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ORAL PROGRAM OF TECHNICAL SESSIONS

Day 1st, Monday, December 12, 2016

10:00 - 13:00 Registration

13:00 – 15:00 LUNCH

15:00 – 15:30 Opening

Adel Abdul Azim (Conference Chairman)
Hussien Hegazy (Chair of ECS)
Randa Abdel Karim (Vice Chair of ECS)
Sherif Zein El Abedin (Conference Secretary General)

15:30 – 16:45

Session I
Opening session

Chairpersons

Adel Abdul Azim, (Egypt)
Randa Abdel Karim, (Egypt)

15:30 – 16:15

200 Years of Engineering Education in Egypt
Saad El Raghy

16:15– 17:00

Development of Hard and Corrosion Resistant Stainless Steels through Plasma Technology
V.S. Raja, India

19:00

DINNER

Day 2nd, Tuesday, December 13, 2016

9:00 – 11:30

Session II
Coating/Corrosion Inhibitors

Chairpersons

V. Gouda, Egypt
E. Angelini, Italy

9:00 – 9:45

Nondestructive Testing of the Integrity of Organic Coating Systems
Guenter Schmitt, Germany

9:45 – 10:15

Protection of Aluminium Industrial Heritage in a Coastal Environment with Paraloid Coatings- A preliminary Laboratory Testing
V. Panayota, Greece

10:15 – 10:35

Novel asphaltic materials for steel protection against corrosion
Said A. Abed, Egypt

10:35 – 10:55

Anti-corrosion and anti-bacterial effects of some ionic liquids
S. Zein El Abedin, Egypt

10:55 – 11:15

Green corrosion inhibitors and biocides for sulfate reducing bacteria from the recycling of some natural domestic wastes
Nour El Gendy, Egypt

11:15 – 11:40

COFFEE BREAK

11:40 – 13:10

Session III
Corrosion Mechanisms and Surface Treatment

Chairpersons

V.S. Raja, India
M. El Sabbah, Egypt

11:40 – 12:10

Recent development in degradable implants: corrosion and improvement
Ahmed Abdel Aziz, Egypt

12:10 – 12:30

Effect of Heat Treatment on Corrosion Behavior of Magnesium Alloy (AZ91)
S. Bekhet, Egypt

12:30 – 12:50

Effect of heat treatment on corrosion and electrochemical behavior of Aluminum bronze alloy in 1M H₂SO₄ solution
A.M.Hosny, Egypt

12:50 – 13:10

Activation Energy of Oxidation process of Developed High Nitrogen Stainless Steel
Saeed Ghali, Egypt

13:10 – 15:00

LUNCH

15:00 – 17:00

Session IV
Failure Analysis

Chairpersons

V. Panayota, Greece
H. Hegazy, Egypt

15:00 – 15:30

Tank Cleaning and Treatment of Petroleum Wastes and their Effects on the Corrosion Behaviour of Steel Pipelines
A. El Shamy, Egypt

15:30 – 15:45

Corrosion Fatigue of Horizontal Auxiliary Boiler carbon steel Tubes
S.A. Khodi, Egypt

15:45 – 16:00

Flow Enhanced CO₂ Corrosion of 6" Carbon Steel Pipe in

Gas Well
S.A. Khodi / M. Newishy, Egypt

16:00 – 16:15

**Corrosion Failure Analysis of 3" Flange and 3"-6" Reducer
in a Gas Pipeline**
I.M. Ghayad / Z. Abdel Hamid, Egypt

16:15 – 16:30

Failure Analysis of Process Gas Cooler in a Fertilizers Co.
I.M. Ghayad, Egypt

16:30 – 16:50

**The effect of initial temper condition and tool rotation
speed on the corrosion susceptibility of AA6061 friction
stir welded joints**
M.E.El-Bedawy, Egypt

16:50 – 17:10

**Hydrocarbons Fire Fighting
(Juton)**

Day 3rd, Wednesday, December 14, 2016

7:30 – 12:30

Visits:
Luxor Temple and Karnack Temple OR West Bank
(Reservation needed)
Please Contact The Conference Secretary

13:30 – 15:00

LUNCH

15:00 – 17:00

Session V
Corrosion and Electrochemistry of nanomaterials

Chairpersons

G. Schmitt, Germany
Ahmed Abdel Aziz, Egypt

15:00 – 15:40

Flexible Graphene-Based Electrodes for Supercapacitors
Application
Ahmed Abdel-Moniem, Egypt

15:40 – 16:10

Characterization of anodized Ti-Mo-Fe biomedical alloys
M. Gepreel, Egypt

16:10 – 16:30

Synthesizing and Characterization of Ni-Co
Nanostructured Anodic Catalyst for Methanol Oxidation
Fuel Cell Reactions
M. Ramadan/R. Abdel-Karim, Egypt

16:30 – 16:50

Impedance studies on methanol and ethanol electro-
oxidation using Ni-MgO/C nano-composite anodes
Rabab M. El-Sherif, Egypt

16:50 – 17:10

Next-Generation Graphene for Different Applications
Nabil Abdel Ghany, Egypt

17:10 - 19:00

Posters

Chairperson: Ashraf El Shamy

19:00

CONFERENCE DINNER

Day 4th, Thursday, December 15, 2016

(9:00 – 12:10)

Session VI
Corrosion of Archaeological and Historical Artefacts

Chairpersons

R. Abdel Karim, Egypt
N. Abdel Ghany, Egypt

9:00- 9:30

**The physico-chemical investigations of metallic artefacts:
a passkey for a proper conservation of Cultural Heritage**
Emma Angelini, Italy

9:30 – 9:50

**Steel Clamps from the Athens Acropolis- Some Old, Some
New and Some Digital**
Panayota Vassiliou, Greece

9:50 – 10:10

**Archaeometallurgical Characterization and Corrosion of
Ancient Egyptian Bronze Coins**
V. Gouda/M. Shehata, Egypt

10:10 – 10:30

COFFEE BREAK

Chairpersons

Ahmed Abdel Moniem, Egypt
Rabab El-Sherif, Egypt

10:30 – 10:50

Investigation of Ancient Egyptian Electrum artifacts
V. Gouda/A. Awad, Egypt

10:50 – 11:20

**A Wireless Environmental Monitoring System for the
Egyptian Museum of Cairo**
M. Parvis, Italy

11:20 – 11:40

**Atmospheric Corrosion Assessment of a Corten Heritage
Building**
S. Grassini, Italy

11:40 – 12:10

Closing

Adel Abdul Azim (Conference Chairman)

Hussien Hegazy (Chair of ECS)

Randa Abdel Karim (Vice Chair of ECS)

Sherif Zein El Abedin (Conference Secretary General)

12:10

CHECK OUT AND LUNCH

14:00

DEPARTURE