

SCIENTIFIC PROGRAM
OF
12TH INTERNATIONAL SCIENTIFIC
CORROSION CONFERENCE



27-29 MAY 2019, WARSAW, POLAND

ORGANIZERS



**Warsaw University
of Technology**



MEDIA PATRONATE:



EXHIBITORS



Monday, May 27, 2019															
8.45-9.00	Conference Opening														
	Plenary session Chairmen: Maria Starowicz, Vincent Vignal														
9.00-9.50	Invited lecture: Agnieszka Królikowska, Corrosion control defends longevity safeness and beauty of our constructions														
9.50-10.40	Invited lecture: Damien Féron, Stress corrosion cracking of Ni-base alloys in pressurized water reactors: from the «Coriou effect» to the use of tracers														
10.40-11.00	Coffee break														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Session WP8, WP9, WP10, WP14 Chairmen: Maria Sozańska, Damien Féron</th> <th style="width: 50%; text-align: center;">Session WP4 Chairmen: Monika Kubzová, Robert Filipek</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;">11.00-11.20 J. Chmiel, Cold ironing galvanic corrosion issues with regard to ship to shore MV connection</td> <td style="vertical-align: top;">R. Latypova, Hydrogen-induced stress corrosion cracking studied by the novel tuning-fork test method</td> </tr> <tr> <td style="vertical-align: top;">11.20-11.40 J. Jedliński, The Effect of Hafnium Additions on Residual Stresses in Scales Growing at 1150°C in Air on Pulse-Plasma-Sintered β-NiAl</td> <td style="vertical-align: top;">J. Majcherczak, Mechano-electrochemical spectroscopy of electrode processes</td> </tr> <tr> <td style="vertical-align: top;">11.40-12.00 R. Gospos, Hydrogen embrittlement in petrochemical industry</td> <td style="vertical-align: top;">Le Li, The effect of stress on corrosion induced delamination of steel</td> </tr> <tr> <td style="vertical-align: top;">12.00-12.20 B. Sartowska, Coatings with silicon on zirconium alloys for improving their corrosion resistance</td> <td style="vertical-align: top;">M. Czekajlo, The concept of a corrosion protection system for spiral classifiers at KGHM Ore Enrichment Plant in Polkowice</td> </tr> <tr> <td style="vertical-align: top;">12.20-12.40 M. Weltshev, Compatibility of polymeric materials with heating oil/biodiesel blends at different temperatures</td> <td style="vertical-align: top;">E. Skolek, Tribocorrosion of nanobainitic steels</td> </tr> <tr> <td style="vertical-align: top;">12.40-13.00</td> <td></td> </tr> </tbody> </table>	Session WP8, WP9, WP10, WP14 Chairmen: Maria Sozańska, Damien Féron	Session WP4 Chairmen: Monika Kubzová, Robert Filipek	11.00-11.20 J. Chmiel, Cold ironing galvanic corrosion issues with regard to ship to shore MV connection	R. Latypova, Hydrogen-induced stress corrosion cracking studied by the novel tuning-fork test method	11.20-11.40 J. Jedliński, The Effect of Hafnium Additions on Residual Stresses in Scales Growing at 1150°C in Air on Pulse-Plasma-Sintered β -NiAl	J. Majcherczak, Mechano-electrochemical spectroscopy of electrode processes	11.40-12.00 R. Gospos, Hydrogen embrittlement in petrochemical industry	Le Li, The effect of stress on corrosion induced delamination of steel	12.00-12.20 B. Sartowska, Coatings with silicon on zirconium alloys for improving their corrosion resistance	M. Czekajlo, The concept of a corrosion protection system for spiral classifiers at KGHM Ore Enrichment Plant in Polkowice	12.20-12.40 M. Weltshev, Compatibility of polymeric materials with heating oil/biodiesel blends at different temperatures	E. Skolek, Tribocorrosion of nanobainitic steels	12.40-13.00	
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13.00-14.30	Lunch														
15.00-18.00	Excursion (Warsaw Rising Museum)														
20.00-24.00	Barbecue														

Tuesday, May 28, 2019		
Plenary session		
Chairmen: Anna Biedunkiewicz, Kazimierz Darowicki		
9.00-9.50	Invited lecture: Vincent Vignal, Influence of microstructure and mechanical stress on the corrosion resistance of metallic alloys: Application of multi-scale and multi-disciplinary methods	
9.50-10.40	Invited lecture: Stefano P. Trasatti, Green Corrosion Inhibitors from Natural Sources and Biomass Waste	
10.40-11.00	Coffee break	
	Session WP3 Chairmen: Małgorzata Zubilewicz, Stefano Trasatti	Session WP15 Chairmen: Magdalene Ikpi, Grzegorz Moskal
11.00-11.20	A. Wassilkowska, On the protective function of the single constituents of a multi-layer external coating applied to underground pipes of ductile iron	G. Schmitt, Real Time Online Corrosion Monitoring in the Field – New ECN Evaluation Technology
11.20-11.40	A. Wassilkowska, Investigation of the microstructure of the oxide-skin on the surface of ductile iron pipes centrifugally casted and annealed	P. Slepski, Utilization of ac signal amplitude modulation in impedance measurement for systems with cathodic diffusion control
11.40-12.00	A. Wassilkowska, Thermal diffusional galvanizing coatings obtained in nanocrystallized zinc powders	A. Zielinski, Application of electrical variants of AFM In corrosion investigations
12.00-12.20	E. Langer, Anticorrosive effectiveness of coatings with reduced content of Zn pigments in comparison with zinc-rich primers	P. Kwolek, Corrosion behaviour of Al ₂ Cu intermetallic phase in acidic solutions
12.20-12.40	S. Khazraee Sheidaee Mehr, spectroscopic and mechanical methods to investigate the diffusion/migration of electrolyte and/ or water along the metal/water-borne organic coating interface	A. Towarek, The influence of Mg addition and hydrostatic extrusion HE on the repassivation ability of pure Al, AlMg1 and AlMg3 model alloys in 3.5 wt.% NaCl
12.40-13.00	M. Drozda, Impedance selection of coating systems for corrosion protection of the industrial infrastructure of KGHM copper ore enrichment plants	A. Dobkowska, Influence of microstructure evaluation on corrosion resistance of AZ31-15Li alloys

Tuesday, May 28, 2019		
13.00-14.00	Lunch	
	Session WP3 Chairmen: Ewa Langer, Olayide Adetunji	Session WP15 Chairmen: Anna Wassilkowska, Günter Schmitt
14.00-14.20	J. Orlikowski, Research on organic coatings designed for underwater applications	M. Cieřlik, Intergranular corrosion problems and inspection methods.
14.20-14.40	M. Sowa, Preliminary results of application of anticorrosion coatings on aluminium alloys through plasma electrolytic oxidation	E. Saebnoori, Corrosion study of some structural alloys in aqueous sodium hydroxide containing sodium ferrate (VI)
14.40-15.00	K. Rokosz, Novel porous coatings obtained on titanium by DC and AC used in Plasma Electrolytic Oxidation processes	R. Beltrami, Corrosion behavior of AISI 316L SS: additive manufacturing vs. traditional manufacturing
15.00-15.20	J. R. Sobiecki, Electrolytical oxidation of plasma nitrided titanium alloy	J. Winiarski, The effect of anodic polarization in a choline chloride-oxalic acid eutectic mixture on the surface chemistry of 316 stainless steel
15.20-15.40	I. Flis-Kabulska, Enhanced hydrogen evolution on electrodeposited nickel with graphene oxide and effect of anodic oxidation	P. Cieřzak, Corrosion monitoring of Aircrafts based on the "Corrosion Health Monitoring" CHM system in the aspect of damage tolerance aircraft operation
15.40-16.00		P. Velicsanyi, Production and characterisation of graphene oxide as a possible corrosion resistance enhancing additive in paint systems

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20.00-23.00	Conference Dinner														

Wednesday, May 29, 2019		
	Session WP6 Chairmen: Iwona Flis-Kabulska, Krzysztof Rokosz	Session WP12, WP1 Chairmen: Pierangela Cristiani, Bożena Sartowska
9.00-9.20	P. Figiel, Microstructural, corrosion characteristics of nc-(Ti,Mo)C/Ti composites	F. Chen, Penetration of corrosion products in reinforced concrete
9.20-9.40	J. Ryba, Effect of thermal treatment of biomedical Ti-6Al-4V alloy on corrosion resistance in simulated physiological solutions.	R. Loto, Influence of white aluminum dross on the corrosion resistance of reinforcement carbon steel in simulated concrete pore solution
9.40-10.00	J. Jasiński, Hydroxyapatite formation on titanium 99.2 substrates after hybrid treatment	A. Singh, Pyran derivatives as acidizing corrosion inhibitors for J55 steel in sweet corrosive environment: Theoretical and experimental approaches
10.00-10.20	A. Fijolek, Corrosion process in magnesium and zinc alloys for biomedical applications	M. Ikpi, Corrosion inhibition of API 5L X-52 carbon steel by 1-Ethyl-3-methylimidazolium-methansulphonate and 1-Ethyl-3-methylimidazolium acetate ionic liquids in hydrochloric acid
10.20-10.40	H. Krawiec, Corrosion resistance of biomedical magnesium alloys in simulated body fluids. Application of chitosan coatings	M. Ikpi, Electrochemical and Quantum Chemical Investigation on Adsorption of Nifedipine at API 5L X-52 steel/HCl acid interface as corrosion inhibitor
10.40-11.00	Coffee break	

Wednesday, May 29, 2019		
	Session WP7, WP 11 Chairmen: Halina Krawiec, Vit Krivy	Session WP1 Chairmen: Margit Weltschev, Maciej Sowa
11.00-11.20	A. Jazdzewska, Determination of the effect of environmental factors on the corrosion of water distribution system based on analysis of corrosion monitoring results.	R. Loto, Inhibition properties of neem leaf oil extracts on mild corrosion in dilute citric acid solution
11.20-11.40	K. Kreislova, Corrosion in specific microclimate	O. Adetunji, Green Inhibitive Corrosion Performance of Gum Arabic on Mild Steel in Acidic and Basic Solutions
11.40-12.00	V. Krivy, Corrosion processes on weathering steel road bridges influenced by deposition of de-icing salts	O. Adetunji, Electrochemical Corrosion Inhibition Study of Carbon Steel Using Non-Edible Vegetable Oils in H ₂ SO ₄ Environment
12.00-12.20	P. Konecny, Evaluation of Durability Related Field Inspection Data From Concrete Bridges under Service	S. Bohm, Breakthrough Graphene Protective Coatings Against Corrosion
12.20-12.40	J. Kokinda, Anaerobic microbial corrosion of Carbon steel in synthetic bentonite pore water of Czech bentonite	
12.40-13.00	P. Cristiani, Single Chamber Microbial Fuel Cell for corrosion assessment	
13.00-14.30	Lunch	
	Young Scientists session Chairmen: Anna Dobkowska, Kateřina Kreislová	
14.30-14.40	M. Abou El Khier, Experimental verification of the parameters affecting the characteristics of Conventional and High-speed remote scanner laser welding of stainless steel joints	
14.40-14.50	W. Wang, time-dependent reliability analysis of buried pipe network with spatially random distributed corrosion	
14.50-15.00	G. Galant, Survey of protective coatings of underwater constructions using Electrochemical Impedance Spectroscopy	
15.00-15.10	A. Krześniak, An overview of coatings for Zircalloys and new materials for fuel claddings of nuclear reactors with enhanced corrosion resistance	
15.10-15.30	Conference Closing	