
Room: Auditorium Hermès

Session 14: **Coatings.**
 organiser: L. Fedrizzi

Poster Sessions **Monday 13 September: 18:00 – 19:30**
 Tuesday 14 September: 18:00 – 19:30

List of Posters: see at the end of this Session Program

Monday 13 September

10:00 **Opening Ceremony**

10:30 **PL-473**
Predicting the Future From the Past in Corrosion Science and Engineering.
Digby MACDONALD

11:15 **PL-563**
An Overview of Materials Degradation by Stress Corrosion in PWRs.
Peter SCOTT

12:00 Cavallaro Medal Lecture.
From the empirical approach to corrosion science - A retrospect on fifty years corrosion research.
Hubert GRÄFEN

12:30 **Lunch**

Co-chairs: L. Fedrizzi, H. Terryn

14:00 **14-KN-309**
Effects of Al hydration and its interaction of organic molecules studied by means of optical reflection methods (SE UV-VIS-IR and FTIR-RAIRS).
Herman TERRYN

14:40 **14-O-076**
The early corrosion behavior of galvanised steel pre-treated with bisfunctional silanes.
Fátima MONTEMOR

15:00 **14-O-412**
In-situ Electrochemical Quartz Crystal Microbalance and Spectroscopic Ellipsometry study of silane film formation on aluminium alloys.
Roland OLTRA

15:20 **14-O-047**
Application of Nanosized Silica Particles as Coatings for the Corrosion Protection of Steels at Low and High Temperature.
Christian SIMON

- 15:40** *Coffee break*
- 16:10** **14-O-038**
New Silica based coating for the protection of electrogalvanized steel against Corrosion.
Georges MAURIN
- 16:30** **14-O-185**
Characterization of plasma electrolytic oxidation by the acoustic emission technique.
Mickaël BOINET
- 16:50** **14-O-058**
Zinc soap: a new "green" conversion treatment for zinc.
Sophie JACQUES
- 17:10** **14-O-288**
Synthesis of metal phosphates and phosphating of metals - borders of similarity.
Marcin GROBELNY
- 17:30** **14-O-315**
Coated Magnesium Alloys Subjected to Mechanical Stress.
Amir ELIEZER
- 18:00 - 19:30** **Poster Session - List of Posters: see at the end of this Session Program**
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Tuesday 14 September

Co-chairs: J. Veerecken, F. Deflorian

- 08:40** **14-KN-160**
Novel protective coatings for steel based on a combination of self-assembled monolayers and conducting polymers.
Wolfram FUERBETH
- 09:20** **14-O-454**
Effect of curing conditions on the corrosion behaviour of thin organosilane films.
Jean VERECKEN
- 09:40** **14-O-072**
The effect of the presence of silicone films on the corrosion resistance of Zn and ZnFe coated steel.
Maria Eliziane PIRES DE SOUZA
- 10:00** **14-O-151**
Corrosion Resistance Evaluation of Aluminum, Zinc and Zinc -15% Aluminum Coatings applied by Arc Spray, in Chloride Medium.
Dayanne MENEZES
- 10:20** *Coffee break*
- 10:50** **14-O-559**
Codeposition of SiC nanoparticles in nickel and bronze matrix.
Pierluigi BONORA

- 11:10** **14-O-464**
Corrosion behaviour of pulse plated tin-silver alloys.
Selma HANSAL
- 11:30** **14-O-448**
Corrosion behaviour of multilayer coatings deposited by means of magnetron sputtering and PECVD.
Sabrina GRASSINI
- 11:50** **14-O-465**
Electrodeposited tin-zinc alloys as corrosion resistant coatings.
Matthias PÖLZLER
- 12:10** **14-O-341**
Corrosion behaviour of single layered ZrN_xO_y thin films in artificial sweat solutions.
Edith ARIZA
- 12:30** *Lunch*
- Co-chairs: J. Vogelsang, E. Aragon
- 14:00** **14-KN-250**
Corrosion Inhibition of Organic Coated Galvanized Steel With Chromate-Free Pigment Blend.
Stuart LYON
- 14:40** **14-O-480**
The corrosion protection effectiveness of polyamide epoxy primer films containing rare earth - organic corrosion inhibitors.
Maria FORSYTH
- 15:00** **14-O-359**
Corrosion inhibition by chromate at defects of organic coatings.
Tomas PROSEK
- 15:20** **14-O-459**
Evaluation of Chromate and Chromate-free surface treatments on the corrosion resistance performance of organic coated electro-zinc substrates by electrochemical and accelerated testing.
Siva BOHM
- 15:40** *Coffee break*
- 16:10** **14-O-221**
Evaluation of the effects of mechanical deformation and UV radiations on barrier properties of coil coated products.
Andrea BERGO
- 16:30** **14-O-441**
Evaluation of corrosion propagation around a scribe on a coated steel surface after ageing.
Emmanuel ARAGON
- 16:50** **14-O-457**
Accelerated corrosion tests and qualification methods for organic coatings – A new approach.
Tom BOS

- 17:10** **14-O-442**
Evaluation of chemical changes in basecoat and primer layers of a paint system : comparison between artificial and natural weathering.
C. MERLATTI
- 17:30** **14-O-399**
Evaluation of cathodic disbonding of three types of coatings by DC and AC methods.
Mohammadreza ATTAR
- 18:00 - 19:30** **Poster Session - List of Posters: see at the end of this Session Program**

Wednesday 15 September

Co-chairs: P. Bonora, V. Sauvant-Moynot

- 08:40** **14-KN-220**
Inhibition of corrosion-driven delamination on zinc by polyaniline based coatings.
Geraint WILLIAMS
- 09:20** **14-O-429**
Epoxy coatings for anticorrosion challenges : a link between chemistry and performance ?
Valérie SAUVANT-MOYNOT
- 09:40** **14-O-056**
Product performance evaluation of polymer coated packaging steel using electrochemical measurements.
Berend BOELEN
- 10:00** **14-O-034**
Characterisation of a high solid coating by EIS and ENA.
Norma DE CRISTOFARO
- 10:20** **Coffee break**
- 10:50** **14-O-487**
R/S Fractal analysis of electrochemical noise signals of three organic coatings samples under corrosion conditions.
Miguel Angel GONZALEZ-NUNEZ
- 11:10** **14-O-530**
Investigating method for the evaluation of the protective performance of painting systems in severe environments of corrosivity category C5M.
Philippe LE CALVÉ

Session 14: List of Posters

- 14-P-002** Effect of cerium conversion of A3xx.x/SiCp composites surfaces on salt fog corrosion behaviour.
Angel PARDO

- 14-P-066 Investigation On Inhibitive Effect Of Zinc Phosphate and Chromate.
Mohamadreza ATTAR
- 14-P-128 Effect of Various Surface Preparation Methods on Corrosion Performance of Polyester-Epoxy Powder Coated Steel by EIS.
Reza NADERI
- 14-P-130 Hydroxyapatite coating on Ti and Ti alloys.
Mohsen SAREMI
- 14-P-149 Complex saturation of hard alloys by niobium and chromium.
Volodimir LOSKUTOV
- 14-P-150 Complex protection of steel from Corrosion by alloyed boride and silicide coatings with corrosion inhibitors.
Inna POGREBOVA
- 14-P-169 Protective Properties of Zinc-containing Oil-based Coatings against Steel Atmospheric Corrosion.
Liudmila TSYGANKOVA
- 14-P-180 A Comparative Study on the Estimation of Coating Resistance of Anti-Fingerprint Steel for Home Applications by Using Salt Spray Test and Electrochemical Impedance Spectroscopy.
Su-II PYUN
- 14-P-223 Diffusion Zinc Plating of Structural Steels.
Tatiana KAZAKOVSKAYA
- 14-P-236 CrN coatings deposited by magnetron sputtering and IBAD as a high temperature corrosion protection.
Jaroslav PITTER
- 14-P-244 Copper Corrosion in Sodium Chloride Solutions and Effect of Some Organic Electrosynthesized Polymers.
Viorel BRANZOI
- 14-P-298 Corrosion behaviour of Zn-Mn coatings.
Maria SARRET
- 14-P-316 Improve the anticorrosive performance of alkyd paint films using perylene pigment.
Ecaterina VASILESCU
- 14-P-331 Evaluation of the surface treatment on carbon steel coated with an epoxy waterborne paint.
Rosa Maria OSUNA
- 14-P-342 Plasma thermochemical treatments on carbon steels.
Antonio Jorge ABDALLA
- 14-P-355 Protective properties of organic coatings for ZnO thin film.
C.R. TOMACHUK
- 14-P-372 Studying Corrosion of Coated Titanium Anodes in NaCl Solution.
Ehsan BAKHSHI
- 14-P-410 Fastener Corrosion in Arabian Gulf Offshore Installations.
Ibrahim Ali MUZGHI
- 14-P-444 Surface modification of aluminium alloy with Ti/N compositionally gradient film by reactive DC sputtering.
Tsutomu SONODA

- 14-P-460** Protection of Aluminium by chemical nickel platings against corrosion provoked by mercury - effect of fixing coat.
Abdenacer MERATI
- 14-P-482** Influence of the semiconductive nature of passive films formed on PVD nitride nanostructured coatings for corrosion protection of steel.
Christophe MENDIBIDE
- 14-P-576** New applications for coatings glass flakes.
David MASON