

PROGRAM OVERVIEW

23.05.2024 Thursday	
08:00-09:00	Registration/ Engineering Faculty
09:00- 10:00	<p style="text-align: center;">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.) Hüseyin Engin SARIIBRAHİM (Governor of Karaman)</p>
10:00-10:30	<p style="text-align: center;">Invited Speaker Prof. Dr. A. Fuat ÇAKIR <i>Economy of Corrosion</i></p>
10:30 - 10:45	Coffee Break
OPENING SESSION / Chairman: Prof. Dr. Ali Fuat ÇAKIR	
10:45-11:45	<p style="text-align: center;">Invited Speaker Prof. Dr. Mustafa ÜRGEN <i>Recent Developments on the Design of Corrosion Resistant Materials and Corrosion Research Tools</i></p>
	<p style="text-align: center;">Invited Speaker (Online) Prof. Dr. Mustafa GÜNALTUN <i>Human Role in Corrosion Failures</i></p>
12:00-13:30	Lunch Break
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 BAYATLI</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 ÇELİK</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	
15:20-16:40	<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>Emir Kibar</u> Yumuşak Çeliğin Asit Korozyonunun Önlenmesinde Yeni Sentezlenen Schiff Bazının Etkisi
Session B2- Chairman: Prof. Dr. Nurhan Cansever	
15:20-16:40	<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
	<u>Silvana B Dimitrijević (Serbia)</u> Corrosion characteristics of Ag40Cu30Zn30 and Ag25Cu52.5Zn22.5 alloys in natural seawater of Marmara Sea
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 AVCI</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
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

	<p style="text-align: center;"><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>
	<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>
	<p style="text-align: center;"><u>Hatice Can</u> Theoretical Calculations of Potential Eco-friendly Corrosion Inhibitors from Neem Leaf Extract</p>
10:20-10:40	Coffee Break
Session A4- Chairman: Prof. Dr. Ahmet Çakır	
10:40-12:00	<p style="text-align: center;"><u>Sennur 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 Alaşımlarının 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>
	<u>Seyhan Toktur</u>

	Korozyonun Önlenmesinde Güvenilir ve Çevre Dostu Taraxacum Officinale Ekstraktının Kullanımı
Session B5- Chairman: Prof. Dr. Hüsnu Gerengi	
13:30-15:00	<u>Hayrettin Karaca</u> Korozyona Uğramış Hibrit GFRP-Çelik Donatılı Betonarme Kirişlerin Eğilme Davranışında Tasarım Etkisi
	<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	
15:20-16:40	<u>Kader Coşkun</u> Maintenance of corroded silos: A case study
	<u>Kader Coşkun</u> Enhancing Corrosion Resistance of S37 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>Gökmen Sığırçık</u> The Photocatalytic Efficiency of CuO and its Photocorrosion Inhibition
Session B6- Chairman: Prof. Dr. Gülfeza Kardeş	
15:20-16:40	<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> Karbon Çeliğinin 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
Session C2-Online Chairman: Prof. Dr. Tunç TÜKEN	
15:20-17:00	<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
	<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><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>
	<p><u>Khadiri Mohyeddine (Morocco)</u> Synergistic effect of Punica granatum extract and potassium iodide as corrosion inhibitor of S355 steel</p>