

**SCIENTIFIC PROGRAM**  
**OF**  
**12<sup>TH</sup> INTERNATIONAL SCIENTIFIC**  
**CORROSION CONFERENCE**



**27-29 MAY 2019, WARSAW, POLAND**

**ORGANIZERS**



**Warsaw University  
of Technology**



**MEDIA PATRONATE:**



**EXHIBITORS**



<b>Monday, May 27, 2019</b>			
8.45-9.00	<b>Conference Opening</b>		
	<b>Plenary session</b> <b>Chairmen: Maria Starowicz, Vincent Vignal</b>		
9.00-9.50	<b>Invited lecture:</b> Agnieszka Królikowska, Corrosion control defends longevity safeness and beauty of our constructions		
9.50-10.40	<b>Invited lecture:</b> 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	<b>Coffee break</b>		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><b>Session WP8, WP9, WP10, WP14</b> <b>Chairmen: Maria Sozańska, Damien Féron</b></td> <td style="width: 50%; text-align: center;"><b>Session WP4, WP3</b> <b>Chairmen: Magdalene Ikpi, Robert Filipek</b></td> </tr> </table>	<b>Session WP8, WP9, WP10, WP14</b> <b>Chairmen: Maria Sozańska, Damien Féron</b>	<b>Session WP4, WP3</b> <b>Chairmen: Magdalene Ikpi, Robert Filipek</b>
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11.00-11.20	M. Kozak, Cold ironing galvanic corrosion issues with regard to ship to shore MV connection		
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 $\beta$ -NiAl		
11.40-12.00	R. Gospos, Corrosion and hydrogen embrittlement monitoring in petrochemical industry		
12.00-12.20	B. Sartowska, Coatings with silicon on zirconium alloys for improving their corrosion resistance		
12.20-12.40	M. Weltshev, Compatibility of polymeric materials with heating oil/biodiesel blends at different temperatures		
12.40-13.00	J. R. Sobiecki, Electrolytical oxidation of plasma nitrided titanium alloy		
13.00-14.30	<b>Lunch</b>		
15.00-18.00	<b>Excursion</b>  <b>(Warsaw Rising Museum)</b>		
20.00-24.00	<b>Barbecue</b>		

<b>Tuesday, May 28, 2019</b>			
<b>Plenary session</b> <b>Chairmen: Anna Biedunkiewicz, Kazimierz Darowicki</b>			
9.00-9.50	<b>Invited lecture:</b> 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	<b>Invited lecture:</b> Stefano P. Trasatti, Green Corrosion Inhibitors from Natural Sources and Biomass Waste		
10.40-11.00	<b>Coffee break</b>		
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<b>Tuesday, May 28, 2019</b>			
13.00- 14.00	<b>Lunch</b>		
	<b>PSK Session</b> <b>Chairmen: Agnieszka Królikowska, Iwona Gajeka</b>		<b>Session WP15</b> <b>Chairmen: Anna Wassilkowska, Günter Schmitt</b>
14.00- 14.40	<b>Invited lecture:</b> Robert Filipek, Nieniszczące metody diagnostyki korozji konstrukcji żelbetowych [Non-destructive corrosion diagnosis methods of reinforced concrete structures]	14.00- 14.20	M. Cieřlik, Intergranular corrosion problems and inspection methods.
14.40- 15.00	M. Jaczewski, Najistotniejsze zmiany w nowym wydaniu grupy norm EN ISO 12944 [Novelisation of the standard ISO 12944]	14.20- 14.40	E. Saebnoori, Corrosion study of some structural alloys in aqueous sodium hydroxide containing sodium ferrate (VI)
15.00- 15.20	G. Adamczewski, Naprawy betonu w konstrukcjach hydrotechnicznych Portu w Gdańsku – materiały i technologie [Material and technological aspects of concrete repairs in the hydrotechnical structures of the Northern Port in Gdansk]	14.40- 15.00	R. Beltrami, Corrosion behavior of AISI 316L SS: additive manufacturing vs. traditional manufacturing
15.20- 15.40	Ewa Langer, Powłoki utwardzane UV – możliwości i ograniczenia [UV curing coatings - possibilities and limitations]	15.00- 15.20	J. Winiarski, The effect of anodic polarization in a choline chloride-oxalic acid eutectic mixture on the surface chemistry of 316 stainless steel
15.40- 16.00	Małgorzata Zubielewicz, Agnieszka Królikowska – Rozwój nowych ekologicznych wyrobów antykorozyjnych i metodologii badan systemów antykorozyjnych w ramach międzynarodowych projektów prowadzonych przez PSK [Development of new ecological anti-corrosive products and methodology of research of anticorrosive systems as part of	15.20- 15.40	P. Ciężak, Corrosion monitoring of Aircrafts based on the "Corrosion Health Monitoring" CHM system in the aspect of damage tolerance aircraft operation

	international projects conducted by PSK]		
16.00-16.20	L. Komorowski – Korozjonista Detektyw – ciekawe ekspertyzy [Corrosion detective - interesting expertise]	15.40-16.00	E. Skolek, Tribocorrosion of nanobainitic steels
		16.00-16.20	E. Ura-Bińczyk, The influence of severe plastic deformation on corrosion resistance and post-corrosion morphology of 7475 aluminium alloy
16.20-16.40	<b>Coffee break</b>		
16.40-18.00	<b>Poster session</b>		
20.00-24.00	<b>Conference Dinner</b>		

<b>Wednesday, May 29, 2019</b>		
	<b>Session WP6</b> <b>Chairmen: Iwona Flis-Kabulska,</b> <b>Krzysztof Rokosz</b>	<b>Session WP12, WP1</b> <b>Chairmen: Pierangela Cristiani, Vit</b> <b>Krivy</b>
9.00-9.20	P. Figiel, Microstructural, corrosion characteristics of nc-(Ti,Mo)C/Ti composites	O. Adetunji, Green Inhibitive Corrosion Performance of Gum Arabic on Mild Steel in Acidic and Basic Solutions
9.20-9.40	J. Ryba, Effect of thermal treatment of biomedical Ti-6Al-4V alloy on corrosion resistance in simulated physiological solutions.	O. Adetunji, Electrochemical Corrosion Inhibition Study of Carbon Steel Using Non-Edible Vegetable Oils in H <sub>2</sub> SO <sub>4</sub> Environment
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	<b>Coffee break</b>	

<b>Wednesday, May 29, 2019</b>	
<b>Session WP7, WP 11</b>	
<b>Chairmen: Halina Krawiec, Stefano Trasatti</b>	
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.
11.20-11.40	K. Kreislova, Corrosion in specific microclimate
11.40-12.00	V. Krivy, Corrosion processes on weathering steel road bridges influenced by deposition of de-icing salts
12.00-12.20	P. Konecny, Evaluation of Durability Related Field Inspection Data From Concrete Bridges under Service
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	<b>Lunch</b>
<b>Young Scientists session</b>	
<b>Chairmen: Anna Dobkowska, Kateřina Kreislová</b>	
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	G. Galant, Survey of protective coatings of underwater constructions using Electrochemical Impedance Spectroscopy
14.50-15.20	<b>Conference Closing</b>