

PROGRAM OVERVIEW

23.05.2024 Thursday	
08:00-09:00	Registration/ Engineering Faculty
09:00- 10:00	Opening Speechs Prof. Dr. Uğur KÖKLÜ (Chairman of the Symposium) Necil KURTKAYA (President of Turkish Corrosion Association) Prof. Dr. Mehmet GAVGALI (Rector of Karamanoğlu Mehmetbey Univ.)
10:00-10:30	Invited Speaker Prof. Dr. A. Fuat ÇAKIR <i>Economy of Corrosion</i>
10:30 - 10:45	Coffee Break
OPENING SESSION / Chairman: Prof. Dr. Ali Fuat ÇAKIR	
10:45-11:45	Invited Speaker Prof. Dr. Mustafa ÜRGEN <i>Recent Developments on the Design of Corrosion Resistant Materials and Corrosion Research Tools</i>
	Invited Speaker (Online) Prof. Dr. Mustafa GÜNALTUN <i>Human Role in Corrosion Failures</i>
11:45-13:00	Lunch Break
13:00-13:30	Ceremony in memory of Prof. Dr. İlyas Dehri
13:30-15:00	Oral Presentations (1 st Session) Session A1 and Session B1
15:00-15:20	Coffee Break
15:20-16:40	Oral Presentations (2 nd Session) Session A2, Session B2 and Session C1 (Online)
17:15 - 19:00	Former Municipality Building, Tartanlar Mansion, Aktekke Mosque
19:30 - 21:00	Dinner
24.05.2024 Friday	
09:00-10:20	Oral Presentations (3 rd Session) Session A3 and Session B3
10:00-11:00	Poster Presentations (Poster Session)
10:20-10:40	Coffee Break
10:40-12:00	Oral Presentations (4 th Session) Session A4 and Session B4
12:00-13:30	Lunch Break
13:00-13:30	Corrosion Association internal evaluation meeting with members/ Session A
13:30-15:00	Oral Presentations (5 th Session) Session A5 and Session B5
15:00-15:20	Coffee Break
15:20-16:40	Oral Presentations (6 th Session) Session A6, Session B6, Session C2 (Online)
17:15 - 19:00	Yunus Emre Mosque, Karaman Museum, Primary School Museum Gazi Culture and Arts Center
19:30 - 21:00	Dinner
25.05.2024 Saturday	
10:00-13:00	Manazan Caves, Taşkale Grain Storage, İncesu Cave

PROGRAM of ORAL and POSTER PRESENTATIONS

23.05.2024 Thursday	
Session A1- Chairman: Prof. Dr. Semra Bilgiç	
13:30-15:00	<u>Aleyna Bayatlı</u> Hibrit Akımsız Nikel Bor Kompozit Kaplamaların Yüzey Özelliklerinin İncelenmesi
	<u>Okay Özüpek</u> Yenilikçi Yöntemlerle Estenet Telinin Pvc Kaplanması ve Korozyona Karşı Direncinin İncelenmesi
	<u>Yelda Meyva Zeybek</u> Hızlandırılmış Yaşlandırmanın Termoplastik Elastomerlerle Toklaştırılan Polilaktitin Fiziksel, Kimyasal ve Mekanik Özelliklerine Etkisi
	<u>Sema Çelik</u> Sodyum Sülfat Çözeltilisindeki Yumuşak Çeliğin Korozyon Davranışlarına Varyamin Mavisinin İnhibitör Etkileri
Session B1- Chairman: Prof. Dr. Gözen Bereket	
13:30-15:00	<u>Alpay Gültekin</u> Influence of Heat Treatment on Microstructure and Mechanical Properties of an AISI M50 High-Speed Steel
	<u>Gökhan Gece</u> A theoretical study of N-Acetyl cysteine and D-penicillamine as corrosion inhibitors for copper
	<u>Kübra Nur Kabay</u> Corrosion Between EN-GJS-500-14 Ductile Iron and S355JR Steel
	<u>Ahmet Sait Doğaner</u> The Effect of Surface Roughness and Distance on the Corrosion of Ti64-A357-T6 Galvanic Couples in 3.5% wt NaCl Solution
15:00-15:20	Coffee Break
Session A2- Chairman: Prof. Dr. Birgül Yazıcı	
15:20-17:00	<u>Tuğçe Tüccar</u> Corrosive Effect of Different Microorganisms on Galvanized Steel
	<u>Simge Arkan Özdemir</u> An Overview of Microbiologically Influenced Corrosion: Manganese Oxidizing Bacteria
	<u>Ali Alper Saylan</u> Effects of Atmospheric Corrosion on Steel Structures
	<u>Fevziye Erdem</u> Kumlama Prosesi ile Otomotiv Süspansiyon Burçlarında Kullanılan SAE 1040 Çelik Malzemesinin Korozyon Direncinin Optimize Edilmesi
Session B2- Chairman: Prof. Dr. Nurhan Cansever	
15:20-17:00	<u>Deniz Kaya</u> Çinko Metali İçermeyen Yenilikçi Organik Kaplamalar
	<u>Deniz Kaya</u> Korozyona Karşı Yenilikçi Çinko Yüklemeli Epoksi Astar Teknolojisi
	<u>Recep Arıcı</u> Boru Hatlarında Oluşan Ark Boşalma Etkisinin Monte Carlo Simülasyon Teknikleri ile İyileştirilmesi
	<u>Hiranur Gültekin</u> Yapılarda Kullanılan Modern Eklerin Korozyonu Sonucu Oluşan Bozulmalar: Ankara/Ulus Erken Cumhuriyet Dönemi Yapıları Örneği

Session C1 (Online)- Chairman: Prof. Dr. Mustafa Ürgen	
15:20-16:40	<u>Marina Cabrini (Italy)</u> Effect of microstructure and post-processing heat treatment on the corrosion behavior of aluminum alloys obtained by Laser Powder Bed Fusion
	<u>Abdoulmajid Eslami (Iran)</u> Enhancement of Pipeline Integrity Assessment of Buried Unpiggable Pipelines with Non-Contact Magnetic Gradient Tomography Method (MTM-G)
	<u>Mustafa Günaltun</u> Development of CO2 corrosion in wet gas pipelines
24.05.2024 Friday	
Session A3- Chairman: Prof. Dr. Mehmet Erbil	
09:00-10:20	<u>Cenk Erdogan</u> Effects Of Different Zinc Containing Nanoparticle Doped Polymethylaniline Coatings Against Corrosion and Biofouling
	<u>Ammar Aksoy</u> Time- and space-resolved lattice strain mapping using in-situ X-ray diffraction for understanding hydrogen diffusion kinetics in high-strength steel
	<u>Burçak Avcı</u> Electrochemical Investigations on the pH-dependent Behavior of Titanium/Steel Galvanic Couple
	<u>Kenza Djebari</u> Investigating the Influence of Multiple Deformation Applications on the Corrosion Resistance of ZW21 Biodegradable Alloy for Orthopedic Implants
Session B3- Chairman: Prof. Dr. B. Doğru Mert	
09:00-10:20	<u>Handan Üstükarıcı</u> The Corrosion Performance Under Real Sea (Mediterranean) Conditions of Polyaniline When Synthesised in Different Electrolytes
	<u>Evren Çiçek</u> Nanokompozit İçerikli Yüzey Kaplamaların Korozyon Davranışı
	<u>Gökhan Gece</u> Creatine and creatinine as copper corrosion inhibitors: A DFT study
	<u>Ali Alper Saylan</u> Structural Capacity Degradation of Deteriorating Steel Members
Poster Session	
10:00-11:00	<u>Nabil Mohamed Hamdy (Egypt)</u> Pipeline Coating Integrated System (Case Study)
	<u>Nurhan Cansever</u> TiO2 Tüp Büyütülmüş Ti6Al4V Alaşımının Ringer's Çözeltisindeki Korozyon Davranışı
	<u>Nurhan Cansever</u> Saf Niyobyum ve Titanyumun NaCl ve H2SO4 Çözeltilerindeki Korozyon ve Pasifleşme Davranışlarının İncelenmesi
	<u>Ahmet İnce</u> Karboksilik Asit ve Üre Fonksiyonlu Blok Kopolimerin Sentezi ve Asidik Ortamda Korozyon İnhibitörü Olarak Kullanımının Araştırılması
	<u>Gülşen Akgül</u> Synthesis of a Di-cationic Surfactant that Inhibits Metal Oxidation in Low Carbon Steel in 1.0 M HCl Media

	<p style="text-align: center;"><u>Hatice Can</u> Theoretical Calculations of Potential Eco-friendly Corrosion Inhibitors from Neem Leaf Extract</p>
	<p style="text-align: center;"><u>Evrin Baran Aydın</u> Inhibition Performance of Original Green Vanillin-Derived (E)-2-Methoxy-4-((Morpholinoimino)Methyl)Phenol Schiff Base For Mild Steel Corrosion In HCl Media</p>
10:20-10:40	Coffee Break
Session A4- Chairman: Prof. Dr. Ahmet Çakır	
10:40-12:00	<p style="text-align: center;"><u>Şennur Candan</u> Ortopedik Cerrahi Uygulamalar için AZ31 Mg Alaşımının Ti mikro Alaşımlandırma ile Biyobozunur Özelliğinin Geliştirilmesi</p>
	<p style="text-align: center;"><u>Fevziye Erdem</u> Yüksek Performanslı Kauçuk-Metal Yapışma Sistemleri için ERD 6222 Çeliklerinde Kumlama Prosesinin Korozyon Etkisinin İncelenmesi</p>
	<p style="text-align: center;"><u>Ertuğrul Kaya</u> AZ Serisi Magnezyum Alaşımının Yapay Vücut Sıvısındaki Korozyon Mekanizmalarının Araştırılması</p>
	<p style="text-align: center;"><u>Ertuğrul Kaya</u> Polimerize Risinoleik Asitin Amin Modifikasyonlarının Sentezi ve Asidik ve Bazik Ortamda Korozyon İnhibitörü Olarak Kullanımının Araştırılması</p>
Session B4- Chairman: Prof. Dr. A. Tuncay Özyılmaz	
10:40-12:00	<p style="text-align: center;"><u>Togan Tülüoğlu</u> Investigation of Corrosive Behavior of Magnesium Oxide Nanoparticles in Solar Salt</p>
	<p style="text-align: center;"><u>Hasan Yılmaz</u> Effect of Zn-Ni Coating on Corrosion and Corrosion Fatigue Behavior of AISI 4140 steel</p>
	<p style="text-align: center;"><u>İbrahim Filazi</u> Modelling the Effects of Poly(o-Anisidine) Synthesis Parameters to Corrosion Resistance on ZnNiMo-Coated Cu Surfaces Plated from Varied Mo Salt Concentrations Baths: A Response Surface Methodology Study</p>
	<p style="text-align: center;"><u>Taner Coskun</u> Accelerated Aging in Diluted HCl Environment Influences on the Hardness Behaviours of the CFRP, GFRP and Hybrid Composites</p>
12:00-13:30	Lunch Break
Session A5- Chairman: Prof. Dr. Esra Sungur	
13:30-15:00	<p style="text-align: center;"><u>Begüm Ünveroğlu Abdioğlu</u> Electrochemical Deposition and Corrosion Resistance of Ni-Co Alloys on Zincated AA7075</p>
	<p style="text-align: center;"><u>Simge Yıldız</u> Asidik Bir Ortamda Korozyonun Önlenmesi İçin Doğal ve Yeşil İnhibitör Olarak Diospyros Oleifera Ekstraktının Araştırılması</p>
	<p style="text-align: center;"><u>Simge Yıldız</u> Sürdürülebilir ve Çevre Dostu Helichrysum Arenarium L. Moench Ekstraktının 1 M HCl'de Korozyon İnhibitörü Olarak Kullanılması</p>
	<p style="text-align: center;"><u>Seyhan Toktur</u> Korozyonun Önlenmesinde Güvenilir ve Çevre Dostu Taraxacum Officinale Ekstraktının Kullanımı</p>

Session B5- Chairman: Prof. Dr. Hüsnü Gerengi	
13:30-15:00	<u>Silvana B Dimitrijević (Serbia)</u> Corrosion characteristics of Ag40Cu30Zn30 and Ag25Cu52.5Zn22.5 alloys in natural seawater of Marmara Sea
	<u>Mehmet Topuz</u> Investigation of structural and corrosion characteristics of Ti-matrix biocomposite scaffolds reinforced with hydroxyapatite and ZrO ₂ metal oxide powders
	<u>Mehmet Topuz</u> In-vitro corrosion response of Hydroxyapatite / Halloysite nanotube / Bismuth reinforced poly- (lactic acid) hybrid coatings on biodegradable Magnesium
	<u>Dominika Parasinska (Poland)</u> Application of quartz crystal microbalance and dynamic impedance spectroscopy to the study of copper corrosion inhibitors.
15:00-15:20	Coffee Break
Session A6- Chairman: Prof. Dr. Güray Kılınççeker	
15:20-17:00	<u>Kader Coşkun</u> Maintenance of corroded silos: A case study
	<u>Kader Coşkun</u> Enhancing Corrosion Resistance of St37 Steel Through Centrifuged Hot-dip Galvanized Coatings
	<u>Büşra Dağ</u> A Comparative Study of Mercapto Group Containing Compounds on Corrosion Inhibition of Steel
	<u>Ahmet Çakır</u> Metalik Biyomalzemeler ve Korozyon
Session B6- Chairman: Prof. Dr. Gülfeza Kardaş	
15:20-17:00	<u>Goncagül Aksaray</u> Exploring Usage of Alternative Inhibitors: The Case of Expired Pharmaceutical on Mild Steel
	<u>Evrin Baran Aydın</u> Inhibitory Activity of (E)-4-((4-hydroxyphenylimino)methyl)-2-methoxyphenol Schiff Base on The Corrosion of Mild Steel in 1 M HCl
	<u>Emir Kibar</u> Yumuşak Çeliğin Asit Korozyonunun Önlenmesinde Yeni Sentezlenen Schiff Bazının Etkisi
	<u>Tuba Ünsal</u> Salda Gölü'nden izole edilen sülfat indirgeyen bakteriler (SRB) içeren karışık bakteri kültürü varlığında alüminyum 7075 (AA7075) alaşımının mikrobiyolojik korozyon davranışının incelenmesi
	<u>Hayrettin Karaca</u> Korozyona Uğramış Hibrit GFRP-Çelik Donatılı Betonarme Kirişlerin Eğilme Davranışında Tasarım Etkisi

Session C2-Online Chairman: Prof. Dr. Tunç Tüken

15:20-17:00	<p><u>Zaidi Kaoutar (Morocco)</u> (Oral) The inhibitive effect of some tetrazole derivatives towards mild steel corrosion in acid solution: Electrochemical, surface and theoretical studies</p>
	<p><u>Khadiri Mohyeddine (Morocco)</u> Synergistic effect of Punica granatum extract and potassium iodide as corrosion inhibitor of S355 steel</p>
	<p><u>Setti Nawal (Morocco)</u> (Poster) An experimental and theoretical investigation of Tetra-Pz-Ortho and Tetra-Pz-Para for the protection of M-steel surfaces against acidic conditions.</p>
	<p><u>Boukerche Said (Algeria)</u> (Poster) Enhancement of Corrosion Protection of AISI 304 Stainless Steel by Multilayered TiO₂ and Cr-Doped TiO₂ Nanostructured Films</p>
	<p><u>Mohamed Rachid Cheriti (Algeria)</u> (Poster) The Harmful Impacts of Corrosion in the Oil and Gas Industry.</p>