

# TICMET'20

November 05-07, 2020

2020

The International Conference of  
Materials and Engineering Technology

(Uluslararası Malzeme ve Mühendislik  
Teknolojileri Konferansı)



Ataturk  
Cultural Center  
Gaziantep University  
Gaziantep / TURKEY

[www.ticmet.org](http://www.ticmet.org)

GAZIANTEP UNIVERSITY

Ataturk Cultural Center



GAZIANTEP ÜNİVERSİTESİ

Atatürk Kültür Merkezi

## **CONFERENCE OBJECTIVE**

The International Conference of Materials and Engineering Technology (TICMET'20) will be held at Gaziantep University on 05-07 November 2020.

The main purpose of TICMET'20 is to present the latest research and results of scientists related to Computer Science, Electrical and Electronics, Energy Technologies, Materials Science, Manufacturing Technologies, Mechatronics and Biomedical 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. In addition, 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 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'20.

All summaries will be reviewed and evaluated by the referees in the field, based on their technical and / or research content / depth, accuracy, relevance to the conference, contributions and readability.

**Selected papers presented(online) at the conference will be published in one of the following journals:**

- International Journal of Materials and Engineering Technologies (TIJMET) (Dergipark)
- El-Cezeri Journal of Science and Engineering (TR Directory)

## **PROGRAM COMMITTEES**

### **Honorary Chair**

Prof. Dr. Arif Ozaydin, Gaziantep University – TR

### **Chair**

Prof. Dr. Necip Fazil Yilmaz, Gaziantep University – TR

### **Organizing Committee**

Prof Dr Necip Fazil Yilmaz, Gaziantep University - TR

Assoc Prof Dr Halil Ibrahim Kurt, Gaziantep University - TR

Prof Dr Adem Kurt, Gazi University - TR

Prof Dr Ali Riza Yildiz, Uludag University - TR

Prof. Dr. Metin Bedir, Gaziantep University - TR

Prof Dr Murat Oduncuoglu, Gaziantep University - TR

Prof. Dr. Mustafa Bakkal, Istanbul Technical University - TR

Lect Aykut Bilici, Gaziantep University – TR

#### **Scientific Committee (National Committee)**

Prof. Dr. Abdulkadir Eksi, Cukurova University - TR

Prof Dr Ali Gursel, Duzce University - TR

Prof Dr Ismail Saritas, Selcuk University - TR

Prof. Dr. Mehmet Cengiz Kayacan, Süleyman Demirel University - TR

Prof Dr Mete Kalyoncu, Konya Technical University - TR

Prof. Dr. Mustafa Bakkal, Istanbul Technical University - TR

Prof. Dr. Mustafa Cigdem, Yildiz Technical University - TR

Prof. Dr. Oguzhan Yilmaz, Gazi University - TR

Prof. Dr. Omer Eyercioglu, Gaziantep University - TR

Prof Dr Rahmi Unal, Gazi University - TR

Prof. Dr. Serdar Salman, National Defense University - TR

Prof. Dr. Suleyman Can Kurnaz, Sakarya University - TR

Prof Dr Ugur Cem Hasar, Gaziantep University - TR

Prof. Dr. Yahya Bozkurt, Marmara University - TR

Assist Prof Dr Ali Yasar, Selcuk University - TR

Assist Prof Dr Aziz Baris Basyigit, Kirikkale University - TR

Assist Prof Dr Ilker Ali Ozkan, Selcuk University - TR

Assist Prof Dr Murat Koklu, Selcuk University - TR

Assist Prof Dr Yusuf Yilmaz, Gaziantep University - TR

Dr. Engin Ergul, Dokuz Eylul University - TR

#### **Scientific Committee (International Committee)**

Prof Dr Andrey Tsarkov, Moscow State Technical University - RU

Prof. Dr. Bekir Sami Yilbas, King Fahd University of Petroleum and Minerals - SA

Prof Dr Fabienne Delaunois, University Of Mons - BE

Prof Dr Hazman Seli, University Of Sains Malaysia - MY

Prof Dr Heiba Zein, Ain Shams University - EG

Prof Dr Marwan K Khraisheh, Hamad Bin Khalifa University - QA

Prof. Dr. Mohamed Elsayed Yahia, International University of Sarajevo - BA

Prof. Dr. Muammer Koç, Hamad Bin Khalifa University - QA

Prof. Dr. Ramazan Asmatulu, Wichita State University - US

Prof. Dr. Senay Simsek, North Dakota State University - US

Prof Dr Tai Cheng Chen, Institute Of Nuclear Energy Research Iner - TW

Prof Dr Vincent Ji, University Of Paris Sud - FR

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

Prof. Dr. Yusuf Ozturk, San Diego State University - US

Prof Dr Zakaria Boumerzoug, University Of Biskra - DZ

Assoc Prof Dr Ahmad Azmin Mohamad, University Of Sains Malaysia - MY

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

Assoc Prof Dr Mikhail E Semenov, Tomsk Polytechnic University - RU

Assist Prof Dr Faten Adel Ismael Chaqmaqchee, Koya University - IQ

Assist Prof Dr Nurettin Sezer, Hamad Bin Khalifa University Hbku - QA

Assist Prof Dr Sami G Al Ghamdi, Hamad Bin Khalifa University Hbku - QA

Assist Prof Dr Shoukat Alim Khan, Hamad Bin Khalifa University Hbku - QA

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



He was born in 1958

B.S., Gazi University, Faculty, 1983

MSc, Gazi University Graduate School of Natural and Applied Sciences is Gazi University, 1992

PhD, Firat University Graduate School of Natural and Applied Sciences is Gazi University, 1996

Asist Prof. at Gazi University Technical Education Faculty, 1997

Assoc. Prof. at Gazi University Technical Education Faculty, 1999

Full Prof. at Gazi University Technical Education Faculty, 2005

Full Prof. at Gazi University Technological Faculty, Metallurgical and Materials Eng. Dep. 2011-...

He Founded Turkish Welding Society in 2001 ( President of Welding Technology Society since 2001)

He founded Center for Welding and Joining Technologies in Gazi University (Director science 2013)

He has 5 book about welding Technologies and has more than hundred international published article.

He is organising periodically every two year International Conference on Welding Technologies and Exhibition (ICWET).



**Undergraduate:**

1st Oct 1984 - 30th Jun 1988 - Aberdeen University, Scotland

**Postgraduate:**

1st Sep 1988 - 30th Jun 1994 - University of Western Ontario, Canada

### **AWARDS AND SCHOLARSHIPS:**

**Undergraduate:**

Coutts Prize for Chemistry in 1985-86 & 86-87.

Forbes Prize for Physical Chemistry in 1987-88.

**Postgraduate:**

Ontario International Fee Waiver 1988-1994.

### **WORK EXPERIENCE:**

\* 1st Jul 1994 - 31st Mar 1997

Postdoctoral Fellow - University of Western Ontario (Prof. Martin J. Stillman)

\* 1st Apr 1997 - 31st Mar 1999

Research Associate - University of Western Ontario (Prof. Emeritus J. R. Bolton)

\* 1st Apr 1999 - 12th Oct 2004

Research Associate - University of Western Ontario (Prof. Martin J. Stillman)

### **RESEARCH EXPERIENCE:**

MCD spectroscopy, Theoretical calculations, Electrochemistry, Photochemistry, CD spectroscopy, Emission spectroscopy, EPR spectroscopy, Software Development, Analytical Chemistry.

PROGRAM OVERVIEW		
<b>05.11.2020 - THURSDAY</b>		
09:00 – 10:00	Registration	Conference Registration Desk
10:00 – 10:30	Opening Ceremony Plenary Sessions	Gaziantep University - Ataturk Cultural Center - Main Hall
10:30 – 12:00	Invited Speakers Session	Gaziantep University - Ataturk Cultural Center – Main Hall
13:00 – 14:30	Session I	Gaziantep University - Ataturk Cultural Center - Hall 1 - Hall 2
14:30 – 14:45	Coffee Break	Gaziantep University - Ataturk Cultural Center
14:45 – 16:15	Session II	Gaziantep University - Ataturk Cultural Center - Hall 1 - Hall 2
16:15 – 16:30	Coffee Break	Gaziantep University - Ataturk Cultural Center
16:30 – 18:00	Session III	Gaziantep University - Ataturk Cultural Center - Hall 1 - Hall 2
<b>06.11.2020 - FRIDAY</b>		
09:00 – 10:15	Session IV	Gaziantep University - Ataturk Cultural Center - Hall 1 - Hall 2
10:15 – 10:30	Coffee Break	Gaziantep University - Ataturk Cultural Center
10:30 – 12:00	Session V	Gaziantep University - Ataturk Cultural Center - Hall 1 - Hall 2
13:15 – 14:45	Session VI	Gaziantep University - Ataturk Cultural Center - Hall 1 - Hall 2
14:45 – 15:00	Coffee Break	Gaziantep University - Ataturk Cultural Center
15:00 – 17:00	Session VII Special R&D Session	Online Attendance

## PLENARY SESSION

05.11.2020 – Thursday (10:00 – 10:30)	
OPENING SPEECHES	
<a href="https://zoom.us/j/92208972165">https://zoom.us/j/92208972165</a>	Face-to-Face & ONLINE
MAIN HALL	Prof. Dr. Necip Fazıl YILMAZ
	Prof. Dr. Mustafa GÜNAL

## INVITED SPEAKERS SESSION

05.11.2020 – Thursday (10:30 – 12:00)	
Chair: Prof. Dr. Necip Fazıl YILMAZ	
<a href="https://zoom.us/j/92208972165">https://zoom.us/j/92208972165</a>	ONLINE
MAIN HALL	PROF. DR. ADEM KURT METALURJİ VE SOSYOLOJİ ARASINDAKİ İLİŞKİLER
	PROF. DR. JOHN MACK SN IV PORPHYRINS FOR PHOTODYNAMIC THERAPY PROGRESS TO DATE AND FUTURE PERSPECTIVES

## SESSION I

05.11.2020 – Thursday (13:00 – 14:30)

Chair: Prof. Dr. Enver ATİK

<https://zoom.us/j/93124616671>

ONLINE

HALL 1

TICMET20-0040: EFFECT OF BUILT ORIENTATION ON MECHANICAL PROPERTIES OF ADDITIVELY MANUFACTURED Ti 6Al 4V PARTS AKIN DAGKOLU, AHMET ALPTUG TANRIKULU, HAKAN YAVAS, OGUZHAN YILMAZ
TICMET20-0061: THERMOMECHANICAL SIMULATION ANALYSIS OF INCONEL 718 ALLOY PARTS PRODUCED BY ADDITIVE MANUFACTURING MUSTAFA KAS, OGUZHAN YILMAZ, CAN GULER, TANER KARAGOZ, METIN CALLI
TICMET20-0043: INVESTIGATION OF MAGNETIC PROPERTIES OF STRONTIUM HEXAFERRITE PRODUCED BY MECHANOCHEMICAL SYTHESIS KURSAT ICIN, DAMLA DILARA CAKIL, FURKAN ALPTEKIN, SULTAN OZTURK
TICMET20-0042: STRUCTURE AND PROPERTIES OF CUAL10Ni5Fe4 ALLOY POWDERS PRODUCED BY MELT SPINNING COMPARED WITH INGOT SEFA EMRE SUNBUL, KURSAT ICIN, ABDURRAHIM METOGLU, DAMLA DILARA CAKIL, FURKAN ALPTEKIN, SULTAN OZTURK
TICMET20-0041: PRODUCTION OF COPPER ADDITIONAL IRON MATRIX FUNCTIONAL GRADED MATERIALS AND ANALYSIS OF MECHANICAL PROPERTIES BY POWDER METALLURGY METHOD MEHMET YILDIRIM, ENVER ATIK
TICMET20-0049: HARD ANODIC OXIDATION OF A356 ALUMINUM ALLOY AZIZ BARIS BASYIGIT, HALIL IBRAHIM KURT

HALL 2

05.11.2020 – Thursday (13:00 – 14:30)	
Chair: Prof. Dr. Ömer EYERCİOĞLU	
<a href="https://zoom.us/j/96030807110">https://zoom.us/j/96030807110</a>	Face-to-Face (Online Available)
TICMET20-0044: SINGLE BEAD PROPERTY OF SHORT FIBER CARBON REINFORCED ABS MATERIAL PRODUCED WITH LARGE SCALE ADDITIVE MANUFACTURING LSAM OMER EYERCIOGLU, ENGIN TEK, MEHMET ALADAG	
TICMET20-0068: BEHAVIOUR OF ALUMINIUM ALLOYS UNDER THE NORMAL AND OBLIQUE BALLISTIC LOADS MUHAMMET DENIZ, EYUP YETER, MEHMET HANIFI DOGRU, EDIP OZTURK	
TICMET20-0076: MODELLING AND SIMULATION OF ELASTIC PENDULUM EDIP OZTURK, BURAK SAHIN, KURSAD GOV	
TICMET20-0030: USING HARD TEMPLATE SYNTHESIZED HOLLOW SILICA NANOSPHERES VIA ECONOMIC METHOD EDA DEMIR, OMER GULER, OYKUM BASGOZ, KAZIM BUGRA GURBUZ, SEVAL HALE GULER	
TICMET20-0031: INVESTIGATION ON THE EFFECT OF ECAP PROCESS FOR GRAPHENE REINFORCED COPPER MATRIX NANOCOMPOSITES ONER KAGAN OZER, HASAN SAFA, OYKUM BASGOZ, ERTAN EVIN	
TICMET20-0018: A STUDY OF RESIDUAL STRESS MEASUREMENT OF AEROSPACE MATERIALS BURAK SAHIN, KURSAD GOV	

## SESSION II

05.11.2020 – Thursday (14:45 – 16:15)	
Chair: Assoc. Prof. Dr. Metin BEDİR	
<a href="https://zoom.us/j/96144539658">https://zoom.us/j/96144539658</a>	ONLINE
HALL 1	TICMET20-0006: EFFECTS OF BLEND RATIO AND SPINNING TECHNOLOGY ON TRIBOLOGICAL PROPERTIES OF POLYESTER REGENERATED CELLULOSIC FIBER BLENDED YARNS GONCA BALCI KILIC, GAYE KAYA, HATICE NIDA CIVAN, HATICE KUBRA KAYNAK, OSMAN YAYLA
	TICMET20-0007: INVESTIGATION OF THE EFFECT OF DIFFERENT BASIS WEIGHT BLEND RATIO AND PATTERN ON PHYSICAL AND MECHANICAL PROPERTIES OF WET WIPES EBRU CELIKTEN, EYUP ALI SATIL, YUNUS AYCAN, TULIN KAYA NACARKAHYA
	TICMET20-0008: OPTIMIZATION OF YARN QUALITY PARAMETERS OF HEMP FIBER BLENDED YARNS PRODUCED BY RING SPINNING SYSTEM EYUP ALI SATIL, EBRU CELIKTEN, KUBILAY OZDEN, TULIN KAYA NACARKAHYA
	TICMET20-0012: DESIGN OF NOVEL COMPACT THREE ROVING SPINNING TECHNOLOGY MURAT DEMIR, MUSA KILIC, SERDAR SAYIN, ZEKI KIRAL, FURKAN BALDUK, KIYMET KUBRA DENGE
	TICMET20-0051: SUSTAINABILITY APPROACH IN PRODUCT DESIGN IN TEXTILE SEDA YAPICI SUNAC, ZULEYHA DEGIRMENCI

05.11.2020 – Thursday (14:45 – 16:15)	
Chair: Prof. Dr. Uğur Cem HASAR	
<a href="https://zoom.us/j/97962796165">https://zoom.us/j/97962796165</a>	Face-to-Face (Online Available)
HALL 2	TICMET20-0072: VALIDATION OF MATERIAL MODEL AND MECHANISM OF MATERIAL REMOVAL IN ABRASIVE FLOW MACHINING ADEM AKSOY, OMER EYERCOGLU, KURSAD GOV
	TICMET20-0038: ENERGY AND EXERGY ANALYSIS OF A FLUIDIZED BED SEWAGE SLUDGE INCINERATION PLANT AYSEGUL ABUSOGLU, NECDET SUAT ATAY, ALPEREN TOZLU
	TICMET20-0058: MODELLING OF ENERGY EFFICIENCY IN ELECTRICAL MOTORS USING THE FINITE ELEMENT METHOD NECIP FAZIL YILMAZ, YUSUF DULKADIR, MUSA YILMAZ, MAHMUT FURKAN KALKAN
	TICMET20-0027: ZINC OXIDE BASED METAMATERIAL ABSORBER FOR SOLAR CELL APPLICATIONS HUSEYIN KORKMAZ, UGUR CEM HASAR
	TICMET20-0014: ADDITIVE MANUFACTURING OF CONTINUOUS FIBER REINFORCED COMPOSITES WITH HIGH MECHANICAL PROPERTIES FROM PLA THERMOPLASTIC RESIN BY FUSED DEPOSITION METHOD REcep GUMruk, ALTUG USUN
	TICMET20-0021: WIDE BAND METAMATERIAL ABSORBER WITH LUMPED ELEMENT HUSEYIN KORKMAZ, UGUR CEM HASAR

### SESSION III

05.11.2020 – Thursday (16:30 – 18:00)

Chair: Assist. Prof. Dr. Abdulcabbar YAVUZ

<https://zoom.us/j/91779697225>

ONLINE

HALL 1

TICMET20-0060: FILIT KULLANIMI ILE URETILEN IKI IPLIK VE UC IPLIK ORME KUMASLARIN HAVA GECIRGENLIGININ INCELENMESI MUSTAFA GURKAN BEKAR, HATICE KUBRA KAYNAK, YASEMIN KORKMAZ
TICMET20-0009: VORTEKS EGIRME SISTEMİNDE FARKLI OZ VE SARGI LIFLERİNİN KULLANILMASIYLA ELDE EDİLEN IPLIKLERİN KALITE PARAMETRELERİNİN İNCELENMESİ KUBILAY OZDEN, EYUP ALI SATIL SATIL, HADI SAMET MUMCU, HATICE NIDA CIVAN, TULIN KAYA NACARKAHYA
TICMET20-0062: POLYESTER HAV IPLIKLERİNDE FILAMENT INCELİGINİN HALİLARDА STATİK YÜKLEMЕ SONRASI REZİLYANS PERFORMANSINA ETKİSİNİN İNCELENMESİ GÜLBİN FİDAN, YASEMIN KORKMAZ, HALİL İBRAHİM CELİK
TICMET20-0063: KOMPOZİT MALZEMELERDE OLUSTURULAN YAPAY KUSURLARIN ULTRASONİK C TARAMA TEKNİKLERİ İLE TAHİRİATSIZ MUAYENESİ BURAK OZTAS, İBRAHİM HALİL CELİK, YASEMIN KORKMAZ
TICMET20-0073: KOMPLEKS KOASERVASYON YONTEMİ İLE OKALİPTUS YAGI İCEREN MIKROKAPSÜLLER GELİŞTİRİLMESİ VE TEKSTİL YUZEYLERİNE UYGULANMASI ZEYNEP HAYTA BAŞKAN, GAYE KAYA
TICMET20-0056: DONER KOLLU TEMASSIZ STREC SARMA MAKİNASI TASARIMI NECİP FAZİL YILMAZ, ERSİN OZPOLAT, VEDAT TEMİZ

HALL 2

05.11.2020 – Thursday (16:30 – 18:00)
Chair: Prof. Dr. Abdulkadir ÇEVİK
<a href="https://zoom.us/j/91402949904">https://zoom.us/j/91402949904</a>
ONLINE
TICMET20-0003: EFFECT OF CEMENT BASED GROUT ON DIFFERENT WATER CEMENT RATIOS ON UNIT SOCKET RESISTANCE FOR GAZIANTEP BASALT STONE HASAN BOZKURT, MUHAMMET CİNAR
TICMET20-0019: WHAT IS THE POSSIBILITY OF USING METAL COMPLEXES OF PHENANTHROLINE IN DYE SENSITIZED SOLAR CELLS KAYODE SANUSI, YUSUF YILMAZ
TICMET20-0020: EFFECTS OF SUBSTITUENTS ON THE ELECTRONIC PROPERTIES OF SELECTED PORPHYRINOIDS FOR DYE SENSITIZED SOLAR CELLS YUSUF YILMAZ, KAYODE SANUSI
TICMET20-0029: EFFECT OF NANO SILICA ON THE IMPACT ENERGY OF SELF COMPACTING GEOPOLYMER CONCRETE NECİP ALTAY EREN, ABDULKADIR CEVİK, RADHWAN ALZEEBAREE
TICMET20-0034: USE OF WASTE MATERIALS FOR ROAD PAVEMENT DESIGN AKTAN OZSOY, ALI FIRAT CABALAR
TICMET20-0078: A DAILY DIET PLANNING FOR DIABET PATIENTS SERAP ULUSAM SEKİNER, ESRA CEYLAN

## SESSION IV

06.11.2020 – Friday (09:00 – 10:15)

Chair: Prof. Dr. Metin BEDİR

<https://zoom.us/j/96507349862>

ONLINE

HALL 1

TICMET20-0022: PRODUCTION OF METAL OXIDE NANOSTRUCTURES AS ELECTRODES FOR LITHIUM ION BATTERIES EVREN EGESOY, OZLEM KAP, MESUT ER, AHMET ATAC, NESRIN HORZUM POLAT
TICMET20-0045: DOUBLE CATION DOPED EU CE SINOITE PHOSPHORS FOR WHITE LIGHT EMITTING DIODES ARIFE YURDAKUL
TICMET20-0046: IMPROVEMENT OF WHITE LIGHT EMISSION IN NOVEL DOUBLE CATION DOPED SINOITE RESI <sub>2</sub> N <sub>2</sub> O RE YB CE SYSTEMS HILMI YURDAKUL
TICMET20-0057: COMPARATIVE ANALYSIS OF THE SERVICES PROVIDED BY GSM OPERATORS WITH MOBILE INTERNET IN TURKEY BUSRA SAVCILI, ALPEKIN DURMUSOGLU
TICMET20-0036: OBTAINING THE ADDITIVE MANUFACTURING PROCESS PARAMETERS USING RESPONSE SURFACE BASED OPTIMIZATION METHOD FAHRI MURAT, IRFAN KAYMAZ, ABDULLAH TAHIR SENSOY, ISMAIL HAKKI KORKMAZ
TICMET20-0067: DEVELOPMENT OF PROCESS PARAMETERS OF HYBRID WIRE ARC ADDITIVE MANUFACTURING M BAKIR AFFAN, OMER EYERCIOGLU
TICMET20-0033: EXPERIMENTAL AND THEORETICAL EXAMINATION OF MATERIAL PROPERTIES OF LIGAMENT STRUCTURE ISMAIL HAKKI KORKMAZ
TICMET20-0016: GRAPHENE BASED THERMOELECTRIC MATERIALS AHMED ABDALA, FIZZA USMANI
TICMET20-0079: CRITICAL REVIEW ON 3DP CONCRETE TRENDS NEEDS AND RESEARCH RECOMMENDATIONS ANS AL RASHID, SHOUKAT ALIM KHAN, SAMI G AL GHAMDHI, MUAMMER KOC
TICMET20-0024: LEVY TYPE BOUNDARY FOURIER ANALYSIS OF THIN CROSS PLY LAMINATED PLATES ILKE ALGUL, AHMET SINAN OKTEM
TICMET20-0080: PERFORMANCE OF METALS CERAMIC AND CARBON BASED NANOFLUID IN NUCLEATE POOL BOILING HEAT TRANSFER SHOUKAT ALIM KHAN, MUAMMER KOC, SAMI G AL GHAMDHI, SHOUKAT ALIM KHAN

HALL 2

06.11.2020 – Friday (09:00 – 10:15)

Chair: Assoc. Prof. Dr. Halil İbrahim KURT

<https://zoom.us/j/91273304640>

Face-to-Face (Online Available)

TICMET20-0039: HIJYEN URUNLERINDE KULLANIMA UYGUN POLIOLEFIN VE AMORF POLYALFAOLEFIN APAO BAZLI SICAKTA ERIYEN BASINCA DUYARLI VE DARBEYI ABSORPLAYABILEN TUTKAL GELISTIRILMESI CELAL SOYLEMEZ
TICMET20-0054: INVESTIGATION OF THE EFFECT OF PARAMETERES ON KERF ANGLE AND SURFACE QUALITY OF PLASMA ARC CUTTING NECIP FAZIL YILMAZ, AHMET YAREN YAROGLU, MAHMUT FURKAN KALKAN, HALIL IBRAHIM KURT
TICMET20-0074: ALUMINYUM MATRISLI KOMPOZİTLERDE İSİL İŞLEMİN ASINMA AGIRLIK KAYBINA ETKİSİ ENGİN ERGÜL, HALİL İBRAHİM KURT, MURAT ODUNCUOĞLU, CAN CİVI, GOKHAN EYİCI
TICMET20-0055: COMPUTER SIMULATION OF A NEW METHOD APPLIED TO PREVENT WELD DECAY IN TIG WELDING MAHMUT FURKAN KALKAN, MUSA YILMAZ, NECİP FAZİL YILMAZ
TICMET20-0059: A STUDY OF NUMERICAL ANALYSIS ON ARC STUD WELDING NECİP FAZİL YILMAZ, SEVAL POLAT, MAHMUT FURKAN KALKAN, MUSA YILMAZ
TICMET20-0053: INVESTIGATION OF MATERIAL SURFACE QUALITY IN DRY AND WATER ASSISTED CUTTING WITH FIBER LASER MUHAMMED PAKSOY, MAHMUT FURKAN KALKAN, NECİP FAZİL YILMAZ, HAKAN CANDAR

## SESSION V

06.11.2020 – Friday (10:30 – 12:00)

Chair: Prof. Dr. Ömer EYERCİOĞLU

<https://zoom.us/j/91235214001>

ONLINE

HALL 1

TICMET20-0081: SCANNING PROBE MICROSCOPE AND ITS APPLICATIONS FOR MATERIAL SCIENCE

HIDEO NAKAJIMA

TICMET20-0032: MODELING AND OPTIMUM PARAMETERS OF CO2 LASER MIG HYBRID WELDING PROCESS

RECEP TURKOGLU, ELIF GULTURK, LEVENT AYDIN

TICMET20-0064: INVESTIGATION OF THE HEAT AFFECTED ZONE BY THERMAL CYCLE SIMULATION TECHNIQUE

ZAKARIA BOUMERZOUG, FABIENNE DELAUNOIS

TICMET20-0065: SYNTHESIZING AND WELDING OF ALUMINUM COMPOSITE

WAFA MELIK, ZAKARIA BOUMERZOUG, FABIENNE DELAUNOIS

TICMET20-0048: SINTERING OF IRON POWDERS BY SPOT RESISTANCE HEATING TECHNIQUE

ADEM KURT, FAHRETTIN ATAR

HALL 2

06.11.2020 – Friday (10:30 – 12:00)

Chair: Assoc. Prof. Dr. Tolga BOZDANA

<https://zoom.us/j/91618307115>

Face-to-Face (Online Available)

TICMET20-0004: GEOMETRIC OPTIMIZATION OF A RIGHT ANGLE BRACKET TO MAXIMIZE THE FATIGUE LIFE USING TAGUCHI METHOD

MEHMET SEFA GUMUS, VEYSEL ALVER, METE KALYONCU

TICMET20-0028: LASER POLISHING APPLICATIONS ON THE SURFACE OF THE Ti 6Al 4V PART PRODUCED BY ADDITIVE MANUFACTURING

SAFAK NESLİ, OGUZHAN YILMAZ

TICMET20-0050: OVERVIEW ON HIP JOINT FORGING TECHNOLOGY OF Ti ALLOYS

OMER EYERCIOĞLU, AHMAD LUTFI MANLA

TICMET20-0047: A COMPARATIVE STUDY ON NUMERICAL AND EXPERIMENTAL ANALYSES OF A 3 D SPOUTED BED

EMRAH OZAHİ, ARIF CUTAY, ALPEREN TOZLU

TICMET20-0015: MODELLING AND SIMULATION OF SPHERICAL FLIGHT SIMULATOR UNDER STATIC LOADING

EDIP OZTURK, KURSAD GOV, BURAK SAHİN

TICMET20-0052: ANALYSIS OF CONCEPT UNMANNED AERIAL VEHICLE IN TERMS OF WING ANGLE

MEHMET HANIFI DOGRU, RESUL DEMİR, EDIP OZTURK

## SESSION VI

06.11.2020 – Friday (13:15 – 14:45)

**Chair: Assoc. Prof. Dr. Alptekin DURMUŞOĞLU**

<https://zoom.us/j/91690840882>

**ONLINE**

**HALL 1**

TICMET20-0001: CAM LAMINAT ALUMINYUM TAKVIYELI EPOKSİNİN GLARE OZEL GEOMETRİLİ MATKAPLARLA DELINMESİ ALI RIZA MOTORCU, ERGUN EKİCİ, ENSAR YILDIRIM
TICMET20-0002: CFRP AL2024 METALIK YIGINLARIN FARKLI GEOMETRİLİ MATKAPLARLA DELINMESİNDE DELAMINASYON FAKTORUNUN OPTIMIZASYONU ERGUN EKİCİ, ALI RIZA MOTORCU
TICMET20-0075: AGIR VASITA HAVA KOMPRESORLERİNDE PISTON SEGMANLARINDAN YAG VERME PROBLEMLERİNİN RASTGELE ORMAN ALGORITMASI İLE TAHMİNİ EMRE GÜL, METE KALYONCU, GOKSELHAN KULA
TICMET20-0005: GEZER KOPRULU VINC KONSTRUKSIYONUNUN ARI ALGORITMASI KULLANILARAK OPTIMUM TASARIMI SAMİ YESİLBEYLİ, MAHMUT CİMEN, METE KALYONCU
TICMET20-0035: VERİ MADENCİLİĞİ YONTEMLERİ İLE TAM KAN SAYIMI SONUCLARINDAN COVID 19 TEST SONUCLARININ TAHMİNİ AYBUKE BOZKURT, AYŞE MERVE ACILAR
TICMET20-0037: MESLEKİ VE TEKNİK EĞİTİM KURUMLARINDA UYGULANAN ÖZDEĞERLENDİRME VERİLERİNİN ANALİZİ İÇİN ORNEK BİR CALISMA HUSEYİN ERCİN, AYŞE MERVE ACILAR

06.11.2020 – Friday (13:15 – 14:45)

**Chair: Assoc. Prof. Dr. Züleyha DEĞİRMENCI**

<https://zoom.us/j/99359002966>

**Face-to-Face (Online Available)**

**HALL 2**

TICMET20-0071: ZINC BASED ALLOY OXIDE FORMED BY THERMAL OXIDATION FOR ENERGY MATERIALS ABDULCABBAR YAVUZ
TICMET20-0070: THE CORROSION EFFECT OF CUO AND ZNO FORMATIONS ON BRASS SURFACE ABDULCABBAR YAVUZ, NECİP FAZİL YILMAZ, MAHMUT FURKAN KALKAN
TICMET20-0025: EROSIVE WEAR PERFORMANCE OF Ti 6Al 4V COATED WITH CERAMIC VIA MICRO ARC OXIDATION SALIM LEVENT AKTÜG, DOĞAN ACAR, KEMAL KORKMAZ, SALIH DURDU, OMER NECATİ CORA
TICMET20-0011: ZNO NANOSTRUCTURE REINFORCED DENTAL COMPOSITES İLKNUR TAS, DERYA KAPUSUZ
TICMET20-0013: INTERPRETATION OF PHOTOCATALYTIC PERFORMANCE AND PROTEIN ADSORBANCE OF POLYCAPROLACTONE POTASSIUM TITANATE HYBRIDS TARIK NEYAL, DERYA KAPUSUZ, NECİP FAZİL YILMAZ
TICMET20-0026: THE STATUS QUO AND CHALLENGES FOR LI ION BATTERY TECHNOLOGY ADİL FAROOQ, OMER NECATİ CORA

## SESSION VII

06.11.2020 – Friday (15:00 – 17:00)

**SPECIAL R&D SESSION (AR-GE ÖZEL OTURUMU)**

[https://zoom.us/webinar/register/WN\\_Da-oMMHjST2YsolH7FulKQ](https://zoom.us/webinar/register/WN_Da-oMMHjST2YsolH7FulKQ)

**ONLINE**

**MAIN HALL**

MODERATOR: PROF.DR. NECİP FAZİL YILMAZ - GAZİANTEP ÜNİVERSİTESİ
COŞKUN ÇEKİCİLER – SANAYİ VE TEKNOLOJİ BAKANLIĞI, ARGE TEŞVİKLERİ GENEL MÜDÜR YARDIMCISI
DR. HASAN SELÇUK SELEK – TÜBİTAK/TEYDEB BAŞKAN YARDIMCISI
DR. RECEP ERDEM ERKUL – TÜRKİYE BİLİŞİM VAKFI İCRA KURULU ÜYESİ, GİRİŞİMCİ & PROFESYONEL YÖNETİCİ



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