


WEDNESDAY 23rd MAY, 2018

13:30	All participants meet in front of building 101 (main building) at The Technical University of Denmark (DTU), Anker Engelunds Vej 1, 2800 Kgs. Lyngby, Denmark where buses will take everyone to the M/S Maritime Museum of Denmark in Helsingør
14:45	<p data-bbox="878 438 1440 464">Guided tour of the museum and light refreshments.</p>  <p data-bbox="468 938 1834 1059">The M/S Maritime Museum of Denmark tells the story of Denmark as one of the world's leading maritime nations, in an evocative and dramatic way, within an innovative architectural setting designed by the award winning architectural firm, BIG - Bjarne Ingels Group. The M/S Maritime Museum of Denmark is the Danish national maritime museum, and the museum's patron is Her Majesty Queen Margrethe II.</p>
17:00	The company Elplatek A/S will host a tour of the company followed by a light reception sponsored by Elplatek A/S. Elplatek A/S supplies advanced galvanic surface treatments to the telecoms, medico, electronics industries and the cleantech area.
19:30	Buses will take everyone back to DTU and Hotel Scandic Eremitage.

THURSDAY 24th MAY, 2018

	Presenter	Title	Affiliation	Presenter	Title	Affiliation
8:45-9:15		Registration and breakfast				1st Floor
9:15-9:25	Lisbeth Hilbert	Welcome				Force Technology
9:25-9:55	Maria Østergaard	Keynote: Corrosion Challenges in the Chemical Industry				Haldor Topsøe
	Metallurgy: Microstructure and microalloying change corrosion properties Chair: C. Leygraf (KTH), Co-chair: L. Hilbert (FORCE) Location: Room 1 (1 st Floor)					
9:55-10:15	Christofer Leygraf	Computational Studies of Micro-Galvanic Corrosion in Al-Alloys				KTH Royal Institute of Technology, Sweden
10:15-10:35	Giorgio Giovanni Battista Zaffaroni	Microstructural and Corrosion Issues of High Frequency Welded Aluminium Tubes				DTU Mekanik, Denmark
10:35-11:00	Break (1st Floor)					
11:00-11:20	Min Liu	DFT Calculations of Adsorption of H ₂ O, OH and Cl on Aluminum and Intermetallic Phases and Effect on Surface Properties				KTH Royal Institute of Technology, Sweden
11:20-11:40	Elisa Isotahdon	Corrosion Behaviour of Sintered Nd-Fe-B Magnets - Summary of Studies on Mechanism, Losses and Protection				VTT Technical Research Centre of Finland
11:40-12:00						
12:00-13:00	Lunch Glass Hall (Ground Floor)					
	Stainless steel as corrosion resistant alloy Chair: O. Forsén (Aalto University), Co-chair: A. Riis (Grundfos) Location: Room 1 (1 st Floor)			Corrosion in Electronics and Dewpoint Corrosion Chair: R. Ambat (DTU Mekanik), Co-chair: M. Jellesen (DTU Mekanik) Location: Room S01 (Ground Floor)		
13:00-13:20				Morten Jellesen	Effect of Humidity on Conformal Coatings used for Protection of Electronics	DTU Mekanik, Denmark
13:20-13:40	Marianna Johnsen	Safety Window for Corrosion Evaluation of Disinfection Agents	Force Technology, Denmark	Salil Joshy	Humidity accumulation inside electronic enclosures	DTU Mekanik, Denmark
13:40-14:00	Arman Dastpak	Lignin as a coating for improved corrosion resistance of 316L stainless steel	Aalto University, Finland	Kamila Piotrowska	Water Film Formation on PCBA Surfaces - A factor contributing to premature failures in electronics	DTU Mekanik, Denmark
14:00-14:20	Uffe Ditlev Bihlet	Corrosion resistance of surface finished 3D printed AISI 316L stainless steel	Force Technology, Denmark	Abhijeet Yadav	Corrosion Induced Failure Mechanism of Hearing Aid Electronic Circuitry and Battery Contacts	DTU Mekanik, Denmark
14:20-14:40	Cristian Torres	Effect of Tungsten on the Critical Crevice Temperature of 25Cr Duplex Stainless Steel in Seawater	NTNU, Norway	Feng Li	Corrosion Reliability Of Lead-Free Solder Systems Used In Electronics	DTU Mekanik, Denmark
14:40-15:10	Break (1st Floor)					
	Corrosion Risks related to Off-shore Structures Chair: O. Forsén (Aalto University), Co-chair: L. Hilbert (FORCE Technology) Location: Room 1 (1 st Floor)					
15:10-15:30	Bertil Sandberg	Cathodic protection effective against microbiologically induced corrosion	Swerea KIMAB, Sweden	Emil Vainio	Corrosion Caused by Deliquescent Deposits in Biomass Conversion	Åbo Akademi University, Finland
15:30-15:50	Roy Johnsen	Effect of cathodic polarisation on the corrosion properties of 25Cr duplex stainless steel in seawater.	NTNU, Norway	Peiyuan Pan	Corrosion caused by deposits in the flue gas cleaning system in biomass and coal-fired power plants	DTU Mekanik, Denmark
	Olof Forsén	The Effect Of Hydrogen On High-Strength Steels During Pickling	Aalto University, Finland	High Temperature Corrosion in Thermal Power Production Chair: R.I. Thorarinsdottir (Svinna Engineering), Co-chair: M. Montgomery (DTU Mekanik) Location: Room S01 (Ground Floor)		
15:50-16:10				Yohanes Chekol Malede	KCl-induced corrosion of Cr-rich phases	DTU Mekanik, Denmark
16:10-16:30	Roy Johnsen	Cathodic protection by distributed sacrificial anodes	NTNU, Norway			
16:30-18:00	Free time and refreshments					
18:15	Bus transfer to Brede Spisehus to Conference Dinner					

FRIDAY 25th MAY, 2018

	Presenter	Title	Affiliation	Presenter	Title	Affiliation
8.30-9.00	Breakfast					
	Corrosion Risks related to Off-shore Structures Chair: O. Forsén (Aalto University), Co-chair: L. Hilbert (FORCE Technology) Location: Room 1 (1 st Floor)			High Temperature Corrosion in Thermal Power Production Chair: R.I. Thorarinsdottir (Svinna Engineering), Co-chair: M. Montgomery (DTU Mekanik) Location: Room S01 (Ground Floor)		
9:00-9:20	Xavier Hallopeau	Case Study Analysis of Wharf Repair Projects	Freyssinet International & Cie, France	Melanie Montgomery	High Temperature Fireside Corrosion Of Lean Austenitic Steels In Power Plants With Different Fuels	DTU Mekanik, Denmark
9:20-9:40	Victor Marcos-Meson	Accelerated weathering of steel fibre reinforced concrete exposed to chlorides	DTU/COWI/VIA Denmark	Corrosion Issues in the Geothermal Industry Chair R. Thorarinsdottir (Svinna Engineering), Co-chair: M. Montgomery (DTU Mekanik) Location: Room S01 (Ground Floor)		
				Andri Isak Thorhallsson	Corrosion Prevention in Hot Water Storage Tanks	University of Iceland, Iceland
9:40-10:00	Corrosion challenges in Oil & gas industry Chair: T. Hemmingson (University of Stavanger), Co-chair: T.L. Skovhus (VIA University College) Location: Room 1 (1 st Floor)					
	Yan Yang	Morphology and characteristics of iron corrosion scales formed under different depth of oil wellbore in Dan oilfield	DTU Mekanik, Denmark	Troels Mathiesen	Corrosion of Carbon Steel in Aggressive Geothermal Brines	Force Technology, Denmark
10:00-10:20	Rolf Nyborg	Top of Line Corrosion in Gas Pipelines with Organic Acid and Low CO ₂	Institute for Energy Technology, Norway			
10:20-10:40	Break (1st Floor)					
10:40-11:00	Tor Hemmingsen	Electrochemical Oxygen Removal from Seawater	University of Stavanger, Norway	Ricardo Losada	High Performance Coatings for the Geothermal Industry	Danish Technological Institute, Denmark
11:00-11:20	Riccardo Rizzo	Experimental investigation on the effect of seawater ingress on the corrosion behavior of production tubings	DTU Mekanik, Denmark	Andri Isak Thorhallsson	Corrosion Testing in Simulated High Temperature Environment	University of Iceland, Iceland
11:20-11:40	Kristian Eriksen	Welding of CRA with insufficient purging gas - Impact on mechanical properties and corrosion resistance	AkerBP AS, Stavanger, Norway	Elisa Isotahdon	Tribocorrosion behaviour of Co-Cr-W alloy	VTT Technical Research Centre of Finland
11:40-12:00	Torben Lund Skovhus	Recent Developments in Prediction and Modelling of Microbiologically Influenced Corrosion in the Oil and Gas Industry	VIA University College, Denmark	Jan Heselmans	Hydrochloric Acid Stress Corrosion Cracking in Indoor Swimming Pools	Ironhaven BV, The Netherlands
12:00-13:00	Lunch Glass Hall (Ground Floor)					
	Novel and advanced techniques for corrosion assessment Chair: C. Leygraf (KTH), Co-chair: K. Nielsen (DTU-Energi) Location: Room 1 (1 st Floor)					
13:00-13:20	Jinshan Pan	Passivity breakdown of advanced alloys – studied by electrochemical and synchrotron-based techniques				KTH Royal Institute of Technology, Sweden
13:20-13:40	Konsta Sipilä	Application of Controlled-Distance Electrochemistry-Arrangement on Electrochemical Impedance Spectroscopy Measurements in Low Conducting Electrolyte				VTT Technical Research Centre of Finland
13:40-14:00	Nina Bruun	A Laboratory Method to Determine the Corrosion of Metals in Contact with Bio-Oils				Åbo Akademi University, Finland
14:00-14:20	Pablo Roseiro	In-situ and operando studies of anodization of AA7075 by electrochemical AFM, electrochemical impedance spectroscopy and x-ray reflectivity				KTH Royal Institute of Technology, Sweden
14:20-14:40	Cem Örneç	Towards Understanding of Localised Corrosion of AA6063-T5 Aluminium Alloy – A Correlative Study Using SKFPM and In-situ AFM				KTH Royal Institute of Technology, Sweden
14:40-15:00	Lisbeth Hilbert	Closing remarks				