

ICAMT'17 SYMPOSIUM PROGRAMME

DAY 1	25 OCTOBER WEDNESDAY	LOCATION	
09.30-10.30	Registration	Safranbolu Fethi Toker Faculty Of Art And Design	
10.30-10.35	Turkish National Anthem		
10.35-10.50	Presentation of Karabuk University		
10.50-11.15	Opening Speech and Speech of Protocol		
11.15-11.45	Keynote Speech Ercüment UNAL CEO at KARDEMIR		
11.45-12.15	Coffee Break		
12.15-12.45	Keynote Speech Prof. Dr. Ali KALKANLI Middle East Technical University		
12.45-13.30	Lunch		
13.30-14.00	Keynote Speech Prof. Dr. Fahrettin ÖZTURK Vice General Manager of TAI		
14.00-14.30	Keynote Speech Prof. Dr. Zafer EVIS Middle East Technical University		
14.30-15.00	Presentations of Sponsor Companies		
15.00-15.30	Coffee Break		
15.30-17.00	Oral Presentations Session 1		Poster Presentations
18.30-19.30	Gala Dinner		

DAY 2	26 OCTOBER THURSDAY	LOCATION
09.30-11.00	Oral Presentations Session 2	Safranbolu Fethi Toker Faculty Of Art And Design
11.00-11.30	Coffee Break	
11.30-13.00	Oral Presentations Session 3	
13.00-14.00	Lunch	
14.00-15.30	Oral Presentations Session 4	
15.30-16.00	Coffee Break	
16.00-17.30	Oral Presentations Session 5	

DAY 3	27 OCTOBER FRIDAY	LOCATION
09.30-11.00	Oral Presentations Session 6	Safranbolu Fethi Toker Faculty Of Art And Design
14.00	Touristic Travel Safranbolu Heritage City, Bulak Mencilis Cave, Safranbolu Glass Terrace	

ORAL PRESENTATIONS

SESSION 1

Parallel Session – Saloon : Advanced Materials - 25.10.17 – 15.30-17.00		
Paper ID	Title	Speaker
25	Graphene/Ceramic Binary Powder Reinforced Aluminum Matrix Composites and Their Characterizations	Mevlüt Gürbüz
63	Production of open cell aluminum foam by vacuum casting method	Talha Sunar
65	Production of shape memory Cu-Zn-Sn alloy	Melik Çetin
37	Enhancement of Mechanical Properties by Coating Co-Doped Hydroxyapatite on Pre-treated Ti6Al4V In Order to Generate New Generation of Implant Coating	Tugce Aktar
79	Effects of zirconium on the mechanical properties and recrystallization behavior of Al-Mg-Si alloy	Fulya Kahrıman
69	Spectroscopic Investigation on Boric Acid Solutions	Tuba Özdemir

Parallel Session – Saloon : Manufacturing Technologies - 25.10.17 – 15.30-17.00		
Paper ID	Title	Speaker
10	Comparison Of The Effect Of Strand Diameters, Providing Beam To Column Connection	Mustafa Kaya
9	Computing Fatigue Life of 400W Wind Turbine Using Finite Element Method	Cem Emeksiz
30	Investigation of the Effect of Vibration Stress Relief Method on Fatigue Life of Welded Joints Working Under Heavy and Variable Loads	Sinem Kaçar
83	Modelling of the reinforced concrete beams with Abaqus finite element software	Mustafa Kaya
21	Effect Of Machining Parameters On Surface Roughness In Machining Alvar 14 Steel With Electrical Discharge Machining	Metin Zeyveli
6	Investigation of Solutions to Micro and Nano Sized Problems in Preparation of Silicon Substrates Produced for Electronic Applications	Erhan Kayabasi
33	Experimental Study on Ultrasonic Assisted Drilling of AA6061-T6	Eser Yarar

SESSION 2

Parallel Session – Saloon : Advanced Materials - 26.10.17 – 09.30-11.00		
Paper ID	Title	Speaker
26	The Effects of Aging and Mg Ratio on the Mechanical Properties of Al-Si Alloys that Contain 0,20% and 0,40% Mg	Halil Eren
17	Investigation of dissimilar laser welded joint properties of TRIP and DP steels	Cem Kadir Ovali
40	Comparison of Impact Properties of Recycled and Commercially Available Ti-6Al-4V Alloy	Mustafa Ustundag
77	Complex permittivity, complex permeability and microwave absorption properties of BaTiO ₃ /PVB composites	Yuksel Akinay
84	Investigation of Wear Behavior of NiCr Coatings Produced with Atmospheric Plasma Spraying (APS) and High Velocity Oxygen Fuel (HVOF) Techniques	Mecit Öge
97	Adhesive Wear Behavior of FeCr Slag Coating in Water	Mecit Öge
98	Wear Behavior of APS-Deposited Cr ₂ O ₃ Coating in Aqueous Media	Mecit Öge

Parallel Session – Saloon : Manufacturing Technologies - 26.10.17 – 09.30-11.00		
Paper ID	Title	Speaker
20	The Effect of Surface Roughness on Wettability of Sn-0.7Cu Pb-free Solder Alloy	Okan Uyanık
24	Abrasive wear properties of PP/TPU/PP-g-MA polymer blends	Soner Savaş
27	Numerical and Experimental Comparison of Thermal Behaviors and Performances of The Monoblock Heat Exchanger Produced By Laser Sintering Method and Brazed Plate Heat Exchanger	Mehmet Kan
28	Investigation of Reusability of Worn Plasma Cutting Nozzles with Silver Based Solder Filler	Özkan Eski
29	The Effect of Boron Carbide Amount on Microstructure and Electrical Properties of Cu-B ₄ C Composite Materials	Özkan Eski
101	The Effect of Deep Cryogenic treatment on the Roughness of Hastelloy C22 Super Alloy in electrical discharge machining	Engin Nas
102	Surface roughness optimization of EDM process of Hastelloy C22 super alloy	Engin Nas

SESSION 3

Parallel Session – Saloon : Advanced Materials - 26.10.17 – 11.30-13.00		
Paper ID	Title	Speaker
12	Optimization of Surface Roughness, Delamination and Uncut Fiber Factor in the Drilling of CFRP Composites	Ergün Ekici
13	Multi-Objective Optimization of Drilling Parameters in Drilling of Al/10B4C/5Gr Hybrid Composites using Taguchi Based Gray Relational Analysis	Ergün Ekici
14	Drillability of Al/15B4C Composites with Cryogenically Treated Tools: Evaluation of Tool Life, Tool Wear and Surface Roughness	Ergün Ekici
7	Effect of microcapsulated red phosphorus on flame Retardant, thermal and mechanical properties of thermoplastic polyurethane composites filled with Huntite & hydromagnesite mineral	Lemiye Atabek Savaş
76	Investigation of Surface Roughness During the Milling of Carbon Fiber Reinforced Polymers	Derviş Özkan
75	Delamination failure mechanisms that arise during the milling of Carbon Fiber Reinforced Polymers (CFRPs)	Derviş Özkan

Parallel Session – Saloon : Manufacturing Technologies - 26.10.17 – 11.30-13.00		
Paper ID	Title	Speaker
80	The Optimization of Layer Direction and Thickness of Laminate Composite Material with Finite Element Analysis	İsmail Ovalı
68	An Alternative Rapid Prototyping Tooling for Sheet Metal Products	Yiğit Uğurlu
81	Investigation of Wear Properties of Al2024/MgO/Al2O3/Gr Hybrid Composites Fabricated By Hot Pressing Method	Cemal Esen
82	The Effects of High B4C Reinforcement Ratio on the Wear Resistance of AA6061 Matrix Composites Fabricated with Hot Pressing	Cemal Esen
66	The Effect of Mechanization to Work Accidents	Mine Uras
34	Development and Characterization of Anti-Icing Coatings on Window Glasses	Neslihan Başaran
8	The Optimization of PID Controller for Dc-Motor by Using The Modified Particle Swarm Optimization	Aysha Ali

SESSION 4

Parallel Session – Saloon : Advanced Materials - 26.10.17 – 14.00-15.30		
Paper ID	Title	Speaker
3	The Effects of PVC Dust on Permeability of Self-compacting Concrete	Mohammed Aljumaili
4	Durability Effects of Metekaolin and Calcined Kaolin on Self-Compacting Concrete	Gözde Şafak Sanağa
78	Synthesis and characterization of pTSA doped Polyaniline	Nursel Karaoglan
43	A case for replacing steel with thermoplastic composites in vehicle 5th door application	Hafize Çelik
32	Glass Mat Reinforced Thermoplastics for Automotive Applications	Hafize Çelik
51	Effect of sintering parameters on microstructural and mechano-thermal properties of pressureless sintered FeCu25 alloys	Mehmet Fahri Sarac
44	Effect of sintering parameters on microstructural, mechanical and thermal properties of pressureless sintered FeCu25 alloys	Mehmet Fahri Sarac

Parallel Session – Saloon : Advanced Materials 2 - 26.10.17 – 14.00-15.30		
Paper ID	Title	Speaker
57	Investigation of corrosion properties of Mg-Ca-Al-Mn alloys via Ca/Al ratio	Alper Incesu
73	Karbon Fiber Takviyeli Plastik (KFTP) Kompozit Malzemenin Aşındırıcılı Su Jeti ile Delinmesi Sonucu Oluşan Delaminasyon Hasarının İncelenmesi	Meltem Altın Karataş
74	Karbon Fiber Takviyeli Plastik (KFTP) Kompozit Malzemenin Aşındırıcılı Su Jeti ile Delinmesinde Yüzey Pürüzlülüğünün İncelenmesi	Meltem Altın Karataş
38	The effect of La and Y addition on microstructure and mechanical properties of high pressure die cast Mg-3Al-3Sn-1Sr alloy	Güven Yarkadaş
95	Composite Based Compression Tests Used in Aviation Industry and Comparison of These Materials	Muharrem İlbeyi Incedere
99	Investigation of Wear Performance of Al ₂ O ₃ Ceramic Coating Under Dry and Aqueous Conditions	Mecit Öge
100	Effect of Sliding Speed on Adhesive Wear Performance of Ceramic Coatings with Oxide Content	Mecit Öge

SESSION 5

Parallel Session – Saloon : Advanced Materials - 26.10.17 – 16.00-17.30		
Paper ID	Title	Speaker
15	Otomotivde Kullanılan Ultra Yüksek Mukavemetli Sac Metal Malzemelerin Ilık Şekillendirilmesinde Dinamik Deformasyon Yaşlanması (DSA) Oluşum Sıcaklık Aralığının Tespiti	Nuri Şen
16	Otomotivde Kullanılan Ultra Yüksek Mukavemetli Sac Metal Malzemelerin Ilık Şekillendirilmesinde Mikro Yapı Ve Sertlik Değişimi	Nuri Şen
52	The Wear Properties of Different Coatings Materials at Elevated Temperature	Levent Kara
35	SS201 ve SS304 Paslanmaz Malzemelerin Korozyon Dayanımı Kıyaslanması	Aysu Akilli
46	Isotope effect in Bi based high temperature superconductors	Iman Askerzade
47	Optical properties of (Cu, Al, In)-doped SnO ₂ films grown by spray method	Sibel Gürakar

Parallel Session – Saloon : Advanced Materials 2 - 26.10.17 – 16.00-17.30		
Paper ID	Title	Speaker
85	Effect of Heat Treatment on Corrosion Behaviour of Co-Cr and Ni-Cr Implant Materials Used For Dental Application	Medine Kılınç
87	Corrosion Behavior of AlSi12 Alloy Containing Mg ₂ Si	Engin Çevik
88	The Effect of Mg Addition on the Wear Resistance of AlSi12 Alloy	Engin Çevik
89	The effect of La addition on the Wear Resistance of the Hot Rolled AZ31 Mg Alloy	İsmail Hakkı Kara
90	Investigation of Microstructure and Mechanical Properties of Terminate and Flash Butt Welded Rails	Soner Çetin
91	Investigation of wear characteristics of composite brake material used in rail systems	Orçun Zengin

SESSION 6

Parallel Session – Saloon : Advanced Materials & Manufacturing Technologies - 27.10.17 – 09.30-11.00		
Paper ID	Title	Speaker
55	Advanced High Strength Steels Formability Investigation for Clutch Covers	Mehmet Onur Genç
56	Elastomer Damper Spring Modelling for Automobile Clutch Disc	Mehmet Onur Genç
45	Numerical study of the spectrum of the localized collective excitations in the magnetic superstructures	Rehile Askerbeyli
48	Characterization and In Vitro Bioactivity of Multisubstituted Hydroxyapatite Nanopowders	Ammar Z.Alshemary
67	Preparation and Characterization of Acidic and Basic Pumice Filled Polypropylene Composites	Yasin Kanbur
93	Emission Reduction Technologies - SCR	Tolga Terzioglu
103	The Synthesis of Titanium Carbide Powder by Carbothermal Reduction and Carburizing Method	Okay Çalışkan

POSTER PRESENTATIONS

Poster Hall - 25.10.17 - 15:30-17:00		
Paper ID	Title	Presenter
49	Fabrication of SiC Reinforced Magnesium Matrix Composites by Cold Chamber High Pressure Die Casting Method	Ali Serdar Vanli
50	Influence of colloidal nano-silica on the mechanical, dynamic and non-destructive parameters of recycled aggregate concrete	Ezgi Gürbüz
59	Investigation of Mechanical Properties of Flax/Carbon Fiber Composites	Yalçın Boztoprak
60	Investigation of Mechanical Properties of Flax/Glass Fiber Composites	Yalçın Boztoprak
61	An Investigation into the Use of Fly Ash and TiO ₂ Powder as Fillers in Polyester Composites	Yalçın Boztoprak
62	Investigation of Mechanical Properties of Carbon Fabric-Epoxy Prepreg Composites Having Various Delamination Promoter Layers	Yalçın Boztoprak
64	Preparation of Pt/OMC Catalysts by Different Loading Strategies	Silver Güneş
5	Charpy Impact And Tension Tests Of Two Pipeline Materials At Room And Cryogenic Temperatures	Abdulkarim Alfitouri
11	Graphene Reinforced Magnesium Composites and Its Properties	Emine Özlem Dengiz
23	SOG wafer based silicon strain gages with high withstanding voltages	Ki Beom Kim
22	Hydrogen pressure sensor based on asymmetrical silicon strain gage	Jinwoong Kim
36	FEM analysis and experimental validation of fastener clinching process	Onur Saray
39	Influence of Boron Content on Microstructure and Impact Behavior of ZA-12 Alloy	Aysun Ayday
53	Examination of Flexible Hose on Vehicles	Goksu Gurler
70	Computational and Experimental Investigation of Boric Acid Molecule	Tuba Özdemir
71	Mechanical and Physical Investigation of 3D Printed ABS Polymer Specimens that are Treated with Acetone and Polyester Resins	Feyzi Emrah Başar
72	Investigation of Mechanical Properties of 3D Printed ABS Polymer Gears that are Treated with Acetone and Polyester Resins	Feyzi Emrah Başar
86	Influence of Mg Addition on Corrosion Behavior of Pure Aluminum	Engin Çevik

