

Technical Program

Sunday, October 20

5:00 – 7:00	Welcome Reception Enjoy drinks and hors d'oeuvres with fellow conference attendees
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Monday, October 21

8:45 – 10:00	Opening Remarks: Nafis Ebrahimi, <i>Conference Chair</i> Welcome Remarks: Jeff Didas, <i>Past NACE President</i>	
	Plenary Speech Extending the Life of Nuclear Power Reactors - A Corrosion Perspective – <i>Presented by Robert Tapping, Canadian Nuclear Laboratories</i>	
10:00 – 10:30	Morning Break	
	McDonald	Cartier
	Environmental and Economic Sustainability Session	Oil & Gas Session
10:30 – 11:00	The Role of the Corrosion Engineer in Contributing towards the United Nations Sustainable Development Goals – <i>Presented by Alexander Williamson, Williamson Integrity Services Ltd.</i>	Advanced Corrosion Resistant Thermal Diffusion Coatings for Enhancement of Equipment Performance in Heavy Oil Production – <i>Presented by Eugene Medvedovski, Endurance Technologies Inc.</i>
11:00 – 11:30	The New NACE Corrosion Management Standard and its Role in Supporting Sustainability – <i>Presented by Richard Eckert, DNV GL</i>	High Temperature-High Pressure Corrosion of Steels in 3.5wt% NaCl and CO ₂ Environment – <i>Presented by Md. Aminul Islam, National Research Council Canada</i>
11:30 – 12:00	Increased Sustainability of Corrodible Assets Through Use of a Corrosion Management Maturity Model – <i>Presented by Elaine Bowman, NACE International</i>	Field and Shop-Applied Pipeline Coatings in Canada (CSA Z245.30) – <i>Presented by Pablo Fernandez Marchi, CSA Group</i>
12:00 – 1:30	Lunch Break	
	Coatings and Linings Session	Cathodic Protection Session
1:30 – 2:00	Properties and Applications of Plasma Electrolytic Oxidation Coatings on Light Alloys – <i>Presented by Vahid Dehnavi, Western University, Surface Science Western</i>	1975 to 2019 – 45 Years of Cathodic Protection & Corrosion Control Experiences and the Changes in the Industry – <i>Presented by Jeffrey Didas, MATCOR, Inc.</i>

2:00 – 2:30	Synthesis and Characterization and Antimicrobial Properties of Ag, Au-Polymer Nanocomposite Films – <i>Presented by Ali Sbaei, Mabruk Oil Operation (Total-Libya)</i>	Decouplers and AC Mitigation Station Decoupling – <i>Presented by Timothy Bechtel, Dairyland Electrical Industries</i>
2:30 – 3:00	Autogenous Chemical and Structural Transition and the Wettability of Electropolymerized PANI Surface – <i>Presented by Yoganandan Govindaraj, IITB</i>	Changing Conditions: New Technology in Flange Isolation – <i>Presented by Glenn Ormsby, Garlock Pipeline Technologies</i>
3:00 – 3:30	Afternoon Break	
	Corrosion in Infrastructure Session	Research and Development Session
3:30 – 4:00	Adverse Effect of Increased Climatic Temperature on Corrosion Resistance of Reinforced Concrete Structures – <i>Presented by Nafiseh Ebrahimi, National Research Council Canada</i>	CUI Mitigation Through Neighborhood Watch and Gravity-Assisted Drainage – <i>Presented by Ahmad Raza Khan Rana, Integrity Products & Supplies Inc.</i>
4:00 – 4:30	Climate Change Impact on Design Service Life of Concrete Bridge Decks Exposed to Chlorides – <i>Presented by Jieying Zhang, National Research Council Canada</i>	Atomic Emission Spectroelectrochemistry (AESEC) in the Investigation of the Behaviour of Alloying Elements – <i>Presented by Jeffrey Henderson, University of Western Ontario</i>
4:30 – 5:00	Hot-Dip Galvanized Rebar Performance in Bridge Decks – <i>Presented by Godfroy St-Pierre, Corbec Inc.</i>	On the Development of Pipeline AC Interference Study Considering Seasonal Soil Characteristics – <i>Presented by Nafiz Imtiaz, Corpro Canada Inc</i>
5:00 – 5:30	Accelerated Corrosion of Carbon Steel Rebar in Presence of Iron Sulfide Minerals in Concrete Mix – <i>Presented by Jon Makar, National Research Council Canada</i>	Investigating the Effect of Chloride Concentration on the Pitting Probability of Copper Using Coupled Multielectrode Arrays – <i>Presented by Sina Matin, University of Western Ontario</i>
5:30 – 7:30	Exhibitor Reception Enjoy drinks and hors d'oeuvres with our Exhibitors.	

Tuesday, October 22

	McDonald	Cartier
	Research and Development Session	Cathodic Protection Session
8:30 – 9:00	Probing the Corrosion Processes Using Electrochemical, Spectroscopic and Microscopic Techniques – <i>Presented by David Shoosmith, University of Western Ontario</i>	Improving Cathodic Protection System Performance with Vapor Corrosion Inhibitors for Aboveground Storage Tank Soil-Side Bottom Corrosion Protection – <i>Presented by Sujay Math, Northern Technologies Intl. Corp.</i>

9:00 – 9:30	Effect of Surface Treatment on Corrosion Resistance of Candidate Alloys for Hydrothermal Biomass Conversion in Near-Critical Water – <i>Presented by Elliott Asare, McMaster University</i>	CP Application on Bare Bottom Plates of Storage Tanks, Considerable IR Drop and Misleading Field Data – <i>Presented by Askar Soltani, SPGC (South Pars Gas Complex)</i>
9:30 – 10:00	Synthesis and Characterization of Imidazoline Corrosion Inhibitors Obtained from Ecuadorian Palm Derivatives (<i>Elaeis guineensis</i>) – <i>Presented by Jhon Quinaluisa, Escuela Politécnica Nacional</i>	Cathodic Protection Current Diversion to Carrier Pipe with VCI Gel Annulus Fill in Cased Pipelines – <i>Presented by Sujay Math, Northern Technologies Intl. Corp.</i>
10:00 – 10:30	Morning Break	
10:30 – 11:00	Effect of Impurities on Copper Corrosion Performance – <i>Presented by Sridhar Ramamurthy, University of Western Ontario</i>	CP and AC Considerations for New Pipeline Installed in Granite – <i>Presented by Scott McLean, Enbridge Gas Inc.</i>
11:00 – 11:30	Half-Cell Potential Guidelines for Corrosion Assessment of Galvanized Reinforcing Steel in Concrete Structures – <i>Presented by Jieying Zhang, National Research Council Canada</i>	Review of an In-House GIS-Based CP Data Collection System – <i>Presented by Stephen Mott, Enbridge Gas Inc.</i>
11:30 – 12:00	Material's Investigations and Impact on Viscoseal Performances – <i>Presented by Fatima Bouyahia, National School of Applied Science Morocco</i>	Cathodic Protection System for Subsea Oil & Gas Development; Challenges, Solution and System Reliability – <i>Presented by Chijindu Nzuruba, Lujo Integrated Services Limited</i>
12:00 – 1:30	Lunch Break	
	Oil & Gas Session	
1:30 – 2:00	Best Approach for Determining the Overall Performance of Corrosion Inhibitors During Oilfield Trials for Water Injection and Crude Oil Transport Pipeline – <i>Presented by Joseph Emmanuel, ADNOC Onshore</i>	Student Session
2:00 – 2:30	Efficient Design and Optimizing Parameters of Sour Gas Conditioning Plant – <i>Presented by Abdulkarem Amhamed, Qatar Environment and Energy Research Instantiate</i>	
2:30 – 3:00	Afternoon Break	
	Monitoring and Inspection Session	
3:00 – 3:30	Evaluating AC Interference Corrosion Risk and Mitigation Effectiveness for NACE SP21424 Compliance – <i>Presented by Jamey Hilleary, Elecsys Corporation</i>	Student Session
3:30 – 4:00	Coating Thickness Measurement Technology & Factors that Affect Your Readings – <i>Presented by Gary Efronson, Fischer Technology Inc.</i>	

4:00 – 4:30	Managing the Threat of Hydrogen Induced Cracking at Aging Facilities – <i>Presented by Mohamed Saif Eldin Attia, Saudi Aramco</i>	
4:30 – 5:00	Technologies for Network Integrity – <i>Presented by Ihsan Al-Taie, Saudi Aramco</i>	
5:00 – 7:00	Evening Reception Enjoy drinks and hors d'oeuvres as we announce the conference awardees	

Wednesday, October 23		
	McDonald	Cartier
	Case Studies Session	Materials Selection Session
8:30 – 9:00	Technical Study of Scale Formation in the Flow Lines of Some Oil Wells at Mabruk Field – <i>Presented by Ali Sbaei, Mabruk Oil Operation (TOTAL-Libya)</i>	
9:00 – 9:30	The Use of Sealing Materials to Mitigate Corrosion – <i>Presented by Anthony Currie, Flexitallic Canada</i>	Why Thermoplastics Fail - Key Engineering Considerations for a Long, Reliable Life – <i>Presented by Bryan Hutton, Lubrizol</i>
9:30 – 10:00	Stress Corrosion Cracking of HVAC Copper Lines – An Unintended Consequence of Moisture Exposure During Construction – <i>Presented by Alan Humphreys, Simpson Gumpertz and Heger</i>	The Role of the Copper-to-Steel Area Ratio in the Galvanic Corrosion of Steel in the Presence of Chloride – <i>Presented by Lindsay Braithwaite, University of Western Ontario</i>
10:00 – 10:30	Morning Break	
10:30 – 11:00	Application of Good Experience - Success Analysis – <i>Presented by Joseph Emmanuel, ADNOC Onshore</i>	An Electrochemical Study of the Integrated Effect of Temperature, Solution pH, and Sulphide Concentration on the Corrosion of Copper Nuclear Waste Containers – <i>Presented by Mengnan Guo, Western University</i>
11:00 – 11:30	Study on Elemental Sulfur Formation from Black Powder Deposits – <i>Presented by Yousef Khuraibut, Kuwait Oil Company</i>	Corrosion study of five high performance metals subjected to high pressure and elevated temperatures in supercritical CO ₂ environment – <i>Presented by Margarita Ilinich, CanmetENERGY – Ottawa</i>
11:30 – 12:00	Microbiologically Influenced Corrosion Investigation for Refinery Crude Stabilization – <i>Presented by Abdulmohsen Al-Humam, Saudi Aramco</i>	
12:00	ADJOURN	