIQUES</b> DILAN CELIK, M HADI KUZU, ERDEM AZ, MUSTAFA BAKKAL
	<b>TICMET22-0040: FPGA IMPLEMENTATION OF SENSORLESS SPEED DETECTION FOR INDUCTION MOTOR</b> ABDULKADIR CAKIR, EYUP CAKI
	<b>TICMET22-0061: PRODUCTION OF HEAT TREATED METAL SHEET FOR ENERGY STORAGE DEVICES</b> METIN BEDIR, ABDULCABBAR YAVUZ, ALI TUNC
	<b>TICMET22-0023: DESIGN AND CONSTRUCTION PVC PACKAGING MACHINE</b> IBRAHIM HUWARI, NECIP FAZIL YILMAZ
	<b>TICMET22-0048: FPGA BASED BATTERY MANAGEMENT SYSTEM DESIGN</b> ABDULKADIR SADAY, ILKER ALI OZKAN

08.09.2022 - THURSDAY (17:00 – 18:15)

Chair: Prof. Dr. Uğur Cem HASAR

Online: <https://zoom.us/j/98316287256>

<b>HALL 2</b>	<b>TICMET22-0015: MATERIAL PARAMETERS OF GASB ALLOYS FOR SILICON PHOTONICS APPLICATIONS</b> MURAT ODUNCUOGLU, GOKCE KARANFIL
	<b>TICMET22-0026: CLASSIFICATION OF NEONATAL EPILEPTIC SEIZURE FROM ELECTROENCEPHALOGRAPHY SIGNALS USING DEEP NEURAL NETWORK</b> ABDULLAH CALISKAN, SULEYMAN RENCUZOGULLARI, HASAN BADEM
	<b>TICMET22-0074: POTENTIAL OF SPECTRUM SELECTIVE NANOFLUID FOR SUSTAINABLE COOLING OF AGRICULTURAL GREENHOUSES AN EXPERIMENTAL EVALUATION</b> MUHAMMAD USMAN SAJID, YUSUF BICER
	<b>TICMET22-0062: BROADBAND MULTILAYER METAMATERIAL MICROWAVE ABSORBER DESIGN USING SOA ALGORITHM</b> MONA ALFAQAWI, UGUR C HASAR
	<b>TICMET22-0021: RESEARCH ON THE ELECTRICAL EFFECT OF FERROMAGNETIC MATERIAL ON THE COIL</b> MEHMET ALI OZCELIK, AHMET AYCAN
	<b>TICMET22-0022: WORKING OF A SINGLE PHASE INDUCTION MOTOR AS ALTERNATOR AND INVESTIGATING THE OUTPUT VOLTAGE VARIATION ACCORDING TO EXCITATION CAPACITY AND OHMIC AND INDUCTIVE LOADS</b> MEHMET ALI OZCELIK, AHMET AYCAN
	<b>TICMET22-0032: THERMAL WEAR PERFORMANCE EVALUATION OF THE 431 GRADE SS COATED ROTOR BY HVOF</b> RECEP AKYUZ

08.09.2022 - THURSDAY (17:00 – 18:15)

Chair: Assoc. Prof. Dr. Ali Tolga BOZDANA

Online : <https://zoom.us/j/94089877432>

<b>HALL 3</b>	<b>TICMET22-0019: AN ASSESSMENT OF THE EFFECT OF VISCOSITY SOLUBILITY AND MISCIBILITY RATIOS ON COP IN VAPOR COMPRESSION REFRIGERATION COMPRESSOR OILS</b> HASAN MITHAT DELIBAS, EMRAH DENIZ, GURSAH GURUF
	<b>TICMET22-0029: SURFACE AND STRUCTURAL PROPERTIES OF MARTENSITIC STAINLESS STEEL GLASS POWDER COMPOSITE MATERIALS PREPARED BY POWDER METALLURGY METHOD</b> AYSE NUR ACAR, DOGAN KAYA, ABDUL KADIR EKSI, AHMET EKICIBIL
	<b>TICMET22-0077: YARN QUALITY INVESTIGATION OF COMPACT COTTON YARNS WITH DIFFERENT COMBING NOIL PERCENTAGE</b> HALIL IBRAHIM CELIK, OZHAN COBAN, ESIN SARIOGLU
	<b>TICMET22-0078: INVESTIGATION OF EFFECT OF PRE CONSUMER RECYCLING ACRYLIC FIBER RATIO ON YARN AND FABRIC PROPERTIES</b> ESIN SARIOGLU, PERIHAN TEKIN, SERDAR SAYCAN, HALIL IBRAHIM CELIK, HATICE KÜBRA KAYNAK
	<b>TICMET22-0036: INVESTIGATION OF THE PERFORMANCE PROPERTIES OF CONVENTIONAL ACRYLIC AND RECYCLED ACRYLIC</b> EDANUR TURGUT, MUHAMMED IDRIS AKTAS, MEHMET TOPALBEKIROGLU
	<b>TICMET22-0037: EXAMINATION OF PROCESS IMPROVEMENT IN SOFTENING PROCESSES OF ELASTANE BLENDED ACRYLIC YARNS</b> EDANUR TURGUT, MUHAMMED IDRIS AKTAS, MEHMET TOPALBEKIROGLU
	<b>TICMET22-0030: IMPACT OF INSERTING CAN PIPES ON HEAT TRANSFER IN A SOLAR AIR COLLECTOR</b> BENZENINE HAMIDOU, MOUSSA BOUDJEMA FETHI, ABOUDI SAID
	<b>TICMET22-0031: DISTANCE EFFECT OF THE ROWS OF TUBES INSERTED ON THE ABSORBER OF A SOLAR COLLECTOR NUMERICAL AND EXPERIMENTAL APPROACH</b> BENZENINE HAMIDOU, MOUSSA BOUDJEMA FETHI, ABOUDI SAID

### SESSION III

09.09.2022 - FRIDAY (09:30 – 10:45)	
<b>Chair: Prof. Dr. Sultan ÖZTÜRK</b>	
<b>Face to Face</b>	
<b>HALL 1</b>	<b>TICMET22-0068: INVESTIGATION OF BENDING STRENGTH IN FML COMPOSITES PRODUCED USING STEEL MESH WIRE</b> MEHMET ALI AKELOGLU , MELIH BAYRAMOGLU
	<b>TICMET22-0041: YABANI HAYVANLARININ TARIM ARAZILERINE VERDIGI ZARARLARI AZALTMAK AMACIYLA OLUSTURULAN ARDUINO KONTROLLU YABANI HAYVAN KOVUCU SISTEM</b> SEYIT AKPANCAR , ABDULKADIR CAKIR , EYUP CAKI
	<b>TICMET22-0071: SURFACE FINISHING OF CEMENTED TUNGSTEN CARBIDE USING ABRASIVE FLOW MACHINING</b> OMER EYERCIOGLU , KURSA D GOV , ENGIN TEK , M BURAK TOPARLI
	<b>TICMET22-0010: PERFORMANCE OF CONVENTIONAL GAS CARBURIZATION METHOD APPLIED ON AISI SAE 420 MARTENSITIC STAINLESS STEEL</b> AZIZ BARIS BASYIGIT , HALIL IBRAHIM KURT
	<b>TICMET22-0033: A CNN BASED STUDY ON KERF ANGLE ESTIMATION IN PLASMA CUTTING PROCESS</b> AYKUT BILICI , NECIP FAZIL YILMAZ

09.09.2022 - FRIDAY (09:30 – 10:45)	
<b>Chair: Prof. Dr. Omer EYERCIOGLU</b>	
<b>Online : <a href="https://zoom.us/j/93339959998">https://zoom.us/j/93339959998</a></b>	
<b>HALL 2</b>	<b>TICMET22-0001: GRAPHNE IN CEMENTIOUS MATERIALS FOR BUILT ENVIRONMENT APPLCATIONS</b> SHOUKAT ALIM KHAN , NAMRA MIR , ANIL KUL , O SAHIN , MUAMMER KOC
	<b>TICMET22-0002: ENHANCED BOILING HEAT TRANSFER ON SILVER NANOWIRE NETWORKS</b> NURETTIN SEZER , YUSUF BICER , MUAMMER KOC
	<b>TICMET22-0065: HYBRID FAILURE CRITERIA APPLICATION FOR COLD FORGING DIES</b> M BURAK TOPARLI , BAYBARS SARICA
	<b>TICMET22-0051: SOGUK DOVME PROSESINDE KULLANILAN BIR SIVAMA KALIBININ SONLU ELEMENLAR YONTEMI ILE INCELENMESI</b> SARPER DOGAN , CENK KILICASLAN , SEZGIN YURTDAS , M BURAK TOPARLI
	<b>TICMET22-0067: DETERMINATION OF TWO PORT NETWORK PARAMETERS BY UNCALIBRATED SCATTERING PARAMETERS</b> HAMDULLAH OZTURK , UGUR CEM HASAR
	<b>TICMET22-0039: CHARACTERIZATION OF FRESH STATE PROPERTIES OF CONSTRUCTION AND DEMOLITION WASTE BASED GEOPOLYMER FOR NUMERICAL MODELLING AND SIMULATION</b> HUSEYIN ILCAN , SHOUKAT A KHAN , OGUZHAN SAHIN , MUAMMER KOC

09.09.2022 - FRIDAY (09:30 – 10:45)	
<b>Chair: Assoc. Prof. Dr. Ali Tolga BOZDANA</b>	
<b>Online : <a href="https://zoom.us/j/99580552213">https://zoom.us/j/99580552213</a></b>	
<b>HALL 3</b>	<b>TICMET22-0004: TAGUCHI METHOD WITH ANOVA ANALYSIS OF HEAT TREATED 4140 STEEL</b> HALIL IBRAHIM KURT , UTKU BERK AKYUZ , OKAN SERT , HATICE OZGE ALAGOZ , DAMRA NISA DAL
	<b>TICMET22-0011: GROUP IV SEMICONDUCTOR MATERIALS USED FOR INFRARED DEVICES</b> GOKCE KARANFIL , MURAT ODUNCUOGLU
	<b>TICMET22-0034: SURDURULEBILIR LIFLERDEN ELDE EDILEN ORME KUMASLARIN HAVA GECIRGENLIK VE BONCUKLANMA OZELLIKLERININ INCELENMESI</b> TULIN KAYA NACARCAHYA , EBRU CELIKTEN , KUBILAY OZDEN , TUGCE OGUT
	<b>TICMET22-0035: AN INVESTIGATION OF THE CHARACTERISTICS AND PROPERTIES OF COMMERCIAL POLYESTER FIBERS</b> VOLKAN MURAT YILMAZ , MEMIK BUNYAMIN UZUMCU , EBRU CELIKTEN , TULIN KAYA NACARCAHYA
	<b>TICMET22-0078: INVESTIGATION OF EFFECT OF PRE CONSUMER RECYCLING ACRYLIC FIBER RATIO ON YARN AND FABRIC PROPERTIES</b> ESIN SARIOGLU , PERIHAN TEKIN , SERDAR SAYCAN , HALIL IBRAHIM CELIK
	<b>TICMET22-0077: YARN QUALITY INVESTIGATION OF COMPACT COTTON YARNS WITH DIFFERENT COMBING NOIL PERCENTAGE</b> HALIL IBRAHIM CELIK , OZHAN COBAN , ESIN SARIOGLU

## SESSION IV

09.09.2022 - FRIDAY (11:00 – 12:30)	
Chair: Assist. Prof. Dr. Suat ÖNAL	
Face to Face	
HALL 1	TICMET22-0047: NUMERICAL INVESTIGATION OF T6 HEAT TREATMENT FOR A7075 HOT FORGING AND EXPERIMENTAL VERIFICATION GORKEM TOK , MUSTAFA BAKKAL
	TICMET22-0016: A COMPARATIVE ANALYSIS OF TWO KEY ENABLING TECHNOLOGIES INDUSTRY 4 0 AND CLOUD MANUFACTURING KHAIR JADAAN , JUMAN ALFALAHAT , BATOOL MAKABLEH
	TICMET22-0069: NOISE PREDICTION AND CONTROL UNDER JORDANIAN CONDITIONS KHAIR JADAAN , DANIA ALAMEH , MAIS AL ABBADI , BARAA AL ZAHARNA , MOHAMMAD OBAID
	TICMET22-0044: INVESTIGATION OF THE EFFECTS OF TITANIUM ELEMENT ON THE ELECTROCHEMICAL PROPERTIES OF CANTOR ALLOY FURKAN ALPTEKIN , KURSAT ICIN , SUAT ONAL , SEFA EMRE SUNBUL , ATABERK YILDIZ , SULTAN OZTURK
	TICMET22-0046: ERIYIK SAVURMA YONTEMİYLE HIZLI KATILASTIRILMIS CUAL10NI5FE4 ALASIMI TOZLARINDAN KOMPAKT PARCA URETİMİ VE TRIBOLOJİK ÖZELLİKLERİNİN İNCELENMESİ FURKAN ALPTEKIN , ABDURRAHİM METOĞLU , SUAT ONAL , SELMİNE AKYOL , SULTAN OZTURK
	TICMET22-0045: CUAL10NI5FE4 NİKEL ALUMİNYUM BRONZUNUN MİKROYAPISAL VE TRIBOLOJİK ÖZELLİKLERİNİN İNCELENMESİ ATABERK YILDIZ , ABDURRAHİM METOĞLU , SUAT ONAL , SELMİNE AKYOL , SULTAN OZTURK
	TICMET22-0043: AMANYOK ORTAMINDA MEKANOKİMYASAL SENTEZLEME İSLEMİNİN SELESTİT CEVHERİNİN DONUSUM SICAKLIKLARI ÜZERİNDEKİ ETKİSİ KURSAT ICIN , SUAT ONAL , SEFA EMRE SUNBUL , FURKAN ALPTEKIN , ATABERK YILDIZ , SULTAN OZTURK

09.09.2022 - FRIDAY (11:30 – 12:30)	
Chair: Assoc. Prof. Dr. Esin SARIOĞLU	
Online : <a href="https://zoom.us/j/92244225588">https://zoom.us/j/92244225588</a>	
HALL 2	TICMET22-0060: SUPERCAPACITIVE BEHAVIOUR OF ALLOYS ELECTRODEPOSITED BY APPLYING DIFFERENT GROWTH POTENTIAL ABDULCABBAR YAVUZ , MURAT ARTAN , NECİP FAZİL YILMAZ
	TICMET22-0058: SOLVOTHERMAL SYNTHESIS OF TITANIUM DIOXIDE URCHINS DERYA KAPUSUZ YAVUZ
	TICMET22-0055: CRITICAL SIZES OF AG NANOPARTICLES IN WATER AND ETHYLENE GLYCOL BASED NANOFLUIDS OF VARYING VOLUMETRIC FRACTION AND TEMPERATURE MAHMUT KAPLAN , MELDA ÖZDİNCİ CARPİNLİOĞLU
	TICMET22-0079: DETERMINATION OF INTERACTIVE INFLUENCE OF NANOPARTICLE SIZE AMOUNT AND TEMPERATURE FOR THE UTILITY OF NANOFLUIDS MELDA ÖZDİNCİ CARPİNLİOĞLU , MAHMUT KAPLAN

09.09.2022 - FRIDAY (11:30 – 12:30)	
Chair: Prof. Dr. Metin BEDİR	
Online : <a href="https://zoom.us/j/93083998438">https://zoom.us/j/93083998438</a>	
HALL 3	TICMET22-0070: AUTOMATED DRUG COLLECTION AND SERVICE OPERATIONS IN A PHARMACY ROBOT A SOFTWARE APPROACH TO MEASURE THE DIMENSIONS OF MEDICINE BOXES SINAN COLAK , ONAT HALİS TOTUK , ÖZGÜN SELVİ
	TICMET22-0009: GREEN DESIGN OF ROTABLE BUILDING USING WIND LOADS AMJAD KHABAZ , AHMED S SALİH , AHMED H ALWANI
	TICMET22-0054: INFLUENCE OF A NATURAL FILLER ON PROPERTIES OF A POLYMER COMPOSITE BASED ON THERMOPLASTIC POLYURETHANE TPU MATRIX MEHMET ALADAG , KLAUDIA LUBKO , MAGDALENA JOKA YILDIZ , RAFAL MOLAK , MAREK JALBRZYKOWSKI , KRZYSZTOF J KURZYDŁOWSKI
	TICMET22-0008: EFFECT OF SEISMIC LOADS ON HISTORICAL BUILDINGS IN IRAQ AMJAD KHABAZ , AHMED H ALWANI , AHMED S SALİH
	TICMET22-0056: MACHINE LEARNING FOR EFFICIENT SWARM INTELLIGENCE MEHMET AYDIN , RAFET DURGUT
	TICMET22-0053: THE EFFECT OF HA AND BG PARTICLES AIR ABRASIVE BLASTING ON MG 4ZN 0 3CA ALLOY CORROSION RESISTANCE HAZMAN SELİ , NİKOLAOS SİLİKAS , XIAOHUI CHEN , ANDREW THOMAS

**SESSION V**  
**(SPECIAL R&D SESSION)\***

**09.09.2022 - FRIDAY (14:30 – 17:00)**

**R&D Moderator: Prof. Dr. Necip Fazıl YILMAZ**

**Face-to-Face**

**MAIN HALL**

Assoc. Prof. Dr. Cengiz ARICI – TUBITAK ARDEB DEPUTY DIRECTOR

Assist. Prof. Dr. Hasan Selçuk SELEK – TUBITAK TEYDEB DEPUTY DIRECTOR

Orhan TANIŞMAN – YILDIZ TECHNICAL UNIVERSITY – TECHNOPARK GENERAL MANAGER

\* Özel ARGE oturumu Türkçe yapılacaktır.



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