

07. 10. 2009 WEDNESDAY

- 14:00 - 16:00 REGISTRATION
16:00 - 18:30 OPENING CEREMONY
19:00 - 22:00 WELCOME COCKTAIL



08.10. 2009 THURSDAY

HALL A

SESSION 1 Electrochemical Surface Modification

CHAIR: Levent TOPPARE, Raoul NIGMATULLIN

09:00 - 09:40 INVITED 1

Investigations and Applications of Spontaneous Grafting of Aryldiazonium Salts

Alison DOWNARD

09:40 - 10:00 ORAL 1

Covalent Modification of Surfaces by Pyridine Type Organometallic Complexes

Ali YEŞİLDAĞ, Faruk PAK,

Duygu EKİNCİ

10:00 - 10:20 ORAL 2

Electrochemical Synthesis of Highly Oriented Methylene Blue Monolayers
Kader DAĞCI, İbrahim Hakkı KAPLAN,
Emrah KALYONCU, Murat Alanyalıoğlu

10:20 - 10:40 ORAL 3

Electrocatalytic oxidation of sodium borohydride at Pt ad-atom modified Au(111) electrode
Şükriye ULUBAY, Buket GELMEZ,
Zekerya DURSUN

10.40 - 11.40 POSTER SESSION 1

CHAIR: Handan GÜLCE



SESSION 2 Electrochemical Surface Modification

CHAIR: Allison J. DOWNARD, Ahmet M. ÖNAL

11:40 - 12:20 INVITED 2

Nanostructures Fabricated by Metal-induced Etching of Silicon and Silicon/germanium

Ulrich GÖSELE

HALL B (CORROSION)

SESSION 1

CHAIR: Semra BİLGIÇ,
Belkis USTAMEHMETOĞLU

INVITED 1

A Comparative Research on Corrosion Behavior of a Standard, Crack Free and Duplex Hard Chromium Coatings

Shahin Khameneh ASL,

M.R. Saghi BEYRAGH

ORAL 1

Use of Spectrometric Techniques to Measure Progress of Metal Corrosion

Ömer Edip KUZUGÜDENLİ ,

Ahmet ÜLGEN

TEA- TURKISH COFFEE*

COFFEE BREAK



and

SESSION 2 Corrosion

CHAIR: S. Khameneh ASL, Necati MENEK

12:20 – 12:40 **ORAL 4**
Voltammetric Determination of
Chlorpyrifos Pesticide and
Its Application to Turkish Wine Samples
Fusun OKÇU PELİT, F. Nil ERTAŞ,
H. ERTAŞ

12:40 – 13:00 **ORAL 5**
Fabrication of Calix[4]pyrrole Nanofilms at
the Glassy Carbon Surface and their
Characterization by Spectroscopic, Optic
and Electrochemical Methods
Bilge TANER, Emine ÖZCAN, Zafer
ÜSTÜNDAĞ, Selda KESKİN

13:00 – 13:55 **LUNCH**



SESSION 3 Electrochemical Energy
CHAIR: Sacide ALTINÖZ, Igor PEREPICHKA

14:00 – 14:40 **INVITED 3**
Development of Enzymatic Biofuel Cells
Arunas Ramanavicius

14:40 – 15:00 **ORAL 6**
Electrochemical characterization of
mischmetal based alloys for nickel metal
hydride batteries
Sezer Köylü TOKGÖZ, Emre BİÇER,
Muhsin MAZMAN, Davut UZUN, Sibel
ESERDAĞ, Cem KAYPMAZ, Alpaslan
YILDIZ, Can AKSAKAL, Göksel PAKER,
Mustafa TIRIŞ

15:00 – 15:20 **ORAL 7**
Electrochemical Characteristics of
SiO/SnO Anode Manufactured by
Microwave for Lithium Ion Batteries
Byung-Won CHO, Choong-Hoon JEONG,
Jong-Min BANG, Byung-Ki NA

15:20 – 15:40 **ORAL 8**
Investigation of Electrochemical Behavior
of Co(II)-disulfiram Complex in Different
Non-Aqueous Media
Sohrab ERSHAD, Jafar Khodmarz

15:40 – 16:00 **TEA, TURKISH COFFEE***



ORAL 2
Polypyrrole Coating on Copper-Plated
Aluminium and investigation of its corrosion
performance
B. DOĞRU MERT, B.YAZICI

ORAL 3
The use of density functional theory
(DFT) calculations in the elucidation of
oxidation reactions of some alcohols on
gold
Gökhan GECE, Semra BİLGİÇ

SESSION 3 Corrosion
CHAIR: Muzaffer TALU, Uğur TAMER

ORAL 4
Electrochemical Copolymerization of Aniline
And Bithiophene In Aqueous Solution On SS
and Its Corrosion Performance in HCl
Medium
Nurgül KARADAŞ, Kübra CINKILLI,
Nuran ÖZÇİÇEK PEKMEZ

ORAL 5
EQCM Study Of Ni-Zn Alloy Corrosion In
Presence Of Aerobic *Aeromonas*
Eucrenophila
N. Oya SAN, Mürsel ARICI, Gönül
DÖNMEZ, Hasan NAZIR

ORAL 6
Effect of a stabilizing treatment at 925C
on the electrochemical behavior of an AISI
316L stainless steel .
Hania HACHEMI, Lidya ROUIBAH,
Fatah HELLAL

- **COFFEE BREAK**

SESSION 4 Electrochemical Energy and Electroanalysis

CHAIR: Sezai SARAÇ, Byung Ki-NA

16:00 – 16:20 ORAL 9

Magnetron sputtered electrocatalysts for PEM electrochemical energy converters

E. SLAVCHEVA, G. TOPALOV, G. GANSKE, E. LEFTEROVA

16:20 – 16:40 ORAL 10

Electrochemical Impedance Spectroscopy and Application to Energy Storage and Conversion Devices

Burak ÜLGÜT , Max R. YAFFE

16:40 – 17:00 ORAL 11

Preparation and characterization of the thin films of β -Bi₂O₃-based electrolyte stabilized with Yb₂O₃ for solid oxide fuel cell application

Handan ÖZLÜ, Ersay ERSOY, Caner BİLİR, Soner ÇAKAR, Orhan TÜRKÖĞLU

17:00 – 17:20 ORAL 12

Electrochemical Investigation of Some Triazine Pesticides

Recai İNAM, Hülya MERCAN, Tuba SARIGÜL

17:20 – 17:40 ORAL 13

Voltametric Trace Determination Of The Theophylline In Human Serum And Urine- Studies The Interaction With Albumin

Saadallah T. SULAIMAN, Mohammed M. ALIMAM

18:00 – 19:30 DINNER



SESSION 4 Corrosion

CHAIR: Birgül YAZICI, Nuran ÖZALTIN

ORAL 7

Effect of amplitude of ac signals on the impedance parameters of mild steel/ hydrochloric acid interface

Fatma Sevim ELBEYLİ, Muzaffer ÖZCAN, Güray KILINÇÇEKER, İlyas DEHRİ

ORAL 8

Investigating The Effect of Chemical Treatments on Corrosion Behavior of Carbon Steel via Electrochemical Noise and Polarization Methods

Sadaf TAHMASEBI, Sepehr Mastour TEHRANI, Mohammad Reza Mohammad Zade ATTAR

ORAL 9

Investigation the effect of passivation on corrosion behavior of carbon steel via Electrochemical Noise and Polarization methods

Sadaf TAHMASEBİ, Sepehr Mastour TEHRANİ, Mohammad Reza Mohammad Zade ATTAR

ORAL 10

PANI/Poly-AmC Coated Copper: Synthesis and Evaluation of Corrosion Protection Performance

Esra PALMANAK, Hülya KELEŞ, İlyas DEHRI

ORAL 11

The investigation of effect of polyaniline coating synthesized as electrochemical and the investigation of the effect of polyaniline coating on nickel on 304 steel corrosion behavior

Aysel BÜYÜKSAĞIŞ, Uğur ÖZTÜRK

09.10.2009 FRIDAY

HALL A

SESSION 5 Electropolymerization

CHAIR: Ümit DEMİR, Arunas RAMANAVICIUS

09:00 – 09:40 INVITED 4 One polymer for all: benzotriazole containing donor-acceptor type polymer as a multi-purpose material

Levent TOPPARE

09:40 – 10:00 ORAL 14 Synthesis Of New Low Band Gap Polyfluorene Derivatives Bearings Donor-Acceptor Units

Buket Bezgin, Ahmet M. ÖNAL

10:00 – 10:20 ORAL 15 Novel Donor-Acceptor Type Ambipolar Materials With BODIPY Scaffold

Fatih ALGI, Atilla CİHANER

10:20 – 10:40 ORAL 16 Electroreduction of Some carbonyl oximes: protonation and substituent effect

Saim TOPÇU, Murat TAŞ, Necati MENEK

10.40 – 11.40 POSTER SESSION 2

CHAIR: Semra BİLGIÇ



TEA- TURKISH COFFEE*
and
COFFEE BREAK



SESSION 6 Electropolymerization

CHAIR: Hubert GIRAULT, Nur ONAR

11:40 – 12:20 INVITED 5 Electroactive Nanostructured Polymeric Coatings on Different Substrates

A. Sezai SARAÇ

12:20 – 12:40 ORAL 17 Color Engineering of π -Conjugated Donor-Acceptor Systems: The Role of Donor and Acceptor Units on the Neutral State Color

Merve İÇLİ, Melek PAMUK, Fatih ALGI, Atilla CİHANER, Ahmet M. ÖNAL

12:40 – 13:00 ORAL 18 Voltage-induced conformational changes of 4,4'-diphenyl-2,2'-bipyridine and its metal complexes - potential-controlled molecular switching

Chandana SENARATNE

13:00 – 13:55 LUNCH



SESSION 7 Electropolymerization

CHAIR: Esmâ SEZER, Amor AZIZI

14:00 – 14:40 INVITED 6 Bio-inspired electrochemistry: Hydrogen evolution at liquid-liquid interfaces

Hubert GIRAULT

14:40 – 15:00 ORAL 19 Fabrication of Magnetic Gold Nanorods and Electrochemical Applications

Ali İhsan SEÇKİN, Erhan TEMÜR, İsmail Hakkı BOYACI, Kadir PEKMEZ, Uğur TAMER

15:00 – 15:20 ORAL 20 Ambipolar Donor-Acceptor Materials Based on EDOT and Naphthalene Fused Thienopyrazine and Benzopyrazine Units

Seha TİRKEŞ, Atilla CİHANER, Melek PAMUK, Fatih ALGI

- 15:20 – 15:40 ORAL 21 Is Complexation of Trace Metal ions by Ligands Anchored to Gold surfaces Different than by Ligands Dissolved in Homogeneous solutions?
Abdunnaser M. ETORKİ, E. ELAKKARI, A. ELHAMASSI, M. M. ABUEIN
- 15:40 – 16:00 TEA- TURKISH COFFEE*  and COFFEE BREAK
- SESSION 8 Sensors and Biosensors**
- CHAIR:** F. Nil ERTAŞ, Ali Reza Fakhari ZAVAREH
- 16:00 – 16:20 ORAL 22 Determination of Glucose by an Enzymeless Biosensor Based on Overoxidized Polypyrrole nanofiber Electrode
Levent ÖZCAN, Yücel ŞAHİN, Hayrettin TÜRK
- 16:20 – 16:40 ORAL 23 Enzyme-Linked Amperometric Electrochemical Genosensor Assay for the Detection of PCR Amplicons related to Vibrio cholerae on a disposable Screen-Printed Carbon Electrode
Chan Yean YEAN, Balqis KAMARUDIN, Dilşat Özkan ARIKSOYSAL, Lee Su YIN, Pattabhiraman LALITHA, Asma ISMAIL, Mehmet ÖZSÖZ, Manickam RAVICHANDRAN
- 16:40 – 17:00 ORAL 24 Applications of electroanalytical methods for the detection of food components and contaminants
İsmail Hakkı BOYACI, Deniz BAŞ, Uğur TAMER
- 17:00 – 17:20 ORAL 25 6-(Ferrocenyl)Hexanethiol/Gold Nanoparticle based Surfaces in Glucose Biosensing
Dilek ODACI, Nimet YILDIRIM, Suna TİMUR
- 17:20 – 17:40 ORAL 26 Development of a biosensor for the detection of D-serine in brain
Zainiharyati Mohd ZAIN, Robert D.O'NEILL, John P.LOWRY, Kenneth W. PIERCE, Mark TRICKLEBANK, Aidiahmad DEWA, Sulaiman Ab GHANI
- 18:00 – 20:30 **SOCIAL EVENT: BOAT TRIP in MANAVGAT RIVER** 
- 20:30 – 22:00 DINNER 

10. 10. 2009 SATURDAY

HALL A

SESSION 9 Electrochemical Nanotechnology

CHAIR: Ulrich GÖSELE, Kadir Pekmez

- 09:00 – 09:40 INVITED 7 Electrochemically induced atom-by-atom growth of compound semiconducting nanostructures: a new approach for electrochemical co-deposition
Ümit DEMİR
- 09:40 – 10:00 ORAL 27 Electrochemical determination of dopamine in its physiological level in human blood serum without any pretreatment and dilution
Ali ÖZCAN, Yücel ŞAHİN

10:00 – 10:20 ORAL 28 Synthesis and characterization of PbSe_xS_{1-x} nanostructures on Au (111) by a new electrochemical co-deposition method
Fatma BAYRAKÇEKEN, Ümit DEMİR

10:20 – 10:40 ORAL 29 Electrochemical reduction of graphite oxide to graphene structure on polycrystalline Au electrode
Hülya DOĞAN, Duygu Ekinci, Ümit Demir

10.40 – 11.40 POSTER SESSION 3
CHAIR: Ahmet M. ÖNAL,



TEA- TURKISH
COFFEE BREAK



COFFEE*

SESSION 10 Electrochemical Materials

CHAIR: Ahmad ROUHOLLAHI, Gözen BERKET

11:40 – 12:20 INVITED 8 The influence of the self-similar structure of a medium in formation of the complex impedance of heterogeneous surfaces

Raoul R. NIGMATULLIN A.A. ARBUZOV

12:20 – 12:40 ORAL 30 Preparation and Characterization of CuGaSe₂ thin films by electrodeposition technique.

Arturo Madrigal FERNÁNDEZ, J.A. TURNER

12:40 – 13:00 ORAL 31 Effect of the CaCO₃ coating on electrochemical properties of spinel LiMn₂O₄ as a cathode material for lithium battery applications.

Halil ŞAHAN, Hüseyin GÖKTEPE, Fatma KILIÇ, M.Nurullah ATEŞ, Şaban PATAT

13:00 – 13:55 LUNCH



14:00- 22:00 SOCIAL EVENT: SIDE-ASPENDOS and MANAVGAT WATERFALL TRAVEL



- ALTERNATIVES

11.10. 2009 SUNDAY

HALL A

SESSION 11 Electrochemical Materials

CHAIR: Ahmet BULUT, Ali JABBARI

09:00 – 09:40 INVITED 9 Synthesis, characterization of Pt based binary and ternary nanoparticles, their activities for direct alcohol pem fuel cells
Figen KADIRGAN

09:40 – 10:00 ORAL 32 Structural and Photoelectrochemical Characterization of Oxide Films Formed on AISI 304 Stainless Steel
Hakiki Nour EDDINE

10:00 – 10:20 ORAL 33 One More Step Closer to Realizing the Dream of the Polymeric RGB Electrochromics
Merve İÇLİ, Fatih ALGI, Atilla CİHANER, Ahmet M. ÖNAL

10:20 – 10:40 ORAL 34 Attachment of silver nanoparticles to the thiophenol nanofilms at the glassy carbon surface
Remziye GÜZEL, Zafer ÜSTÜNDAĞ, Haslet EKŞİ,
Ayça Avseven ÇİFTÇİ

10.40 – 11.40 POSTER SESSION 4
Chair: **Ahmet BULUT**



TEA- TURKISH COFFEE*
and COFFEE BREAK



and

SESSION 12 **Bioelectrochemistry**

CHAIR: **Figen Kadirgan, Fatah Hellal**

11:40 – 12:20 INVITED 10 Thiophene- and fluorene-based conjugated polymers and their applications in electronics and optoelectronics
Igor F. PEREPICHKA

12:20 – 12:40 ORAL 35 DNA- Binding and Electrochemical Studies of A Novel Platinum Blue Complex Containing Sulphur Donor Ligand
Şeniz Özalp YAMAN, S. Belgin İŞGÖR, İsmail ERİLHAN,
Hüseyin İŞÇİ

12:40 – 13:00 ORAL 36 Photoelectrocatalysis of NADH at a Poly-Neutral Red/Glassy Carbon Electrode
Didem Giray DİLGİN, H. İsmet GÖKÇEL, Zekerya DURSUN,
Yusuf DİLGİN, Delia Maria GLIGOR

13:00 – 13:55 LUNCH



SESSION 13 **Electrochemical Engineering**

CHAIR: **Recai İNAM, Hakiki Nour EDDINE**

14:00 – 14:20 ORAL 37 Electrochemical behavior of a titanium dental implant under diabetic conditions with different acidity
Evşen TAMAM, İlser TÜRKYILMAZ

14:20 – 14:40 ORAL 38 Electrochemical Soil Remediation: Ion Transport under a Non-uniform Electric Field
Ayten GENÇ

14:40 – 15:00 ORAL 39 Oil/grease removal from bilge water using Pt/Ir electrodes and optimization through response surface methodology
Bahadır K. KÖRBAHTI, Kahraman ARTUT

15:00 – 15:20 ORAL 40 The effect of thiourea on the hydrogen gas evolution at nickel cathode
İbrahim ŞAHİN, Birgül YAZICI, Gülfeza KARDAŞ, Mehmet ERBİL

15:20 – 16:00 TEA- TURKISH COFFEE*



and COFFEE BREAK

16:00 - 16:40 POSTER AWARDS
JURY



Handan GÜLCE
Semra BİLGİÇ
Ahmet M. ÖNAL
Ahmet BULUT
Sacide ALTINÖZ

16:40 - 17:30 PANEL - CLOSING



19:00 - 23:00 SOCIAL EVENT: TURKISH NIGHT



AND CLOSING DINNER

* Special Turkish Coffee will be served by Kurukahveci Mehmet Efendi Mahdumları