

Meetings

Activity	Day	Hour	Room
OGP 23936	30/08/2013	08:00-17:00	D1+D2
OGP 23936	31/08/2013	08:00-12:00	D1+D2
ISO 15156 Maintenance Panel	31/08/2013	08:00-12:00	D3+D4
Joint meeting OGP 15156 & NACE TG 299 (ISO 15156 Oversight Committee)	31/08/2013	13:30-16:30	D1+D2
OGP 15156 Maintenance Agency	31/08/2013	16:30-17:30	D1+D2
EFC STAC Meeting	1/9/2013	09:00-13:00	D1+D2
EFC BoA Meeting	1/9/2013	14:00-18:00	D1+D2
EFC GA Meeting	2/9/2013	18:00-19:00	D3+D4
Scientific Committee EUROCORR 2014	2/9/2013	12:50-13:50	D3+D4
NACE European Area	2/9/2013	12:00-14:00	F1
WCO BoA Meeting	3/9/2013	13:00-14:00	D3+D4
TG 476 - Corrosion Protection of Offshore Wind Power Units	5/9/2013	09:00-17:00	C4-C6
WP1 - Corrosion and Scale Inhibition	4/9/2013	15:00-15:40	F7
WP3 - Corrosion by Hot Gases and Combustion Products	3/9/2013	16:30-17:30	C1-C3
WP4 - Nuclear Corrosion	4/9/2013	14:00-15:30	D3+D4
WP5 - Environment Sensitive Fracture	3/9/2013	10:30-11:10	F4-F6
WP6/WP8 - Mechanisms & Methods	3/9/2013	17:30-18:10	B
WP7 - Corrosion Education	2/9/2013	16:30-17:10	D1+D2
WP9 - Marine Corrosion	4/9/2013	17:10-18:00	C4-C6
WP 10 - Microbial Corrosion	3/9/2013	16:50-17:50	C4-C6
WP11 - Corrosion of Steel in Concrete	3/9/2013	14:00-15:00	F7
WP13 - Corrosion in Oil and Gas Production	4/9/2013	10:00-11:10	Auditorium
WP14 - Coatings	3/9/2013	17:10-18:00	E
WP15 - Corrosion in the Refinery Industry	5/9/2013	09:30-17:30	F4-F6
WP16 - Cathodic Protection	4/9/2013	15:00-16:10	D1+D2
WP17 - Automotive Corrosion	5/9/2013	12:10-13:00	C1-C3
WP18 - Tribo-Corrosion	5/9/2013	12:10-13:10	F7
WP19 & 20 Joint Meeting	5/9/2013	10:00-11:00	D3+D4
WP20 - Corrosion and Corrosion Protection of Drinking Water Systems	4/9/2013	16:10-17:00	D3+D4
WP21 - Corrosion of Archaeological and Historical Artifacts	5/9/2013	11:50-12:50	C7
EFC Task Force: CO ₂ -Corrosion in CCS-Applications	2/9/2013	14:40-15:20	D1+D2
WS - Corrosion in Aerospace	4/9/2013	17:10-18:00	F1-F3

Scientific Lectures Programme

Monday, 2 September 2013

		Opening Ceremony	Auditorium
9:00		Prof. M.F. Montemor, Prof. J.C. Fernandes, Prof. L. Fedrizzi	
9:20		EFC Medal Award	Auditorium
		Invited Plenary Lecture	Auditorium
9:40	PL-8548	Molecular studies of self assembled monolayers as corrosion inhibitors for copper C. Leygraf, S. Hosseinpour, C. M. Johnson, Division of Surface and Corrosion Science, KTH Royal Institute of Technology, Stockholm/S	
		Coatings: Inorganic Coatings	Room E
Chairs		Furbeth / Vogelsang	
11:00	O-1324	Sol-gel phospho-silicate-methacrylate hybrid coatings for corrosion protection of carbon steel T. Phan, C. Jama, Ecole Nationale Supérieure de Chimie de Lille, Villeneuve d'Ascq/F	
11:20	O-1526	Anti corrosion behaviour of hybrid silane coating on AZ31 alloy in NaCl solution L. Calabrese, L. Bonaccorsi, A. Capri, E. Proverbio, University of Messina/I	
11:40	O-1222	Electrochemical characterization of AZ31 micro-arc anodic oxides S.U. Mariani, Università Statale Milano/I; A. Da Forno, M. Bestetti, Politecnico di Milano/I; M. Trueba, S.P. Trasatti, Università Statale Milano/I	
12:00	O-1253	Anodization of sputter deposited Al-Zr coatings and microstructural issues V. Gudla, TU of Denmark, Kongens Lyngby/DK; S. Canulescu, TU of Denmark, Roskilde/DK; R. Ambat, TU of Denmark, Kongens Lyngby/DK; J. Schou, TU of Denmark, Roskilde/DK	
12:20	O-1677	The effect of mechanical pre-treatment on corrosion behaviour of bare and anodized surface of AZ31 L. Kwiatkowski, R. Lutze, M. Brzezinski, A. Nakonieczny, Institute of Precision Mechanics, Warsaw/PL	
12:40		Lunchtime	
		Coatings: Inorganic Coatings	Room E
Chairs		Furbeth / Vogelsang	
14:00	O-1226	Improvement of the corrosion resistance of Ti-6Al-4V alloy by plasma-assisted PVD deposited TiN coating V. Oliveira, C. Aguiar, A.M. Vazquez, A. Robin, M.J.R. Barboza, Universidade de São Paulo, Lorena/BR	

Monday, 2 September 2013

Monday, 2 September 2013

14:20	O-1259	Cold plasma assisted chemical vapour deposition of corrosion resistant coatings C. Jama, Lille University, Villeneuve d'Ascq/F	
14:40	O-1763	Ni-Ti surface with depressed nickel concentration for biomedical applications prepared by plasma immersion ion implantation R.M.S. Martins, N. Barradas, E. Alves, IST/ITN - Campus Tecnológico e Nuclear, Sacavém/P; D. Henke, H. Reuther, Helmholtz-Zentrum Dresden-Rossendorf/D; N. Schell, Helmholtz-Zentrum Geesthacht/D; M.J. Carmezim, T.M. Silva, J.C.S. Fernandes, ICEMS, Lisboa/P	
15:20		Coffee Break	
		Coatings: Organic Coatings	Room E
Chairs		Terryn / Gelling	
15:50	O-1212	Coating failure investigations - Case studies A. Królikowska, L. Augustynski, Road and Bridge Research Institute, Warszawa/PL	
16:10	O-1115	Corrosion protection performance of electropolymerised phenazine films on copper and high speed steel C. Gouveia-Caridade, A. Romeiro, C.M.A. Brett, University of Coimbra/P	
16:30	O-1135	Electrochemical characterization of new organosilane hybrid systems for corrosion protection of aluminum alloys E. Volpi, L. Falciola, E. Pini, M.C. Sala, S.P. Trasatti, M. Trueba, A. Contini, Università degli Studi di Milano/I	
16:50	O-1356	Greencoat: A vision on atmospheric plasma deposited coatings as primer on metal substrates A. Kakaroglou, Vrije Universiteit Brussel/B; B. Nisol, Université Libre de Bruxelles/B; G. Scheltjens, Vrije Universiteit Brussel/B; M. Wenkin, CoRi, Limelette/B; I. De Graeve, Vrije Universiteit Brussel/B; G. Da Ponte, Vito, Mol/B; G. Van Assche, B. Van Mele, Vrije Universiteit Brussel/B; S. Paulussen, Vito, Mol/B; F. Reniers, Université Libre de Bruxelles/B; H. Terry, Vrije Universiteit Brussel/B	
17:10	O-1716	Epoxy-silane coatings on magnesium alloys with improved adhesion and corrosion protection H.B. Xue, S.V. Lamaka, Technical University of Lisbon/P; N.N.A.H. Meis, A.C.C. Esteves, Eindhoven University of Technology/NL; M.G.S. Ferreira, Technical University of Lisbon/P; M.G.S. Ferreira, University of Aveiro/P	
17:30	O-1805	Investigation of corrosion protection ability of crosslinkable polypyrrole and polypyrrole nanospheres via electrochemical techniques V. Gelling, J. Byrom, A. Suryawanshi, North Dakota State University, Fargo, ND/USA	

17:50		EFC General Assembly	
		Corrosion Mechanisms & Methods	Room B
Chairs		P. Marcus / A. Mol	
11:00	KN-1773	Overview of magnesium corrosion, and is stainless magnesium possible? A. Atrens, The University of Queensland, St. Lucia/AUS	
11:40	O-1633	Relationship between laser parameters, microstructure and corrosion behaviour of a laser surface treated AZ91D magnesium alloy C. Taltavull, B. Torres, A.J. López, P. Rodrigo, E. Otero, Universidad Rey Juan Carlos, Móstoles/E; A. Atrens, The University of Queensland, Brisbane/AUS; J. Rams, Universidad Rey Juan Carlos, Móstoles/E	
12:00	O-1315	Peculiarities of the corrosion processes at the magnesium alloys surface A. Gnedenkov, S. Sinebryukhov, D. Mashtalyar, S. Gnedenkov, Institute of Chemistry of RAS, Vladivostok/RUS	
12:20	O-1277	Investigation by SVET and microcell of the effect of cerium on iron / aluminum galvanic coupling: Application to AA1050 alloy M. Mouanga, Mons University/B; F. Andreatta, Udine University/I; M.-E. Druart, Mons University/B; E. Marin, L. Fedrizzi, Udine University/I; M.-G. Olivier, Mons University/B	
12:40		Lunchtime	
		Corrosion Mechanisms & Methods	Room B
Chairs		R. Ambat / V. Vivier	
14:00	O-1647	Combination of Kelvin Force Microscopy (KFM) and nanoindentation to study the localized corrosion of over-aged aeronautical 2024 aluminium L. Lacroix, N. Radutoiu, J. Alexis, J.-A. Petit, ENIT, Tarbes/F	
14:20	O-1558	Corrosion behaviour of AlMg as-cast aluminium alloy under straining condition studied using microcapillary technique and strain microgauges H. Krawiec, Z. Szklarz, AGH University of Science and Technology, Krakow/PL; V. Vignal, Université de Bourgogne, Dijon/F	
14:40	O-1513	Scanning Kelvin probe force microscopy as a means to predict corrosion resistance of multi layer metallic structures: An aluminium brazing F. Norouzi Afshar, Materials Innovation Institute M2i, Delft and TU Delft/NL; J.H.W. de Wit, TU Delft/NL; H. Terry, Materials Innovation Institute M2i, Delft and TU Delft/NL; J.M.C. Mol, TU Delft/NL	
15:00	O-1746	Novel test methods for bondline corrosion at structural adhesively bonded AA7075 T6 alclad J. de Kok, V. van den Heuvel, P. Mulder, Fokker Aerostructures BV, Papendrecht/NL	

Monday, 2 September 2013

Monday, 2 September 2013

15:20		Coffee Break	
		Corrosion Mechanisms & Methods	Room B
Chairs		R. Ambat / V. Vivier	
15:50	O-1650	Reliability of noise resistance for the estimation of corrosion rate	
		<u>M. Curioni</u> , G. Thompson, University of Manchester/UK	
16:10	O-1515	Influence of the exposure conditions to the aggressive medium on the corrosion behaviour of the 2050 aluminum-copper-lithium alloy	
		<u>M. Guerin</u> , E. Andrieu, Université de Toulouse/F; L. Lacroix, Université de Toulouse, Tarbes/F; G. Odemer, Université de Toulouse/F; J. Alexis, Université de Toulouse, Tarbes/F; C. Blanc, Université de Toulouse/F	
16:30	O-1323	First principle investigation of the early stage of corrosion of aluminium: oxygen reduction on an oxide film surface	
		<u>T. Ribeiro</u> , D. Costa, École Nationale Supérieure de Chimie de Paris/F; F. Mercuri, Università di Perugia/I; G. Pacchioni, Università degli Studi di Milano-Bicocca/I; P. Marcus, École Nationale Supérieure de Chimie de Paris/F	
16:50	O-1272	Physico-chemical characterization of anodic films on sputter-deposited Al-Nb alloys	
		<u>F. Di Quarto</u> , M. Santamaria, F. Di Franco, Università di Palermo/I; P. Skeldon, G.E. Thompson, The University of Manchester/UK; C. Rangel, INETI, Lisboa/P; F. La Mantia, Ruhr Universität Bochum/D	
17:10	O-1731	The kinetics of repassivation and inclination of steels and alloys to corrosion fatigue	
		V. Pokhmurskii, M. Khoma, Karpenko Physico-Mechanical Institute of the NAS of Ukraine, Lviv/UA; <u>H. Pokhmurska</u> , T. Lampke, Chemnitz University of Technology/D	
17:30	O-1448	A study on crevice corrosion in super duplex stainless steel by means of electrochemical tests	
		<u>N. Almeida</u> , Z. Panossian, C. Pecequillo, Institute for Technological Research of Sao Paulo State, Sao Paulo/BR; G. Pimenta, M. Araujo, Brazilian Petroleum Company, Rio de Janeiro/BR	
17:50		EFC General Assembly	
		Corrosion in Oil & Gas Production	Auditorium
Chairs		B. Badrak / M. Bonis	
11:00	O-1587	Physical chemistry tests of hydrogen sulfide gas and SCC results at near-ambient and elevated pressures	
		W. Grimes, Shell Global Solutions, Amsterdam/NL; <u>B. Miglin</u> , Shell International Exploration and Production, Houston, TX/USA; R. French, Shell Global Solutions, Houston, TX/USA	

11:20	O-1572	Corrosive environment in the annulus of flexible pipes: pH measurements in confined conditions and under high pressure	
		<u>J. Kittel</u> , F. Grosjean, IFP Energies nouvelles, Solaize/F; L. Ke, C. Taravel-Condât, N. Desamais, Technip, Le Trait/F	
11:40	O-1283	Stress corrosion cracking of UNS 32304 duplex stainless steel in 20% NaCl solution in the presence of Na₂S₂O₃	
		<u>F. Zucchi</u> , Corrosion Study Centre A. Daccò, Ferrara/I; F. Zanotto, LT Terra&AcquaTech, Ferrara/I; V. Grassi, A. Balbo, Corrosion Study Centre A. Daccò, Ferrara/I	
12:00	O-1472	Corrosion of API-X100 steel heat affected zones (HAZs) in CO₂-saturated solutions - Influence of chloride revisited	
		<u>F. Eliyan</u> , A. Alfantazi, The University of British Columbia, Vancouver/CDN	
12:20	O-1536	In-situ pH measurement by a palladium alloy hydride electrode in high temperature and high pressure CO₂ environment	
		<u>T. Sunaba</u> , Y. Tomoe, INPEX, Tokyo/J; S. Yoshikawa, Toshin Kogyo, Tokyo/J; Y. Miyata, S. Asakura, Yokohama National University/J; T. Ishihara, Venture Academia, Yokohama/J; T. Shinohara, T. Yakou, Yokohama National University/J	
12:40		Lunchtime	
		Corrosion in Oil & Gas Production	Auditorium
Chairs		B. Badrak / M. Bonis	
14:00	O-1282	Impact of the content of Fe ions on the corrosion behaviour of steel wires	
		<u>M. Rogowska</u> , National Oilwell Varco Denmark and University of Denmark, Brøndby/DK; G. Jonas, A. Rubin, National Oilwell Varco Denmark, Brøndby/DK; K. Pantleon, R. Ambat, Technical University of Denmark, Lyngby/DK	
14:20	O-1570	Impact of time of exposure on HIC testing of very high strength steel in low H₂S environments	
		J. Kittel, F. Grosjean, C. Forot, IFP Energies nouvelles, Solaize/F; <u>N. Desamais</u> , C. Taravel-Condât, Technip, Le Trait/F	
14:40	O-1090	Sulfide stress cracking resistance of newly developed 125 ksi grade high strength low alloy steel OCTG for mildly sour environments	
		<u>A. Souma</u> , T. Ohe, H. Amaya, M. Ueda, Nippon Steel & Sumitomo Metal Corporation, Wakayama City/J; T. Omura, Nippon Steel & Sumitomo Metal Corporation, Amagasaki City/J	
15:00	O-1646	Effect of reeling on the fracture toughness resistance (CTOD) for subsea pipeline in sour service	
		<u>J. Safari</u> , I. Merchant, J. Hamilton, S. Denniel, Technip, Aberdeen/UK	

Monday, 2 September 2013

Monday, 2 September 2013

15:20		Coffee Break	
		Corrosion in Oil & Gas Production	Auditorium
Chairs		B. Badrak / M. Bonis	
15:50	O-1127	Analysis of biological souring in oil reservoir	
		<u>R. Hasegawa</u> , Y. Tanji, Tokyo Institute of Technology, Kanagawa/J	
16:10	O-1470	Corrosion of pipeline steels in bicarbonate and carbonate solutions	
		<u>F. Eliyan</u> , A. Alfantazi, The University of British Columbia, Vancouver/CDN	
16:30	O-1697	Pitting corrosion resistance and pit morphology of a supermartensitic 15%-2%Mo-5.8%Ni-1%Cu steel tested in 3.5%NaCl solution	
		B.A.R.S. Barbosa, T. Montenegro, Universidade Federal Fluminense, Niterói/BR; I.N. Bastos, Universidade do Estado do Rio de Janeiro, Friburgo/BR; J.M. Pardal, <u>S.S.M. Tavares</u> , Universidade Federal Fluminense, Niterói/BR	
16:50	O-1713	Experimental and modeling determination of the repassivation potential of S13Cr in H₂S containing environments	
		<u>F. Gui</u> , L. Cao, N. Sridhar, DNV USA, Dublin, OH/USA; A. Anderko, OLI Systems, Morris Plains, NJ/USA	
17:50		EFC General Assembly	
		Nuclear Corrosion	Room C7
Chairs		D. Féron / P. René	
11:00	O-1038	Role of hydrogen absorption on corrosion mechanism of 316L stainless steels in PWR primary medium	
		<u>M. Dumerval</u> , S. Perrin, L. Marchetti-Sillans, CEA Saclay, Gif-sur-Yvette/F; Y. Wouters, SIMaP, Grenoble/F	
11:20	O-1460	TEM characterizations of SCC cracks in a CW 316L austenitic stainless steel after exposure to PWR primary water conditions	
		<u>M. Rousseau</u> , E. Herms, CEA, Gif-Sur-Yvette/F; F. Vaillant, EDF Les Renardières, Moret-Sur-Loing/F	
11:40	O-1689	Role of mechanical factors in PWSCC of stainless steel	
		<u>P. Cho</u> , Y. Yi, Khalifa University, Abu Dhabi/UAE; C. Jang, KAIST, Daejeon/ROK; A. Al Zaabi, FANR, Abu Dhabi/UAE	
12:00	O-1196	Surface reactivity modification by pre-oxidation treatment for a nickel based alloy to minimize nickel release in PWR primary medium	
		<u>M. Moeglen</u> , S. Perrin, L. Marchetti, CEA Saclay, Gif-sur-Yvette/F; Y. Wouters, Université de Grenoble, Saint Martin d'Hères/F	

12:40		Lunchtime	
		Nuclear Corrosion	Room C7
Chairs		D. Gomez Bricero	
14:00	O-1257	Influence of steam generator surface state on corrosion and oxide formation	
		<u>A. Mazenc</u> , EDF R&D, Moret Sur Loing/F and CNRS, Paris/F; A. Seyeux, A. Galtayries, Ph. Marcus, CNRS, Paris/F; S. Leclercq, EDF R&D, Moret Sur Loing/F	
14:20	O-1339	Platinum deposition on boiling water reactor components: qualification of lab-scale tests with plant data	
		<u>S. Ritter</u> , P.V. Grundler, A. Ramar, Paul Scherrer Institut, Villigen PSI/CH; G. Ledergerber, W. Kaufmann, Kernkraftwerk Leibstadt/CH	
14:40	O-1235	Corrosion mitigation and control programs for isotopic exchange columns from the heavy water plant in Romania	
		<u>R. Fako</u> , I.D. Dancanet, RAAN - Subsidiary of Technology and Engineering for Nuclear Projects (SITON), Magurele/RO	
15:00	O-1065	The realistic threshold value which does not show the progress of the crack decided from the stress corrosion cracks initiation	
		<u>G. Nakayama</u> , Y. Sakakibara, IHI Corporation, Yokohama/J	
15:20		Coffee Break	
		Nuclear Corrosion	Room C7
Chairs		S. Ritter	
15:50	O-1610	Understanding of hydriding mechanisms of zirconium alloys during corrosion in PWR conditions	
		<u>R. Verlet</u> , M. Tupin, C. Bisor, P. Bossis, J. Chene, F. Jomard, P. Berger, S. Pascal, F. Martin, N. Nuns, CEA, Saclay/F	
16:10	O-1609	In-situ electrochemical behaviour of zirconium alloys in high temperature water containing lithium hydroxide	
		<u>J. Macák</u> , P. Sajdl, Institute of Chemical Technology, Prague/CZ; R. Novotný, Joint Research Centre, Petten/NL; A. Krausová, V. Renciuková, Institute of Chemical Technology, Prague/CZ; V. Vrtílková, UJP PRAHA a.s., Prague/CZ	
16:30	O-1785	Corrosion behavior of U-Zr-Nb alloys submitted to different ageing processes	
		<u>C. Figueiredo</u> , F. Mansur, A. Santos, W. Ferraz, Center for Development of Nuclear Technology (CDTN/CNEN), Belo Horizonte/BR	
16:50	O-1155	Early stages of T91 oxidation in low water vapour partial pressure	
		<u>L. Martinelli</u> , K. Ginestar, CEA Saclay, Gif-sur-Yvette/F; V. Parry, CNRS, Grenoble/F; F. Roussel, Grenoble INP/F; N. El Hassan, University of Balamand, Al-Kurah/RL; C. Desgranges, CEA Saclay, Gif-sur-Yvette/F; Y. Wouters, CNRS, Grenoble/F	

Monday, 2 September 2013

Monday, 2 September 2013

17:50		EFC General Assembly	
		Workshop B: CO₂-Corrosion in Carbon Capture and Storage Applications	Room D1-D2
Chairs		R. Bäßler	
11:00	O-1457	Corrosion prevention in carbon capture installations	
		S. De Vroey, M.L. Thielens, P. Absil, Laborelec (GDF-Suez), Linkebeek/B	
11:20	O-1582	Corrosion testing in dense phase CO₂ - Challenges and limitations in present experimental techniques	
		A. Dugstad, B. Morland, Institute for Energy Technology, Kjeller/N	
11:40	O-1103	Corrosion resistance of piping steels in circulating supercritical impure CO₂ environment due to moisture, SO₂ and NO₂	
		O. Yevtushenko, R. Bäßler, BAM Federal Institute for Materials Research and Testing, Berlin/D; I. Carrillo Salgado, Baja California Autonomous University, Mexico/MEX	
12:00	O-1519	Corrosion of linepipe material in different CCS-CO₂-atmospheres	
		C. Bosch, S. Jäger, Salzgitter Mannesmann Forschung GmbH, Duisburg/D; H. Brauer, Salzgitter Mannesmann Linepipe GmbH, Hamm/D; E. Fleury, M. Meyer, GDF SUEZ, Paris/F; C. Kassel, EUROPIPE GmbH, Mülheim an der Ruhr/D; T. Schmidt, Vallourec & Mannesmann Tubes, Düsseldorf/D	
12:20	O-1545	Corrosion rate of carbon steel in condensed water and humid gas at high CO₂ pressure	
		M. Cabrini, S. Lorenzi, T. Pastore, University of Bergamo, Dalmine (BG)/I; M. Redaelli, RSE, Milano/I	
12:40		Lunchtime	
		Workshop B: CO₂-Corrosion in Carbon Capture and Storage Applications	Room D1-D2
Chairs		R. Bäßler	
14:00	O-1658	Corrosion behaviour of a pipeline steel under CCS-transport conditions	
		S. Bohraus, D. Bettge, A. Kranzmann, Federal Institute for Materials Research and Testing, Berlin/D	
14:20	O-1651	Corrosion of N80 and Cr13 steels in brine and CO₂	
		X. Zhang, H. Zhan, TNO, Den Helder/NL; J. Zevenbergen, TNO, Rijswijk/NL	
15:20		Coffee Break	

		Corrosion Education	Room D1-D2
Chairs		A. Heyn / S. Trasatti	
15:50	O-1702	CorrosionExpert - The new post graduate austrian corrosion course	
		G. Mori, Montanuniversitaet Leoben/A; P. Linhardt, Technical University of Vienna/A; K.-H. Stellnberger, voestalpine Stahl GmbH, Linz/A	
16:10	O-1717	Corrosion education 2.0	
		P. Rosemann, M. Babutzka, University of Magdeburg/D; A. Heyn, BAM Federal Institute for Materials Research and Testing, Berlin/D	
17:50		EFC General Assembly	
		Corrosion of Steel in Concrete	Room F7
Chairs		M. Raupach	
11:00	O-1655	Integrated modelling of corrosion-induced deterioration in reinforced concrete structures	
		A. Michel, Technical University of Denmark, Kongens Lyngby/DK; M.R. Geiker, Norwegian University of Science and Technology, Trondheim/N; H. Stang, Technical University of Denmark, Kongens Lyngby/DK; M. Lepech, Stanford University, CA/USA	
11:20	O-1386	Corrosion of steel in cracked concrete exposed to chlorides	
		J. Pacheco, B. Savija, E. Schlangen, Delft University of Technology/NL; R.B. Polder, TNO, Delft/NL and Delft University of Technology/NL	
11:40	O-1793	Application of segmented rebars for studying corrosion of steel in concrete	
		K. Hornbostel, M. Geiker, Norwegian University of Science and Technology, Trondheim/N; C. Larsen, Norwegian Public Road Administration, Oslo/N	
12:00	O-1079	Nonuniform corrosion profiles in reinforced concrete structures	
		S. Muthulingam, B.N. Rao, Indian Institute of Technology Madras, Chennai/IND	
12:20	O-1267	Preliminary study of life cycle cost of preventive measures and repair options for corrosion in concrete infrastructure	
		R. Polder, TNO, Delft/NL; Y. Pan, Delft University of Technology/NL; W. Courage, W. Peelen, TNO, Delft/NL	
12:40		Lunchtime	

Monday, 2 September 2013

Monday, 2 September 2013

		Corrosion of Steel in Concrete	Room F7
Chairs		M. Raupach	
14:00	O-1275	Chloride tolerance of stainless steel reinforcement using an accelerated in-concrete method	
		M. Schönning, <u>S. Randström</u> , Outokumpu Stainless, Avesta/S; M. Adair, Outokumpu Stainless, Sheffield/UK	
14:20	O-1276	Considerations in determining service life of stainless steel reinforcement bar in concrete	
		<u>S. Randström</u> , Outokumpu Stainless, Avesta/S; M. Adair, Outokumpu Stainless, Sheffield/UK; M. Schönning, Outokumpu Stainless, Avesta/S	
14:40	O-1541	Corrosion of steel reinforced concrete columns wrapped with GFRP	
		B. Sena da Fonseca, Instituto Superior Técnico, Lisboa/P; A.S. Castela, R.G. Duarte, Instituto Politécnico de Setúbal, Barreiro/P; M.G.S. Ferreira, University of Aveiro/P; M.F. Montemor, Instituto Superior Técnico, Lisboa/P; M.A.G. Silva, Universidade Nova de Lisboa/P	
15:00	O-1670	New controlled release corrosion inhibitors for reinforced concrete structures	
		<u>D. Bastidas</u> , CENIM-CSIC, Madrid/E	
15:20		Coffee Break	
		Corrosion of Steel in Concrete	Room F7
Chairs		M. Raupach	
15:50	O-1119	Use of UV-spectroscopy for detection of MCl migration depth in concrete	
		<u>M. Shen</u> , J. Hicks, Cortec Corporation, St. Paul, MN/USA	
16:10	O-1603	Visualisation of the electrical resistivity distribution in RC structures	
		<u>K. Reichling</u> , N. Klitzsch, M. Raupach, RWTH Aachen University/D	
17:50		EFC General Assembly	
		Environment Sensitive Fracture	Room F4-F6
Chairs		K. Wolski	
11:00	KN-1193	Influence of the microstructure on hydrogen diffusion in polycrystalline materials: A numerical analysis	
		<u>B. Osman Hoch</u> , E. Legrand, J. Bouhattate, University of La Rochelle/F; D.S. Li, Pacific Northwest National Laboratory, Richland, WA/USA; X. Feaugas, University of La Rochelle/F	

11:20	O-1630	Mobility and trapping of hydrogen in high-strength steel	
		<u>F. Vucko</u> , C. Bosch, D. Delafosse, Ecole Nationale Supérieure des Mines, Saint-Etienne/F	
11:40	O-1530	Consequences of heterogeneous dislocation and vacancy distributions on the hydrogen diffusion, and trapping in nickel	
		<u>A. Oudriss</u> , J. Bouhattate, A. Metsue, J. Creus, C. Savall, X. Feaugas, University of La Rochelle/F	
12:00	O-1243	Corrosion behavior and limitations of duplex steel 1.4462 in artificial fluids of different geothermal wells in Germany	
		<u>J. Sobetzki</u> , R. Bäßler, BAM Federal Institute of Materials Research and Testing, Berlin/D	
12:20	O-1152	Corrosion performance of different steel grades in highly acidic geothermal brine in Indonesia	
		<u>A. Keserovic</u> , R. Bäßler, Federal Institute for Materials Research and Testing (BAM), Berlin/D	
12:40		Lunchtime	
		Environment Sensitive Fracture	Room F4-F6
Chairs		H. Hoffmeister	
14:00	O-1230	The incorporation of Mg in the passive layer of duplex stainless steel. Its influence on SCC susceptibility in boiling solutions.	
		F. Ruel, Ecole Nationale Supérieure des Mines de Saint Etienne/F; A. Gaugain, S. Saedlou, Aperam R&D, Isbergues/F; C. Lojewski, S. Le Manchet, Arcelormittal Industeel CRMC, Le Creusot/F; C. Bosch, <u>K. Wolski</u> , Ecole Nationale Supérieure des Mines de Saint Etienne/F	
14:20	O-1080	Corrosion behavior of different organizations of low carbon steels under tensile loading during elastic deformation	
		S. Zhang, X. Pang, Y. Su, <u>K. Gao</u> , University of Science and Technology, Beijing/CHN	
14:40	O-1688	Corrosion fatigue properties of austenitic stainless steels with different composition and strength in chloride solutions	
		<u>G. Mori</u> , C. Vichytil, J. Vidic, Montanuniversitaet Leoben/A; M. Kapp, R. Fluch, Bohler Edelstahl GmbH & Co. KG, Kapfenberg/A	
15:00	O-1280	Repassivation potential for localized corrosion and the onset for stress corrosion cracking	
		M.A. Rodriguez, Conicet, Buenos Aires/RA; C.M. Giordano, R.M. Carranza, Instituto Sabato, Buenos Aires/RA; <u>R.B. Rebak</u> , GE Global Research, Schenectady, NY/USA	
15:20		Coffee Break	

Monday, 2 September 2013

Monday, 2 September 2013

		Environment Sensitive Fracture	Room F4-F6
Chairs		J. Bouhattate/X. Feugas	
15:50	O-1037	Sensitization induced stress corrosion cracking of heat exchanger tubes	
		S. Funani, S. Al-Maesab, SABIC, Jubail Industrial City/SAR	
16:10	O-1077	Effects of stress and sigma value at grain boundary on crack propagation for sensitized 304 stainless steel with coarse grains	
		T. Haruna, T. Shimizu, Kansai University, Osaka/J; M. Kamaya, Institute of Nuclear Safety System, Fukui/J	
16:30	O-1520	SOM analysis on acoustic emission signals to evaluate damage evolution in chloride stress corrosion cracking of a 17-4 PH stainless steel	
		E. Proverbio, L. Calabrese, L. Bonaccorsi, University of Messina/I; D. Di Pietro, F. Cappuccini, GE Oil & Gas, Firenze/I	
16:50	O-1514	Stress corrosion cracking and fatigue-corrosion behaviour of the 6101 aluminium alloy	
		A. Laurino, Leoni, Montigny le Bretonneux/F; J.P. Harouard, Leoni Wiring Systems, Montigny Le Bretonneux/F; E. Andrieu, G. Odemer, J.C. Salabura, C. Blanc, Université de Toulouse/F	
17:10	O-1755	Influence of pipeline welding and pipe manufacturing variables on ethanol SCC	
		S. Srinivasan, P. Glass, Honeywell Corrosion Solutions, Houston, TX/USA; R. Kane, iCorrosion LLC, Houston, TX/USA	
17:50	EFC General Assembly		
		Microbial Corrosion	Room C4-C6
Chairs		T. Liengen	
11:00	O-1387	BIOCOR ITN: Conclusions on a MIC-based research and training European network	
		R. Basseguy, Laboratoire de Génie Chimique, Toulouse/F	
11:20	KN-1748	Metabolomic imaging of corroding microbial biofilms by mass spectrometry	
		J. Bauer, E. Kaufman, I. Beech, J. Sunner, University of Oklahoma, Norman, OK/USA	
12:00	O-1738	Pyrosequencing analysis of microbial diversity in the North Sea oil field installations	

		M. Sztlyler, University of Portsmouth/UK; A.L. Oldham, K.E. Duncan, University of Oklahoma, Norman, OK/USA; T. Liengen, Statoil ASA, Stavanger/N; I.B. Beech, University of Oklahoma, Norman, OK/USA	
12:20	O-1750	Analysis of microbial consortia using denaturing gradient gel electrophoresis and sequencing from oil production facilities in the North Sea	
		J. Doma, University of Oklahoma, Norman, OK/USA; M. Sztlyler, University of Portsmouth/UK; I.B. Beech, University of Oklahoma, Norman, OK/USA	
12:40	Lunchtime		
		Microbial Corrosion	Room C4-C6
Chairs		T. Liengen	
14:00	O-1660	Water quality as a trigger factor of microbial corrosion on copper pipes	
		D. Fischer, C. Galarce, G. Pizarro, I. Vargas, Pontificia Universidad Católica de Chile, Santiago/RCH	
14:20	O-1262	Surface modification of carbon steel in the presence of microorganisms from a water operation system of the oil and gas industry	
		C. Cote, O. Rosas, LGC-CNRS, Toulouse/F; S. Zanna, I. Frateur, P. Marcus, ENSCP-CNRS, Paris/F; R. Basseguy, LGC-CNRS, Toulouse/F	
14:40	O-1290	Influence of pH and hydrodynamics on the electrochemical behaviour and the surface chemical composition of Al brass in natural seawater	
		M. Carvalho, RSE S.p.A., Milano/I; B. E. Torres Bautista, A. Seyeux, S. Zanna, P. Marcus, Chimie ParisTech/F; B. Tribollet, Université Paris 6/F; P. Cristiani, RSE S.p.A., Milano/I; I. Frateur, Chimie ParisTech/F	
15:00	O-1302	Biocorrosion of carbon steel studied by local electrochemical impedance spectroscopy	
		R. Moreira, Université Pierre et Marie Curie and Laboratoire Interfaces et Systèmes Electrochimiques, Paris/F; M. Libert, LMTE, St Paul lez Durance/F; B. Tribollet, V. Vivier, Laboratoire Interfaces et Systèmes Electrochimiques, Paris/F	
15:20	Coffee Break		
		Microbial Corrosion	Room C4-C6
Chairs		R. Basseguy	
15:50	KN-1279	MIC in hydroelectric power plants and approaches for risk assessment	
		P. Linhardt, Vienna University of Technology/A	
16:30	O-1628	Influence of steel on the EPS composition and complementary corrosion analysis of Leptothrix discophora	
		C. Thyssen, A. Kuklinski, University of Duisburg-Essen/D; D. Holuscha, W. Fürbeth, Dechema Research Institute, Frankfurt/D; W. Sand, University of Duisburg-Essen/D	

Monday, 2 September 2013

Monday, 2 September 2013

16:50	O-1706	Corrosive biofilm formation by sulfate reducing prokaryotes: The role of exopolymeric substances	
		I. Datsenko, A. Wikel, Universitaet Duisburg-Essen/D; Y. Yang, C. Dupont-Gillian, Universite Catholique de Louvain/B; M. Vera, W. Sand, Universitaet Duisburg-Essen/D	
17:10	O-1491	Assessment of new methodology for microbiologically influenced corrosion (MIC) as applied to oil and gas industry	
		S. Cassini, Universidade Federal ES UFES, Vila Velha/BR; B. Neumann, Petrobras, Linhares/BR; R. Keller, Universidade Federal ES UFES, Vila Velha/BR	
17:30	O-1291	Copper alloys in chlorinated condenser cooling circuits: Passivation corrosion and microbiology	
		M. Carvalho, RSE S.p.A., Milano/I; J. Doma, M. Sztyler, I. Beech, University of Portsmouth/UK; P. Cristiani, RSE S.p.A., Milano/I	
17:50		EFC General Assembly	
		Corrosion by Hot Gases and Combustion Products	Room C1-C3
Chairs		M. Schutze	
11:00	O-1158	Oxidation mechanisms and oxidation induced lifetime limits of alumina forming Ni-base wrought alloys 214 and 224	
		A. Chyrkin, T. Hüttel, Forschungszentrum Jülich GmbH/D; D.J. Young, The University of New South Wales, Sydney/A; J. He, D. Jiang, D. Grüner, W.J. Quadackers, Forschungszentrum Jülich GmbH/D	
11:20	O-1112	Corrosion resistance of age-hardenable Nickel base alloy 740H for advanced ultra supercritical service in fossil fuel power plants	
		B.A. Baker, D. Maitra, R.D. Gollihue, Special Metals Corporation, Huntington, WV/USA; S.A. McCoy, Special Metals Corporation, Hereford/UK	
11:40	O-1397	Effect of alloying additions on the oxidation behavior of Ni-base superalloys in dry and wet gases	
		W. Nowak, A. Jalowicka, D. Naumenko, L. Singheiser, W.J. Quadackers, Forschungszentrum Jülich GmbH in the Helmholtz Association/D	
12:00	O-1322	Semiconductive properties of thermal scales grown on chromia-forming alloys under controlled oxygen partial pressures	
		Y. Madi, Houari Boumedienne University, Alger/DZ; S. Mathieu, M. Vilasi, University of Lorraine, Nancy/F; V. Parry, J.P. Petit, Y. Wouters, Grenoble University/F	
12:20	O-1611	Effect of CO₂ in the oxidation behaviour of Sanicro 25 in oxy-fuel simulating environment	

		L. Intiso, P.E. Di Nunzio, Centro Sviluppo Materiali, Rome/I; L.G. Johansson, M. Halvarsson, Chalmers University of Technology, Goteborg/S	
12:40		Lunchtime	
		Corrosion by Hot Gases and Combustion Products	Room C1-C3
Chairs		M. Schutze	
14:00	O-1149	Corrosion behaviour of Ni-base alloys in supercritical water containing potassium salts	
		N. Boukis, E. Hauer, W. Habicht, Karlsruhe Institute of Catalysis Research and Technology (KIT)/D	
14:20	O-1687	Oxidation and phase transformation of austenitic 304L steel under accidental high temperature condition	
		D. Oquab, C. Josse, A. Freulon, Y. Thebeault, C. Charvillat, O. Marsan, J. Esvan, IC CIRIMAT, Toulouse/F; D. Galy, Synergie4, Evry/F	
14:40	O-1812	Vanadium induced high temperature corrosion in boiler environments	
		M. Galetz, X. Montero, M. Schütze, DECHEMA-Forschungsinstitut, Frankfurt am Main/D	
15:00	O-1644	Elemental effects on salt-accelerated high-temperature oxidation of Ni-based superalloys	
		F. Li, H. Pang, B. Conduit, S. Pahlavanyali, I. Edmonds, C. Rae, University of Cambridge/UK	
15:20		Coffee Break	
		Corrosion by Hot Gases and Combustion Products	Room C1-C3
Chairs		M. Schutze	
15:50	O-1168	Sulphide corrosion resistance of high-strength nickel-base superalloys produced via the powder metallurgy technique	
		V. Sinyavskiy, All-Russia Institute of Light Alloys, Moscow/RUS	
16:10	O-1615	Simulation of ash position in gas turbines using HVOF rig	
		M. Moliere, GE Energy Products-Europe, Belfort/F; M. Verdy, Université de Technologie de Belfort Montbéliard/F; M. Vierling, M. Sokolov, GE Energy Products-Europe, Belfort/F	
16:30	O-8535	Subsurface alloy microstructural changes during high temperature reaction of Fe-Cr Alloys in CO₂ model alloys of Fe-9Cr (wt. pct.), with and without Mn and Ce	
		D. Young, T. Nguyen, J. Zhang, University of New South Wales, Sydney/AUS	
16:50	O-1358	The behaviour of nickel based alloys in presence of alkaline and earth-alkaline sulphates - The roles of aluminium and titanium	
		M. Moliere, GE Energy Products Europe, Belfort/F; E. Rocca, L. Aranda, Institut Jean Lamour, Nancy/F	
17:50		EFC General Assembly	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

		Invited Plenary Lecture	Auditorium
8:30	PL-8547	Innovative Concepts for High Temperature Corrosion Protection	
		M. Schütze, DECHEMA-Forschungsinstitut, Frankfurt am Main/D	
		Coatings: Organic Coatings	Room E
Chairs		Sykes / Bonora	
9:30	O-1385	Hybrid sol-gel coating for corrosion protection of magnesium alloys in simulated body fluid	
		L. Cordoba, Instituto Superior Técnico, Lisboa/P; M.T. Silva, Instituto Superior de Engenharia de Lisboa/P; T. Coradin, Université Pierre et Marie Curie, Paris/F; M.F. Montemor, Instituto Superior Técnico, Lisboa/P	
9:50	O-1596	Flexible thin polyelectrolyte films for corrosion protection on TWIP steel substrates	
		C.-N. Liu, O. Oezcan, T. Niendorf, F. Brenne, G. Grundmeier, University of Paderborn/D	
10:10	O-1497	Biodegradable coating on magnesium alloy for biomedical implants	
		A. Zomorodian, TU of Lisbon/P; M.P. Garcia, Universidade do Porto/P; M.J. Carmezim, Instituto Politécnico de Setúbal/P; T. Moura e Silva, Instituto Superior de Engenharia de Lisboa/P; J.C.S. Fernandes, TU of Lisbon/P; M.H. Fernandes, Universidade do Porto/P; M.F. Montemor, TU of Lisbon/P	
10:30	O-1549	In-situ study of metal-polymer coating interfaces by means of an integrated ATR-FTIR and EIS system	
		P. Taheri, Delft University of Technology/NL; H. Boyd, Heerema Marine Contractors, Leiden/NL; J.M.C. Mol, H. Terry, Delft University of Technology/NL	
10:50	O-1663	Ultrathin polymer coatings for delamination studies	
		D.I. Iqbal, A.N. Erbe, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D	
11:10		Coffee Break	
		Coatings: Organic Coatings	Room E
Chairs		Sykes / Bonora	
11:30	O-1707	Investigation of cathodic delamination of adhesives from zinc oxide coated steel by means of height regulated scanning Kelvin probe	
		C. Gnoth, K. Pohl, G. Grundmeier, University of Paderborn/D	

11:50	O-1579	Studies on organic coatings using a bimetallic galvanic cell	
		Y. Xu, J.M. Sykes, Oxford University/UK	
12:10	O-1577	Specifying coatings - What about appropriate design criteria?	
		E. Broesder, Stopaq b.v., Stadskanaal/NL	
12:50		Lunchtime	
		Coatings: Pretreatments	Room E
Chairs		Olivier, Grundmeier	
14:00	O-1584	New conversion coatings based on phosphating technology for high strength steels	
		B. Díaz, L. Freire, M. Mojó, X.R. Nóvoa, University of Vigo/E	
14:20	O-1173	Combining the application of nanoparticle based coatings with chemical conversion treatments for the corrosion protection of Mg alloys	
		D. Tabatabai, B. Tigges, F. Feil, W. Fürbeth, DECHEMA Research Institute, Frankfurt am Main/D	
14:40	O-1017	Chrome-free conversion coatings by vanadate for electroless Ni-P on AZ91 D magnesium alloy	
		I.M. Ghayad, H.H. Elsentriecy, Z. Abdel Hamid, CMRDI, Helwan/ET	
15:00	O-1543	Effect of the metallic surface pre-treatment on the corrosion behaviour of sol-gel hybrid coatings applied on EN AW-6063 alloy	
		I.R. Fontinha, LNEC, Lisboa/P; E. Moreira, UL, Lisboa/P; M.M. Salta, LNEC, Lisboa/P; M.L. Zheludkevich, M.G. Ferreira, UA, Aveiro/P; R. Figueira, UM, Braga/P; E.V. Pereira, LNEC, Lisboa/P	
15:20		Coffee Break	
		Coatings: Pretreatments	Room E
Chairs		Olivier, Grundmeier	
15:50	O-1081	The effect of microscale distribution of Cr-free pretreatment layers to corrosion resistance of painted panels	
		V. Saarimaa, J. Manni, Top Analytica Oy, Turku/FIN; E. Kauppinen, A. Markkula, Ruukki Metals, Hämeenlinna/FIN	
16:10	O-1264	Steam assisted accelerated growth of oxide layer on aluminium alloys	
		R. Din, M.S. Jellesen, R. Ambat, TU of Denmark, Kongens Lyngby/DK	
16:30	O-1510	Positive effect of the addition of silane treatment on wet durability of fusion bonded epoxy/steel joints for three layers pipeline coatings	
		M. Tchoquessi Diodjo, E. Aragon, L. Belec, Y. Joliff, F.X. Perrin, Université du Sud Toulon Var, La Valette du Var cedex/F; M. Bonnaudet, L. Lanarde, M. Meyer, GDF SUEZ, Saint-Denis, La Plaine/F	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

16:50	O-1025	Zirconium oxide based conversion layers on aluminum alloys: Role of intermetallics	
		A. Sarfraz, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D; R. Posner, K. Lill, Henkel AG & Co. KGaA, Düsseldorf/D; A. Erbe, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D	
17:30		Poster Party and Poster Award	
		Corrosion Mechanisms & Methods	Room B
Chairs		H. Terryn / A. Atrens	
9:30	KN-1352	A general model for oxide film growth kinetics on metals and alloys	
		P. Marcus, A. Seyeux, V. Maurice, Ecole Nationale Supérieure de Chimie de Paris/F	
10:10	O-1213	Time-frequency analysis of electrochemical noise data using Hilbert spectra for the characterization of localized corrosion processes	
		A. Homborg, Royal Netherlands Navy, Den Helder/NL; T. Tinga, Netherlands Defence Academy, Den Helder/NL; X. Zhang, TNO Maritime Materials Performance Centre, Den Helder/NL; E. van Westing, Materials Innovation Institute (M2i), Delft/NL; P.J. Oonincx, Netherlands Defence Academy, Den Helder/NL; G.M. Ferrari, TNO Maritime Materials Performance Centre, Den Helder/NL; J.H.W. de Wit, J.M.C. Mol, Delft University of Technology/NL	
10:30	O-1156	In situ nanoscale morphology and atomic structure of the passive film on stainless steel	
		V. Maurice, T. Massoud, L.H. Klein, P. Marcus, CNRS, Paris/F	
10:50	O-1700	Detailed investigation of pit parameters in AISI 1040 steel using temporal series of micrographs coupled with electrochemical techniques	
		A. Mendes Zimer, E. Costa Rios, L. Helena Mascaro, E. Chaves Pereira, Federal University of São Carlos (UFSCar)/BR	
11:10		Coffee Break	
		Corrosion Mechanisms & Methods	Room B
Chairs		H. Terryn / A. Atrens	
11:30	O-1306	Optimisation of the nickel-base alloys composition to improve corrosion resistance	
		F. Hamdani, B. Ter-Ovanesian, C. Alemany-Dumont, B. Normand, MATEIS - CORRIS, Villeurbanne/F; Y. Watanabe, Tohoku University, Sendai/J	
11:50	O-1575	Pitting corrosion on stainless steel characterised using SVET and optical techniques	

		F. Al Mawali, Oman Oil Refineries and Petroleum Industries Company, Muscat/OM; S. Geary, H. McMurray, G. Williams, Swansea University/UK	
12:10	O-1374	EIS investigation of a single pit generated on 316L stainless steel	
		N. Aouina, F. Huet, S. Joiret, H. Perrot, LISE UPR15, Paris/F; R. Robin, F. Rouillard, CEA/DEN/DANS/DPC/SCCME/LECNA, Gif-sur-Yvette/F; V. Vivier, LISE UPR15, Paris/F	
12:30	O-1188	Study of the ageing of APX4 stainless steel when exposed to water and hydrogen traces	
		K. Tabalaiev, Université de Bourgogne, Dijon/F; S. Ringeval, S. Thiébaud, CEA Valduc, Is-sur-Tille/F; V. Vignal, A. Staiger, Université de Bourgogne, Dijon/F; J. Farré, CEA Valduc, Is-sur-Tille/F	
12:50		Lunchtime	
		Corrosion Mechanisms & Methods	Room B
Chairs		V. Maurice	
14:00	O-1236	Use of acoustic emission technique for on-line monitoring of austenitic stainless steel crevice corrosion in chloride containing solutions	
		J.L. Tang, M. Fregonese, Institut National des Sciences Appliquées de Lyon, Villeurbanne/F; B. Legros, MISTRAS Group SA, Sucey-en-Brie/F; B. Normand, N. Godin, Institut National des Sciences Appliquées de Lyon, Villeurbanne/F; F. Grosjean, IFPEN, Solaize/F; L. Diguët, RHODIA, Saint Fons/F	
14:20	O-1284	The In-situ observation of preferential dissolution behaviour on crevice corrosion of a duplex stainless steel	
		S. Aoki, Y. Nada, J. Sakai, Waseda University, Tokyo/J	
14:40	O-1299	Effect of 475°C embrittlement heat treatments on the corrosion behaviour of grade 2205 duplex stainless steel using local probing technique	
		C. Örnek, D.L. Engelberg, S.B. Lyon, University of Manchester/UK; T.L. Ladwein, Aalen University of Applied Sciences/D	
15:00	O-1766	Effect of alkali metal solutions on the nature of the passive film on nickel	
		R.G. Duarte, C. Vicente, R. Neves, A.S. Castela, Instituto Politécnico de Setúbal, Lavrado/P	
15:20		Coffee Break	
		Corrosion Mechanisms & Methods	Room B
Chairs		V. Maurice	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

15:50	O-1484	Corrosion resistance and cytotoxicity evaluation of ferromagnetic materials for use in dental prosthesis	
		R.A. Marques, S.O. Rogero, M. Terada, <u>I. Costa</u> , IPEN/CNEN-SP, São Paulo/BR	
16:10	O-1521	Influence of the grain orientation spread on the pitting corrosion resistance of duplex stainless steel using EBSD / CPT at the microscale	
		<u>D. Ba</u> , V. Vignal, Université de Bourgogne, Dijon/F; S. Le Manchet, Industeel ArcelorMittal, Le Creusot/F	
16:30	O-1662	Optimising the corrosion behaviour of electron-beam welded duplex stainless steels	
		<u>S. Schmigalla</u> , University of Magdeburg/D; S. Krasnorutskiy, University of Technology Braunschweig/D; A. Heyn, University of Magdeburg/D	
16:50	O-1319	Influence of the ambient humidity content and the presence of different acidifying gases on the atmospheric corrosion of silver	
		R. Wiesinger, M. Schreiner, Academy of Fine Arts, Vienna/A; <u>C. Kleber</u> , Centre of Electrochemical Surface Technology, Wiener Neustadt/A	
17:10	O-1142	In situ ex-polarized TEM observation on dissolution of MnS inclusions and metastable pitting of authentic stainless steel	
		<u>B. Zhang</u> , Institute of Metal Research, Shenyang/CHN	
17:30		Poster Party and Poster Award	
		Corrosion in Oil & Gas Production	Auditorium
chairs		M. Bonis / J. Kittel	
9:30	KN-8527	Hyperspectral optical technique for quantitative visualization of microcracks in oil and gas equipment using metal nanoparticle markers	
		<u>L. Perelman</u> , Harvard University, Cambridge, MA/USA; A.V. Muradov, M. Getmanskyy, Gubkin Russian State University of Oil and Gas, Moscow/RUS; M.B. Agranat, Russian Academy of Sciences, Moscow/RUS; V.A. Vinokurov, Gubkin Russian State University of Oil and Gas, Moscow/RUS	
10:10	O-1340	Corrosion fatigue cracking of high strength carbon steel wires in CO₂-saturated seawater environment	
		<u>P.E. Barnes</u> , S.B. Lyon, D.L. Engelberg, The University of Manchester/UK	
10:30	O-1087	Evaluation of stress corrosion cracking resistance of Ni based alloys using a "Crevice Four-Point Bend" device	
		<u>A. Smith</u> , R. Morana, CSM S.p.A., Rome/I; J. Martin, BP, Sunbury on Thames/UK; S. Shademan, BP, Houston, TX/USA; G. Hinds, NPL, Teddington/UK	
10:50	O-1086	The effect of microstructure on the stress corrosion cracking (SCC) of alloy 718 in H₂S environment	
		<u>A. Aghajani</u> , J. Kloewer, Outokumpu VDM, Altena/D; L. Kessler, RWTH Aachen/D; O. Tassa, L. Aleva, Centro Sviluppo Materiali S.p.A., Rome/I	

11:10		Coffee Break	
		Corrosion in Oil & Gas Production	Auditorium
chairs		M. Bonis / J. Kittel	
11:30	O-1114	Mechanical properties and corrosion resistance of ultra-large diameter alloys 945/945X	
		<u>S. Mannan</u> , S. Tassen, S. McCoy, Special Metals Corporation, Huntington, WV/USA	
11:50	O-1559	Corrosion of heat exchanger from UNS N06625 in condensate and gas cooler- Case study	
		<u>M. Askari</u> , S. Afroukhteh, D. Masouri, Pars Oil and Gas Company, Tehran/IR	
12:10	O-1439	New alloying concepts for increased corrosion resistance of welded linepipe steels in CO₂ containing aqueous media	
		<u>M. Tröger</u> , C. Bosch, Salzgitter Mannesmann Forschung GmbH, Duisburg/D; H. Meuser, Salzgitter Mannesmann Grobblech, Mühlheim/D; F.M. Knoop, Salzgitter Mannesmann Großrohr GmbH, Salzgitter/D; H. Brauer, Salzgitter Mannesmann Line Pipe GmbH, Hamm/D; J. Schröder, Europipe GmbH, Mühlheim/D	
12:50		Lunchtime	
		Corrosion in Oil & Gas Production	Auditorium
chairs		M. Bonis / J. Kittel	
14:00	O-1454	Fatigue and 718 nickel base alloy	
		<u>R. Badrak</u> , Weatherford International, Houston, TX/USA; S. Kolesov, Weatherford International, St. Petersburg/RUS; C. Lawson, Weatherford International, Aberdeen/UK; D. Minett-Smith, Weatherford International, Tewkesbury/UK	
14:20	O-1637	A new cast alloy with high strength and excellent corrosion resistance - An alternative to the conventional A825 and A625 Ni-base alloys	
		<u>H. Asteman</u> , D. Jakobi, Schmidt + Clemens GmbH & Co. KG, Lindlar/D	
14:40	O-1304	Centrifugally cast CRA piping solution for oil and gas industry	
		<u>S. Venkataraman</u> , G.-W. Overbeck, D. Jakobi, Schmidt + Clemens GmbH & Co. KG, Lindlar/D	
15:00	O-1445	Novel developments in the characterisation of localised corrosion of CRAs in oil and gas environments	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

		<u>G. Hinds</u> , L. Wickström, J. Doff, A. Turnbull, National Physical Laboratory, Teddington/UK; V. Smith, R. Woollam, BP Exploration & Production Company Ltd., Sunbury-on-Thames/UK	
15:20		Coffee Break	
		Corrosion in Oil & Gas Production	Auditorium
chairs		M. Bonis / J. Kittel	
15:50	O-1413	Electroless nickel evolution: From lead to metal-free stabilized systems	
		<u>C. Werner</u> , F.J. Stark, H. Horsthemke, H.J. Kraft, Enthone GmbH, Langenfeld/D	
16:10	O-1400	Corrosion behaviour and microstructural study of low carbon steel weldment within aqueous solution containing CO₂	
		<u>A. Abdurrahim</u> , Libyan Petroleum Institute, Tripoli/LAR; A. Betts, DIT, Dublin/IRL; S. Naher, S. Hashmi, DCU, Dublin/IRL	
16:30	O-1669	Qualification of 316L lined pipe for sour service in strain based design	
		<u>M.E. Wilms</u> , Shell - Projects & Technology, Amsterdam/NL; S. Huizinga, Shell - Projects & Technology, Houston, TX/USA; J.P. Smit, J.T.G. Wijenberg, Shell - Projects & Technology, Amsterdam/NL; T. Hutchens, Shell - Projects & Technology, Rijswijk/NL	
17:30		Poster Party and Poster Award	
		Nuclear Corrosion	Room C7
Chairs		R. Killian	
9:30	O-1432	Influence of some chemical properties of the SCW on the oxidation of austenitic alloys and F/M T91	
		<u>D. Gómez-Briceño</u> , A. Saez Maderuelo, F. Blázquez, Ciemat, Madrid/E	
9:50	O-1562	Characterisation of water-side oxide films formed on structural steels for supercritical power cycle applications	
		<u>J. Macák</u> , P. Sajdl, V. Bystrianský, Institute of Chemical Technology, Prague/CZ; M. Zychová, E. Knzanová, Research Centre Rez/CZ; L. Lapcák, M. Novotná, Institute of Chemical Technology, Prague/CZ	
10:10	O-1586	FeCrAl-based coatings for improving corrosion resistance of steels exposed to molten Pb	
		<u>A. Jianu</u> , A. Weisenburger, R. Fetzer, M. Bruns, S. Doyle, A. Heinzl, G. Mueller, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D	
10:30	O-1202	Corrosion of stainless steel in nitric media: Effect of oxidizing ions	
		<u>P. Laghoutaris</u> , A. Fallet, N. Gruet, B. Gwinner, P. Fauvet, R. Robin, CEA Saclay, Gif-sur-Yvette/F	

10:50	O-1225	Passivity and passivity breakdown of 304L in concentrated HNO₃ at high temperature	
		<u>E. Gillard</u> , B. Gwinner, CEA, Gif-sur-Yvette/F; V. Vivier, CNRS, Paris/F	
11:10		Coffee Break	
		Nuclear Corrosion	Room C7
Chairs		G. Was	
11:30	O-1524	Nickel copper matrixes for fission products immobilization	
		<u>N. Mary</u> , INSA Lyon, Villeurbanne/D; C. Alemany-Dumont, INSA Lyon, Villeurbanne/F; B. Normand, INSA-Lyon, Villeurbanne/F; V. Broudic, C. Jegou, CEA-Marcoule, Bagnols-sur-Cèze/F	
11:50	O-1585	Impact of realistic corrosion products (RCP) stemming from iron archaeological artefacts on the alteration of nuclear glass	
		<u>L. Gentaz</u> , D. Neff, CEA, Gif-sur-Yvette/F; D. Rebiscol, CEA, Bagnols-sur-Cèze/F; P. Dillmann, CEA, Gif-sur-Yvette/F; S. Gin, CEA, Bagnols-sur-Cèze/F	
12:10	O-1041	In situ corrosion rate measurements of carbon steel under anoxic conditions at about 80°C	
		S. Necib, Andra, Bure/F; C. Bataillon, CEA, Saclay/F; D. Crusset, Andra, Châtenay/F; S. Daumas, CFG Services, Marseille/F; S. Dewonck, Andra, Bure/F; <u>N. Diomidis</u> , Nagra, Wettingen/CH	
12:30	O-1175	Electrochemical synthesis and characterization of rust on carbon steel under argillite layers in carbonated media at 80°C	
		<u>A. Romaine</u> , R. Sabot, M. Jeannin, P. Refait, University of La Rochelle/F	
12:50		Lunchtime	
		Nuclear Corrosion	Room C7
Chairs		G. Was / S. Lyon	
14:00	O-1113	Long-term corrosion of iron in an integrated iron-clay setup at 90°C: Insight into the evolution of a nuclear waste disposal	
		<u>M.L. Schlegel</u> , F. Bruker, C. Bataillon, C. Blanc, E. Foy, CEA, Gif-sur-Yvette/F	
14:20	O-1377	Anaerobic corrosion of carbon steel and gas generation in cementitious grout	
		S. Wang, R.C. Newman, University of Toronto/CDN; L. Johnson, <u>N. Diomidis</u> , Nagra, Wettingen/CH	
14:40	O-1181	Impact of bacterial activities and heterogeneities on iron/argillite reactivity: First results	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

		C. Chautard, A. Dauzères, IRSN, Fontenay-aux-Roses/F; E. Vega, D. Neff, J.P. Gallien, P. Dillman, CEA, Saclay/F; J.E. Lartigue, CEA, Cadarache/F; F. Marsal, IRSN, Fontenay-aux-Roses/F; L. De Windt, Mines-ParisTech, Fontainebleau/F	
15:20		Coffee Break	
		Workshop D: Radiation and Corrosion in Nuclear Power Plants	Room C7
Chairs		D. Féron / T. Couvant	
15:50	O-1817	Towards understanding of the IASCC phenomena - PERFORM60 project	
		M. Konstantinovic, SCK CEN, Mol/B; T. Couvant, EDF/B; C. Mottershead, AMEC/B; B. Tanguy, CEA/B; W. Karlsen, VTT/B; C. Becquart, CNRS/B; C. Domain, EDF/B	
16:10	O-1030	Corrosion of 316L stainless steels under proton or electron radiolysis at variable temperature and pressure in PWR conditions	
		M. Wang, Ecole Polytechnique, Palaiseau/F; B. Muzeau, S. Perrin, CEA Saclay, Gif-sur-Yvette/F; C. Corble, Ecole Polytechnique, Palaiseau/F; D. Féron, CEA Saclay, Gif-sur-Yvette/F	
16:30	O-1412	Influence of temperature and pH on oxide growth over time for 316L versus model alloys in PWR primary water	
		F.J. Perosanz, C. Maffiotte, G. de Diego, M. Hernández, A. Hornés, S. Merino, CIEMAT, Madrid/E	
16:50	O-1070	Modeling irradiation-assisted stress corrosion cracking of austenitic alloys exposed to PWR primary water	
		T. Couvant, EDF R&D, Moret-sur-Loing/F; J.M. Proix, EDF R&D, Clamart/F; S. Meunier, EDF R&D, Moret-sur-Loing/F	
17:30		Poster Party and Poster Award	
		Workshop D: Corrosion Reliability of Electronics Devices	Room D1-D2
Chairs		R. Ambat	
9:30	O-1479	Impact of hygroscopicity and composition of solder flux residue on the reliability of PCBA under corrosive conditions	
		V. Verdingovas, M. Jellesen, R. Rizzo, H. Conseil, R. Ambat, TU of Denmark, Kgs. Lyngby/DK	
9:50	O-1180	Highly accelerated corrosion testing - HACT	
		A.B. Kentved, K.A. Schmidt, DELTA, Hoersholm/DK	
10:10	O-1730	Printed circuit board surface finish and effects of chloride contamination, electric field, and humidity on corrosion reliability	

		R. Ambat, M.S. Jellesen, B. Mikkelsen, DTU, Kgs. Lyngby/DK	
10:30	O-8528	An overview on the climatic reliability issues of electronic devices	
		R. Ambat, Technical University of Denmark, Kongens Lyngby/DK	
10:50	O-1309	Decomposition studies of no-clean solder flux systems in connection with corrosion reliability of electronics	
		H. Conseil, M. Jellesen, V. Verdingovas, R. Ambat, Denmark Technical University, Kongens Lyngby/DK	
11:10		Coffee Break	
		Workshop D: Corrosion Reliability of Electronics Devices	Room D1-D2
Chairs		R. Ambat	
11:30	O-8529	Iodide based polyamide-stabilizers and potential risk for corrosion in electronics	
		L. Müller, M. Leineweber, Robert Bosch GmbH, Automotive Electronics, Reutlingen/D	
12:50		Lunchtime	
		Corrosion of Steel in Concrete	Room F7
Chairs		M. Raupach	
9:30	O-1334	Large scale reinforced concrete test specimen for potential mapping under practical conditions	
		G. Ebell, A. Burkert, J. Mietz, BAM Federal Institute for Materials Research and Testing, Berlin/D	
9:50	O-1555	Corrosion resistance of galvanized steel in concrete: Effect of wet-dry cycles in chloride solution after carbonation process	
		G. Roventi, T. Bellezze, E. Tiberi, R. Fratesi, Università Politecnica delle Marche, Ancona/I	
10:10	O-1566	Deposition of hybrid sol-gel films on hot dip galvanized reinforcing steel	
		R. Figueira, Laboratório Nacional de Engenharia Civil, Lisboa/P; C.J.R. Silva, Universidade do Minho, Braga/P; E.V. Pereira, I.R. Fontinha, M.M. Salta, Laboratório Nacional de Engenharia Civil, Lisboa/P	
10:30	O-1131	Corrosion of reinforcement in existing concrete balconies	
		J. Lahdensivu, Tampere University of Technology/FIN; H. Mäkelä, P. Pirinen, Finnish Meteorological Institute, Helsinki/FIN	
10:50	O-1167	Durability of concrete facades in regard of reinforcement corrosion in future climate	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

		A. Köliö, T. Pakkala, J. Lahdensivu, M. Kiviste, Tampere University of Technology/FIN	
11:10		Coffee Break	
		Corrosion of Steel in Concrete	Room F7
Chairs		M. Raupach	
11:30	O-1232	Modified hydrotalcites as a new additive of concrete for anticorrosion applications-An assessment in chloride-containing alkaline solutions	
		Z. Yang, Delft University of Technology/NL; H. Fischer, TNO, Eindhoven/NL; J. Cerezo, J.M.C. Mol, R. Polder, Delft University of Technology/NL	
11:50	O-1407	Corrosion of reinforcing steel in mortar modified by spent FCC catalyst impregnated with corrosion inhibitors	
		Y. Morozov, A.S. Castela, A.P.S. Dias, M.F. Montemor, Instituto Superior Técnico, Lisboa/P	
12:10	O-1767	Encapsulated inhibitor in zeolites particles as additive for concrete aiming the rebars corrosion protection	
		A.S. Castela, C. Vicente, R. Neves, Instituto Politécnico de Setúbal, Barreiro/P; M.F. Montemor, Instituto Superior Técnico, Lisboa/P	
12:30	O-1265	Thermal sprayed zinc as sacrificial anode for CCP in a covered car park suffering from chloride corrosion	
		C. Gianocca, C. Haldemann, IM Maggia Engineering SA, Locarno/CH	
12:50		Lunchtime	
		Corrosion and Scale Inhibition	Room F7
Chairs		G. Schmitt / W. Hater	
15:50	O-1083	Polymeric corrosion inhibitors - a new class of oilfield formulation bases	
		P-E Hellberg, AkzoNobel Surface Chemistry AB, Stenungsund/S	
16:10	O-1085	Development of a novel multifunctional production chemical with biocidal, solids removal and corrosion inhibition properties	
		A. Jenkins, M-I SWACO, Aberdeen/UK	
16:30	O-1729	Film forming amines for closed cooling/heating water systems	
		C. Foret, G. Stoianovici, P. Blériot, BKG Water Solutions, Vaas/F; W. Hater, BKG Water Solutions, Düsseldorf/D	
16:50	O-1058	Electrochemical and XPS study of adsorption of 2-mercaptobenzothiazole on copper, zinc and brass surface	

		I.A. Arkhipushkin, Mendeleev University of Chemical Technology of Russia, Moscow/RUS; Yu.E. Pronin, L.P. Kazansky, Russian Academy of Sciences, Moscow/RUS	
17:10	O-1529	Evaluation of corrosion behaviour of 6060 and 6082 type aluminum alloys in simulated acid rain using dynamic EIS	
		H. Gerengi, Duzce University/TR; P. Slepski, Gdansk University of Technology/PL; E. Ozgan, M. Kutay, Duzce University/TR	
17:30		Poster Party and Poster Award	
		Environment Sensitive Fracture	Room F4-F6
Chairs		K. Wolski / J. Bouhattate	
9:30	KN-1478	Overview: Diffusion and trapping processes on martensitic steel	
		J. Bouhattate, J. Creus, A. Oudriss, X. Feaugas, LaSIE, La Rochelle/F	
10:10	O-1067	Modelling the effects of dissolved hydrogen, temperature and stress on SCC of a Cr-Ni model alloy in high temperature water	
		H. Hoffmeister, Institute for Failure Analysis and Failure Prevention ISSV e.V., Hamburg/D	
11:10		Coffee Break	
		Corrosion in the Refinery Industry	Room F4-F6
Chairs		F. Ropital	
11:30	O-1795	3D TRASAR Boiler Technology improves sustainability performance and reliability and reduce total cost of operation in steam production	
		V. Bour Beucder, Nalco, Wasquehal/F	
11:50	O-1274	Application of modified electrochemical noise technique in kuwaiti open cooling water system	
		H. Al-Mazeedi, Kuwait Institute for Scientific Research (KISR), Shewaikh/KWT; M. Miyazawa, JSCE, Tokyo/J; N. Tanoli, Kuwait Institute for Scientific Research (KISR), Ahmady/KWT	
12:10	O-1593	Pitting and stress corrosion cracking resistance of Sandvik SAF 2707 HD_{TM} in sodium chloride and magnesium chloride	
		U. Kivisäkk, J. Eihagen, AB Sandvik Materials Technology, Sandviken/S	
12:30	O-1506	Role of sulfur compounds in mitigating naphthenic acid corrosion	
		S. Srinivasan, K.M. Yap, Honeywell International, Inc., Houston, TX/USA	
12:50		Lunchtime	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

		Corrosion in the Refinery Industry	Room F4-F6
Chairs		F. Ropital	
14:00	O-1742	High temperature corrosion of Ni-16Cr-4.5Al-3Fe and Ni-27.5Fe-20Cr-3.8Al alloys by NaCl or Na2SO4 salt under low oxygen partial pressure	
		<u>V. Parry</u> , Grenoble University, Saint Martin d'Herès/F; <u>F. Ropital</u> , <u>F. Grosjean</u> , <u>J. Kittel</u> , IFP Énergies Nouvelles, Solaize/F; <u>Y. Wouters</u> , Grenoble University, Saint Martin d'Herès/F	
14:20	O-1124	High temperature organic acid corrosion of a visbreaker vacuum distillation column	
		<u>A. Visgård Nielsen</u> , Statoil Refining, Kalundborg/DK; <u>M.C. White</u> , Shell Global Solutions International B.V., Amsterdam/NL	
14:40	O-1209	Corrosion protection of mothballed equipment vapor spaces	
		<u>E. Lyublinski</u> , <u>Y. Vaks</u> , <u>T. Natale</u> , <u>M. Posner</u> , Northern Technologies International Corporation, Beachwood, OH/USA; <u>W. Rohland</u> , <u>S. Woessner</u> , Northern Technologies International Corporation, Circle Pines, MN/USA; <u>R. Singh</u> , <u>Zerust</u> , São Paulo/BR; <u>H. de Souza Siriaco</u> , Petrobras, Rio de Janeiro/BR	
15:00	O-1210	Corrosion protection of oil storage tank roofs	
		<u>E. Lyublinski</u> , <u>Y. Vaks</u> , Northern Technologies International Corporation, Beachwood, OH/USA; <u>R. Singh</u> , <u>Zerust</u> , Sao Paulo/BR; <u>M. Schultz</u> , <u>A. Gioia</u> , Petrobras, Rio de Janeiro/BR	
15:20		Coffee Break	
		Corrosion in the Refinery Industry	Room F4-F6
Chairs		F. Ropital	
15:50	O-1741	New predictive model for corrosion in sulfuric acid alkylation units	
		<u>P. Ellis</u> , <u>S. Srinivasan</u> , <u>K.M. Yap</u> , Honeywell International, Houston, TX/USA	
16:10	O-9055	Corrosion Management of Caustic Line in a Petrochemical Plant	
		<u>Jian-Zhong Zhang</u> and <u>A. K. Bairamov</u>	
17:30		Poster Party and Poster Award	
		Microbial Corrosion	Room C4-C6
Chairs		R. Basseguy	
9:30	O-1482	Extracellular polymeric substances from sulfate reducing prokaryotes and their influence on carbon steel surface behaviour	
		<u>A. Wikiel</u> , Universität Duisburg - Essen/D; <u>B. Torres Bautista</u> , CNRS, Paris/F; <u>I. Datsenko</u> , Universität Duisburg - Essen/D; <u>P. Rouxhet</u> , <u>P. Eloy</u> , <u>M. Genet</u> , <u>Y. Yang</u> , <u>C. Dupont-Gillan</u> , Université Catholique de Louvain/B; <u>P. Marcus</u> , <u>I. Frateur</u> , CNRS, Paris/F; <u>M. Vera</u> , <u>W. Sand</u> , Universität Duisburg - Essen/D	

9:50	O-1190	Extracellular polymeric substances (EPS) from bacteria: Chemical nature and surface activity	
		<u>Y. Yang</u> , Université Catholique de Louvain/B; <u>A. Wikiel</u> , Universität Duisburg-Essen/D; <u>P. Rouxhet</u> , Université Catholique de Louvain/B; <u>L.T. Dall'Agnol</u> , Universidade Nova de Lisboa, Caparica/P; <u>P. Eloy</u> , <u>M. Genet</u> , Université Catholique de Louvain/B; <u>J.J.G. Moura</u> , Universidade Nova de Lisboa, Caparica/P; <u>W. Sand</u> , Universität Duisburg-Essen/D; <u>C. Dupont-Gillain</u> , Université Catholique de Louvain/B	
10:10	O-1416	Effect of extracellular polymeric substances from <i>Pseudomonas NCIMB 2021</i> on the corrosion behavior of 70Cu-30Ni alloy	
		<u>B.E. Torres Bautista</u> , CNRS/ENSCP UMR 7045, Paris/F; <u>A.J. Wikiel</u> , <u>I. Datsenko</u> , <u>M. Vera</u> , <u>W. Sand</u> , Universität Duisburg-Essen/D; <u>B. Tribollet</u> , CNRS UPR15, Paris/F; <u>A. Seyeux</u> , <u>S. Zanna</u> , <u>P. Marcus</u> , CNRS/ENSCP UMR 7045, Paris/F; <u>I. Frateur</u> , CNRS UPR15 and CNRS/ENSCP UMR 7045, Paris/F	
10:30	O-1191	Influence of respiratory substrate in iron uptake by SRB exopolymeric substances	
		<u>L. Dall'Agnol</u> , Universidade Nova de Lisboa, Caparica/P; <u>Y. Yang</u> , <u>P. Rouxhet</u> , <u>C. Dupont-Gillan</u> , Université Catholique de Louvain/B; <u>J.J.G. Moura</u> , Universidade Nova de Lisboa, Caparica/P	
10:50	O-1266	Effect of EPS-analogues on the corrosion behaviour of steel	
		<u>D. Holuscha</u> , DECHEMA Research Institute, Frankfurt am Main/D; <u>C. Thyssen</u> , <u>A. Kuklinski</u> , University Duisburg-Essen/D; <u>W. Fürbeth</u> , DECHEMA Research Institute, Frankfurt am Main/D; <u>W. Sand</u> , University Duisburg-Essen/D	
11:10		Coffee Break	
		Microbial Corrosion	Room C4-C6
Chairs		R. Basseguy	
11:30	O-1330	Metallic corrosion within nuclear waste repositories: A source of H₂ and Fe oxyhydroxides for microbial activities	
		<u>M. Kerber Schütz</u> , <u>M. Libert</u> , CEA, St Paul lez Durance/F; <u>M.L. Schlegel</u> , CEA, Gif-sur-Yvette/F	
11:50	O-1589	Corrosion behaviour and biofilm formation on carbon steel and stainless steel in simulated repository environment	
		<u>L. Carpén</u> , <u>P. Rajala</u> , VTT, Espoo/FIN; <u>M. Vepsäläinen</u> , Csiro, Clayton South/AUS; <u>M. Bomberg</u> , VTT, Espoo/FIN	
12:10	O-1224	Corrosion behaviour of carbon steel in presence of sulfate-reducing bacteria in North Sea seawater environment	
		<u>M. Stipanicev</u> , <u>F. Turcu</u> , <u>L. Esnault</u> , Det Norske Veritas, Bergen/N; <u>R. Basseguy</u> , Laboratoire de Génie Chimique CNRS-INPT, Toulouse/F	

Tuesday, 3 September 2013

Tuesday, 3 September 2013

12:30	O-1500	Formation of iron phosphate on carbon steel induced by <i>Geobacter sulfurreducens</i>: A thermodynamic analysis	
		O. Rosas, The University of Akron, OH/USA; C. Cote, R. Basseguy, University of Toulouse/F	
12:50		Lunchtime	
		Microbial Corrosion	Room C4-C6
Chairs		P. Christiani	
14:00	O-1695	Applied data mining on biocorrosion assessment of water injection pipelines	
		I. Comanescu, Swerea KIMAB, Stockholm/S; M. Stipanicev, L. Esnault, DNV, Bergen/N; C. Cote, CNRS, Toulouse/F; L.T. Dall'Agnol, Universidade Nova de Lisboa/P; M. Sztylek, J. Doma, University of Portsmouth/UK; O. Rosas, CNRS, Toulouse/F; M. Urquidi-Macdonald, Pennsylvania State University, University Park, PA/USA; E. Johansson, Swerea KIMAB, Stockholm/S	
14:20	O-1240	Accelerated low water corrosion (ALWC) of steel piling in harbours	
		R. Melchers, R. Jeffrey, The University of Newcastle/AUS	
14:40	O-1678	FT-IR characterization of bacterial isolates related to corrosion of drinking water copper pipes	
		C. Galarce, M. Araneda, G. Pizarro, L. Vargas, Pontificia Universidad Católica de Chile, Santiago/RCH	
15:00	O-1512	Microbial corrosion of steel in Toarcian argillite: Potential influence of biofilms	
		A. Perez, LAPA, CEA, Gif sur Yvette/F; L. Urios, IPREM, UPPA, Pau/F; C. Wittebroodt, LETIS, IRSN, Fontenay aux Roses/F; F. Mercier, LAPA, CEA, Gif sur Yvette/F; F. Marsal, M. Flachet, BERIS, IRSN, Fontenay aux Roses/F; M. Magot, IPREM, UPPA, Pau/F; D. Neff, P. Dillmann, LAPA, CEA, Gif sur Yvette/F	
15:20		Coffee Break	
		Microbial Corrosion	Room C4-C6
Chairs		P. Christiani	
15:50	KN-1231	Special silver nanoparticles with antigrowth and antifouling activities	
		J. Telegdi, Óbuda University, Budapest/H; T. Szabó, L. Nyikos, Research Centre of Natural Science, Budapest/H	
16:30	O-1550	Self-assembling, Langmuir—Blodgett and dip-coated nanolayers: preparation, characterization and application against biocorrosion	
		L. Románszki, J. Telegdi, L. Nyikos, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest/H	


17:30		Poster Party and Poster Award	
		Corrosion by Hot Gases and Combustion Products	Room C1-C3
Chairs		M. Schutze	
9:30	O-1540	Influence of the physico-chemistry of chromia and alumina in soda-lime silicates on the corrosion of superalloys in molten glass media	
		T.K. Abdullah, C. Petitjean, P.J. Panteix, C. Rapin, M. Vilasi, Institut Jean Lamour, Vandoeuvre les Nancy/F; Z. Hussain, School of Materials and Minerals Resources Engineering, Pulau Pinang/MAL; A. Abdul Rahim, School of Chemical Sciences, Pulau Pinang/MAL	
9:50	O-1373	Kinetics of high temperature oxidation of chromium-rich refractory alloys reinforced by various types of MC carbides	
		P. Berthod, E. Conrath, Université de Lorraine, Vandoeuvre-lès-Nancy/F	
10:10	O-1145	Peculiarities of the oxidation performance of advanced Mo-Si-B- and Co-Re-Cr-based alloys	
		B. Gorr, M. Azim, L. Wang, S. Majumdar, H.-J. Christ, University of Siegen/D	
10:30	O-1563	Corrosion in the flue gas routes of cement plants and the feasibility of measuring highly reactive acidic gas components	
		C. Suchak, VDZ gmbH, Düsseldorf/D	
10:50	O-1782	Post-test characterisation of ferritic interconnect after long term service in SOFC-stacks up 30 000 hours	
		V. Shemet, Forschungszentrum Jülich GmbH/D; Ch. Geipel, Q. Fang, Sunfire GmbH, Dresden/D; W.J. Quadackers, Forschungszentrum Jülich GmbH/D	
11:10		Coffee Break	
		Coatings for High Temperatures	Room C1-C3
Chairs		M. Schutze	
11:30	O-1258	New high-temperature erosion resistant weld overlays for coal-fired boilers and refinery/petrochemical applications	
		C. Narjoz, Aquilex Welding Services B.V., Hellevoetsluis/NL; D. Barborak, B. Li, G. Lai, AZZ WSI, Hellevoetsluis/NL	
11:50	O-1384	Development of chemically densified thermal sprayed multilayer coatings for use in waste incinerators	
		S. Schuster, P. Masset, Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Sulzbach-Rosenberg/D; K. Fehr, Universität München/D	

Tuesday, 3 September 2013

12:10	O-1775	Slurry Al-diffusion coatings prepared under atmospheric conditions for aggressive high temperature environments	
		J. Bauer, M.C. Galetz, M. Schütze, DECHEMA-Forschungsinstitut, Frankfurt am Main/D	
12:30	O-1780	Alloying of aluminides with refractory elements for high chlorine containing atmospheres	
		B. Rammer, M.C. Galetz, M. Schütze, DECHEMA-Forschungsinstitut, Frankfurt am Main/D	
12:50		Lunchtime	
		Coatings for High Temperatures	Room C1-C3
Chairs		M. Schütze	
14:00	O-1797	Microstructure and oxidation resistance of aluminized Ir-based alloys	
		H. Murakami, National Institute for Materials Science, Tsukuba-Science City/Tsukuba-City/J; D. Ohtsubo, Y. Yamabe-Mitarai, National Institute for Materials Science, Tsukuba-Science City/J; A. Suzuki-Shin, G. West, R. Thomson, Loughborough University/UK	
14:20	O-1532	Oxide features formed on austenitic stainless steel e1250 due to niobium and vanadium additions	
		R. Higginson, Y. Ding, E. Mogire, Loughborough University/UK	
14:40	O-1462	Corrosion of cobalt coated metallic interconnects exposed to solid oxide fuel cell conditions	
		A. Harthoej, TU of Denmark, Lyngby/DK; T. Holt, Topsoe Fuel Cell, Lyngby/DK; P. Moeller, TU of Denmark, Lyngby/DK	
15:00	O-1674	Electrodeposition and annealing of oxide coatings with ceria nanoparticles applied to stainless steel substrate for SOFC interconnectors	
		R. Pinto, Technical University of Lisbon/P; M.J. Carmezim, Instituto Politécnico de Setúbal/P; M.F. Montemor, Technical University of Lisbon/P	
15:20		Coffee Break	

Tuesday, 3 September 2013

		Coatings for High Temperatures	Room C1-C3
Chairs		M. Schütze	
15:50	O-1774	Development of chromium diffusion coatings and the improvement of oxidation behaviour in water vapour containing environments	
		M.C. Galetz, D. Schmidt, M. Schütze, DECHEMA-Forschungsinstitut, Frankfurt am Main/D	
16:10	O-1608	Recent advances in coating development for titanium aluminide alloys	
		P.J. Masset, G. Wolf, Fraunhofer Umsicht, Sulzbach-Rosenberg/D; L. Bortolotto, M. Schütze, Dechema Forschungsinstitut, Frankfurt am Main/D; F. Bleicher, G. Geiger, TU Vienna/A; A. Kolitsch, R.A. Yankov, HZ Dresden-Rossendorf/D; C. Langlade, TU Belfort/F; J.D.H. Paul, F. Pyczak, HZ Geesthacht/D; B. Pelic, D. Rafaja, TU Freiberg/D; P. Schumacher, ÖGI, Leoben/A	
17:30		Poster Party and Poster Award	

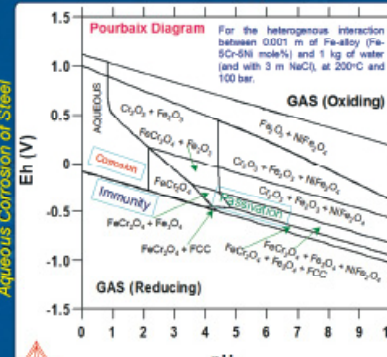


Thermo-Calc Software

Thermodynamic and Diffusion Simulation Software

Thermo-Calc 3.0

- ✓ Calculate stable and meta-stable phase equilibria
- ✓ Predict amounts of phases & their compositions
- ✓ Calculate phase diagrams for multi-component multi-phase systems
- ✓ Predict Pourbaix diagrams for aqueous systems with complex metal alloys
- ✓ Applications to high temperature corrosion
- ✓ Applications for molten salt corrosion
- ✓ Databases for steels, Al, Mg, Ti, Ni-superalloys, salts, aqueous systems and more...



Pourbaix Diagram For the heterogeneous interaction between 0.001 m of Fe-alloy (Fe-5Cr-5Ni mole%) and 1 kg of water (and with 3 m NaCl), at 200°C and 100 bar.

Visit us at Booth 9

Thermo-Calc Software AB
Email: info@thermocalc.com
Phone: +46-8-545 959 30
Fax: +46-8-873 37 18

www.thermocalc.com

USA, Canada and Mexico:
Email: Paul@thermocalc.com
Phone: (724) 731 0074
Fax: (724) 731 0078

Wednesday, 4 September 2013

Wednesday, 4 September 2013

		Invited Plenary Lecture	Auditorium
8:30	PL-8537	Inhibitor-containing coatings for active corrosion protection	
		<u>M. Ferreira</u> , University of Aveiro, Aveiro/P	
		Coatings: Self-healing Coatings	Room E
Chairs		Keil / Montemor	
9:30	O-1467	A combined EIS-X-ray tomography approach to evaluate the nature of the corrosion protection of scratched coatings by a silyl ester	
		<u>S.J. Garcia</u> , X. Wu, Delft University of Technology/NL	
9:50	O-1692	Active LDH Pre-treatment for aluminum alloys	
		<u>M. Zheludkevich</u> , J. Tedim, K. Yasakau, S. Kallip, M. Ferreira, University of Aveiro/P	
10:10	O-1303	Improving protective coatings for AA2024 alloys with pH- sensitive active containers	
		<u>D. Snihirova</u> , S.V. Lamaka, M.F. Montemor, Instituto Superior Tecnico, Lisbon/P	
10:30	O-1405	Corrosion protection of AA2024 by sol-gel coatings modified with mixed Ce(III)- and MoOx- loaded zeolites	
		<u>S. Dias</u> , Instituto Superior Técnico and Laboratório de Energia e Geologia, Lisboa/P; S.V. Lamaka, ICEMS/IST, Lisboa/P; T.C. Diamantino, Laboratório Nacional de Energia e Geologia, Lisboa/P; M.G.S. Ferreira, University of Aveiro and ICEMS/IST, Lisboa/P	
10:50	O-1473	Sol-gel coatings with LDH nanocontainers for active corrosion protection of AA2024	
		<u>K.A. Yasakau</u> , J. Carneiro, S. Kallip, R. Laranjeira, F. Maia, A. Kuznetsova, J. Tedim, M.L. Zheludkevich, M.G.S. Ferreira, University of Aveiro/P	
11:10		Coffee Break	
		Coatings: Self-healing Coatings	Room E
Chairs		Mol / Zheludkevich	
11:30	O-1485	Surface modification of nanocontainers of corrosion inhibitors for improved compatibility with coatings	
		<u>J. Carneiro</u> , A. Caetano, A. Kuznetsova, F. Maia, K.A. Yasakau, J. Tedim, M.L. Zheludkevich, M.G.S. Ferreira, Universidade de Aveiro/P	

11:50	O-1409	Active corrosion protection coatings based on potential triggered release systems	
		<u>A. Vimalanandan</u> , Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D; L. Lv, Y. Zhao, K. Landfester, D. Crespy, Max-Planck-Institut für Polymerforschung, Mainz/D; M. Rohwerder, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D	
12:10	O-1631	Investigation of release of active species (corrosion inhibitors) from layered double hydroxides	
		<u>A. Kuznetsova</u> , J. Tedim, A.F. Caetano, A. Salak, M.L. Zheludkevich, M.G.S. Ferreira, University of Aveiro/P	
12:30	O-1040	Anticorrosive epoxy coating doped with cerium cinnamate as an environmentally friendly pigment	
		<u>H. Shi</u> , E. Han, Chinese Academy of Sciences, Shenyang/PRC	
12:50		Lunchtime	
		Coatings: Self-healing Coatings	Room E
Chairs		I. Aoki / M. Ferreira	
14:00	O-1430	Comparison of incorporation and leaching out process of inhibitors in self-healing coatings on HDG steel	
		<u>A. Lutz</u> , Vrije Universiteit Brussel/B; O. van den Berg, F. Du Prez, University of Gent/B; I. De Graeve, H. Terry, Vrije Universiteit Brussel/B	
14:20	O-1353	Use of dodecylamine-loaded halloysite nanocontainers for active anticorrosion coatings	
		<u>J.M. Falcon</u> , T. Sawczen, I.V. Aoki, University of São Paulo/BR	
14:40	O-1106	Controlled release of inhibitors from composite organic coatings: A "green" way of corrosion protection	
		<u>A. Altin</u> , A. Erbe, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D; H. Ritter, Universität Düsseldorf/D; M. Rohwerder, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D	
15:00	O-1715	Self-healing properties of linseed oil containing microcapsules embedded in a high performance epoxy coating system	
		T. Sawczen, University of São Paulo/BR; M.G. Lachtermacher, A. Koeboesh, J.F.P. Coelho, CENPES - Petrobras, Rio de Janeiro/BR; <u>I.V. Aoki</u> , University of São Paulo/BR	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

15:20	O-1721	Big dimensions defects in smart coatings - Protection supplied by microencapsulated linseed oil	
		T. Sawczen, University of São Paulo/BR; M.G. Lachtermacher, A. Koeboesh, <u>J.F.P. Coelho</u> , CENPES - Petrobras, Rio de Janeiro/BR; I.V. Aoki, University of São Paulo/BR	
15:40		Coffee Break	
		Coatings: Self-healing Coatings	Room E
Chairs		S. Garcia / Deflorain	
16:10	O-1074	The influence of nanotraps and nanocontainers into multilayer coatings for corrosion protection of Mg alloy ZK30	
		<u>I. Kartsonakis</u> , D. Caraksis, NCSR "Demokritos", Agia Paraskevi/GR; D. Dragatogiannis, C. Charitidis, NTUA Athens, Zographos/GR; G. Kordas, NCSR "Demokritos", Agia Paraskevi/GR	
16:30	O-1312	Encapsulation of active compounds for corrosion sensing coatings	
		<u>F. Maia</u> , J. Tedim, A.C. Bastos, M.L. Zheludkevich, M.G.S. Ferreira, Aveiro University/P	
19:00		Conference Dinner	
		Corrosion Mechanisms & Methods	Room B
Chairs		N. McMurray / S. Lamaka	
9:30	O-1784	Do nickel and nickel alloys actually passivate in various media?	
		<u>F. Delaunois</u> , A. Sens, V. Vitry, University of Mons/B	
9:50	O-1096	Sensitization of stable and as rolled annealed alloy 625	
		<u>R. Lackner</u> , G. Mori, Montanuniversität Leoben/A; R. Egger, voestalpine Grobblech, Linz/A; M. Albu, FELMI-ZFE, Graz/A	
10:10	O-1419	The potential of CeO₂ particles as corrosion inhibitor for mild steel	
		<u>M. Fedel</u> , L. Ecco, F. Deflorain, University of Trento/I	
10:30	O-1218	Modelling of materials degradation caused by corrosion	
		<u>M. Pazderova</u> , L. Diblikova, V. Jenicek, Aerospace Research and Test Establishment, Prague/CZ	

10:50	O-1104	Molybdenum corrosion in PVD processes	
		<u>C. Holzer</u> , C. Vichytil, G. Mori, Montanuniversität Leoben/A; C. Linke, Plansee SE, Reutte/A	
11:10		Coffee Break	
		Corrosion Mechanisms & Methods	Room B
Chairs		N. McMurray / S. Lamaka	
11:30	O-1204	Corrosion of zinc in various electrolytes investigated by a scanning flow cell system with dynamic electrolyte change	
		<u>C.A. Laska</u> , K.J.J. Mayrhofer, S.O. Klemm, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D; M. Madani, J. De Strycker, ArcelorMittal Global R&D Gent, Zelzate/B	
11:50	O-1246	Combined electrochemical and analytical investigation of the corrosion of zinc based alloys	
		<u>L. Rossrucker</u> , K.J.J. Mayrhofer, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D; J. Schulz, S. Krebs, R. Wormuth, ThyssenKrupp Steel Europe AG, Dortmund/D	
12:10	O-1273	Influence of pH and composition of the electrolyte on Zn-Mg coated steel corrosion	
		<u>J. Rodriguez</u> , M. Mouanga, I. Recloux, L. Niemiowski, M.-G. Olivier, University of Mons/B	
12:30	O-1451	Aqueous corrosion of Mg-Al binary alloys: Role of Al and Mg	
		<u>P. Volovitch</u> , M. Serdechnova, K. Ogle, Ecole Nationale Supérieure de Chimie de Paris/F	
12:50		Lunchtime	
		Corrosion Mechanisms & Methods	Room B
Chairs		F. DiQuarto / B. Tribollet	
14:00	KN-1681	Anion-exchange inhibition of atmospheric corrosion on organic coated Mg-Al-Zn galvanised steel by hydrotalcite pigments	
		<u>H.N. McMurray</u> , G. Williams, D. Eaves, Swansea University/UK	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

14:40	O-1567	Modelling of galvanic corrosion of hot-dip-coated steel cut-edges under immersed conditions	
		<u>O. Dolgikh</u> , J. Deconinck, Vrije Universiteit Brussel/B	
15:00	O-1590	Improved Na⁺- and Cl⁻- sensitive glass-capillary microelectrodes for corrosion applications	
		<u>M. Taryba</u> , Technical University of Lisbon/P; <u>E. Zdrachek</u> , K. Andronchyk, V. Nazarov, V.V. Egorov, Belarusian State University, Minsk/BY; <u>S.V. Lamaka</u> , Technical University of Lisbon/P	
15:20	O-1747	Explaining the discrepancy between the total anodic and cathodic currents measured by SVET	
		<u>S.V. Lamaka</u> , H.B. Xue, M.G.S. Ferreira, Instituto Superior Tecnico, Lisboa/P	
15:40		Coffee Break	
		Corrosion Mechanisms & Methods	Room B
Chairs		F. DiQuarto / B. Tribollet	
16:10	O-1673	Infrared reflection absorption spectroscopy studies of the initial atmospheric corrosion of ZnAlMg and ZnAl coated steel in humid air containing SO₂ and NO₂	
		<u>D. Persson</u> , Swerea KIMAB, Stockholm/S; <u>T. Prosek</u> , N. Le Bozec, <u>D. Thierry</u> , Institut de la Corrosion, Brest/F	
16:30	O-1779	SECM and SVET study of cut edge corrosion on galvanized steel	
		<u>A. Marques</u> , Universidade Técnica de Lisboa/P; <u>J. Izquierdo</u> , R.M. Souto, University of La Laguna/E; <u>A.M. Simões</u> , Universidade Técnica de Lisboa/P	
16:50	O-1757	In-situ coupling photocurrent measured for plated steels in atmospheric corrosion	
		<u>K. Azumi</u> , Hokkaido University, Sapporo/J	
17:10	O-1552	Inkjet printing to create pre-corroded electrical-resistance corrosion monitors for estimating corrosion rates of heritage iron	
		<u>J.P. Dracott</u> , S.B. Lyon, University of Manchester/UK	
17:30	O-1599	The corrosion resistance of two non-noble alloys	
		<u>S. Capelo</u> , Évora University/P; <u>J.C.S. Fernandes</u> , L. Proença, I.T.E. Fonseca, Lisboa University/P	
19:00		Conference Dinner	

		Corrosion in Oil & Gas Production	Auditorium
Chairs		M. Achour / M. Bonis	
14:00	O-1066	ExxonMobil pipeline corrosion prediction technology	
		<u>R. Reddy</u> , C. Li, S. Desai, J. Pacheco, ExxonMobil, Houston, TX/USA	
14:20	O-8530	Pipeline corrosion in the presence of alternating current interference and its effect on cathodic protection performance	
		<u>F. Cheng</u> , Canada Research Chair in Pipeline Engineering, Calgary, Alberta/CDN	
14:40	O-1263	Corrosion prediction models to assess well service life	
		<u>M. Joosten</u> , M. Achour, ConocoPhillips, Bartlesville, OK/USA	
15:00	O-1139	Electrochemical evaluation of flow accelerated preferential weld corrosion of X65 pipeline steel using jet impingement	
		<u>M.A. Adegbite</u> , M.J. Robinson, S.A. Impey, Cranfield University/UK	
15:20	O-1198	Elucidating sweet corrosion scale	
		<u>G. Joshi</u> , J. Lapinski, A.B. Cook, D.L. Engelberg, R. Lindsay, The University of Manchester/UK	
15:40		Coffee Break	
		Corrosion in Oil & Gas Production	Auditorium
Chairs		M. Achour / M. Bonis	
16:10	O-1458	Corrosion of carbon steels and 316 in corrosive waters	
		<u>R. Badrak</u> , Weatherford International, Houston, TX/USA; <u>S. Kolesov</u> , V. Chizhikov, Weatherford International, St. Petersburg/RUS	
16:30	O-1675	The role of CO₂ on carbon steel corrosion at different CO₂ pressure levels	
		<u>M. Merlin</u> , R. Moreira, A. Rocha, <u>O. Mattos</u> , Federal University, Rio de Janeiro/BR	
19:00		Conference Dinner	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

		Workshop F: Radiation and Corrosion in Nuclear Power Plants	Room C7
Chairs		T. Couvant	
9:30	O-1494	Effect of water radiolysis on surface oxide film formed on SUS316L in gamma-ray irradiated high temperature water	
		<u>M. Yamamoto</u> , C. Kato, T. Satoh, Y. Nakahara, T. Tsukada, Japan Atomic Energy Agency, Tokai-Mura/J; A. Watanabe, Hitachi Ltd., Hitachi City/J; M. Fuse, Hitachi-GE Nuclear Energy Ltd., Hitachi City/J	
9:50	O-1255	A model for a spinel oxide film on an iron-chromium-nickel alloy	
		<u>M. Vankeerberghen</u> , SCK CEN, Mol/B	
10:10	O-1434	Oxide films formed on 316 stainless steel in high temperature water: Experimental approach and modelling	
		<u>A. Seyeux</u> , K. Leistner, Ecole Nationale Supérieure de Chimie de Paris/F; T. Couvant, EDF R&D Materials and Mechanics of Components Department, Moret sur Loing/F; P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F	
10:30	O-1486	Irradiation accelerated corrosion of 316L stainless steel in 320°C primary water	
		<u>G. Was</u> , S. Raiman, Z. Jiao, P. Wang, University of Michigan, Ann Arbor, MI/USA	
10:50	O-8526	Impedancemetry characterization for 316L/H₂O(PWR) interfaces under proton irradiation	
		<u>C. Corbel</u> , Laboratoire des Solides Irradiés ζ Ecole Polytechnique, Palaiseau/F; M. Wang, Ecole Polytechnique and Laboratoire d ζ Etudes de Corrosion Aqueuse, CEA/DEN/DPC/SCCME, Saclay/F; P. Perrin, Laboratoire d ζ Etudes de Corrosion Aqueuse, CEA/DEN/DPC/SCCME, Saclay/F; D. Simon, Conditions Extrêmes et Matériaux: Haute Température et Irradiation, UPR3079, CNRS, Orleans/F; D. Feron, Laboratoire d ζ Etudes de Corrosion Aqueuse, CEA/DEN/DPC/SCCME, Saclay/F	
11:10		Coffee Break	

		Workshop F: Radiation and Corrosion in Nuclear Power Plants	Room C7
Chairs		T. Couvant	
11:30	O-1150	Corrosion of proton irradiated stainless steel in simulated primary coolant - EIS investigation and quantitative modelling	
		I.G. Betova, <u>M.S. Bojinov</u> , BGH2 Society, Sofia/BG; P.E. Kinnunen, T.J. Saario, VTT Materials and Building, Espoo/FIN	
11:50	O-1813	Multiscale modeling of the growth of passive layer on stainless steels: Kinetic Monte Carlo simulation based on quantum mechanics and force	
		<u>B. Diawara</u> , Ecole Nationale Supérieure de Chimie de ParisTech/F	
12:10	O-1341	How to model IASCC at macroscopic level, including information from lower scales: Statistical approach	
		D.R. Tice, <u>K.J. Mottershead</u> , A. Kyrieleis, AMEC, Warrington/UK	
12:30	O-8536	Why not re-visit re-passivation?	
		<u>M. Vankeerberghen</u> , SCK-CEN, Mol/B	
12:50		Lunchtime	
		Corrosion of Archaeological and Historical Artefacts	Room C7
Chairs		P. Dillman	
14:00	O-1254	Study at microscopic scale of transport phenomena in rust layers on cultural heritage iron artefacts submitted to atmospheric corrosion	
		<u>M. Bouchar</u> , E. Foy, D. Neff, P. Dillmann, CEA Saclay, Gif-sur-Yvette/F	
14:20	O-1345	An EIS based approach to estimate the influence of micro and nanoporosities on the corrosion behavior of iron artefacts	
		<u>S. Grassini</u> , M. Parvis, E. Angelini, Politecnico di Torino/I; M. Bouchar, P. Dillmann, D. Neff, CEA, Saclay/F	
14:40	O-1659	The influence of slag inclusions on corrosion of wrought iron	
		<u>E. Nordgren</u> , D. Watkinson, Cardiff University/UK	
15:00	O-1539	Forecasting copper corrosion processes	
		<u>B. De Filippo</u> , D. Ferro, R. Natalini, Consiglio Nazionale delle Ricerche, Rome/I	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

15:20	O-1471	Degradation mechanisms study of historic monuments causing by the corrosion in chlorinated environments of reinforcement bars in binders	
		F. Kergourlay, J.-L. Gallias, University of Cergy-Pontoise/F; D. Neff, CEA Saclay/F; A. Noumowé, University of Cergy-Pontoise/F; Ph. Dillmann, CEA Saclay/F	
15:40		Coffee Break	
		Corrosion of Archaeological and Historical Artefacts	Room C7
Chairs		P. Dillman	
16:10	O-1469	Subcritical dechlorination of iron archaeological objects	
		M. Bayle, D. Neff, CEA Saclay, Gif-sur-Yvette/F; P. de Viviés, J.B. Memet, A-Corros Expertise, Arles/F	
16:30	O-1671	Archaeological iron: Relating post-excavation corrosion rate to object longevity	
		D. Watkinson, M. Rimmer, Cardiff University/UK	
16:50	O-1199	Comparative evaluation of XRF and SEM-EDX analyses for the non-destructive characterization of soil corroded copper-based alloy	
		P. Papandreopoulos, M. Kouli, D. Yfantis, National Technical University of Athens (NTUA)/GR	
17:10	O-1636	Dating archaeological metal using the voltammetry of microparticles methodology	
		A. Doménech, University of Valencia, Burjassot/E; M.T. Doménech, Polytechnical University of Valencia/E	
19:00		Conference Dinner	
		Cathodic Protection	Room D1-D2
Chairs		J. Crouzillac	
9:30	O-1174	Electrochemical formation and transformation of corrosion products on carbon steel under cathodic protection in seawater	
		M. Jeannin, Ph. Refait, R. Sabot, University of La Rochelle/F; H. Antony, Corrodys, Cherbourg/F; S. Pineau, Accoast SAS, Arradon/F	
9:50	O-1354	Modeling the cathodic protection performance of oil and gas pipeline in Nigeria: Case study of total exploration & production Nigeria limited	
		O. Adetunji, O. Obideyi, Federal University of Agriculture, Abeokuta/NGR	

10:10	O-1758	Comparison between MMO and high silicon iron anodes in cathodic protection systems of gas refineries	
		H. Aldaghi, D. Masouri, M. Najmi, Pars Oil & Gas Co., Assaluyeh/IR	
10:30	O-1154	Reducing of chlorine deleterious effects in cathodic protection deep well ground beds	
		J. Khosravi, NIORDC-NIOEC, Tehran/IR	
10:50	O-1301	Cathodic protection system for hot sulphur tank bottom	
		S. Debbache, TECHNIP, Courbevoie/F	
11:10		Coffee Break	
		Cathodic Protection	Room D1-D2
Chairs		J. Crouzillac	
11:30	O-1293	Interpretation of instantaneous true potential in AC induced corrosion	
		A. Pourbaix, P. Carpentiers, CEBELCOR, Brussels/B; B. Tribollet, Université P. et M. Curie, Paris/F; R. Nogueira, Université J. Fourier, Grenoble/F	
11:50	O-1327	Beneficial effects of electrolytic pastes and increased anode surface area on galvanic anodes instead of traditional backfill anodes in soil	
		R. Giorgini, CorrPRE Engineering BV, Waddinxveen/NL	
12:10	O-1488	Mitigation of alternating current interference on buried steel pipeline	
		J. Sibila, Corrstop Co. Ltd., Kamionki/PL	
12:30	O-1629	Influence of d.c. stray currents interferences on a.c. corrosion phenomenon	
		E. Fleury, M. Meyer, D. Caron, GDF SUEZ, Saint-Denis La Plaine/F; S. Fontaine, GRTgaz, Compiègne/F; J.-P. Hof, GrDF, Paris/F	
12:50		Lunchtime	
		Cathodic Protection	Room D1-D2
Chairs		J. Crouzillac	
14:00	O-1672	AC interference corrosion of carbon steel in cathodic protection condition: A two-steps mechanism	
		A. Brenna, L. Lazzari, M. Ormellese, Politecnico di Milano/I	
14:20	O-1094	Methodology for evaluation of a.c. corrosion risk using coupon d.c. and a.c. current densities	
		F. Kaiyama, Tokyo Gas Co. Ltd., Tokyo/J	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

14:40	O-1298	A case of telluric current affecting a buried pipeline and the adapted solution for CP monitoring and assessment	
		<u>E. Agel</u> , C. Le-Guen, TOTAL SA, Pau/F; Y. Furmanovski, R. Leruste, U. Kyaw-Thein-Tun, U. Nyo-Zan, TEPM, Yangon/MYA	
15:40		Coffee Break	
		Cathodic Protection in Concrete	Room D1-D2
Chairs		M. Raupach/J. Crouzillac	
16:10	O-1194	Hybrid corrosion protection of a prestressed concrete bridge in the UK	
		<u>C. Christodoulou</u> , AECOM Europe, Birmingham/UK; C. Goodier, S. Austin, Loughborough University/UK; G. Glass, University of Nottingham/UK; J. Webb, AECOM Europe, Birmingham/UK	
16:30	O-1375	Time dependent performance of conductive coatings used for cathodic protection of reinforced concrete structures	
		<u>C. Helm</u> , <u>M. Raupach</u> , RWTH-Aachen University/D	
16:50	O-1281	Cathodic protection of steel in concrete. Experiences on parking garages in Germany	
		<u>H. Esteves</u> , S. Mayer, Ed Züblin AG, Stuttgart/D	
19:30		Conference Dinner	
		Corrosion and Scale Inhibition	Room F7
Chairs		G. Schmitt /W. Hater	
9:30	KN-1136	Antiscalants - Is there a correlation between the efficiency against different kind of scales?	
		<u>W. Hater</u> , M. Urschey, A. Wehlmann, BK Giulini GmbH, Düsseldorf/D	
10:10	O-1426	Acid corrosion inhibitors: Protective film formation kinetics & characterisation of inhibitor adsorption on duplex 22Cr alloy	
		<u>J.F. Geddes</u> , E. Barmatov, T.L. Hughes, M. Nagl, Schlumberger Gould Research Limited, Cambridge/UK	
10:30	O-1754	Oxygen scavenging in mono ethylene glycol (MEG) and water mixtures	
		<u>M. Salasi</u> , S. Bailey, R. Gubner, H. Ehsani, Curtin University, Bentley, WA/AUS; J. Maier, Wood Group Integrity Management, Perth, WA/AUS	
10:50	O-1399	Determining corrosion inhibitor binding in acidic media	
		<u>R. Lindsay</u> , P. Morales-Gil, M.S. Walczak, R.A. Cottis, University of Manchester/UK	

11:10		Coffee Break	
		Corrosion and Scale Inhibition	Room F7
Chairs		G. Schmitt /W. Hater	
11:30	O-1313	Combined NEXAFS and XPS studies of a corrosion inhibitor: Oleic acid adsorbed on mild steel surfaces	
		<u>L.N. Nchari</u> , University of Manchester/UK; <u>J.L.B. Aguilar</u> , Instituto Mexicano del Petróleo, Mexico City/MEX; <u>M. Walczak</u> , University of Manchester/UK; <u>A.C. Tobon</u> , <u>A.P. Diaz</u> , Instituto Mexicano del Petróleo, Mexico City/MEX; <u>R. Lindsay</u> , <u>S.L.M. Schroeder</u> , University of Manchester/UK	
11:50	O-1148	Improvement of corrosion resistance of carbon steel in hydrochloric acid solutions by 3,5-bis(2-thienylmethyl)-4-amino-1,2,4-triazole	
		<u>M. Traisnel</u> , C. Jama, M. Lagrenée, ENSCL, Villeneuve d'Ascq/F; F. Bentiss, Université Chouaib Doukkali, El Jadida/MA	
12:10	O-1151	Study of steel corrosion inhibition in media containing H₂S and CO₂ by impedance spectroscopy and polarization resistance method	
		<u>L.E. Tsygankova</u> , M.N. Esina, Derzhavin State University, Tambov/RUS; <u>V.I. Vigdorovich</u> , N.V. Shel, Tambov State Technical University/RUS	
12:30	O-1099	Mixed strontium pyrophosphates: Synthesis, characterisation and performance as corrosion inhibitors	
		<u>N. Gorodylova</u> , Z. Dohnalová, P. Sulcová, University of Pardubice/CZ	
12:50		Lunchtime	
		Corrosion and Scale Inhibition	Room F7
Chairs		G. Schmitt /W. Hater	
14:00	O-1237	Manganese increases the performance of sodium sulfate as inhibitor of pitting corrosion in austenitic stainless steels	
		<u>J.W. Calderón-Hernández</u> , D. Hincapié-Ladino, L. Ramos dos Santos, São Paulo University/BR; R. Magnabosco, FEI-University, São Paulo/BR; N. Alonso-Falleiros, São Paulo University/BR	
14:20	O-1061	Corrosion inhibition of pipeline steel in CO₂-saturated solutions by some derivatives of imidazoline	
		<u>A.I. Obike</u> , P.C. Okafor, U.J. Ekpe, University of Calabar/NGR; X. Jiang, D. Qu, SINOPEC Research Institute of Safety Engineering, Qingdao/CHN	
19:00		Conference Dinner	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

		Corrosion of Polymer Materials	Room F4-F6
Chairs		J. Heinemann	
9:30	O-1064	Compatibility of sealing materials with biodiesel, bioethanol-gasoline and biodiesel-heating oil blends	
		<u>M. Weltschey</u> , J. Werner, M. Haufe, M. Heyer, Federal Institute for Materials Research and Testing (BAM), Berlin/D	
9:50	O-1802	Influence of residual stresses on lifetime prediction for plastic pipes	
		<u>J. Heinemann</u> , H. Haupt, A. Bockenheimer, M. Oechsner, Technische Universität Darmstadt/D; T. Schuster, R. Brüll, Fraunhofer-Institut für Betriebsfestigkeit und Systemzuverlässigkeit LBF, Darmstadt/D	
10:10	O-1803	Tools for polymer characterization and failure analysis	
		<u>T. Schuster</u> , S. Damodaran, K. Rode, R. Brüll, Fraunhofer LBF, Darmstadt/D; J. Heinemann, H. Haupt, Technische Universität Darmstadt/D	
11:10		Coffee Break	
		Corrosion & Corrosion Protection of Drinking Water Systems	Room F4-F6
Chairs		W.J. Erning	
11:30	O-1042	Limiting conditions for localised corrosion of stainless steel EN 1.4404 (316L) in terms of temperature, potential and chloride concentration	
		<u>S. Hägg Mameng</u> , R. Pettersson, Outokumpu Stainless AB, Avesta/S	
11:50	O-1256	Evaluation of the fast EC Pen method to investigate surfaces of stainless steel components by comparison with classical methods	
		<u>U. Ruhrberg</u> , A. Becker, IWW Water Centre, Mülheim an der Ruhr/D	
12:10	O-1048	Crevice corrosion of ferritic stainless steel pipes in drinking water installations in high conductivity waters	
		<u>F. Fontenay</u> , L. Hilbert, A. Andersen, FORCE Technology, Brøndby/DK	
12:30	O-1528	Analyses of brass heavy metal migration in warm drinking water systems	
		<u>I. Markwardt</u> , Institut für Korrosionsschutz Dresden GmbH/D	

12:50		Lunchtime	
		Corrosion & Corrosion Protection of Drinking Water Systems	Room F4-F6
Chairs		W.J. Erning	
14:00	O-1620	Evaluation of test methods to assess lead release from brass to drinking water	
		<u>L. Johansson</u> , O. Rod, Swerea KIMAB, Kista/S	
14:20	O-1137	The electrochemical behaviour of new magnesium anodes	
		<u>J. Kuepper-Feser</u> , Institut for Maintenance and Corrosion Protection, Iserlohn/D; R. Feser, South-Westfalia University of Applied Science, Iserlohn/D; W. Bytyn, G. Franke, Magontec GmbH, Bottrop/D	
14:40	O-1082	Effect of the metal cations in model tap water on corrosion behaviour and passive film structure of Al	
		<u>M. Sakairi</u> , K. Otani, R. Sasaki, Hokkaido University, Sapporo/J; A. Kaneko, Y. Seki, D. Nagasawa, Nippon Light Metal Co. Ltd., Shizuoka/J	
15:40		Coffee Break	
		Polymer and Composite Materials in Refinery, Petrochemical and Chemical Industries	Room F4-F6
Chairs		F. Ropital / J. Heinemann	
16:10	O-1184	Composite lined carbon steel tubular for downhole production applications	
		<u>A. Asiri</u> , M.D. Parvez, Q. Sharif, S. Al-Turki, Saudi Aramco, Dhahran/SAR; G. Radhakrishnan, Maxtube Limited, Dubai/UAE	
16:30	O-1249	Application of polyolefin pipe materials in refinery, petrochemical and chemical applications - Alternative for complex corrosion issues	
		<u>G. De Landtsheer</u> , Borealis N.V., Kollo-Kieldrecht/B	
16:50	O-1378	Fluoropolymer coatings in harsh environments	
		H. Brouzes, <u>S. Helmersen</u> , Acccoat A/S, Kvistgaard/DK	
17:10	O-1814	Effect of lipophilic media on the stability of Polyamide analysed by Imaging Techniques	
		<u>T. Schuster</u> , S. Damodaran, R. Brüll, H. Oehler, J. Decker, B. Richstein, Fraunhofer LBF, Darmstadt/D	
17:30	O-1640	Corrosion performance of passive fire protection applied on hydrocarbon processing installations	
		<u>R. Wade</u> , International Paint, Gateshead/UK	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

19:00		Conference Dinner	
		Microbial Corrosion	Room C4-C6
Chairs		P. Christiani	
9:30	O-1052	Bioclogging and corrosion risk at a natural gas production plant	
		<u>Y. Tanji</u> , C-P. Lim, K. Miyanaga, Tokyo Institute of Technology, Yokohama/J	
9:50	O-1664	Evidences of microbial influenced corrosion of metallic materials in microbial fuel cell applications	
		E. Guerrini, Università degli Studi di Milano/I; P. Cristiani, RSE, Milan/I; S.P.M. Trasatti, Università degli Studi di Milano/I; <u>M. Grattieri</u> , Politecnico di Milano/I	
10:10	O-9057	A Perspective on the Stability of Fuels and Biocorrosion in the Energy Infrastructure	
		<u>J. M. Sufliata</u> , University of Oklahoma/USA	
11:10		Coffee Break	
		Marine Corrosion	Room C4-C6
Chairs		U. Kivisakk	
11:30	O-1320	Corrosion potential and cathodic efficiency of stainless steel in natural seawater	
		<u>D. Thierry</u> , N. Larche, French Corrosion Institute, Brest/F	
11:50	O-1704	Biofilm-influenced marine corrosion of 70/30 Cu-Ni alloy	
		<u>I. Beech</u> , M. Perez-Ibarra, University of Oklahoma, Norman, OK/USA; L. Cieslak, University of Sheffield/UK; M. Kowalski, K. Duncan, J. Sunner, University of Oklahoma, Norman, OK/USA; Z. Makama, University of Portsmouth/UK	
12:10	O-1171	Evolution with time of the "rust-biomass composite layer" during the first stages of marine corrosion of carbon steel	
		M. Langumier, R. Sabot, I. Lanneluc, M. Jeannin, S. Sablé, <u>Ph. Refait</u> , University of La Rochelle/F	
12:30	O-1643	Effect of additives on coating performance in marine environment	
		<u>X. Zhang</u> , G. Ferrari, TNO, Den Helder/NL; J. Bech, DTI, Arhus C/DK	

12:50		Lunchtime	
		Marine Corrosion	Room C4-C6
Chairs		U. Kivisakk	
14:00	O-1268	Performance of marine and offshore paint systems: Correlation of accelerated corrosion tests and field exposure on operating ships	
		<u>N. LeBozec</u> , D. Thierry, French Corrosion Institute, Brest/F; P. Le Calvé, C. Favennec, DCNS, Lorient/F; J.P. Pautasso, C. Hubert, DGA, Bagneux/F	
14:20	O-8540	Elastomeric Polyurethane for Field Joint Coating of Offshore Concrete Coated Pipelines	
		<u>B.R.M. Marques da Cunha</u> , G.E. Haverroth, F.B. Azevedo, M.N.D. Castro	
14:40	O-1024	Effect of nitrogen content on stress corrosion cracking of austenitic stainless steels in seawater	
		<u>A. Almubarak</u> , College of Technological Studies, Alsalmiah/KWT; W. Abuhaimeed, College of Technological Studies, Shuwaik/KWT	
15:00	O-1075	Protection performance of coating systems under low-temperature offshore conditions	
		<u>A. Momber</u> , Muehlhan AG, Hamburg/D; M. Irmer, N. Glück, Fraunhofer AGP, Rostock/D	
15:20	O-1126	Failure behavior of epoxy coating under hydrostatic pressure	
		<u>L. Liu</u> , Y. Li, F.H. Wang, Chinese Academy of Sciences, Shenyang/CHN	
15:40		Coffee Break	
		Extremes of marine conditions-deep waters and arctic	Room C4-C6
Chairs		U. Kivisakk	
16:10	O-1504	Stress corrosion cracking of X70 steel in deep sea environments	
		<u>F. Sun</u> , X. Cheng, Z. Liu, X. Li, University of Science and Technology Beijing/CHN	
16:30	O-1314	Anticorrosion composite coatings at the surface of the various metals and alloys	
		<u>S. Gnedenkov</u> , S. Sinebryukhov, Institute of Chemistry of RAS, Vladivostok/RUS	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

16:50	O-1093	Localized corrosion of stainless steel 316L piping in marine application	
		<u>D. Masouri</u> , H.R. Ghafari, M. Mousavi, B. Chahooshizadeh, M. Hosseinieh, Pars Oil & Gas Co. (POGC), Tehran/IR	
19:00		Conference Dinner	
		Automotive Corrosion	Room C1-C3
Chairs		F. Hannour	
9:30	KN-8541	Newly developed accelerated corrosion test and hydrogen absorption measurements system for steel sheet panels in automobiles	
		<u>S. Fujita</u>	
10:10	O-1214	Corrosion of press-hardened galvanized steel sheet	
		R. Autengruber, <u>G. Luckeneder</u> , K.H. Stellnberger, voestalpine Stahl GmbH, Linz/A	
10:30	O-1219	Influence of different environmental conditions on the susceptibility against hydrogen re-embrittlement of high strength steel	
		C. Krauß, <u>G. Andersohn</u> , M. Oechsner, TU Darmstadt/D	
10:50	O-1505	Corrosion life analysis of Zn alloy coated steel sheet	
		<u>T. Hirobe</u> , Y. Saijo, M. Murota, M. Ueki, Honda R&D Co., Ltd. Automobile R&D Center, Tochigi/J	
11:10		Coffee Break	
		Automotive Corrosion	Room C1-C3
Chairs		F. Hannour	
11:30	O-1335	Corrosion behaviour of novel ZnCr electrogalvanized steel sheet for car body application	
		<u>F. Lengwin</u> , CEST Kompetenzzentrum GmbH, Linz/A; <u>G. Luckeneder</u> , K.H. Stellnberger, voestalpine Stahl GmbH, Linz/A; H. Kronberger, T. Boijadjeva-Scherzer, CEST Kompetenzzentrum GmbH, Wiener Neustadt/A	
11:50	O-1544	Combined in-situ electrochemical ICP-OES and corrosion studies of heat treated zinc alloy coated steel	
		B. Schinking, BMW AG, München/D; <u>M. Wiesener</u> , G. Grundmeier, University Paderborn/D	
12:10	O-8544	New ZnAlMg coated steel for automotive industry: what is its potential in case of mechanical or body-in-white application?	
		<u>Loïc Vaissiere</u> , Valérie Orain	

12:30	O-1123	Implementation of room temperature/non-chrome cleaner at Daimler trucks North America	
		<u>E. Morris</u> , Deft Inc., Irvine, CA/USA	
12:50		Lunchtime	
		Automotive Corrosion	Room C1-C3
Chairs		F. Hannour	
14:00	O-1381	Deposition mechanism of Zr-based conversion coatings on multi-metal pre-treated surfaces	
		<u>J. Cerezo</u> , Delft University of Technology/NL; I. Vandendael, Vrije Universiteit Brussels/B; P. Taheri, Delft University of Technology/NL; R. Posner, K. Lill, Henkel AG & Co. KGaA, Düsseldorf/D; J.H.W. de Wit, J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Vrije Universiteit Brussels/B	
14:20	O-1132	Chemical composition of real condensate in automotive exhaust systems	
		<u>R. Hashimoto</u> , G. Mori, Montanuniversität Leoben/A; M. Yasir, U. Tröger, H. Wieser, Faurecia Emission Control Technologies, Augsburg/D	
14:40	O-1220	Corrosion behaviour of an aluminium alloy in coolants for combustion engines under stable and unstable flow boiling conditions	
		<u>T. Duchardt</u> , G. Andersohn, M. Oechsner, TU Darmstadt/D	
15:00	O-1420	Applicability of pre-corrosion for the qualification process of corrosion fatigue loaded aluminium alloys for chassis components	
		<u>K. Bauer-Troßmann</u> , TU Darmstadt/D; H. Kaufmann, Fraunhofer Institute for Structural Durability and System Reliability LBF, Darmstadt/D; L. Yu, TU Darmstadt/D	
15:20	O-1382	Effects of extrinsic cupric on pitting corrosion of aluminium radiator	
		<u>W.J. Li</u> , C.C. Liu, T.P. Cheng, Industrial Technology Research Institute, Hsinchu/TW	
15:40		Coffee Break	
		Automotive Corrosion	Room C1-C3
Chairs		F. Hannour	
16:10	O-1791	Influence of condensate species on automotive exhaust corrosion	
		<u>U. Tröger</u> , M. Yasir, H. Wieser, Faurecia Emissions Control Technologies GmbH, Augsburg/D; A.C. Ucar, F. Haider, University of Augsburg/D	

Wednesday, 4 September 2013

Wednesday, 4 September 2013

16:30	O-1517	Corrosion and electrochemical analysis of aluminium brazing sheet in relation to microstructural features by complementary techniques	
		F. Norouzi Afshar, J.H.W. de Wit, H. Terryn, Materials Innovation Institute M2i, Delft and TU Delft/NL; J.M.C. Mol, TU Delft/NL	
16:50	O-1453	Role of the electrolyte composition for ZnMgAl corrosion mechanisms	
		M. Salgueiro Azevedo, P. Volovitch, Ecole Nationale Supérieure de Chimie de Paris/F; C. Allély, ArcelorMittal Maizières Research, Maizières-lès-Metz/F; K. Ogle, Ecole Nationale Supérieure de Chimie de Paris/F	
19:00		Conference Dinner	
		Workshop E: Corrosion of Advanced Composite Materials and Hybrid Components	Room F1-F3
Chairs		G. Grundmeier / A. Simões	
9:30	O-1338	Durability of adhesively bonded surfaces finished galvanised steels in corrosive environments	
		C. Gnoth, R. Grothe, D. Klein, C.-N. Liu, K. Pohl, G. Grundmeier, University of Paderborn/D	
9:50	O-1511	Simulation based design of Mg/Al hybrid components regarding corrosion protection	
		D. Höche, Helmholtz-Zentrum Geesthacht/D	
10:10	O-1684	Inhibition of galvanic corrosion in CFRP and metal combinations	
		S. Kallip, A.C. Bastos, S.U. Ofoegbu, M.L. Zheludkevich, M.G.S. Ferreira, University of Aveiro/P	
10:30	O-1781	On the properties of adhesively bonded galvanized steel	
		A. Simoes, A.S. Panão, Technical University of Lisbon/P	
10:50	O-1606	The effect of cerium acetate on the multi-material corrosion of aluminium-copper-carbon fibre reinforced plastic	
		S.U. Ofoegbu, M.L. Zheludkevich, S. Kallip, M.G.S. Ferreira, Universidade de Aveiro/P	
11:10		Coffee Break	
		Workshop C: Corrosion in Aerospace	Room F1-F3
Chairs		T. Hack	
14:00	O-8531	New aluminium Alloys for weight reduction and corrosion resistance of aircraft structures	
		C. Hénon, Constellium CRV, Voreppe/F	

14:20	O-1248	Corrosion of advanced Al-Li alloys for aerospace applications	
		D. Carick, S. Hogg, G. Wilcox, Loughborough University/UK	
14:40	O-1574	Corrosion testing of aerospace components by electrochemical noise analysis	
		M. Curioni, A. Balaskas, S. Emad, E. Rahimi, G.E. Thompson, University of Manchester/UK	
15:00	O-1546	Modeling localized aluminium alloy corrosion in chloride solutions: Steps toward understanding pitting initiation	
		L. Abodi, Vrije Universiteit Brussel/B; J.A. DeRose, Swiss Federal Institute for Materials Testing and Research, Dubendorf/CH; S. Van Damme, Vrije Universiteit Brussel/B; A. Demeter, Technical University of Cluj-Napoca/RO; T. Suter, Swiss Federal Institute for Materials Testing and Research, Dubendorf/CH; J. Deconinck, Vrije Universiteit Brussel/B	
15:20	O-1654	A study of mixed inhibitors for corrosion protection of AA 2024-T3	
		A.C. Balaskas, M. Curioni, G.E. Thompson, The University of Manchester/UK; G. Kordas, NCSR "DEMOKRITOS", Aghia Paraskevi Attikis/GR	
15:40		Coffee Break	
		Workshop C: Corrosion in Aerospace	Room F1-F3
Chairs		T. Hack	
16:10	O-1122	Deposition morphology and performance characteristics of rare earth pretreatments	
		E. Morris, Deft Inc., Irvine, CA/USA	
16:30	O-8532	Relating site statistics with corrosion attack and inhibition	
		A.E. Hughes, CSIRO Materials Science and Engineering, Clayton/AUS; R. Catubig, CSIRO Materials Science and Engineering, Clayton and Deakin University, Burwood/AUS; I.S. Cole, CSIRO Materials Science and Engineering, Clayton/AUS; M. Forsyth, B.R.W. Hinton, Deakin University, Burwood/AUS	
19:00		Conference Dinner	

Thursday, 5 September 2013

Thursday, 5 September 2013

		Invited Plenary Lecture	Auditorium
9:00	PL-8549	Challenges and recent development in aluminium corrosion resistant alloys for transport applications	
		A. Afseth, C. Henon, L. Peguet, T. Warner, Constellium Research Center CRV, Voreppe/F	
		Coatings: Metallic Coatings	Room E
Chairs		Fedrizzi / Feser	
10:00	O-1523	Corrosion protection for wind power plants by thermal spraying - Corrosion behaviour of different produced thermally sprayed ZnAl-coatings	
		T. Maghet, GSI mbH, Duisburg/D; R. Feser, K. Klahold, University of Applied Sciences South Westfalia, Iserlohn/D; J. Maehlein, GSI mbH, Duisburg/D	
10:20	O-1195	The influence of sulphate, nitrate, phosphate and acetate on the corrosion of ZnAlMg hot-dip galvanized steel	
		T.A. Keppert, University of Leoben/A; G. Luckeneder, K.-H. Stellnberger, voestalpine Stahl GmbH, Linz/A; G. Mori, University of Leoben/A	
10:40	O-1388	Galvanic zinc deposition from ionic liquids for industrial applications	
		C. Zanella, M. Weiss, F. Deflorian, Università di Trento/I	
11:00	O-1501	Optimization of electrocodeposition of Al-Zn layer from $AlCl_3$-$ZnCl_2$-1-ethyl-3-methylimidazolium chloride ionic liquid	
		Y. Sato, K. Azumi, Hokkaido University, Sapporo/J	
11:20		Coffee Break	
		Coatings: Metallic Coatings	Room E
Chairs		Fedrizzi / Feser	
11:50	O-1576	Corrosion resistance of Ni-Co electrodeposits obtained using plating baths with different composition	
		M. Lekka, A. Lanzutti, R. Offoiach, L. Fedrizzi, University of Udine/I	

12:10	O-1342	Relationship between microstructure and corrosion properties in electrodeposited nickel and nickel alloy coatings	
		N. Shakibi Nia, A. Godon, J. Creus, X. Feaugas, C. Savall, Université de La Rochelle/F	
12:30	O-1625	Mechanical, tribological and corrosion performance of electrodeposited Ni/IF-WS_2 nanocomposite coatings	
		E. García-Lecina, I. García-Urrutia, J.A. Díez, Fundación CIDETEC, San Sebastián/E; J. Fornell, E. Pellicer, J. Sort, Universitat Autònoma de Barcelona/E	
12:50	O-1242	The protective effect of Mg in TiMgN hard coatings on steel	
		T. Müller, A. Heyn, BAM Federal Institute of Materials Research and Testing, Berlin/D; M. Fenker, M. Balzer, fem Research Institute, Schwäbisch Gmünd/D	
13:20		Closing Remarks	
		Corrosion Mechanisms & Methods	Room B
Chairs		D. Thierry / M. Olivier	
10:00	O-1307	Analysis of impedance data of copper alloys at the corrosion potential in seawater environments	
		B. Tribollet, B.E. Torres Bautista, CNRS, Paris/F; M.L. Carvalho, RSE S.p.A., Milano/I; I. Frateur, CNRS, Paris/F	
10:20	O-1580	Corrosion prediction in FAC through local wall shear stress	
		K. Suga, Tokyo University of Science, Noda/J; K. Minagawa, Tomoe Corporation, Chuo/J; R. Arimura, Y. Ishikawa, M. Kikuchi, Tokyo University of Science, Noda/J	
10:40	O-1095	Bromide ions-degradation of anodic oxide film on titanium observed by ellipso-microscopy	
		K. Fushimi, K. Kurauchi, T. Nakanishi, Y. Hasegawa, T. Ohtsuka, Hokkaido University, Sapporo/J	
11:00	O-1468	Effect of surface topology on the anodization of titanium	
		M. Fan, A. Battistel, F. La Mantia, Ruhr-Universität Bochum/D	
11:20		Coffee Break	

Thursday, 5 September 2013

Thursday, 5 September 2013

		Corrosion Mechanisms & Methods	Room B
Chairs		D. Thierry / M. Olivier	
11:50	O-1278	Pickling and over-pickling mechanisms of silicon high alloyed steel grades	
		<u>A. Alaoui Mouayd</u> , E. Sutter, B. Tribollet, Université Pierre et Marie Curie (UPMC), Paris/F; <u>A. Koltsov</u> , ArcelorMittal Maizières Research/F	
12:10	O-1578	Corrosion inhibition with molybdate anions: Testing the pore-plugging mechanism	
		<u>C. Ruiz-Camargo</u> , <u>M.S. Walczak</u> , J. Treacy, R. Lindsay, The University of Manchester/UK; <u>J.F.W. Mosselmans</u> , K. Ignatyev, Diamond Light Source, Didcot/UK	
12:30	O-1531	Study of the effect of crystallographic orientation on the electrochemical behaviour of pure copper	
		<u>E. Martinez Lombardia</u> , Vrije Universiteit Brussel/B; <u>L. Lapeire</u> , Ghent University/B; <u>I. De Graeve</u> , Vrije Universiteit Brussel/B; <u>V. Maurice</u> , <u>L. Klein</u> , <u>P. Marcus</u> , CNRS, Paris/F; <u>K. Verbeken</u> , <u>L. Kestens</u> , Ghent University/B; <u>H. Terryn</u> , Vrije Universiteit Brussel/B	
12:50	O-1800	The challenges of using potentiometric microelectrodes in corrosion research	
		<u>A. Bastos</u> , Universidade de Aveiro/P; <u>S.V. Lamaka</u> , Instituto Superior Técnico, Lisboa/P; <u>O.V. Karavai</u> , Universidade de Aveiro/P; <u>M. Taryba</u> , Instituto Superior Técnico, Lisboa/P; <u>M.L. Zheludkevich</u> , Universidade de Aveiro/P; <u>V.V. Egorov</u> , Belarusian State University, Minsk/BY; <u>M.G.S. Ferreira</u> , Universidade de Aveiro/PR	
13:20		Closing Remarks	
		Corrosion in Oil & Gas Production	Auditorium
Chairs		M. Achour / M. Bonis	
10:00	O-1604	Asset integrity and requalification procedures of pipelines for hydrocarbon transportation	
		<u>T. Cheldi</u> , <u>P. Cavassi</u> , ENI E&P, San Donato Milanese/I; <u>V. Colombo</u> , <u>V. Santonicola</u> , <u>B. Bazzoni</u> , Cescor srl, Milan/I	
10:20	O-1183	Can Pitting on Stainless Steel in the Presence of Neat Chemical Products be Monitored by Electrochemical Impedance Spectroscopy?	
		<u>J.J. Molony</u> , <u>Y.M. De-Abreu</u> , Nalco Energy Services, Sugar Land, TX/USA	

10:40	O-1683	Efficiency of two gas and gas condensate inhibitors in a laboratory two phase flow	
		<u>A. Prethaler</u> , T. Vogl, G. Mori, CD Laboratory of Localized Corrosion, Leoben/A; <u>W. Havlik</u> , G. Zehethofer, S. Hönig, OMV Exploration Production GmbH, Gänserndorf/A; <u>E. Rosenberg</u> , Technical University of Vienna/A	
11:00	O-1383	Efficiency of film-forming corrosion inhibitors in strong hydrochloric acid under laminar and turbulent flow conditions	
		<u>E. Barmatov</u> , T. Hughes, M. Nagl, Schlumberger Gould Research, Cambridge/UK	
11:20		Coffee Break	
		Corrosion in Oil & Gas Production	Auditorium
Chairs		M. Achour / M. Bonis	
11:50	O-1189	Successful trial of under installation liquid accumulation detector (H2Obovius)	
		<u>M. Al-Ridy</u> , Saudi Aramco Oil Company, Ras Tanura/SAR	
12:10	O-1147	Can a corrosion monitoring system with tomography provide minimum wall thickness readings?	
		<u>G. Instanes</u> , ClampOn, Bergen/N	
13:20		Closing Remarks	
		Corrosion of Archaeological and Historical Artefacts	Room C7
Chairs		P. Dillman	
10:00	O-1286	Corrosion behaviour of bronze protected by organosilane coatings: Influence of alloying elements and phase composition	
		<u>A. Balbo</u> , <u>M. Abbottoni</u> , University of Ferrara/I; <u>C. Chiavari</u> , <u>C. Martini</u> , University of Bologna/I; <u>C. Monticelli</u> , University of Ferrara/I	
10:20	O-1287	Organosilane coatings applied on bronze: Natural exposure and exposure to temperature/UV cycles	
		<u>C. Chiavari</u> , <u>E. Bernardi</u> , <u>B. Lenza</u> , <u>C. Martini</u> , <u>I. Vassura</u> , <u>A. Motori</u> , University of Bologna/I; <u>A. Balbo</u> , <u>C. Monticelli</u> , University of Ferrara/I	
10:40	O-1537	Unexpected limited corrosion of antique bronze mirrors	
		<u>E. Angelini</u> , <u>S. Grassini</u> , <u>B. De Benedetti</u> , <u>M. Parvis</u> , Politecnico di Torino/I; <u>G.M. Ingo</u> , <u>C. Riccucci</u> , CNR-Istituto per lo Studio dei Materiali Nanostrutturati, Roma/I	
11:00	O-1366	The impact of lead's superficial state on its corrosion in various papers wrappings	
		<u>M. Kouril</u> , <u>K. Tomsova</u> , <u>S. Msallamova</u> , <u>L. Miskova</u> , ICT Prague/CZ	

Thursday, 5 September 2013

Thursday, 5 September 2013

11:20		Coffee Break	
13:20		Closing Remarks	
		Workshop A: Corrosion Protection Strategies In Renewable Energy Systems	Room D1-D2
Chairs		L. Hilbert / P. Dent	
10:00	O-1542	Mud zone corrosion in offshore renewable energy structures	
		L.R. Hilbert, T. Mathiesen, A.R. Black, C. Christensen, FORCE Technology, Broendby/DK	
10:20	O-1238	High performance alloys to mitigate corrosion in energy industry - A contribution for a clean environment	
		H. Alves, Outokumpu VDM GmbH, Werdohl/D	
10:40	O-1657	Durability of absorber surfaces in solar thermal collectors	
		S. Gomes da Silva Mendo, M. João Carvalho, T. Cunha Diamatino, Laboratório Nacional de Energia e Geologia, Lisboa/P	
11:00	O-1076	Protection systems for offshore wind power constructions	
		A. Momber, Muehlhan AG, Hamburg/D	
11:20		Coffee Break	
		Workshop A: Corrosion Protection Strategies In Renewable Energy Systems	Room D1-D2
Chairs		L. Hilbert / P. Dent	
11:50	O-1044	Thermal sprayed active metallic coatings for a blue sky	
		F. van Rodijnen, Sulzer Metco Europe GmbH, Kelsterbach/D	
12:10	O-1656	Corrosion behaviour of carbon and stainless steels in biodiesel, B5 blend and S500 diesel under storage conditions	
		E. Cavalcanti, Instituto Nacional de Tecnologia, Rio de Janeiro/BR; H.G.J. Pacheco, Universidad Catolica San Plabo, Arequipa/PE	
12:30	O-1652	Nono-crystalline electrodeposited oxygen evolution anodes for green hydrogen production	
		N. Abdel Ghany, National Research Centre, Cairo/ET	
13:20		Closing Remarks	

		Tribocorrosion	Room F7
Chairs		L. Rocha	
10:00	O-1321	Microstructure impact on the tribo-electrochemical behavior of ferritic and ferrite-martensite stainless steels under applied potentials	
		V. Dalbert, N. Mary, C. Verdu, Université de Lyon, Villeurbanne/F; H.N. Evin, APERAM Research Center, Isbergues/F; B. Normand, Université de Lyon, Villeurbanne/F	
10:20	O-1346	Corrosion and tribocorrosion behaviour of Si₃N₄/35TiN ceramic composite in solutions simulating biological fluids	
		C. Monticelli, V. Grassi, University of Ferrara/I; A. Bellosi, CNR-ISTEC, Faenza (RA)/I; S. Grassini, Politecnico of Torino/I; A. Balbo, University of Ferrara/I	
10:40	O-1525	Interest of orthophosphates for tribocorrosion inhibition of copper	
		N. Mary, V. Dalbert, C. Boissy, N. Normand, INSA de Lyon, Villeurbanne/F	
11:00	O-1565	Influence of fluoride concentration in corrosion and tribocorrosion behaviour of Ti13Nb13Zr alloy in artificial saliva	
		I. Golvano, University of Mondragon/E; I. Garcia, A. Conde, CENIM-CSIC, Madrid/E; W. Tato, G. Arruebarrena, A. Aginagalde, University of Mondragon/E	
11:20		Coffee Break	
		Tribocorrosion	Room F7
Chairs		L. Rocha	
11:50	O-1759	Tribocorrosion of high chromium cast irons: A review of laboratory research and industry experience	
		M. Salasi, G.B. Stachowiak, Curtin University, Bentley, WA/AUS; G.W. Stachowiak, University of Western Australia, Crawley/AUS; R. Gubner, Curtin University, Bentley, WA/AUS	
13:20		Closing Remarks	

Thursday, 5 September 2013

Thursday, 5 September 2013

		Automotive Corrosion	C1-C3
Chairs		L. Vaissiere	
10:00	KN-8546	Technical review and challenging aspects of the steel base fuel tank	
		<u>Y. Song</u> , J. Lee, S. Cho, POSCO R&D Center Production Application Center, Songdo-dong 180-1, Incheon, 406-840, KOREA	
10:40	O-8543	New accelerated cyclic corrosion test at Renault for better adequacy with the field conditions	
		<u>G. Despert</u> , L. Vaissiere	
11:00	O-1557	Assessment of corrosivity and climatic parameters in road environment	
		<u>B. Rendahl</u> , Swerea KIMAB, Kista/S	
11:20		Coffee Break	
		Automotive Corrosion (WP 17)	C1-C3
Chairs		L. Vaissiere	
11:50	O-1369	Monitoring technology for automobile corrosive environment	
		<u>Y. Saijo</u> , M. Ueki, H. Watanabe, Y. Muramatsu, Honda R&D Co., Ltd., Tochigi/J	
13:20		Closing Remarks	
		Workshop C: Corrosion in Aerospace	Room F1-F3
Chairs		T. Hack	
10:00	O-1110	Multilayer epoxy coatings including nanotraps and nanocontainers for corrosion protection of AA2024-T3	
		I. Kartsonakis, NCSR "Demokritos", Agia Paraskevi/GR; <u>E. Athanasopoulou</u> , National Technical University of Athens, Zographos/GR; D. Snihrova, F. Montemor, Instituto Superior Tecnico, Lisboa/P; C. Charitidis, National Technical University of Athens, Zographos/GR; G. Kordas, NCSR "Demokritos", Agia Paraskevi/GR	
10:20	O-1133	Plasma electrolytic oxidation for corrosion-protection, characterization of oxide films formed on Al-alloy for aerospace applications	
		<u>N. Godja</u> , M. Pölzler, A. Schindel, J. Wosik, A. Gavrilovic, Ch. Kleber, Center of Electrochemical Surface Technology (CEST GmbH), Wiener Neustadt/A	

10:40	O-1089	Organic-inorganic double doped zeolites for improved corrosion protection of aluminium alloy AA2024-T3	
		<u>E.L. Ferrer</u> , H.D. Mendoza, A.P. Rollon, University of the Philippines-Diliman, Quezon City/RP; <u>S.J. Garcia</u> , Delft University of Technology/NL	
11:00	O-1251	Enhanced corrosion resistance of AA 2024 using different types of organic compounds	
		<u>A.I. Stoica</u> , N. Godja, A. Stankovic, J. Wosik, M. Pölzler, C. Kleber, E. Kny, Centre of Electrochemical Surface Technology, Wiener Neustadt/A	
11:20		Coffee Break	
		Workshop C: Corrosion in Aerospace	Room F1-F3
Chairs		T. Hack	
11:50	O-1444	Chromate free pre-treatments of aluminium alloys for aerospace applications	
		<u>O. Elisseeva</u> , M. Daszczyńska, A. Langeveld, P. Tamis, Fokker Aerostructures BV, Papendrecht/NL	
12:10	O-1408	Corrosion protection of AA2024 by sol-gel coatings modified with Ce (III)-enriched zeolite	
		<u>S. Dias</u> , Instituto Superior Técnico and Laboratório de Energia e Geologia, Lisboa/P; S.V. Lamka, ICEMS/IST, Lisboa/P; T.C. Diamantino, Laboratório Nacional de Energia e Geologia, Lisboa/P; M.G.S. Ferreira, University of Aveiro and ICEMS/IST, Lisboa/P	
12:30	O-8533	Surface protection of aerospace magnesium components	
		<u>I. Ostrovsky</u> , Chemetall GmbH, Frankfurt/D	
13:20		Closing Remarks	