

CONFERENCE PROGRAM

Sunday - June 9th	15:30-17:00	Room Levante - 2nd Floor General Annual Meeting of AMPP ITALY CHAPTER (reserved to AMPP Italy Chapter Members)
	17:00-18:00	Room Zeffiro - 2nd Floor AMPP European Area Task Force Meeting (reserved to AMPP delegates)
	18:10-18:50	Room Levante - 2nd Floor Plenary Lecture - Amir Eliezer - AMPP Past Immediate Chair - <i>"AMPP generating its future STRONGER TOGETHER"</i>
	19:00-21:00	Exhibition Hall WELCOME COCKTAIL and EXPO GRAND OPENING

POSTER SESSION

Sunday to Tuesday June 9th-11th	F.Ceriani, L.Casanova, A.Brenna, M.Ormellese - Politecnico di Milano - Italy, "Sealing post-treatments of coatings produced by plasma electrolytic oxidation (PEO) on aluminum 2024"	E.Messinese, M.Ormellese, A.Brenna - Politecnico di Milano - Italy, "Corrosion rate estimation under sweet corrosion conditions: use of the Tafel-Piontelli model"	B.M.Schallock, M.Gastaldi - Politecnico di Milano - Italy, "Effectiveness of accelerated test methods used to evaluate the resistance to chlorides penetration on coated concrete"	L.Paterlini, G.Re, F.Bolzoni, L.Vergani, M.Ormellese - Politecnico di Milano - Italy, "Measurement of hydrogen diffusion coefficient in steel by electrochemical permeation methods and its employment in FEM simulations"	E.Grifasi, F.Boragina, C.Criaco, C.Rossi, P.Piccardo, R.Spotorno - Genoa University - Italy, "Correlation between heat treatment, mechanical and corrosion resistance of 3D printed AISI 316L by laser powder bed fusion"
	A.Kotkowska, A.Olesiński, A.Maciej, A.Stolarczyk, A.Blach-Grzechnik, M.Sowa, W.Simka - Gliwice University - Poland, "Corrosion resistance of surface-modified NiTi alloy"	J.Grzonka, A.Olesiński, P.Chulkin, M.Bik, P.Jeleń, M.Sowa, W.Simka - Silesian University of Technology - Poland, "Post-treatment of plasma electrolytic oxidation coatings on 6061 aluminum alloy promoted by soft sparking"	L.Nani, M.Cabrini, S.Lorenzi, C.Sergi, T.Pastore - Bergamo University - Italy, "Effect of different additive manufacturing techniques on the microstructure and corrosion resistance of Ti-6Al-4V alloy"	M.Ahmad, L.Paglia, F.Marra, V.Genova, G.Pulci - University of Rome - Italy, "High temperature degradation mechanism of gas turbine engine components operating with unconventional fuels"	A.Elgahani - De Montfort University - UK, "Reliability of response surface methodology for predicting optimum spot-welding parameters"

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Room Scirocco & Libeccio - 3rd Floor								
Monday - June 10th	08:30-08:45	Opening Remarks						
	08:45-09:20	Plenary Lecture - Alan Thomas - AMPP CEO - <i>AMPP Reimagined</i>						
		Rooms - 3rd Floor		Rooms - 2nd Floor			Room - 1st Floor	
		Scirocco	Libeccio	Levante	Ponente	Aliseo	Bora	
		Energy Transition	Energy Transition	Cathodic Protection	Coating & Linings	Applied Research in Academia	CRA & Welding	
		Carbon Capture	Sour Service	Onshore	for Renewable Energies		CRA & Welding	
		<i>Chair: R.Morana - M.Billingham</i>	<i>Chair: L.Smith - B.Gandolfi</i>	<i>Chair: V.Saviello - I.Magnifico</i>	<i>Chair: C.Vie - M.Malfanti</i>	<i>Chair: F.Bolzoni - S.Martinez</i>	<i>Chair: B.Ghai - M.De Marco</i>	
		09:20-09:45	Srdjan Nestic Ohio University <i>Corrosion of Carbon Steel in CO2 Environments</i>		Ugo Marinelli F.M. Engineering <i>Machine learning in corrosion fields</i>	Kristin Leonard AMPP Global Center Chair <i>Quality and the Future of Coatings & Linings</i>	Pascal Collet European Federation of Corrosion <i>EFC - A Federation of opportunities</i>	Roger Francis Nickel Institute <i>Selecting Stainless Steels for industrial processes: the importance of Redox Potential</i>
		09:45-10:10			Round Table <i>Is there an environmental impact of CP? A necessary discussion before standardization</i>		Fabio Bolzoni Politecnico di Milano Edoardo Proverbio Università degli studi di Messina <i>Corrosion education in Italian Universities and scientific societies</i>	
		10:10-10:45	Coffee Break - Exhibit Hall					
	10:45-11:10	M.Billingham, L.Smith - Larkton - UK, "The Carbon Capture challenges - Projects and materials selection impact", Paper No. 019	C.Bosch, T.Haase - Europipe - Germany, "SSC performance of TMCP-based large-diameter pipes in high H2S partial pressure environments", Paper No. 173	M.De Marco, E.Ferrari, E.Adile, F.F.Wu - Istituto Italiano della Saldatura - IIS - Italy, "Internal corrosion damages close to monolithic isolation joints placed above ground in a pig traps", Paper No. 036	M.Harrison, M.Banks, L.Egensperger, E.Bidwell, N.P.Wickramaratne, P.Liu - Sherwin-Williams - UK, "Tank lining challenges for the switch to renewable feedstocks", Paper No. 001	L.Gritti, S.Lorenzi, D.Coffetti, M.Pelucchi, M.Cabrini, T.Pastore - Bergamo University - Italy, "Determination of the concentration of diffusible hydrogen in pipeline steels: comparison between degassing and desorption methods", Paper No. 119	B.S.Vieira, J.Höwing - Alleima - Sweden, "UNS N08935 - Bridging the gap between stainless steels and nickel alloys", Paper No. 002	
	11:10-11:35	H.Mahgerefteh, S.Martynov, S.Brown - UCL London - UK, "Impact of CO2 stream impurities on ductile and brittle fractures in CO2 pipelines", Paper No. 077	J.Shimamura, D.Izumi, Y.Matsui, N.Ishikawa, J.Kondo - JFE - Japan, "SSC resistant X65 UOE linepipe for severe sour environment", Paper No. 074	C.Ruppi - Alfa Engineering - Italy, "Calculation of current leakage and capacitive value of dielectric joints", Paper No. 141	K.Blankenship, J.Lawson - Carboline - USA, "Corrosion protection systems to extend service life and reduce embodied carbon of offshore wind towers", Paper No. 047	B.Ter-Ovanessian, S.Marcelin, B.Normand, J.Galipaud, Z.Zhang - Insa-lyo - France, "Electrochemical impedance spectroscopy investigation of the role of alloying elements (Cr, Fe) on the passive film properties of Ni based alloys", Paper No. 081	C.Tigerstrand, S.Hägg Mameng, M.Frigo - Outokumpu - Finland, "Atmospheric corrosion resistance of as-delivered and fabricated duplex stainless steel: results of a field exposure in Italy", Paper No. 015	
	11:35-12:00	D.Sandana, I.Lopez, D.Wynne - Rosen - UK, "Management of the cracking threat in CO2 pipelines", Paper No. 112	Y.Nomura, T.Fujishiro, N.Yoshimura, T.Muraki - Nippon Steel - Japan, "Effect of tempering on sour-resistant line pipe with excellent low-temperature toughness", Paper No. 178	S.Javia - Matcor - USA, "Above ground storage tank – Case study of a linear anode based cathodic protection system on new and existing tank.", Paper No. 158	R.Holliday - PPG - UK, "High pressure hydrogen gas jet fires – Can in intumescent coating withstand the heat and erosive forces involved?", Paper No. 121	S.Lorenzi, T.Persico, D.Asperti, M.Cabrini, F.Brevi, T.Pastore - Bergamo University - Italy, "Corrosion behavior and material qualification pathway of Alloy 625 manufactured by different additive manufacturing technologies", Paper No. 126	M.De Marco, E.Adile - Istituto Italiano della Saldatura - IIS - Italy, "High temperature performance of alloy UNS S30815 welded joints", Paper No. 039	
	12:00-12:25	A.Gingell, S.Pillot, S.Le Manchet, J-C.Gagnapain - Industeel ArcelorMittal - France, "Materials for carbon capture and storage", Paper No. 182	J.Moloney - ChampionX - USA, "Development of a versatile continuous application based corrosion inhibitor to mitigate top-of-the-line corrosion under both sweet and sour operating conditions", Paper No. 022	M.Hardy - Cathodic Protection - UK, "Specification, design, installation and commissioning of cathodic protection systems for mixed hazardous and non-hazardous locations", Paper No. 061	H.Duckworth - AkzoNobel - UK, "CSP mitigation against Liquid Hydrogen Exposure", Paper No. 133	A.Rahma - National Institute of Technology Srinagar - India, "Study of high temperature oxidation behaviour of nanostructured Co-Al and Cr/Co-Al coatings on superni-718 substrate in adverse environment", Paper No. 013	J.Höwing, O.Öhlin - Alleima - Sweden, "UNS N08935 as alternative to nickel base alloys in renewable processes", Paper No. 004	
	12:25-14:00	Lunch Break - Exhibit Hall						
	13:00-15:30	Poster Session Presentation by Authors - Module 5 - Exhibit Hall						

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	Rooms - 3rd Floor			Rooms - 2nd Floor		Room - 1st Floor	
	Scirocco	Libeccio	Levante	Ponente	Aliseo	Bora	
Monday - June 10th		Energy Transition	Energy Transition	Cathodic Protection	Coating & Linings	Applied Research in Academia	CRA & Welding
		Carbon Capture	Sour Service	Offshore	Standards & Qualification		
		<i>Chair: R.Morana - M.Billingham</i>	<i>Chair: L.Smith - B.Gandolfi</i>	<i>Chair: I.Magnifico - V.Saviello</i>	<i>Chair: C.Vie - M.Halliday</i>	<i>Chair: F.Bolzoni - S.Martinez</i>	<i>Chair: B.Ghai - M.De Marco</i>
	14:00-14:25	Marc Wilms Shell International <i>Corrosion concerns in</i> <i>Carbon Capture and Sequestration</i> <i>projects -</i> <i>A call for action</i>	S.Easapour, M.Fouladi - Pars Oil and Gas Company - Iran, "Occurrence of sour TLC in multiphase offshore pipelines - Part 1: Effect of sour TLC on motivating environmental cracking - A case study on recovered pipes", Paper No. 110/A	P.Marcassoli, S.Pighi, M.Poldi, M.Tironi, L.Torri - Cescor - Italy, "FEM and BEM modelling application in cathodic protection design and retrofitting: optimization scenarios", Paper No. 003	F.de Smet, H.de Vries - Montipower - Netherlands, "How to control hexavalent chromium exposure during coating rehabilitation activities, a study into to minimise exposure risks during surface preparation activities", Paper No. 042	L.Casanova, M.Menegazzo, F.Goto, M.Pedefferri, L.Duò, M.Ormellesse, G.Bussetti - Politecnico di Milano - Italy, "Studying the activation of titanium in sulfuric acid by in-situ techniques", Paper No. 014	B.Holmes, D.Holiver, C.Punshon, S.Smart, E.Broughton - TWI - UK, "Corrosion performance of electron beam welded duplex stainless steel", Paper No. 109
	14:25-14:50		M.Fouladi, S.Easapour - Nargan - Iran, "Occurrence of sour TLC in multiphase offshore pipelines - Part 2: Dependency of sour TLC to water condensation rate and temperature - A case study on multiphase offshore pipelines", Paper No. 110/B	L.Cafferata - Polipodio - Italy, "Evolution in the application of the galvanic anodes with the recent regulations and the development of the protective coatings", Paper No. 147	A.M.Dam - Damcoating - Netherlands, "Developments in international standards", Paper No. 073	S.Lorenzi, M.Locatelli, D.Asperti, L.Nani, T.Persico, M.Cabrini, T.Pastore - Bergamo University - Italy, "Intergranular corrosion assessment and stress corrosion cracking susceptibility of high strength aluminium alloys supported by DIC technique", Paper No. 125	S.Rossi, S.M.Leso, M.Calovi, M.Fedel - Trento University - Italy, "Investigation into the corrosion characteristics of stainless steel in the food industry", Paper No. 115
	14:50-15:15	E.Torselletti, A.Canestrari, D.Scarsciafratte, A.Ferrulli, E.Aloigi, A.Di Felice - Saipem - Italy, "CO2 transport through pipelines - A proposed design approach for linepipe sizing requirements", Paper No. 008	L.Torri, P.Policarpo, S.Franci, A.Pontarollo, M.E.Gennario, F.Tedesco, F.Cena - Eni - Italy, "Heavy wall thickness carbon steel pipelines in sour service: performances and characterization in H2S environments", Paper No. 169	E.Martinelli, G.Martinelli, V.Genco - ICP Foundry - Italy, "Production methods of galvanic anodes for marine applications", Paper No. 034	M.Castano - EniProgetti - Italy, "Qualification approaches for coatings for buried or submerged pipelines used in pipeline transportation systems. Some interesting introductions from ISO 21809 series.", Paper No. 136	F.Ceriani, L.Casanova, A.Brenna, M.Ormellesse - Politecnico di Milano - Italy, "Incorporation of Nano-Particles in Plasma Electrolytic Oxidation (PEO) Coatings Produced on Aluminum Alloys", Paper No. 027	P.Certini, B.Rivolta, R.Gerosa, D.Panzeri, G.Orlandi, S.Emedoli - SMT - Italy, "Influence of the aging treatment on the corrosion and the mechanical properties of conventional and additive manufactured Alloy 625", Paper No. 017
	15:15-15:40	A.Bologna, P.Rigamonti, M.Fortis, A.Gottardi, B.Strauss - Tecma - Italy, "Latest ILI technology enables the utilisation of existing infrastructure to accelerate a CCS project", Paper No. 023	K.Terada, Y.Matsui, H.Imanaka, T.Fujiwara, D.Izumi - JFE - Japan, "Development of non-destructive hardness evaluation technique for surface of TMCP steel plates", Paper No. 056	Cathodic Protection	Coating & Linings	S.Nazar, E.Proverbio - University of Messina - Italy, "Numerical modeling of hydrogen induced cracking in hydrogen transportation systems", Paper No. 160	C.Herrera, M.Seifert - Deutsche Edelsahlwerke SpecialtySteel - Germany, "High strength austenitic stainless steels for hydrogen applications at high pressure", Paper No. 135
				Management of Interference	Application & Maintenance		
			<i>Chair: R.Ballerini - S.Tremolada</i>	<i>Chair: P.Donelli - M.Malfanti</i>			
			T.Castillo, J.Warner - Dairyland - USA, "Introduction to DC decouplers", Paper No. 087	F.Castelli, M.Delucchi, F.Valenza, F.Garaventa, M.Faimali, T.Turturro, M.Losurdo, A.Benedetti - CNR - Italy, "How ICCP anodes affect nearby biocide-free foul control paints for ships' hulls", Paper No. 046			
15:40-16:05	G.Mannucci, G.Malatesta, L.Mancini, A.Smith, A.Fonzo, S.Olcese, L.Gaggero, F.Fratoni, F.M.Travaglia, S.Groppi, S.Zanzi - Rina-CSM - Italy, "Ravenna CCS project – Repurposing of existing offshore upstream pipelines for CO2 transportation", Paper No. 180	M.Wilms - Shell International - Netherlands, "Novel cracking mechanism on quenched & tempered carbon steel line pipe exposed to sour service", Paper No. 156	A.Del Moro, U.Marinelli - F.M. Engineering - Italy, "Impact of super-performance coatings on cathodic protection and AC current interference mitigation systems", Paper No. 020	P.Donelli, M.Donelli - Donelli - Italy, "Maintenance of penstock's internal coatings: safety, environmental sustainability and durability improvement, thanks to the automation", Paper No. 057	E.Messinese, M.Ormellesse, A.Brenna - Politecnico di Milano - Italy, "Tafel-Piontelli model for acidic corrosion: theoretical developments and engineering applications on carbon steel exposed to weak acids", Paper No. 054		
16:05-16:30	Coffee Break - Exhibit Hall						

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Monday - June 10th		Energy Transition	Energy Transition	Cathodic Protection	Coating & Linings	Applied Research in Academia	
		Carbon Capture	Sour Service	Management of Interference	Application & Maintenance	CRA & Welding	
		<i>Chair: R.Morana - M.Billingham</i>	<i>Chair: L.Smith - B.Gandolfi</i>	<i>Chair: R.Ballerini - S.Tremolada</i>	<i>Chair: P.Donelli - M.Malfanti</i>	<i>Chair: F.Bolzoni - S.Martinez</i>	<i>Chair: B.Ghai - M.De Marco</i>
	16:30-16:55	G.Mannucci, G.Malatesta, L.Mancini, A.Smith, A.Fonzo, S.Olcese, F.Fratoni, M.Bronzini, L.Bacchi - Rina-CSM - Italy, "Feasibility assessment for the repurposing of existing onshore pipelines for CO2 transport", Paper No. 152	H.Marchebois, J.P.Blanc, L.Galliot - Total Energies - France, "Local Hard Zones on TMCP Large Diameter Line Pipes: How diligent end-users should be to meet sour service resistance of pipelines", Paper No. 186	I.Magnifico - Automa - Italy, "Influence of overprotection on AC corrosion. Analysis of a real case", Paper No. 068	M.Hornig - TIB Chemicals - Germany, "Developing the all-in-one solution – Getting the job done with all easy to use 1:1 polyurethane coating", Paper No. 064	R.Colloca, A.Casavola, M.Forouzanfar, G.Gagliardi, F.Tedesco, T.Giambartolomei, E.Muraca - Techfem - Italy, "Probabilistic approaches for corrosion rate estimation in pipelines: a comparative study and simulation case analysis", Paper No. 100	T.Córdoba, V.Matres, M.de Nicolás-Morillas, L.Segovia, N.Baladés, D.L.Sales, E.Macía - Acerinox - Spain, "Corrosion resistance of 3D arc and wire printed stainless steel components", Paper No. 026
	16:55-17:20	F.Locati, B.Gandolfi, P.Deodati, N.Fontana - EniProgetti - Italy, "Main challenges for material selection in CCS projects", Paper No. 148	A.Al-Hashem, S.Mukadam - KISR - Kuwait, "Mitigation of corrosion in oil and gas production facilities by corrosion resistant alloys", Paper No. 058	M.Glinka - EMPIT - Germany, "Comparative analysis of CMI and DCVG in corrosion protection for buried pipelines", Paper No. 177	S.Renouard, C.Favenec, F.Guillemot, P.Le Calvé, R.Mascolo, J-M.Quenez, H.Vincent - AMBPR - France, "Anticorrosion for ship maintenance enters a new era with the advent of automation", Paper No. 105	M.Fedel, A.Cristoforetti, S.Rossi, F.Deflorian - Trento University - Italy, "Investigation into filiform corrosion evolution on painted carbon steel under different aging conditions", Paper No. 116	C.Casu, M.De Marco, M.Auditore - Istituto Italiano della Saldatura - IIS - Italy, "Welding of type AISI 444 and AISI 316L stainless steel for the food industry (FCM): effect of the quality of backing gas on metal migration", Paper No. 163
	17:20-17:45	H.Sonke, Y.Zheng - Shell - Netherlands, "CO2 transport and injection, effect of impurities, understanding of reactions and consequences", Paper No. 010	M.Kirschner, T.Auinger, S.Hinz - Voestalpine - Austria, "Alternative CRA solutions for clad line pipe", Paper No. 018	L.Spisni - Inrete Distribuzione Energia - Italy, "Commissioning of a cathodic protection system of an existing gas distribution network - Interesting findings and energy efficiency approach", Paper No. 071	P.de Bonnafos - Trenton - France, "Evaluation of Wax based tape coating exposed to atmospheric condition for more than 20 years", Paper No. 151	H.Moradi, G.Grifò, G.Consolo, F.Milazzo, E.Proverbio - University of Messina - Italy, "Numerical investigations on localized corrosion from single and multiple pits in fuel tanks", Paper No. 159	O.Öhlin, D.Gullberg - Alleima - Sweden, "Corrosion properties of the recently developed super duplex stainless steel UNS S83071", Paper No. 164
17:45-18:10	A.Smith, L.Intiso, G.Mannucci - Rina-CSM - Italy, "Hydrogen embrittlement in CCS pipelines: is it a concern?", Paper No. 124	V.Dreilich, T.Hofman, J.Vera, I.Palmieri, F.dos Santos, Z.Panossian, J.Alejandro - DNV - Brasil, "Challenges of testing CO2 stress corrosion cracking in small scale", Paper No. 137	T.Castillo, J.Warner, J.Sebila - Dairyland - USA, "AC mitigation and cathodic protection: how decouplers make a difference", Paper No. 088	L.Comel - G.M.A. - Italy, "Coating systems to optimize durability and energy efficiency of heat exchangers", Paper No. 175	M.Delucchi, A.Lagazzo, A.Mangolini, G.Innocenti, A.Bottaro - University of Genoa - Italy, "An attempt to produce liquid infused surfaces starting from organic coatings filled with zeolites", Paper No. 165		
09:30-19:00	Exhibit Hall EXPO						
20:00	Villa dello Zerbino - Gala Dinner						

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		Rooms - 3rd Floor		Rooms - 2nd Floor			Room - 1st Floor
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Tuesday - June 11th		Energy Transition	Energy Transition	Cathodic Protection	Coating & Linings	Corrosion Inhibitors & Monitoring	CRA & Welding
		Carbon Capture	Hydrogen Service	Looking to the future	Corrosion Under Insulation		
		<i>Chair: R.Morana - M.Billingham</i>	<i>Chair: L.Bacchi - G.Mannucci</i>	<i>Chair: S.Tremolada - P.Marcassoli</i>	<i>Chair: N.Wilds - C.Vie</i>	<i>Chair: I.Borsic - E.Bloomfield</i>	<i>Chair: B.Ghai - M.De Marco</i>
	08:30-08:55	I.Ali, R.Morana and S.Hassani - BP - UK, "Setting CO2 specifications to safeguard mechanical integrity for different modes of CO2 transport", Paper No. 079	N.Gallon EPRG - Germany <i>EPRG hydrogen pipelines integrity management and repurposing guideline white paper</i>	T.Bellezze, P.Forcellese, G.Giuliani - Ancona University - Italy, "Study of cathodic protection inside domestic boilers to produce hot water", Paper No. 093	J.Tacq - Sirris - Belgium, "Corrosion Under Insulation – Controlled testing of sensors for CUI monitoring and development of a methodology for CUI coating life evaluation", Paper No. 050	Frank Hornsby Cormetrics 2 - Canada <i>Pipeline corrosion inhibitor basic principles</i>	K.Picker - Alleima - USA, "Evaluation of the Stress Distribution and the Impact on Corrosion Properties of U-Bends in Different Materials Commonly used in Petroleum Refineries. ", Paper No. 168
	08:55-09:20	B.H.Morland, G.Svenningsen, H.Sonke - IFE - Norway, "Comparing impurity concentrations effect of both liquid and gas CO2 transport ", Paper No. 051	C.Vailati, V.Colombo, G.Re - Cescor - Italy, "Sour environment and high-pressure hydrogen: comparison of design regulations", Paper No. 030	I.Magnifico - Automa - Italy, "Deep optimization for Cathodic Protection: advanced technology for T/Rs output current optimization", Paper No. 067	D.Warren, S.Bhat - International Paint - UK, "A critical comparison of epoxy phenolic and alkylated amine epoxy technology for CUI service", Paper No. 134	E.Petteruti, U.Ciardi - Chimec - Italy, "Enhancing deepwater asset integrity: an integrated chemical strategy for corrosion inhibition in challenging environments", Paper No. 009	V.Dreilich, S.Souto Maior Tavares, A.Rocha Pimenta - DNV - Brasil, "Hydrogen impact on fracture toughness in a superduplex stainless steel flange for subsea use", Paper No. 167
	09:20-09:45	R.Francis - Nickel Institute - UK, "The use of Nickel-containing alloys in CCUS applications", Paper No. 006	M.Hoeving, M.Baumeister - Rosen - UK, "Inline inspection in future fuel pipelines", Paper No. 172	M.Barrett, W.Maize, T.da Costa - Mobiltex - Canada, "Applying machine learning to predict behavior and consumption rates of ICCP groundbeds", Paper No. 111	A.Rahman - Aspen Aerogels - UK, "Keep it dry, prevent CUI", Paper No. 059	I.R.Boršić, I.Stojanović, M.Kurtela, V.Alar, B.A.Mikšić - Cortec Corporation Europe - Croatia, "VpCl for multimetal protection in heating systems", Paper No. 132	S.McCoy, B.A.Baker - Special Metals - USA, "The effects of industrial gases used in low emission energy processes upon the corrosion performance of nickel-base alloys", Paper No. 166
	09:45-10:10	K.Kanki, M.Seo, H.Amaya - Nippon Steel - Japan, "Corrosion resistance of CRA materials for CCS application with supercritical CO2 containing slight amount of O2 and SO2", Paper No. 032	D.Scarsciafratte, E.Torselletti, A.Santicchia, S.Terracina, E.Aloigi - Saipem - Italy, "H2 transport through pipelines - A proposed fracture mechanics approach for pipeline design and linepipe requirements", Paper No. 007	C.Baete, K.Parker, Y.Li, V.Chum, T.Johnston - Elsyca - USA, "Optimizing In-Line inspection frequency through digital twin implementation", Paper No. 187	N.Wilds - Sherwin-Williams - UK, "Breaking the boundaries of CUI coatings", Paper No. 011	S.Apuy - Emerson - UK, "Integrating real time corrosion measurements with process data to enhance safety, reliability and profitability in refineries", Paper No. 049	K.Picker - Alleima - USA, "Sulfide stress corrosion cracking evaluation of cold worked Duplex Stainless Steel 2205 and 2507 heat exchanger tubes", Paper No. 184
10:10-10:40	Coffee Break - Exhibit Hall						

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	Scirocco	Libeccio	Levante	Ponente	Aliseo	Bora		
Tuesday - June 11th	Energy Transition	Energy Transition	Cathodic Protection	Coating & Linings	Corrosion Inhibitors & Monitoring	Durability of Reinforced Concrete		
	Carbon Capture	Hydrogen Service	Commissioning & Monitoring	Corrosion Under Insulation	Chair: I.Borsic - E.Bloomfield	Chair: M.Gastaldi - F.Lollini		
	Chair: R.Morana - M.Billingham		Chair: L.Bacchi - G.Mannucci		Chair: P.Marcassoli - R.Ballerini		Chair: N.Wilds - C.Vie	
	10:40-11:05	V.Scheiber, G.Néel, C.Millet - Vallourec - France, "The impact of O2 as a gas impurity on the corrosion resistance of a CRA material in a supercritical CO2-saturated aqueous environment ", Paper No. 078	D.Quintiliani, G.Doni, B.Aydin, F.Fusari - Walter Tosto - Italy, "Material evaluation for hydrogen storage vessels", Paper No. 086	D.Bufaloni, L.Mambelli - Saipem - Italy, "Empiric method to identify a/g isolation kit failure in plant piping ", Paper No. 106	D.Morton - Hempel - Denmark, "Advanced insulation coating system as a viable alternative to conventional thermal insulation that can eliminate corrosion under insulation (CUI)", Paper No. 024	E.Bloomfield, R.Lefebvre, Y.Jacob, M.Golfier, V.Gaillard - Vermilion Energy - Netherlands, "Case Studies: Corrosion Coupons and Probes in Upstream Oil Fields for Optimizing Corrosion Inhibitor Dosage", Paper No. 153	Michael Raupach Aachen University <i>Corrosion behaviour of steel in low carbon concretes</i>	
	11:05-11:30	S.Zhou, S.Kairy, A.Turnbull, G.Hinds - NPL - UK, "Towards a standard test method for measurement of corrosion rate of pipeline steel in dense phase CO2", Paper No. 155	M.Palombo, Y.Kojima, A.Civati, M.Borile - Istituto Italiano della Saldatura - IIS - Italy, "Development of transducers for hydrogen service up to 1500 bar", Paper No. 143	I.Magnifico, L.Spisi - Automa - Italy, "100 mV shift criterion application in a Gas Distribution Network by means of coupon", Paper No. 066	S.J.Kaspersen - Jotun - Norway, "How to test coating systems for CUI conditions", Paper No. 113	R.Dones - Tesi Group - Italy, "Marine piling protection", Paper No. 012		
	11:30-11:55	L.Intiso, E.Imbimbo, F.Sammartino, G.Mortali - Rina-CSM - Italy, "Towards a sustainable society - Challenges on corrosion testing for CCS applications", Paper No. 142	R.Bruschi, F.Alessandri, R.Moslemian, A.Ruoti - DNV - Italy, "Meeting the challenges of hydrogen repurposing of offshore natural gas pipelines", Paper No. 170	A.Brenna, S.Beretta, M.Ormellesse, F.Martini, A.Nandi, M.Venere - Politecnico di Milano - Italy, "Design and testing of a solid backfill of potential probes for cathodic protection monitoring in soil", Paper No. 029	T.Van Hoestenbergh, T.Van Caelenberghe - Fluves - Belgium, "Fiber optics technology as a predictive maintenance tool in the battle against CUI", Paper No. 107	P.Le Calvé, E.Parizot - Anticorr Conseil - France, "Risk assessment and optimization of corrosion maintenance", Paper No. 033	F.Lollini, M.Carsana, A.Filippi, N.Russo, E.Redaeli - Politecnico di Milano - Italy, "Corrosion behaviour of reinforcement in RAP concrete exposed to chloride environment", Paper No. 091	
	11:55-12:20	A.Dugstad, B.H.Morland - IFE - Norway, "Corrosion rate of carbon steel exposed under stagnant conditions at 1-100 bar CO2 partial pressure", Paper No. 102	P.Bortot, M.Ortolani, M.Bellingardi - Tenaris - Italy, "Fracture toughness of high strength ferritic steel welds in hydrogen service", Paper No. 083	I.Kinnear - GPT Industries - USA, "Troubleshooting flange isolation & benefits of remote asset monitoring", Paper No. 144		J.Sutherland, I.Murray, S.Clouston, S.Farnie, A.Tindall - Baker Hughes - UK, "Addressing complex and axially aligned corrosion with MFL technologies and benefits of tri-axial methods", Paper No. 140	N.Russo, F.Lollini, E.Redaeli - Politecnico di Milano - Italy, "Propagation time of carbon steel bars in carbonated concrete made with different binders", Paper No. 092	
12:20-12:45	B.H.Morland, A.Dugstad - IFE - Norway, "Electrochemical measurement in dense phase CO2 for commissioning and upset condition", Paper No. 052	A.Santicchia, L.Asaro, G.Gargano, E.Torselletti, D.Scarsciafratte, E.Aloigi, G.Arcangeletti - Saipem - Italy, "H2 transport through pipelines – A reliable test protocol for pipeline material, welds and coating to assess the suitability of existing coated pipelines and to select the proper materials/coating for new pipelines", Paper No. 063	C.Lorences - IGP - Argentina, "It is increasingly common that oil, gas and mining companies cannot justify spending on direct studies", Paper No. 185		M.Laichoubi, H.Kella Bennani, H.Miaohang, F.Stasse, J.Hart, A.Fathi - Skipper NDT - France, "Novel non-contact, drone-based technology for pipeline movement assessment", Paper No. 174	D.Garcia, S.Deharo, R.François - Bluespine - France, "Estimating service life of reinforced concrete structures exposed to various chloride environments through calculation of corrosion initiation period", Paper No. 150		
12:45-14:00	Lunch Break - Exhibit Hall							

CONFERENCE PROGRAM

		Rooms - 3rd Floor		Rooms - 2nd Floor			Room - 1st Floor
		Scirocco	Libeccio	Levante	Ponente	Aliseo	Bora
		Energy Transition	Energy Transition	Failure Case Studies	Microbiologically Influenced Corrosion	Automotive Industry	Durability of Reinforced Concrete
		Renewable Energy	Hydrogen Service				
		Chair: S.Le Manchet	Chair: M.Palombo - L.Bacchi	Chair: P.Dent - I.Giroletti	Chair: E.Croese - P.Cristiani	Chair: F.Bertasi	Chair: M.Gastaldi - F.Lollini
Tuesday - June 11th	14:00-14:25	<p style="text-align: center;">Tom Eriksson Alleima</p> <p style="text-align: center; color: red;">Materials in a sustainable future</p>	S.Cornu, W.Vos - NDT Global - Germany, "H2 Pipeline: An ILI perspective to mitigate new threat", Paper No. 080	S.E.Ibrahim - Robert Gordon University - UK, "Failure analysis of a failed heat exchanger tube bundle in a hydrocracker unit", Paper No. 076	<p style="text-align: center;">P. Cristiani - RSE E.Croese - Microbialanalysis</p> <p style="text-align: center; color: red;">Introduction to MIC</p>	<p style="text-align: center;">Giancarlo Marchiaro Centro Ricerche Fiat Stellantis</p> <p style="text-align: center; color: red;">A strategy for preventing corrosion Requirements and testing</p>	G.Di Pace, R.Torrent - Materials Advanced Services - Argentina, "Service life of reinforced concrete structures in marine environments using non-destructive site methods", Paper No. 048
	14:25-14:50	B.Buhr - European Energy - UK, "How do you take sustainability into account during design?", Paper No. 104	G.Mannucci, B.Bezensek, O.Huising, L.Bacchi, P.Roovers, C.M.Spinelli, E.Bertelli, I.Di Vito, M.Di Biagio, A.Fonzo - EPRG - Germany, "EPRG full scale fatigue crack growth testing on linepipe materials in gaseous hydrogen", Paper No. 146	M.De Marco, E.Ferrari, L.Calandriello - Istituto Italiano della Saldatura - IIS - Italy, "Premature corrosion of a Titanium-Graphite component in organic acid environment", Paper No. 037	<p style="text-align: center;">Elisa Ferrari Istituto Italiano della Saldatura</p> <p style="text-align: center; color: red;">Biotic or Abiotic? Starting from MIC analysis in localized corrosion events failure analysis</p>	M.Daga, M.A.Abello, L.Mezzomo, A.Bonfanti, F.Bertasi - Brembo - Italy, "Influence of Iron and Manganese impurities on the corrosion resistance and anodizability of recycled Aluminum alloys", Paper No. 072	M.Gastaldi, B.Schallock - Politecnico di Milano - Italy, "Monitoring of reinforcement corrosion for maintenance of reinforced concrete structures – The case of San Siro Stadium in Milano", Paper No. 095
	14:50-15:15	G.Gabetta - Consultant - Italy, "Update on corrosion in biorefining", Paper No. 183	E.Wanzenberg, S.Höhler, C.Bosch, H.Brauer, D.Mirkovic, E.Muthmann - Saltzmitter Mannesmann Forshung - Germany, "Mechanical testing of line pipe steels in hydrogen atmosphere", Paper No. 060	T.Kamshad, A.Al Dandan, M.Sabesan, A.Al Demerdash, D.Kellow - Chevron - Kuwait, "The selection and modification of piping materials in a bulk chemical handling facility in Wafra joint operation (case history)", Paper No. 094	R.Homan, E.Croese, S.Jansen, J.Gerritsen - Microbial Analysis - Netherlands, "Activity of Microbiologically Influenced Corrosion in offshore wind industry – A case study", Paper No. 069	M.Motta, V.Iodice, Agusti Sin, A.Truccolo, L.Fedrizzi, F.Andreatta - Udine University - Italy, "Study of the role of metals in stiction phenomenon of braking systems for automotive use", Paper No. 044	F.Torabian Isfahani, N.Valiante, F.Lazzarin, C.Beltrami, F.Lollini, E.Redaeli - Lombardi Ingegneria - Italy, "Numerical simulation for the durability assessment of a mechanical system partially embedded in concrete", Paper No. 139
	15:15-15:40	C.Baccarini, M.Pesce - Istituto Italiano della Saldatura - IIS - Italy, "Co-processing: new alternatives", Paper No. 138	A.Pagliuca, E.Imbimbo, A.Donato, L.Intiso - Baker Hughes - Italy, "Slow strain rate test methodology to evaluate the temperature effect in hydrogen embrittlement environment", Paper No. 089	M.Al Ashtar, H.Zurgani, O.Sherif, A.Aljabri, R.S.Siriki, M.Almoghrabi - Zueitina Oil Company - Libya, "Failures of chemical injection skids due to incompatible material with chemicals - case study", Paper No. 103	N.Hermes, A.Dhont, M.Salta, J.De Strycker - Endures - Netherlands, "Failure analysis of microbiologically influenced corrosion (MIC) in industrial water distribution systems", Paper No. 075	M.Yasir - Forvia - Germany, "Challenges & opportunities with metallic materials in hydrogen technologies", Paper No. 117	A.Cheaitani, S.Cheyhani, M.Cheyhani - Remediatechnology - Australia, "The latest innovations associated with impressed current concrete cathodic protection systems", Paper No. 038
	15:40-16:20	Coffee Break - Exhibit Hall					

CONFERENCE PROGRAM

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	Rooms - 3rd Floor		Rooms - 2nd Floor			Room - 1st Floor	
	Scirocco	Libeccio	Levante	Ponente	Aliseo	Bora	
Tuesday - June 11th		Energy Transition	Energy Transition	Failure Case Studies	Microbiologically Influenced Corrosion	Automotive Industry	Durability of Reinforced Concrete
		Renewable Energy	Hydrogen Service				
		<i>Chair: S.Le Manchet</i>	<i>Chair: G.Mannucci - L.Bacchi</i>	<i>Chair: P.Dent - I.Giroletti</i>	<i>Chair: E.Croese - P.Cristiani</i>	<i>Chair: F.Bertasi</i>	<i>Chair: M.Gastaldi - F.Lollini</i>
	16:20-16:45	S.Cissé, S.Le Manchet, E.Robin, F.Novello, M.Borges - Industeel ArcelorMittal - France, "High temperature corrosion resistance of heat resistant stainless steels in simulated waste incineration conditions", Paper No. 005	L.Paterlini, G.Re, L.Vergani, M.Ormellese - Politecnico di Milano - Italy, "Hydrogen embrittlement of a low alloy steel electrochemically charged", Paper No. 097	M.Harris - Petronas - Malaysia, "Failure analysis of radiant tube in ethylene furnace", Paper No. 025	L.Murachelli, A.Vicenzo, M.Bestetti, P.Cristiani - Politecnico di Milano - Italy, "Monitoring of microbial corrosion in soil by means of an advanced multiparametric probe", Paper No. 129	R.Valentini, S.Corsinovi, M.Mastroianni - Pisa University - Italy, "Hydrogen Embrittlement Risk Investigation on High Strength Steel Fasteners", Paper No. 162	G.Sergi, P.McCloskey, D.Simpson - Vector Corrosion - UK, "Long-term performance of galvanic anodes for steel reinforced concrete", Paper No. 065
	16:45-17:10	M.Attarchi, J.L.Madsen - Vattenfall - Germany, "Analyzing the design assumptions in retrofitting the internal corrosion protection of wind turbine monopile foundations in seawater", Paper No. 082	R.Valentini, L.Bacchi, F.Biagini - Pisa University - Italy, "Hydrogen embrittlement preliminary laboratory characterization on API X52 for hydrogen service", Paper No. 090	A.Scatena - Pontlab - Italy, "Failure analysis of a hot stove ", Paper No. 130	P.Cristiani, E.Cazzulani, G.Ghiara, A.Franzetti, G.L.Chiarello - RSE - Italy, "Microbial fingerprint of corrosion in copper and steel alloys under varying treatments in enriched hydrogenotrophic media", Paper No. 035	N.Nocera, C.Carrubba, F.Bertasi, A.Bonfanti, A.Mancini - Brembo - Italy, "Development and optimization of an analytical protocol for the characterization of micrometric sol-gel coatings", Paper No. 041	H.Beirami, M.Sem, S.Ambrosi, F.Laino - Mapei - Italy, "Cathodic protection of reinforced concrete bridges using adhesive Zinc sheet anodes", Paper No. 108
	17:10-17:35	C.Mingazzini, E.Muraca, A.Pierro, L.Mendicino, T.Giambartolomei - ENEA - Italy, "Maintenance protocols for recently developed, more sustainable, off-shore composite wind blades", Paper No. 099	M.Rhode, S.Kaiser, K.Erxleben, T.Kannengiesser - BAM - Germany, "Challenges in repair welding of in-service hydrogen pipelines", Paper No. 176	I.Giroletti, M.de Marco - Omeco - Italy, "Failure of a district heating water tank investigated with non-destructive techniques", Paper No. 154	A.Benedetti, M.J.F.Marques, F.Castelli, M.Delucchi, M.Faimali, S.Delsante, F.Valenza, F.Garaventa, G.Pavanello, M.Losurdo, R.Basseguy - CNR - Italy, "The corrosion behavior of aluminium-magnesium alloy in natural seawater: effects of the biological activity ", Paper No. 045	M.Bestetti, A.L.Huspek, V.Mataloni, Yu.H.Akhmadeev, E.A.Petrikova, F.Ivanov, P.V.Moskvin, N.N.Koval - Politecnico di Milano - Italy, "Anodic oxidation of aluminium-silicon alloys pretreated by pulsed electron beams", Paper No. 161	T.Male, G.Sergi - Vector Corrosion - UK, "The use of galvanic surface anodes for the protection of steel reinforced concrete", Paper No. 085
	17:35-18:00	I.Zuazo, S.Pillot, S.Le Manchet - Industeel ArcelorMittal - France, "Steels for the global energy transition", Paper No. 128	T.Fujishiro, K.Hani, Y.Tomio, T.Muraki, T.Hara - Nippon Steel - Japan, "Hydrogen absorption in pre-strained steel and fracture toughness values of hydrogen gas line pipe", Paper No. 179	S.U.Niaz Bukhari - KBR - Saudi Arabia, "A case study on the failure of a sulfuric acid storage tank", Paper No. 171	T.Unsal, S.Yucel, N.Caglar Balkis, A.Aksu, O.S.Taskin, M.E.Cetintasoglu, I.R.Bilgin, N.Korkmaz, E.Balcioglu Ilhan, D.O.Rabba - Istanbul University - Turkey, "What is happening on Mars?", Paper No. 101	F.Bertasi, M.A.Abello, M.Daga, L.Mezzomo, A.Bonfanti - Brembo - Italy, "Anodizability and corrosion resistance of Aluminum alloys for automotive applications", Paper No. 031	S.Deharo, D.Garcia, R.François - Bluespine - France, "Enhanced cathodic protection depth through the combination of discrete anodes and electroconductive coating in reinforced concrete", Paper No. 149
	18:00-18:25		M.Palombo, F.A.Recanzone, D.Morando, I.Milano, F.Catalano, M.De Marco - Istituto Italiano della Saldatura - IIS - Italy, "Exploring the suitability of a vintage linepipe steel for hydrogen service in wide range of working pressures", Paper No. 084				
	18:25-19:30	Closing Remarks and Farewell Cocktail - Exhibit Hall					
	09:30-19:30	Exhibit Hall EXPO					