



AETOC 2024

13th International Workshop on Application of
Electrochemical Techniques to Organic Coatings

Egmond aan Zee, the Netherlands, 28-31 May 2024

Preliminary Programme

TUESDAY 28 May 2024	
15:00 – 18:00	Arrivals at Hotel Golfzang, Egmond aan Zee, The Netherlands
18:00 – 19:00	Walk-in & drinks
19:00 – 21:00	Dinner



WEDNESDAY 29 May 2024		
08.30 – 09.15	Registration	
09.15 – 09.30	Opening	
Session 1 – Herman Terryn		
09.30 – 10.00	Geraint Williams	<i>A study of the efficiency of polyphosphate based pigments in the inhibition of corrosion-driven cathodic delamination of organic coated galvanised steel</i>
10.00 – 10.30	Flávio de Sousa	<i>Waterborne thermal insulation paintings: fundamentals and performance</i>
10.30 – 11.00	Coffee Break	
Session 2 – Geraint Williams		
11.00 – 11.30	Lakshmi Satish Nair	<i>In-Situ Analysis of Waterborne Coatings: Combining Reflective Microscopy and Electrochemistry to Explore Adhesion and Corrosion Dynamics</i>
11.30 – 12.00	Woraphan Intaphan	<i>Investigation of Coating Heterogeneity ‘D and I-type’ Conductions in Attached Epoxy-Amine Films</i>
12.00 – 12.30	Nadine Pébère	<i>Impedance analysis to monitor degradation of prepainted galvanized steel after accelerated weathering</i>
12.30 – 14.00	Lunch	
Network Activity		
14.00 – 16.15	Virtual Paint Spraying Competition Akzo Nobel	
14.15 / 15.15	Peter Visser (Akzo Nobel) – talk (two sessions)	
14.00 – 16.15	Networking & Visiting industry booths	
16.15 – 16.30	Coffee Break	
Session 3 – Nadine Pébère		
16.30 – 17.00	Alexandre Bastos	<i>Remarks on the formulation of water-based primers and their performance assessed by EIS</i>
17.00 – 17.30	Vincenzo Bongiorno	<i>Exploring the use of unsupervised machine learning for assessing performance of organic coatings through EIS</i>
17.30 – 18.00	Roya Malekhouyan	<i>Investigating the effect of bio-sourced benzoxazine chemical structure on the corrosion protection of magnesium alloy</i>
18.15 – 18.45	Jörg Vogelsang – talk & drinks	

19.15 – 21.00	Dinner - Nautilus
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THURSDAY 30 May 2024		
Session 4 – Lorenzo Fedrizzi		
09.00 – 09.30	Mikhail Zheludkevich	<i>Using EIS to assess interface stability of bare and pre-treated Mg</i>
09.30 – 10.00	Mats Meeusen	<i>FEM to predict corrosion critical conditions in a coating defect under static and dynamic electrolyte conditions</i>
10.00 – 10.30	Artur Rudowicz	<i>Green Anodizing of AA 2017 with Organic Acids: A Sustainable Alternative to Cr(VI)</i>
10.30 – 11.00	Coffee Break	
Session 5 – Jörg Vogelsang		
11.00 – 11.30	Sébastien Touzain	<i>Effect of the organic coating thickness onto water uptake measurements by EIS</i>
11.30 – 12.00	Ziyu Li	<i>Application of SECM and EN in lithium-based conversion layer formation studies</i>
12.00 – 12.30	Isabel Margarit-Mattos	<i>Smart corrosion protection particles and coatings: promising or advanced applied technology?</i>
12.30 – 13.30	Lunch	
Session 6 – Mikhail Zheludkevich		
13.30 – 14.00	Arjan Cornet	<i>Post-service Analysis of Degradation and Protective Mechanisms of Structural Aerospace Coatings</i>
14.00 – 14.30	Jésus M. Vega	<i>Synergy of different surface treatments on AA2024-T3</i>
Social event 15.00 – 19.00		
Dinner – Van Speijk		

FRIDAY 31 May 2024		
Session 7 – Sébastien Touzain		
09.00 – 09.30	Lorenzo Fedrizzi	<i>Effect of zinc anodes on the behavior of antifouling coatings applied on copper alloys</i>
09.30 – 10.00	Erica Tubaro	<i>Evaluation of corrosion protection and antifouling efficiency of fouling-release coatings on copper alloys</i>
10.00 – 10.30	Carmen Pérez	<i>Corrosion protection of galvanized steel by a water-borne resin modified by reduced-graphene oxide</i>
10.30 – 11.00	Coffee Break	
Session 8 – Victoria Gelling		
11.00 – 11.30	Herman Terryn	<i>Investigating Water and Ion Transport in Organic Coated Metals using ORP-EIS</i>
11.30 – 12.00	Peter Rodič	<i>Corrosion protection of AA2024-T3 using conversion and sol-gel coatings</i>
12.00 – 12.30	Lea Seeger	<i>Scanning Kelvin probe - basics and applications in corrosion protection</i>
12.30 – 13.00	Andrea Cristoforetti	<i>In-situ measurement of electrochemical activity related to filiform corrosion in organic coated steel by SVET and scanning micropotentiometry</i>
13.00 – 14.30	Lunch	
Departure		