

Monday, 8 September 2008

Lecture Hall	Pentland (Level 3)	
09:00 - 09:15	Opening Session: S.B. Lyon, University of Manchester/UK; M. Schütze, DECHEMA e.V., Frankfurt am Main/D	
09:15 - 09:30	Welcome Address: Michael Russell MSP, Minister for Environment, The Scottish Parliament, Edinburgh/UK	
09:30 - 09:45	Cavallaro Medal Award Presentation	
09:45 - 10:30	INVITED PLENARY LECTURE Progress in corrosion protection as a requirement for technical progress M. Schütze, DECHEMA e.V., Frankfurt am Main/D	
10:30 - 11:00	Coffee Break	
Lecture Hall	Tinto (Level 0)	Fintry (Level 3)
	Workshop on Computer Modelling in Corrosion	Joint NACE/EFC-Workshop: State of the Art
Chair(s)	<i>R.A. Cottis, University of Manchester/UK; M. Vankeerberghen, SCK•CEN, Mol/B</i>	<i>C. Fowler, Bodycote Materials Testing Ltd., Dudley/UK</i>
11:00 - 11:25	Atomistic modeling and simulation of the corrosion and oxidation of stainless steels <i>P. Marcus, Y.-A. Beh, B. Diawara, École Nationale Supérieure de Chimie de Paris/F</i>	The DCB test <i>K. Szklarz, Shell Canada Ltd., Calgary/CDN</i>
11:25 - 11:50	Quantum chemical molecular dynamics study of strain effect on metal and oxide interface interaction at high temperature <i>N. Das, K. Suzuki, Y. Takeda, K. Ogawa, T. Shoji, Tohoku University, Sendai/J</i>	The Super 13% Cr experience <i>G. Chitwood, Halliburton Energy Services, Dallas, TX/USA</i>
11:50 - 12:15	3D BEM and FEM simulations applied to stray current interference problems. A unique coupling mechanism that takes the best of both methods <i>L. Bortels, J. Parlougue, Elsyca NV, Wjgmaal/B</i>	Lean Duplex <i>R. Francis, Weir Materials and Foundries, Manchester/UK</i>
12:15 - 12:40	Ekinox (evaluation kinetics oxidation): an advanced model for calculating scale growth and chemical evolution in the substrate <i>C. Desgranges, C. Toffolon-Masclat, CEA Saclay, Gif-sur-Yvette/F; N. Bertrand, AREVA-NP, Le Creusot/F; D. Poquillon, D. Monceau, CIRIMAT, Toulouse/F</i>	Advances in corrosion prediction <i>A. Neville, Leeds University/UK</i>
12:40 - 14:00	Lunchtime	
	Workshop on Computer Modelling in Corrosion	Corrosion in Oil and Gas Production
Chair(s)	<i>R.A. Cottis, University of Manchester/UK; M. Vankeerberghen, SCK•CEN, Mol/B</i>	<i>S. Olsen, Statoil Research Centre, Trondheim/N; T. Chevrot, Total S.A., Paris-La Défense/F</i>
14:00 - 14:25	Interpretation of predictions following a local model and possibilities of generalization. Application to the case study of an artificial intelligence sensor to predict environment corrosivity <i>P. Ferreira Gorião, W.F. Bogaerts, Katholieke Universiteit Leuven/B; M. Embrechts, Rensselaer Polytechnic Institute, Troy, NY/USA; B. Heyns, Katholieke Universiteit Leuven/B</i>	Improvement of the SSC resistance of high strength steels for drill collars through composition optimization <i>C. Mendibide, T. Sourmail, Ascometal CREAS, Hagondange/F</i>
14:25 - 14:50	Modeling the effects of nuclear environments on crevice corrosion of pure chromium by coupling of phase and polarization behavior <i>H. Hoffmeister, ISSV e.V., Hamburg/D</i>	Understanding field failures of alloy 718 forging materials in HP/HT wells <i>T. Cassagne, M. Bonis, TOTAL S.A., Pau/F; D. Hillis, TOTAL E&P UK PLC, Aberdeen/UK; C. Duret, CORREX, Fraisses/F</i>
14:50 - 15:15	Computer simulation of H₂ effects on electrochemical corrosion potential in the reactor coolant circuit of pressurized water <i>H. Kim, Korea Hydro & Nuclear Power Co., Daejeon/ROK; D. Macdonald, Pennsylvania State University, University Park, PA/USA</i>	The effect of environmental factors on SSC susceptibility of high strength low alloy steel <i>K. Kobayashi, T. Omura, Sumitomo Metal Industries, Ltd., Amagasaki/J; M. Ueda, Sumitomo Metal Industries, Ltd., Wakayama/J</i>
15:15 - 15:40	Analysis of the effect of acetic acid on the stress corrosion cracking of 3.5NiCrMoV turbine steels in high temperature water using CEFM (Coupled Environment Fracture Model) <i>W. Maeng, Korea Atomic Energy Research Institute, Daejeon /ROK; D. Macdonald, Pennsylvania State University, University Park, PA/USA</i>	Advances in sour service material for recent North Sea HPHT wells <i>C. Langrill, Vallourec Group, Aberdeen/UK; J. Leyer, H. Marchebois, Vallourec Group, Aulnoye-Aymeries/F; F. Bernard, Vallourec Group, Paris/F</i>
15:40 - 16:15	Coffee Break	
16:15 - 16:40	Local electrochemical probing and computational approach of bimetallic corrosion <i>F. Thebault, R. Oltra, B. Vuillemin, Université de Bourgogne, Dijon/F; K. Ogle, École Nationale Supérieure de Chimie de Paris/F</i>	Corrosion resistance and mechanical properties of alloy 945 <i>S. Mannan, Special Metals Corporation, Huntington, WV/USA</i>
16:40 - 17:05	Simulation of transient electrochemical impedance spectroscopy <i>B. Hinderliter, S. Croll, North Dakota State University, Fargo, ND/USA</i>	Operational boundaries for martensitic and duplex stainless steels in H₂S environments <i>R. Kane, Honeywell International, Houston, TX/USA</i>
Cancelled		
Lecture Hall	Cromdale Hall	
17:05 - 19:30	Poster Discussion / Poster Party	

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Cavallaro Medal Award Presentation		09:30 - 09:45
INVITED PLENARY LECTURE Progress in corrosion protection as a requirement for technical progress M. Schütze, DECHEMA e.V., Frankfurt am Main/D		09:45 - 10:30
Coffee Break		10:30 - 11:00
Moorfoot (Level 0)	Carrick (Level 1)	Lecture Hall
High Temperature Corrosion Processes	Joint Workshop EFC-CEOCOR: Buried Pipelines	
<i>M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i>	<i>M. Roche, Total S.A., Paris-La Défense/F</i>	<i>Chair(s)</i>
High alloyed stainless steels and nickel alloys for high temperature processes B. de Boer, ThyssenKrupp VDM, Werdohl/D	A comparison of standards and practices for assessing external corrosion prevention of buried pipelines M. Roche, Total S.A., Paris-La Défense/F	11:00 - 11:25
Elevated temperature deposit-induced corrosion of alloys for automotive exhaust components J. Rakowski, ATI Allegheny Ludlum, Natrona Heights, PA/USA		11:25 - 11:50
Effect of shot-peening on the high-temperature oxidation behaviour of a boiler steel. Experimental results and simulation. R. Naraparaju, V.B. Trindade, H.-J. Christ, University of Siegen/D; U. Krupp, FH Osnabrück/D	Assessment of CP effectiveness on PE tape coated buried pipeline by external corrosion direct examination S. Martinez, L. Valek, F. Kapor, University of Zagreb/HR	11:50 - 12:15
Analysis of the corrosion process of metallic materials exposed in lab-scale facilities under simulated incineration conditions and by means of computational fluid dynamics (CFD) M. Schmitt, MPI für Eisenforschung GmbH, Düsseldorf/D; M. Spiegel, Salzgitter Mannesmann Forschung GmbH, Duisburg/D	Evaluation of disbanded and shielding effects from the results of CIPS measurements Z. Lukacs, Indexon Ltd. P., Szeged/H	12:15 - 12:40
Lunchtime		12:40 - 14:00
High Temperature Corrosion Processes	Joint Workshop EFC-CEOCOR: Buried Pipelines	
<i>M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i>	<i>M. Roche, Total S.A., Paris-La Défense/F</i>	<i>Chair(s)</i>
Lab-scale investigation of deposit-induced chlorine corrosion of superheater materials under simulated biomass-firing conditions S.C. van Lith, F.J. Frandsen, Technical University of Denmark, Lyngby/DK; M. Montgomery, Vattenfall AS, Odense/DK and DONG Energy, Copenhagen/DK and Technical University of Denmark, Lyngby/DK; T. Vilhelmsen, Vattenfall AS, Odense/DK; S.A. Jensen, DONG Energy, Copenhagen/DK	AC corrosion: risk assessment on buried pipelines L. Di Biase, ISPRONA SrL, Rome/I; R. Cigna, ISPRONA SrL, Milan/I; O. Fumej, ATECHMA, Paris/F	14:00 - 14:25
The effect of a sulphur-containing additive on the initial corrosion of superheater tubes in a waste-fired boiler P. Viklund, R. Pettersson, Swerea KIMAB, Stockholm/S; A. Hjörnhede, Vattenfall Power Consultant, Göteborg/S; P. Henderson, Vattenfall Research and Development AB, Stockholm/S; P. Sjövall, SP Technical Research Institute of Sweden, Borås/S	New method and device for stray currents control P. Lambert, Société des Transports Pétroliers par Pipelines, Paris/F; G. Huss, Société des Transports Pétroliers par Pipelines, Gennevilliers/F; J.M. Vernet, A2S2, Signes/F	14:25 - 14:50
Diffusion coatings for aggressive high-temperature process environments B. Rammer, T. Weber, M. Schütze, DECHEMA e.V., Frankfurt am Main/D	Consequences of AC/DC interference on pipeline cathodic protection criteria L.V. Nielsen, M.B. Petersen, MetriCorr ApS, Glostrup/DK	14:50 - 15:15
Corrosion of overlay weld cladding on waterwalls of a waste-fired CFB boiler R. Pettersson, Swerea KIMAB, Stockholm/S; J. Storesund, Inspecta, Stockholm/S; M. Nordling, Swerea KIMAB, Stockholm/D	Validation tests of measuring tools giving back directly the E_{off} potential of a coupon P. France, S. Fontaine, S. Jacobs, GRTgaz, Compiègne/F	15:15 - 15:40
Coffee Break		15:40 - 16:15
Corrosion monitoring in Waste to Energy (WTE) plants B. Waldmann, D. Schrupp-Heidelberger, B. Stöcker, F. Haider, S. Horn, University of Augsburg/D; R. Warnecke, Gemeinschaftskraftwerk Schweinfurt/D	Comparative characterization of FBE powder coatings for gas/oil transmission pipelines buried under soil U. Majeed, University of Punjab, Lahore/PK; A. Hussain, Comtech GmbH, Munich/D; M.A. Butt, I.H. Khan, University of Punjab, Lahore/PK	16:15 - 16:40
Molten salt corrosion of FeAl and Fe₃Al intermetallics with addition of Ni, Ce and Li M.A. Luna, Electric Research Institute, Cuernavaca/MEX; A. Martínez, Centro de Investigación en Materiales Avanzados, Chihuahua/MEX; J.G. González, Universidad Autónoma del Estado de Morelos, Cuernavaca/MEX; J.G. Chacón, Centro de Investigación en Materiales Avanzados, Chihuahua/MEX	Study of the adhesion of three-layer pipeline coatings E. Legghe, E. Aragon, L. Belec, A. Margaillan, Université de Toulon et du Var, La Valette du Var/F; D. Melot, M. Roche, Total S.A., Paris-La Défense/F	16:40 - 17:05
Cromdale Hall		Lecture Hall
Poster Discussion / Poster Party		17:05 - 19:30

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09:45 - 10:30	INVITED PLENARY LECTURE Progress in corrosion protection as a requirement for technical progress M. Schütze, DECHEMA e.V., Frankfurt am Main/D	
10:30 - 11:00	Coffee Break	
Lecture Hall	Kilsyth (Level 0)	Pentland (Level 3)
	Corrosion Inhibition	Corrosion Mechanisms and Methods
Chair(s)	<i>G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D</i>	<i>P. Marcus, École Nationale Supérieure de Chimie de Paris/F; J.M.C. Mol, Delft University of Technology/NL</i>
11:00 - 11:25	Development and validation of a fast scanning technique for anticorrosive inhibitor selection <i>S.J. Garcia, Delft University of Technology/NL; T.H. Muster, CSIRO Materials Science and Engineering, Clayton/AUS; J.M.C. Mol, Delft University of Technology/NL; A.E. Hughes, T. Harvey, N. Sherman, S. Hardin, P. Corrigan, D. Lau, P.A. White, M. Glenn, J. Mardel, CSIRO Materials Science and Engineering, Clayton/AUS; H. Terryn, Vrije Universiteit Brussel/B; J.H.W. De Wit, Delft University of Technology/NL</i>	Long term indoor atmospheric corrosion of iron. Localisation of cathodic reaction sites on 500 years old samples <i>J. Monnier, P. Dillmann, P. Berger, Laboratoire Pierre Süe, Gif-sur-Yvette/F; I. Guillot, Institut de Chimie et de Matériaux de Paris Est, Thiais/F</i>
11:25 - 11:50	Online wavelet diagnosis of electrochemical current noise for evaluation of critical inhibitor concentrations <i>G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D; B. Motko, Iserlohn University of Applied Sciences/D</i>	Factors affecting SCC susceptibility of modified 13Cr martensitic stainless steels <i>P. Hernandez Hernandez, Instituto Mexicano del Petroleo, Distrito Federal/MEX; R.A. Cottis, University of Manchester/UK; R.C. Newman, University of Toronto/CDN</i>
11:50 - 12:15	Study of efficiency and stability of film forming amines (FFA) for the corrosion protection of the carbon steel in water circuits <i>C. Foret, G. Stoianovici, G. Chaussec, BKG France SAS, Arnage/F; A. de Bache, C. zum Kolk, W. Hater, BK Giulini GmbH, Düsseldorf/D</i>	Slip-dissolution model of stress corrosion crack growth and possibilities of its application for evaluation of stress corrosion cracking susceptibility of duplex stainless steels in hydrogen sulfide-chloride environments at 120°C <i>B. Eremias, V. Janik, V. Cihal, E. Kalabisova, SVUOM Ltd., Prague/CZ</i>
12:15 - 12:40	Surface analytical characterization of alkyl-phosphonate thin layers on passive iron surface <i>A. Paszternak, I. Felhosi, Z. Paszti, E. Kuzmann, A. Vertes, J. Telegdi, E. Kalman, Hungarian Academy of Sciences, Budapest/H</i>	Corrosion fatigue of solution annealed austenitic stainless steels <i>R. Sonnleitner, G. Mori, M. Panzenböck, University of Leoben/A; R. Fluch, S. Eglsäer, Böhler Edelstahl GmbH & Co. KG, Kapfenberg/A</i>
12:40 - 14:00	Lunchtime	
	Corrosion Inhibition	Corrosion Mechanisms and Methods
Chair(s)	<i>G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D</i>	<i>P. Marcus, École Nationale Supérieure de Chimie de Paris/F; J.M.C. Mol, Delft University of Technology/NL</i>
14:00 - 14:25	On passivation of iron by anions of sodium mafenamate, fluphenamate and their compositions with sodium oleate <i>Ya. Bober, Yu. Kuznetsov, N. Andreeva, L. Kazansky, Russian Academy of Sciences, Moscow/RUS</i>	Spectro-electrochemical studies of surface treated metal / polymer interfaces upon exposure to an electrolyte solution <i>M. Öhman, D. Persson, Swerea KIMAB, Stockholm/S</i>
14:25 - 14:50	Transformation of rust in the presence of mangrove (<i>Rhizophora apiculata</i>) tannins and phosphoric acid <i>A. Abdul Rahim, M. Jain Kassim, University Sains Malaysia, Penang/MAL; E. Rocca, J. Steinmetz, Université Henri Poincaré, Nancy/F</i>	A high resolution X-ray photoelectron spectroscopy study of chromium conversion coatings and compounds <i>R. Chapaneri, G.W. Critchlow, G.D. Wilcox, I. Sutherland, Loughborough University/UK; G. Beamson, Daresbury Laboratory, Warrington/UK; A. Chojnicki, T. Pearson, T. Rowan, MacDermid PLC, Birmingham/UK</i>
14:50 - 15:15	Synergistic effect of sodium nitrite-Zn²⁺ system <i>S. Rajendran, M. Vimala, M. Kanagamani, J. Arockia Selvi, S.A. Kanimozhi, GTN Arts College, Dindigul/IND; A.J. Amalraj, Loyola College, Chennai/IND; B. Narayanasamy, Thiagarajar College of Engineering, Madurai/IND</i>	Stainless steel passive film modification by electrochemically cerium insertion <i>O. Lavigne, C. Alemany-Dumont, B. Normand, INSA Lyon, Villeurbanne/F; P. Delichère, UCLB - CNRS, Lyon/F</i>
15:15 - 15:40	The effect of selected plant extracts on the corrosion behavior of duplex stainless steels <i>J. Potgieter, Manchester Metropolitan University/UK; P. Olubambi, N. Thanjekwayo, University of the Witwatersrand, Johannesburg/ZA</i>	X-ray photoelectron spectroscopy study of oxide film formed on Ni-base alloys in pressurized water reactor primary conditions <i>L. Marchetti, S. Perrin, O. Raquet, F. Miserque, CEA Saclay, Gif-sur-Yvette/F; M. Pijolat, École Nationale Supérieure des Mines, Saint Etienne/F</i>
15:40 - 16:15	Coffee Break	
16:15 - 16:40	Synthesised Schiff bases as a potential corrosion inhibitor of aluminium <i>H. Osman, S. Abd Hamid, M.H. Hussin, L.P. Yee, A. Abdul Rahim, N. Mohd Hashim, M.H. Al-Douh, S. Yahya, University Sains Malaysia, Penang/MAL</i>	
16:40 - 17:05	Mangrove (<i>Rhizophora apiculata</i>) tannins as a potential corrosion inhibitor for aluminium in acidic medium <i>A. Abdul Rahim, R. Adnan, S. Yahya, University Sains Malaysia, Penang/MAL</i>	
Lecture Hall	Cromdale Hall	
17:05 - 19:30	Poster Discussion / Poster Party	

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INVITED PLENARY LECTURE Progress in corrosion protection as a requirement for technical progress M. Schütze, DECHEMA e.V., Frankfurt am Main/D		09:45 - 10:30
Coffee Break		10:30 - 11:00
Sidlaw (Level 3)	Harris (Level 1)	Lecture Hall
Coatings	Corrosion in the Refinery Industry	
<i>L. Fedrizzi, University of Udine/I; W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D</i>		Chair(s)
Use of electrochemical noise method and electrochemical impedance spectroscopy for investigation of a set of organic primers D.J. Mills, University of Northampton/UK; C.P. Woodcock, Liquid Plastics Limited, Preston/UK	WP 15: Corrosion in the Refinery Industry - Business Meeting	11:00 - 11:25
Self-healing anticorrosion coatings based on nanocontainers with sensitive polyelectrolyte shell D. Shchukin, D. Fix, D. Andreeva, H. Möhwald, MPI of Colloids and Interfaces, Golm/D		11:25 - 11:50
The influence of nano-scaled barium sulfates and titanium dioxides on the corrosion resistance of paints A. Classen, Sachtleben Chemie GmbH, Duisburg/D		11:50 - 12:15
The effect of residual chromate pre-treatment on the electrochemical behavior of Mg-rich primer D. Battocchi, K. Allahar, G. Bierwagen, North Dakota State University, Fargo, ND/USA		12:15 - 12:40
		Lunchtime
Coatings	Workshop on Corrosion under Insulation Case Studies	
<i>L. Fedrizzi, University of Udine/I; W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D</i>	<i>F. Ropital, Institut Français du Pétrole, Vernaison/F; S. Winnik, ExxonMobil Chemical Company, Southampton/UK</i>	Chair(s)
Modified Zn pigments for corrosion protective coatings for aluminium alloys P. Plagemann, J. Weise, A. Zockoll, Fraunhofer IFAM, Bremen/D	A corrosion under insulation prevention strategy - experience with an approach aligned with the EFC WP 13 and WP 15 corrosion under insulation guideline B. Fitzgerald, ExxonMobil Chemical Company, Baytown, TX/USA; S. Winnik, ExxonMobil Chemical Company, Southampton/UK	14:00 - 14:25
Study of the correlation between UV ageing and the corrosion resistance of prepainted galvanized steel M. Poelman, Materia Nova, Mons/B; J. Mallégo, ArcelorMittal Research Liège SCRL/B; M.-G. Olivier, Faculté Polytechnique de Mons/B	A refinery approach to address corrosion under insulation & external corrosion R. Scanlan, R. Valbuena, I. Harrison, ConocoPhillips Company, South Killingholme/UK	14:25 - 14:50
Embedded electrodes for EIS monitoring of organic coatings without the substrate as an electrode K. Allahar, Q. Su, G. Bierwagen, North Dakota State University, Fargo, ND/USA	Risk-based approach to CUI protection of austenitic stainless steel H. De Bruyn, Borealis Group Services AS, Stathelle/N	14:50 - 15:15
Influence of the curing conditions and the pigment volume concentration of a cathophoretic coating on the mechanical properties and the corrosion performances on metallic substrates A.-P. Romano, M.-G. Olivier, Faculté Polytechnique de Mons/B	Discussion and conclusion of the Workshop and the WP 15 Business Meeting	15:15 - 15:40
Coffee Break		15:40 - 16:15
Comparing strategies to probe self-healing of defects in coated metals A.C. Bastos, O. Karavai, M.L. Zheludkevich, M.G.S. Ferreira, Universidade de Aveiro/P		16:15 - 16:40
The use of Al₂O₃-micro containers for storage of corrosion inhibitors M. Schem, T. Schmidt, H. Caparrotti, M. Aslan, M. Wittmar, M. Veith, Leibniz Institut für Neue Materialien GmbH, Saarbrücken/D		16:40 - 17:05
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Lecture Hall	Ochil (Level 1)
49th Corrosion Science Symposium	
<i>Chair(s)</i>	<i>G. Hinds, Institute of Corrosion, Bedfordshire/UK and National Physical Laboratory, Teddington/UK</i>
11:00 - 11:25	Corrosion properties of a new free machining titanium alloy S. Benfer, DECHEMA e.V., Frankfurt am Main/D; P. Jencus, C. Siemers, J. Rösler, Technical University of Braunschweig/D; W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D
11:25 - 11:50	Effects of environmental factors on the atmospheric induced stress corrosion cracking (AISCC) of Type 304 stainless steel D. Phan, University of Manchester/UK
11:50 - 12:15	Hydrogen embrittlement susceptibility of super duplex stainless steels J. Alsarrat, M.J. Robinson, Cranfield University/UK
12:15 - 12:40	Heat transfer corrosion of stainless steel in nitric acid B. Corder, N. Stevens, University of Manchester/UK
12:40 - 14:00	Lunchtime
14:00 - 14:25	Crevice corrosion solution analysis by capillary electrophoresis using a contactless conductivity detector M. Nie, A. Cranny, J.A. Wharton, N. Harris, R.J.K. Wood, University of Southampton/UK; K.R. Stokes, DSTL Porton Down, Salisbury/UK
14:25 - 14:50	Synchrotron studies of artificial pits in iron M. Monir, University of Birmingham/UK
14:50 - 15:15	Ferromagnetic resonance as a tool for detection of corrosion on steel reinforcing bars S.L. Sherratt, L.J. North, N.J. Cassidy, P.W. Haycock, Keele University/UK; S.R. Hoon, Manchester Metropolitan University/UK
15:15 - 15:40	Synchrotron studies of stainless steel pitting M. Ghahari, University of Birmingham/UK
15:40 - 16:15	Coffee Break
16:15 - 16:40	Pit stability criteria for aluminium and implications for the mechanism of tunneling corrosion A. Cook, University of Manchester/UK; N. Laycock, S. White, Industrial Research Ltd., Lower Hutt/NZ; R. Newman, University of Toronto/CA
16:40 - 17:05	Influence of excimer laser surface melting on anodising of AA2024-T351 alloy Z. Aburas, F. Viejo, T. Hashimoto, Y. Yuan, Z. Liu, P. Skeldon, G.E. Thompson, University of Manchester/UK
Lecture Hall	Cromdale Hall
17:05 - 19:30	Poster Discussion / Poster Party

Tuesday, 9 September 2008

Pentland (Level 3)		Lecture Hall
INVITED PLENARY LECTURE Self-organising corrosion phenomena: a nanoscale examination D. Young, University of New South Wales, Sydney/AUS		09:00 - 09:45
Break for Changing Lecture Hall		
Workshop on Computer Modelling in Corrosion R.A. Cottis, University of Manchester/UK; M. Vankeerberghen, SCK•CEN, Mol/B		09:45 - 09:55
Tinto (Level 0)	Fintry (Level 3)	Lecture Hall
Workshop on Computer Modelling in Corrosion R.A. Cottis, University of Manchester/UK; M. Vankeerberghen, SCK•CEN, Mol/B		09:55 - 10:20
Corrosion in Oil and Gas Production S. Olsen, Statoil Research Centre, Trondheim/N; T. Chevrot, Total S.A., Paris-La Défense/F		Chair(s)
Computer simulation of a single pit in CO₂ corrosion in the presence of acetic acid J. Amri, Institute For Energy Technology, Kjeller/N and Grenoble INP/F; E. Gulbrandsen, Institute For Energy Technology, Kjeller/N; R.P. Nogueira, Grenoble INP/F	Wet hydrogen sulfide cracking monitoring by acoustic emission V. Smanio, Total S.A., Pau/F; J. Kittel, Institut Français du Pétrole, Lyon/F; M. Frégonèse, INSA-Lyon/F; T. Cassagne, Total S.A., Pau/F; F. Ropital, Institut Français du Pétrole, Lyon/F; B. Normand, INSA-Lyon/F	09:55 - 10:20
Finite element calculations in support of stress corrosion crack propagation M. Vankeerberghen, S.Gavrilov, SCK•CEN, Mol/B; G.Nelissen; Vrije Universiteit Brussel/B; B.Martens, Universiteit Gent/B; G.Weyns, J.Deconinck, Vrije Universiteit Brussel/B	Crevice corrosion of super duplex steel tubes in sub sea umbilicals E.E. Skavås, M.H. Larsen, S. Karlsten, Nexans Norway AS, Halden/N	10:20 - 10:45
Coffee Break		
Physicochemical modelling of flow accelerated corrosion by numerical calculations with comsol multiphysics software A. Amimer, University of Manchester/UK; D. Noel, Electricité de France, Moret-sur-Loing/F; N. Stevens, University of Manchester/UK	Sandvik SAF 3207 HD® - a new hyper duplex stainless steel for umbilicals U. Kivisäkk, A. Juhlin, P. Novak, AB Sandvik Materials Technology, Sandviken/S	10:45 - 11:20
Geometrical effects on reinforcement corrosion J. Warkus, M. Raupach, RWTH Aachen University/D	Nickel Tungsten carbide, a seawater tolerant material to be thinking to use in offshore oil industry in hydraulic fluids L. Zheng, A. Neville, University of Leeds/UK	11:20 - 11:45
Modelling the corrosion-induced cracking of reinforced concrete structures exposed to the atmosphere V. L'Hostis, A. Millard, S. Perrin, CEA Saclay, Gif-sur-Yvette/F	Corrosion assessment prediction for a confined flexible pipe annulus R.A. Clements, Wellstream International Ltd., Newcastle Upon Tyne/UK	11:45 - 12:10
Lunchtime		
Nuclear Industries and Waste Disposal D. Féron, CEA Saclay, Gif-sur-Yvette/F		12:35 - 14:00
Corrosion in Oil and Gas Production S. Olsen, Statoil Research Centre, Trondheim/N; T. Chevrot, Total S.A., Paris-La Défense/F		Chair(s)
OECD-NEA stress corrosion cracking and cable ageing project (SCAP) A. Yamamoto, A. Huerta, OECD Nuclear Energy Agency, Issy-les-Moulineaux/F; K. Gott, Swedish Nuclear Power Inspectorate, Stockholm/S; T. Koshy, Nuclear Regulatory Commission, Washington, DC/USA	HISc testing of stainless steels under cathodic protection in seawater R. Johnsen, Norwegian University of Science and Technology, Trondheim/N; B. Nyhus, SINTEF Materials and Chemistry, Trondheim/N; S. Wästberg, DNV, Oslo/N	14:00 - 14:25
Influence of surface conditions on iodine-induced stress corrosion cracking of zircaloy V. Francon, M. Frégonèse, INSA-Lyon, Villeurbanne/F; P. Barberis, Cezus Research Centre, UGINE/F	Hydrogen transport in 1Cr-0.7Mo steels charged with different hydrogen activities M.J. Cancio, Tenaris R&D, Campana/RA; P. Bruzzoni, J.R. Collet-Lacoste, Comisión Nacional de Energía Atómica, Buenos Aires/RA; T.E. Perez, Tenaris R&D, Campana/RA	14:25 - 14:50
Passivity and stress corrosion cracking of alloy 600 in a Pb containing aqueous solution D.-J. Kim, H.C. Kwon, M.A. Kim, J.S. Kim, S.S. Hwang, J. Park, H.P. Kim, KAERI, Daejeon/ROK	CO₂ corrosion of carbon steel at lower temperatures T. Bernsten, StatoilHydro ASA, Haugesund/N and University of Stavanger, Oslo/N; M. Seiersten, Institute for Energy Technology, Kjeller/N; T. Hemmingsen, University of Stavanger/N	14:50 - 15:15
Kinetic study of oxide growth on nickel base alloys in PWR primary conditions L. Marchetti, S. Perrin, O. Raquet, S. Pellegrino, S. Vaubailon, CEA Saclay, Gif-sur-Yvette/F; M. Pijolat, École Nationale Supérieure des Mines, Saint Etienne/F	Challenges and opportunities to control carbon dioxide corrosion in enhanced oil recovery systems S. Ramachandran, S. Weghorn, V. Jovancevic, P. Hammonds, Baker Petrolite, Sugar Land, TX/USA	15:15 - 15:40
Coffee Break		
Detection of stress corrosion cracking in simulated BWR environment by combining the electrochemical noise and DCPD technique S. Ritter, H.P. Seifert, Paul Scherrer Institute, Villigen/CH	A semi-quantitative methodology for assessing the corrosion likelihood of existing pipelines M. Bonis, Total S.A., Pau/F; T. Chevrot, M. Stroe, Total S.A., Paris-La Défense/F	15:40 - 16:15
Development of understanding of the interaction between localized deformation and SCC of austenitic stainless steels exposed to primary PWR environment T. Couvant, EDF R&D, Moret-sur-Loing/F; A. Herbelin, École Nationale Supérieure des Mines, Saint Etienne/F; A. Musienko, École des Mines de Paris, Evry/F; D. Delafosse, École Nationale Supérieure des Mines, Saint Etienne/F; G. Cailletaud, École des Mines de Paris, Evry/F; G. Ilevbare, Electric Power Research Institute, Palo Alto, CA/USA; J. Hickling, CMC, Cyprus/CY	Hydrogen permeation through low alloy steels N. Barakat, R.L. Reuben, Heriot Watt University, Edinburgh/UK	16:15 - 16:40
Corrosion status of paks NPP primary circuit J. Schunk, G. Patek, T. Pintér, Paks Nuclear Power Plant Ltd./H; J. Ősz, University of Budapest/H		16:40 - 17:05
		17:05 - 17:30

Tuesday, 9 September 2008

Lecture Hall	Pentland (Level 3)	
09:00 - 09:45	INVITED PLENARY LECTURE Self-organising corrosion phenomena: a nanoscale examination D. Young, University of New South Wales, Sydney/AUS	
09:45 - 09:55	Break for Changing Lecture Hall	
Lecture Hall	Moorfoot (Level 0)	Carrick (Level 1)
	High Temperature Corrosion Processes	Cathodic Protection
Chair(s)	<i>M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i>	<i>M. Roche, Total S.A., Paris-La Défense/F</i>
09:55 - 10:20	Corrosion behavior of Ni-base alloys and stainless steels in supercritical water containing potassium hydrogen carbonate N. Boukis, W. Habicht, E. Hauer, K. Weiss, E. Dinjus, Forschungszentrum Karlsruhe GmbH/D	Efficient cathodic protection of stainless steel heat exchangers S. Wigen, H. Osvoll, FORCE Technology Norway AS, Trondheim/N
10:20 - 10:45	Fireside corrosion and steamside oxidation of 9-12% Cr ferritic steels exposed for long term testing M. Montgomery, Technical University of Denmark, Lyngby/DK; S.A. Jensen, F. Rasmussen, Dong Energy, Copenhagen/DK; T. Vilhelmsen, Vattenfall AS, Odense/DK	The formation of calcareous deposits during CP in simulated deep sea water M. Du, Ocean University of China, Qingdao/PRC; D. Scantlebury, University of Manchester/UK
10:45 - 11:20	Coffee Break	
11:20 - 11:45	Hot spot related high temperature hydrogen attack of secondary reformer vessel in ammonia gas plant S. Harjac, BHP Billiton, Townsville/AUS; D. Keen, Quest Reliability Ltd., Brisbane/AUS; A. Macrauld, Connell Wagner Pty Ltd., Brisbane/AUS	Internal cathodic protection of sea water piping systems - evaluation by use of computer modelling and comparisons to experimental results A.-M. Grolleau, H. Le Guyader, V. Debout, N. Dolignon, DCNS Cherbourg/F; J. Pautasso, DGA, Bagneux/F; J. Blanc, DGA, Arcueil/F
11:45 - 12:10	Metal dusting: what determines the degradation rate? C.G.M. Hermse, J.C. van Wortel, TNO Science and Industry, Eindhoven/NL	Cathodic protection of buoy chain connector: numerical modelling by 3D Software J. Vittonato, M. Roche, Total S.A., Paris-La Défense/F
12:10 - 12:35	Improving metal dusting resistance by Cu addition to Ni-base alloy for syngas production plants S. Matsumoto, Y. Nishiyama, Sumitomo Metal Industries Ltd., Amagasaki/J; H. Matsuo, Sumitomo Metal Industries Ltd., London/UK	Extending the life of cathodic protection systems for offshore pipelines – some recently applied new technologies J. Britton, Deepwater Corrosion Services Inc., Houston, TX/USA
12:35 - 14:00	Lunchtime	
	High Temperature Corrosion Processes	Cathodic Protection
Chair(s)	<i>M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i>	<i>M. Roche, Total S.A., Paris-La Défense/F</i>
14:00 - 14:25	New approach for the inhibition of carbon deposition on steel surfaces under metal dusting conditions C. Geers, T. Weber, M. Schütze, DECHEMA e.V., Frankfurt am Main/D	Main principals for development of sacrificial anodic alloys V. Kechin, Vladimir State University/RUS; E. Lyublinski, Northern Technologies International Corporation, Beachwood, OH/USA
14:25 - 14:50	Failure investigation of ethylene furnace radiant tube A. Babakr, A. Al Ahmari, SABIC Technology Center, Jubail/SAR	Determination of operation parameters of underground connected sacrificial anodes Z. Lukacs, Indexon Ltd., Szeged/H
14:50 - 15:15	High temperature corrosion monitoring by electrochemical noise techniques S.J. Mabbutt, N.J. Simms, J.E. Oaky, Cranfield University, Beds/UK	Testing of STARGARD(TM) discrete anodes for concrete J.E. Bennet, J.E. Bennet Consultants Inc., Chardon, OH/USA; T. Turk, De Nora Tech, Chardon, OH/USA; M. Tettamanti, M. Manghi, S. Tremolada, Industrie De Nora S.p.A., Milan/I
15:15 - 15:40	A study on thermal cycle life and electrochemical impedance response of plasma sprayed functionally graded thermal barrier coatings G. Sreedhar, V.S. Raja, Indian Institute of Technology, Mumbai/IND; D. Dhimant, Plasma Spray Processors, Mumbai/IND	Long-term performance and versatility of zinc sacrificial anodes for control of reinforcement corrosion G. Sergi, D. Simpson, J. Potter, Fosroc International Ltd., Tamworth/UK
15:40 - 16:15	Coffee Break	
	High Temperature Corrosion Processes	Marine Corrosion
Chair(s)	<i>M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i>	<i>U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S</i>
16:15 - 16:40	Corrosion protection by powder coating for high temperature applications B. Tepe, B. Gunay, University of Ulster, Co. Antrim/UK	Comparison of corrosion properties of UNS S32750, UNS N06022 and UNS N10276 in seawater environment H. Vingsand, R. Johnsen, Norwegian University of Science and Technology, Trondheim/N
16:40 - 17:05	High temperature oxidation behavior of coatings obtained by arc spraying cored wires based on the Fe-Cr-B-Al system H. Pokhmurska, B. Wielage, T. Grund, University of Technology, Chemnitz/D; M. Student, V. Pokhmurskii, National Academy of Sciences of Ukraine, Lviv/UA	Titanium and super stainless steel welded tubing solutions for seawater-cooled heat exchangers H. Richaud-Minier, VALTIMET, Boulogne-Billancourt/F; H. Marchebois, VALLOUREC, Aulnoye-Aymeries/F; P. Gerard, VALTIMET, Venarey-Les-Laumes/F
17:05 - 17:30	High temperature oxidation of multiphase Mo-Si-B-X systems S. Burk, B. Gorr, University of Siegen/D; V.B. Trindade, Vallourec & Mannesmann Tubes, Düsseldorf/D; U. Krupp, University of Applied Sciences, Osnabrück/D; H.-J. Christ, University of Siegen/D	Nickel-aluminium bronze pitting corrosion in seawater R.C. Barik, J.A. Wharton, R.J.K. Wood, University of Southampton/UK; K.R. Stokes, DSTL Porton Down, Salisbury/UK
17:30 - 17:55	WP 3: Corrosion by Hot Gases and Combustion Products – Business Meeting (approx. 1 hr)	Sea water hydrostatic test procedure for storage tank G. Nakayama, IHI Corporation, Yokohama/J; H. Tatsuke, IHI Corporation, Tokyo/J

Tuesday, 9 September 2008

Pentland (Level 3)		Lecture Hall
INVITED PLENARY LECTURE Self-organising corrosion phenomena: a nanoscale examination D. Young, University of New South Wales, Sydney/AUS		09:00 - 09:45
Break for Changing Lecture Hall		
09:45 - 09:55		
Kilsyth (Level 0)	Pentland (Level 3)	Lecture Hall
Corrosion Inhibition	Corrosion Mechanisms and Methods	
<i>G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D</i>	<i>P. Marcus, École Nationale Supérieure de Chimie de Paris/F; J.M.C. Mol, Delft University of Technology/NL</i>	Chair(s)
The influence of some 3,5-bis(n-pyridyl)-4-amino-1,2,4-triazoles on the corrosion behaviour of mild steel in perchloric acid: electrochemical study and theoretical approach <i>M. Traisnel, M. Lebrini, M. Lagrenée, École Nationale Supérieure de Chimie de Lille, Villeneuve d'Ascq/F; F. Bentiss, Université Chouaib Doukkali, El Jadida/MA</i>	Raman mapping of corrosion products formed onto spring steels during salt spray experiments. A correlation between the scale composition and the corrosion resistance <i>F. Dubois, ENSEEG, Saint Martin d'Hères/F; C. Mendibide, Ascometal CREAS, Hagondange/F; T. Pagnier, ENSEEG, Saint Martin d'Hères/F; F. Perrard, Ascometal CREAS, Hagondange/F; C. Duret, CORREX, Fraisses/F</i>	09:55 - 10:20
Enhanced corrosion resistance of mild steel in normal sulfuric acid medium by crown compounds containing a 1,3,4-thiadiazole moiety: AC impedance study and theoretical approach <i>M. Lagrenée, École Nationale Supérieure de Chimie de Lille, Villeneuve d'Ascq/F; F. Bentiss, Université Chouaib Doukkali, Eljadida/MA; M. Lebrini, M. Traisnel, École Nationale Supérieure de Chimie de Lille, Villeneuve d'Ascq/F</i>	AC corrosion behaviour: characterization of corrosion products by in-situ Raman spectroscopy <i>I. Ibrahim, H. Takenouti, B. Tribollet, Pierre & Marie Curie University, Paris/F; M. Meyer, Gaz de France, Saint Denis La Plaine/F; S. Fontaine, GRTgaz, Compiègne/F; H.-G. Schoeneich, EON-Ruhrgas AG, Essen/D; S. Joiret, M.C. Bernard, Pierre & Marie Curie University, Paris/F</i>	10:20 - 10:45
Coffee Break		
10:45 - 11:20		
Methods to improve the temporary corrosion protection of cleaning baths for further packaging with VCI containing materials <i>S. Koehler, U. Rammelt, G. Reinhard, Excor Korrosionsforschung GmbH, Dresden/D</i>	Direct measurement of corrosion rates by atomic emission spectroelectrochemistry <i>K. Ogle, P. Volovitch, J. Swiatowska, École Nationale Supérieure de Chimie, Paris/F</i>	11:20 - 11:45
Investigation of the inhibitive effect of polyethylene glycol on corrosion of carbon steel in acid mixture solution HCl+ H₂SO₄ <i>N. Ghalebsaz-Jeddi, Islamic Azad University-Tabriz Branch/IR; H. Ashassi-Sorkhabib, University of Tabriz/IR; N. Modirshahlaa, M. Bahmani-Azar, Islamic Azad University-Tabriz Branch/IR</i>	Influence of phosphate ions and proteins on the corrosion behaviour of titanium and CoCrMo alloy: electrochemistry, SEM and XPS study <i>A. Ouerd, Institut National Polytechnique de Grenoble, Saint Martin d'Hères/F; C. Alemany-Dumont, B. Normand, Institut National des Sciences Appliquées de Lyon, Villeurbanne/F; S. Szunerits, Institut National Polytechnique de Grenoble, Saint Martin d'Hères/F</i>	11:45 - 12:10
WP 1: Corrosion and Scale Inhibition – Business Meeting (approx. 1 hr)	Study of the effect of thermal treatments on the corrosion behaviour of CoCrMo alloy using Electrochemical Impedance Spectroscopy (EIS) <i>C. Valero Vidal, A. Igual Muñoz, Polytechnique University of Valencia/E</i>	12:10 - 12:35
Lunchtime		
12:35 - 14:00		
Joint Session: Corrosion Inhibition in Oil and Gas Production	Corrosion Mechanisms and Methods	
<i>G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D</i>	<i>P. Marcus, École Nationale Supérieure de Chimie de Paris/F; J.M.C. Mol, Delft University of Technology/NL</i>	Chair(s)
Development of multifunction additives for oil and gas production <i>T. Pou, ARKEMA, Pierre Benite, A.Mottet, CEGA S.A., La Garenne Colomb/F</i>	Study of electrochemical induced migration on electronic chip resistors by use of novel electrochemical cell set-up <i>D. Minzari, M. Jellesen, P. Moller, R. Ambat, Technical University of Denmark, Lyngby/DK</i>	14:00 - 14:25
CO₂ and H₂S corrosion inhibitor performance in OIW emulsion systems <i>C. Simpson, R. Stalker, V. Cocozza, G. Graham, Scaled Solutions Ltd., Livingston/UK</i>	Analysis of the electrochemical noise signals from pitting on stainless steel: role of the cathodic process <i>H. Sarmiento Klapper, A. Heyn, J. Göllner, University of Magdeburg/D</i>	14:25 - 14:50
Relating the corrosion inhibitor efficacy to adsorbed film structure <i>S. Bosenberg, D. John, T. Becker, S. Bailey, R. De Marco, B. Kinsella, Curtin University of Technology, Perth/AUS</i>	Detection of sigma phase by electrochemical methods in a 22 %Cr DSS <i>S. Cristini, A.J. Invernizzi, B. Sacchi, S.P. Trasatti, University of Milan/I</i>	14:50 - 15:15
Corrosion inhibition of petroleum pipelines in deep oil well formation water under CO₂ environment <i>M.A. Migahed, Egyptian Petroleum Research Institute, Cairo/ET</i>	Anodic polarization behavior of high strength aluminium alloy <i>M. Bobby Kannan, Monash University, Clayton/AUS; S. Raja, Indian Institute of Technology, Mumbai/IND</i>	15:15 - 15:40
Coffee Break		
15:40 - 16:15		
Joint Session: Corrosion Inhibition in Oil and Gas Production	Corrosion Mechanisms and Methods	
<i>G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D</i>	<i>P. Marcus, École Nationale Supérieure de Chimie de Paris/F; J.M.C. Mol, Delft University of Technology/NL</i>	Chair(s)
Underdeposit test method for assessing performance of corrosion inhibitors <i>G. Hinds, P. Cooling, S. Zhou, A. Turnbull, National Physical Laboratory, Teddington/UK</i>	Electrochemical extraction of chlorides from corrosion products of iron archeological objects <i>P. Novák, J. Děd, Š. Msallamová, Institute of Chemical Technology Prague/CZ</i>	16:15 - 16:40
Inhibitor qualification for wet gas multiphase pipelines protected by partly pH stabilised mono ethylene glycol and corrosion inhibitors <i>T. Andersen, A. Halvorsen, E. Halvorsen, StatoilHydro ASA, Porsgrunn/N; H. Fitje, StatoilHydro ASA, Oslo/N</i>	Understanding AC-DC-AC accelerated test results <i>K. Allahar, G. Bierwagen, V. Johnston Gelling, North Dakota State University, Fargo, ND/USA</i>	16:40 - 17:05
The monitoring of the spreading inhibition effect by modeling the corrosion of carbon steel in gas pipelines using ECN method <i>A. Lame, Z. Gace, T. Dilo, University of Tirana/AL</i>	In-situ monitoring of a Mg-rich primer beneath a topcoat exposed to prohesion conditions <i>D. Battocchi, K. Allahar, D. Wang, G. Bierwagen, North Dakota State University, Fargo, ND/USA</i>	17:05 - 17:30
Corrosion protection of internal surfaces of crude oil storage tank bottoms <i>E. Lyublinski, Northern Technologies International Corp., Beachwood, OH/USA</i>		17:30 - 17:55

Tuesday, 9 September 2008

Lecture Hall	Pentland (Level 3)	
09:00 - 09:45	INVITED PLENARY LECTURE Self-organising corrosion phenomena: a nanoscale examination D. Young, University of New South Wales, Sydney/AUS	
09:45 - 09:55	Break for Changing Lecture Hall	
Lecture Hall	Sidlaw (Level 3)	Harris (Level 1)
	Coatings	Corrosion of Steel in Concrete
Chair(s)	<i>L. Fedrizzi, University of Udine/I; W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D</i>	<i>M. Raupach, RWTH Aachen University/D</i>
09:55 - 10:20	Organosilicon plasma polymer coatings filled with Ce-based nanoparticles: characterization of anti-corrosion properties D. Del Frari, J. Bour, J. Bardon, D. Ruch, Centre de Recherche Henri Tudor, Esch-sur-Alzette/L	Corrosion protection of reinforced concrete structures E. Lyublinski, Northern Technologies International Corporation, Beachwood, OH/USA; K. Saarinen, Zerust OY, Hyvinkaa/FIN
10:20 - 10:45	Influence of plasma surface treatment on the properties of coil coating R. Serra, K.A. Yasakau, University of Aveiro/P; M.F. Montemor, Instituto Superior Técnico, Lisboa/P; M.Z. Zheludkevich, University of Aveiro/P; A.G. Gusakov, Belarusian State University, Minsk/BY; M.G.S. Ferreira, University of Aveiro/P	Application and experiences with combined thermal sprayed zinc anodes for cathodic protection of reinforced structures F. Prenger, M.K. Kattanek, Grillo-Werke AG, Duisburg/D; T.G. Goodey, METRA Non-Ferrous Ltd., Hoddesdon/UK
10:45 - 11:20	Coffee Break	
11:20 - 11:45	The influence of pre-treatment of aluminium-magnesium alloys on bonding of organic coatings F. de Wit, J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Vrije Universiteit Brussel/B; J.H.W. de Wit, Delft University of Technology/NL	Cost effectiveness and application of online-monitoring in reinforced concrete structures Y. Schiegg, Swiss Society for Corrosion Protection, Zurich/CH; L. Steiner, Corsensys AG, Cham/CH
11:45 - 12:10	In situ and ex situ observations of the formation of SAM-layers upon aluminium T. Hauffman, E. Tourwé, O. Blajiev, A. Hubin, Vrije Universiteit Brussel/B; J. Snauwaert, C. Van Haesendonck, Katholieke Universiteit Leuven/B; H. Terryn, Vrije Universiteit Brussel/B	Non destructive measurement of reinforcement corrosion rate in existing RC structures E. Pereira, R. Figueira, M. Salta, I. Fonseca, Laboratório Nacional de Engenharia Civil, Lisboa/P
12:10 - 12:35	Silane pretreatments for galvanised steel: deposition, adhesion and corrosion protection properties M.E. Druart, M. Olivier, Faculté Polytechnique de Mons/B; M. Poelman, Materia Nova, Mons/B; F. Deflorian, S. Rossi, M. Fedel, University of Trento/I	Improved corrosion initiation prediction in reinforced concrete structures through testing and monitoring I. Rafiq, University of Surrey, Guildford/UK
12:35 - 14:00	Lunchtime	
	Coatings	Corrosion of Steel in Concrete
Chair(s)	<i>L. Fedrizzi, University of Udine/I; W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D</i>	<i>M. Raupach, RWTH Aachen University/D</i>
14:00 - 14:25	Anodic oxide tailoring followed by a nanoparticle based impregnation process to improve corrosion protection and adhesion properties of aluminium alloys S.K. Weidmann, W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D; O. Yezerska, Fraunhofer IFAM, Bremen/D; U. Sydow, Technical University of Dresden/D; M. Schneider, Fraunhofer IKTS, Dresden/D	Protection of the rear reinforcement of RC-structures by CP – results of numerical simulations M. Bruns, M. Raupach, RWTH Aachen University/D
14:25 - 14:50	Inhibitor-doped stratified polyelectrolytes as the components of the sol-gel coatings for active corrosion protection S. Lamaka, Technical University of Lisbon/P; D. Shchukin, MPI of Colloids and Interfaces, Golm/D; M. Zheludkevich, M. Ferreira, University of Aveiro, Lisboa/P	Investigations on alterations of electrochemical parameters and their impact on the corrosion state of steel in chloride containing concrete in consequence of cathodic polarization T. Eichler, B. Isecke, G. Wilsch, S. Goldschmidt, Federal Institute for Materials Research and Testing, Berlin/D; M. Bruns, RWTH Aachen University/D
14:50 - 15:15	Influence of microstructure of 6063 aluminium alloy on the appearance of anodized layer N. Tabrizian, P. Møller, R. Ambat, H.N. Hansen, Technical University of Denmark, Lyngby/DK	Characterization of embeddable reference electrodes for corrosion monitoring in reinforced concrete structures G.S. Duffo, Comisión Nacional de Energía Atómica, Buenos Aires/RA; S.B. Farina, Consejo Nacional de Investigaciones Científicas y Tecnológicas, Buenos Aires/RA; C.M. Giordano, Comisión Nacional de Energía Atómica, Buenos Aires/RA
15:15 - 15:40	pH sensitive polyelectrolyte / inhibitor coatings with regenerative ability for effective corrosion protection D. Andreeva, D. Fix, D. Shchukin, H. Moehwald, MPI of Colloids and Interfaces, Potsdam/D	Monitoring of corrosion processes in chloride contaminated mortar by electrochemical measurements and X-ray tomography J. Goebbels, B. Isecke, M. Beck, A. Burkert, Federal Institute for Materials Research and Testing, Berlin/D
15:40 - 16:15	Coffee Break	
16:15 - 16:40	Barrier properties of thin silica coatings on steel sheet R. Hausbrand, ArcelorMittal R&D Industry Gent - OCAS N.V., Zelzate/B; J. Wielant, H. Terryn, Vrije Universiteit Brussel/B; J.-P. Celis, M. Muchlado, Katholieke Universiteit Leuven/B; S. Siau, F. Clarysse, ArcelorMittal R&D Industry Gent - OCAS N.V., Zelzate/B	Numerical model of Ca(OH)₂ transport in concrete due to electrical currents T. Koster, W.H.A. Peelen, J.A. Larbi, TNO Built Environment and Geosciences, Delft/NL; M.M. de Rooij, Technical University Delft/NL and TNO Built Environment and Geosciences, Delft/NL; R.B. Polder, TNO Built Environment and Geosciences, Delft/NL
16:40 - 17:05	Hybrid sol-gel/conducting polymer coatings for the corrosion protection of aluminium alloys R. Akid, M. Gobara, H. Wang, Sheffield Hallam University/UK	Designing high performance grout for corrosion protection of prestressing steel in concrete I. Stipanovic Oslakovic, Civil Engineering Institute, Zagreb/HR; M. Serdar, D. Bjegovic, University of Zagreb/HR
17:05 - 17:30	Evaluation of environmentally friendly conversion coatings for hot rolled steel (HRS) prior to powder coating application B. Tepe, University of Ulster, Co. Antrim/UK; E. Sezer, B. Ustamehmetoglu, Istanbul Technical University/TR	Influence of environmental and structural parameters on chloride-induced-corrosion of reinforced concrete structures S. Charles, V. L'Hostis, S. Poyet, CEA Saclay, Gif sur Yvette/F
17:30 - 17:55	WP 14: Coatings – Business Meeting (approx. 1,5 hrs)	
17:55		Use of stainless steel reinforcement in concrete O. Vennessland, J.I. Kvamme, Norwegian University of Science and Technology, Trondheim/N
		WP 11: Corrosion of Steel in Concrete – Business Meeting (approx. 1 hr)

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Pentland (Level 3)	Lecture Hall
INVITED PLENARY LECTURE Self-organising corrosion phenomena: a nanoscale examination D. Young, University of New South Wales, Sydney/AUS	09:00 - 09:45
Break for Changing Lecture Hall	
Ochil (Level 1)	Lecture Hall
49th Corrosion Science Symposium	
<i>G. Hinds, Institute of Corrosion, Bedfordshire/UK and National Physical Laboratory, Teddington/UK</i>	<i>Chair(s)</i>
Corrosion and music A. Groysman, Oil Refineries Ltd., Haifa/IL and ORT Braude College, Karmiel/IL; O. Groysman, ORT Braude College, Karmiel/IL	09:55 - 10:20
Mechanistic understanding of irradiation effects on stress corrosion cracking of austenitic stainless steels A. Al Shater, A.H. Sherry, S.B. Lyon, University of Manchester/UK	10:20 - 10:45
Coffee Break	
Assessing the localised corrosion behaviour of 2205 Duplex stainless steel using the scanning droplet cell S. Gnefid, R. Akid, Sheffield Hallam University/UK	11:20 - 11:45
A model for the propagation of crevice corrosion in stainless steel E. Rezig, M.J. Robinson, Cranfield University/UK	11:45 - 12:10
3D modelling of intergranular stress corrosion cracking (IGSCC) Y. Zhang, T.J. Marrow, A.H. Sherry, University of Manchester/UK	12:10 - 12:35
Lunchtime	
49th Corrosion Science Symposium	
<i>G. Hinds, Institute of Corrosion, Bedfordshire/UK and National Physical Laboratory, Teddington/UK</i>	<i>Chair(s)</i>
Filiform corrosion – an unexpected problem affecting the new generation of magnesium containing galvanised steels A. Bennett, H.N. McMurray, G. Williams, University of Wales, Swansea/UK	14:00 - 14:25
The effect of laser surface treatment on the corrosion of rebar in sulphate containing alkaline media K. Premiall, Tshwane University of Technology, Pretoria/ZA; J. Potgieter, Manchester Metropolitan University/UK; S. Potgieter-Vermaak, University of the Witwatersrand, Johannesburg/ZA	14:25 - 14:50
Corrosion behaviour of new PVD coatings on steel D. Warren, H.N. McMurray, University of Wales, Swansea/UK; A. de Vooy, Corus, IJmuiden/NL	14:50 - 15:15
Corrosion protection of Al2024 using a sol-gel/conducting polymer system M. Gohara, H. Wang, D. Greenfield, R. Akid, Sheffield Hallam University/UK	15:15 - 15:40
Coffee Break	
Correlation of accelerated corrosion testing methods for next generation galvanised steels S. Lloyd, University of Wales, Swansea/UK	16:15 - 16:40
Cathodic delamination: a review Z. Makama, S. Campbell, University of Portsmouth/UK	16:40 - 17:05
Ultrafast curing of high performance coatings I. Mabbett, University of Wales, Swansea/UK	17:05 - 17:30
AGM of the Institute of Corrosion - Corrosion Science Division	17:30 - 17:55
WP 7: Corrosion Education and Computer Applications - Business Meeting (approx. 1 hr)	17:55

Wednesday, 10 September 2008

Lecture Hall	Pentland (Level 3)	
09:00 - 09:45	INVITED PLENARY LECTURE Mechanism of de-alloying and applications of nanoporous metals R.C. Newman, D.M. Artymowicz, University of Toronto/CDN	
09:45 - 09:55	Break for Changing Lecture Hall	
Lecture Hall	Tinto (Level 0)	Carrick (Level 1)
	Nuclear Industries and Waste Disposal	Refinery Process Corrosion
Chair(s)	<i>D. Féron, CEA Saclay, Gif-sur-Yvette/F</i>	<i>F. Ropital, Institut Français du Pétrole, Vernaison/F</i>
09:55 - 10:20	Study of the corrosion of an aluminium alloy used for the fuel cladding of the Jules Horowitz material testing reactor: oxide microstructure and irradiation effects <i>M. Wintergerst, B. Kapusta, CEA Saclay, Gif-sur-Yvette/F; N. Dacheux, University of Montpellier 2, Bagnols-sur-Cèze/F; F. Datcharry, E. Herms, CEA Saclay, Gif-sur-Yvette/F</i>	Refinery corrosion by salt hydrolysis in opportunity crudes <i>P.E. Eaton, Champion Technologies Inc., Houston, TX/USA; M. Gray, H. Kaur, University of Alberta, Edmonton/CDN</i>
10:20 - 10:45	Mechanism of destruction of the protective oxide layer on alloy 230 in the impure helium atmosphere of very high temperature reactors <i>F. Rouillard, C. Cabret, CEA Saclay, Gif-sur-Yvette/F; K. Wolski, École Nationale Supérieure des Mines de St. Etienne/F; S. Gosse, CEA Saclay, Gif-sur-Yvette/F; M. Pijolat, École Nationale Supérieure des Mines de Saint Etienne/F</i>	Properties of Sumitomo 347AP steel tube for use in desulfurizing plants in the petroleum refinery industry <i>H. Matsuo, Sumitomo Metal Industries, Ltd., London/UK; S. Matsumoto, M. Yamashita, J. Higuchi, Sumitomo Metal Industries, Ltd., Amagasaki/J</i>
10:45 - 11:20	Coffee Break	
11:20 - 11:45	Nuclear application steels compatibility with flowing Pb <i>A. Gessi, G. Benamati, ENEA - Italian National Agency for New Technologies, Energy and the Environment, Camugnano/I</i>	Protection of steel from hydrogen sulfide corrosion with volatile inhibitors <i>R.K. Vagapov, VNIIGAZ, Moscow Region/RUS; Y.I. Kuznetsov, L.V. Frolova, Russian Academy of Sciences, Moscow/RUS</i>
11:45 - 12:10	The influence of micro-mechanical parameters on propagation of stress corrosion cracks <i>J.-P. Tinnes, University of Birmingham/UK; C. Bosch, D. Delafosse, École Nationale Supérieure des Mines de Saint Etienne/F</i>	Reuse of water: maintaining reliability by avoiding corrosion effects <i>R. Haug, A. Wrangel, E. Weindel, BK Giulini GmbH, Ludwigshafen/D; L. Paping, DOW Benelux N.V., Terneuzen/NL</i>
12:10 - 12:35	The sea salts corrosion study at Japan sea coast <i>F. Nakayasu, Fukui University of Technology/J; T. Umehara, A. Kato, A. Taniguchi, Nuclear Engineering Ltd., Osaka/J</i>	Study of alternative systems for corrosion control in water cooling system operating in high concentration cycle <i>D.S. de Freitas, National Institute of Technology, Rio de Janeiro/BR; E.A. de Souza, J.A.C.P. Gomes, Federal University of Rio de Janeiro/BR</i>
12:35 - 14:00	Lunchtime	
	Nuclear Industries and Waste Disposal	Refinery Process Corrosion
Chair(s)	<i>D. Féron, CEA Saclay, Gif-sur-Yvette/F</i>	<i>F. Ropital, Institut Français du Pétrole, Vernaison/F</i>
14:00 - 14:25	Long-term corrosion behaviour of low carbon steel in anoxic soils <i>M. Saheb, D. Neff, P. Dillmann, Laboratoire Pierre Süe, Gif-sur-Yvette/F</i>	Corrosion protection of oil storage tank tops <i>E. Lyublinski, Y. Vaks, G. Ramdas, Northern Technologies International Corp., Beachwood, OH/USA; M. Schultz, Petrobras, Rio de Janeiro/BR; R. Singh, Zerust-Brazil, Sao Paulo/BR</i>
14:25 - 14:50	Corrosion processes during the lifetime of a deep geological repository <i>E. Torres, J. Peña, M.J. Turrero, P.L. Martín, A. Escribano, M.V. Villar, CIEMAT, Madrid/E</i>	Corrosion in amine solvents used for the removal of acid gases <i>E. Fleury, J. Kittel, F. Ropital, IFP, Solaize/F; R. Oltra, B. Vuillemin, Institut Carnot de Bourgogne, Dijon/F</i>
	Nuclear Industries and Waste Disposal	Ethanol Biofuel Corrosion
Chair(s)	<i>D. Féron, CEA Saclay, Gif-sur-Yvette/F</i>	<i>F. Ropital, Institut Français du Pétrole, Vernaison/F</i>
14:50 - 15:15	Mechanistic investigation of internal corrosion of nuclear waste containers over extended time periods <i>N.P.C. Stevens, University of Manchester/UK; E. Tsausoglou, CAPCIS Ltd., Manchester/UK; E. Onumonu, University of Manchester/UK</i>	Stress corrosion cracking of carbon steel in ethanol-gasoline blends <i>A. Albistur-Gorñi, C. Berlanga-Labari, J. Fernández-Carrasquilla, Public University of Navarra, Pamplona/E</i>
15:15 - 15:40	Influence of surface condition on the initiation of stress-corrosion cracking in type 304 stainless steel in humid air environments in the presence of surface chloride contamination <i>N. Fairweather, D. Tice, Serco, Warrington/UK</i>	Corrosion of metals for automotive applications in ethanol blended biofuels <i>M. Scholz, T. Troßmann, C. Berger, Technical University of Darmstadt/D</i>
15:40 - 16:15	Coffee Break	
	Nuclear Industries and Waste Disposal	Refinery Inspection Monitoring
Chair(s)	<i>D. Féron, CEA Saclay, Gif-sur-Yvette/F</i>	<i>F. Ropital, Institut Français du Pétrole, Vernaison/F</i>
16:15 - 16:40	Stress corrosion cracking potentials of stainless steels in dilute chloride solutions at 130°C <i>J.D. Atkinson, Sheffield Hallam University/UK; J.R. Saithala, Fine Tubes Ltd., Plymouth/UK</i>	Training & certification of plant inspectors: a review of Norwegian standards NS 415-1 & NS 415-2 <i>H. De Bruyn, Borealis Group Services AS, Stathelle/N; K. Johansson, StatoilHydro AS, Tjeldbergodden/N</i>
16:40 - 17:05	Corrosion-resistant drums for low-/medium-level radioactive waste <i>M. Jendras, F.-W. Bach, T. Hassel, University of Hannover, Garbsen/D</i>	The utility of hydrogen flux measurement in refineries <i>F. Dean, Ion Science Ltd., Royston/UK</i>
17:05 - 17:30	WP 4: Nuclear Corrosion - Business Meeting Part 1 (approx. 2 hrs), Part 2: Thursday, 11 September, 10:00 - 12:30	Reducing the effects of process corrosion "corrosion as a process variable" <i>M. Holdefer, Pepperl+Fuchs GmbH, Mannheim/D</i>
20:00 - 24:00	Congress Dinner at the "Hub"	

Wednesday, 10 September 2008

Pentland (Level 3)		Lecture Hall
INVITED PLENARY LECTURE Mechanism of de-alloying and applications of nanoporous metals R.C. Newman, D.M. Artymowicz, University of Toronto/CDN		09:00 - 09:45
		Break for Changing Lecture Hall 09:45 - 09:55
Sidlaw (Level 3)	Fintry (Level 3)	Lecture Hall
Coatings	Joint Session: Local Characterisation of Corrosion Processes	
<i>L. Fedrizzi, University of Udine/I; W. Fürbeth, DECEMA e.V., Frankfurt am Main/D</i>	<i>P. Marcus, École Nationale Supérieure de Chimie de Paris/F; J.M.C. Mol, Delft University of Technology/NL</i>	Chair(s)
Hybrid pigments for corrosion inhibition <i>V. Gelling, C. Vetter, X. Qi, North Dakota State University, Fargo, ND/USA</i>	Use of surface and electrochemical methods to study the influence of metal oxide films on the delamination of organic coatings <i>J. Wielant, Vrije Universiteit Brussel/B; R. Posner, G. Grundmeier, MPI für Eisenforschung GmbH, Düsseldorf/D; R. Hausbrand, ArcelorMittal R&D Industry Gent - OCAS N.V., Zelzate/B; H. Terryn, Vrije Universiteit Brussel/B</i>	09:55 - 10:20
The morphology and corrosion resistance of polypyrrole films grown in the presence of surfactants and corrosion inhibitors <i>S.A. Campbell, Y.H. Li, University of Portsmouth/UK; S. Breakspear, Global R&D, Tokyo/J; F.C. Walsh, University of Southampton/UK; P.A. Cox, J.R. Smith, University of Portsmouth/UK</i>	Monitoring local activity of Mg²⁺ and H⁺ by SIET and SVET <i>S. Lamaka, Instituto Superior Técnico, Lisbon/P; O. Karavai, A. Bastos, M. Zheludkevich, University of Aveiro/P; M. Ferreira, Instituto Superior Técnico, Lisbon/P</i>	10:20 - 10:45
		Coffee Break 10:45 - 11:20
Anodized coatings containing polyaniline and oxide nanoparticles for corrosion protection of aluminium alloy 2024T3 <i>O. Zubillaga, F.J. Cano, G. Imbuluzqueta, M. Insausti, I. Azkarate, INASMET, San Sebastian/E</i>	Atmospheric ageing of aluminium and aluminium alloys: a micro-electrochemical approach <i>N. Mary, INSA de Lyon, Villeurbanne/F; J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Vrije Universiteit Brussel/B; J.H.W. de Wit, Delft University of Technology/NL</i>	11:20 - 11:45
Electrochemical synthesis of PANI on zinc substrates <i>A. Laskos, G. Faflek, University of Technology Vienna/A; M. Fleischanderl, voestalpine GmbH, Linz/A; J. Sanders, Henkel KGaA, Düsseldorf/D</i>	Effect of oxide film on volta potential of aluminium <i>K.A. Yasakau, M.L. Zheludkevich, M.G.S. Ferreira, University of Aveiro/P</i>	11:45 - 12:10
Progress in the development of a pyrrole-based silane primer for corrosion protection of Al alloys <i>M. Rizzi, M. Trueba, S.P. Trasatti, University of Milan/I</i>	Corrosion inhibition at cut edges by sodium phosphate <i>A. Simões, R. Picciochi, J.P. Torres, J.C.S. Fernandes, Universidade Técnica de Lisboa/P</i>	12:10 - 12:35
		Lunchtime 12:35 - 14:00
Corrosion of Polymer Materials	Microbial Corrosion	
<i>R. Morach, Ciba Spezialitätenchemie AG, Basel/CH</i>	<i>R. Gubner, Swerea KIMAB AB, Stockholm/S</i>	Chair(s)
Interactions between polyethylene water pipes and disinfectants used in drinking water treatments: how to characterize the ageing? <i>M. Rozenal-Evesque, B. Rabaud, Suez-Environnement, Le Pecq/F</i>	KEYNOTE: Corrosion in sea ports - overview and update <i>J. Christie, Aberdeen Harbour Board/UK</i>	14:00 - 14:25
Development of a "Nol Ring" test to study polyethylene pipe degradation and its implementation on field house connection pipes <i>M. Sanchez, S. Louis, C.E. Bruzek, Laboratoire National de Métrologie et d'Essais, Trappes/F; M. Rozenal-Evesque, B. Rabaud, Suez-Environnement, Le Pecq/F</i>	The potential role of iron-oxidizing bacteria in the corrosion of carbon steel pilings in a freshwater harbor <i>B. Little, J.S. Lee, R.I. Ray, Naval Research Laboratory, Stennis Space Center, MS/USA; J. Bostrom, J.M. Bergin, R.E. Hicks, University of Minnesota, Duluth, MN/USA</i>	14:25 - 14:50
Corrosion of Polymer Materials	Microbial Corrosion	
<i>R. Morach, Ciba Spezialitätenchemie AG, Basel/CH</i>	<i>R. Gubner, Swerea KIMAB AB, Stockholm/S</i>	Chair(s)
Online investigation of polyethylene pipes under active deformation by unilateral NMR <i>A. Adams, M. Adams, RWTH Aachen University/D; H.-J. Kocks, Mannesmann Fuchs Rohr GmbH, Siegen/D; B. Blümich, RWTH Aachen University/D</i>	A peculiar cathodic process observed on iron and steel during corrosion by sulfate reducing bacteria (SRB) <i>J. Starosvetsky, D. Starosvetsky, R. Armon, Y. Ein-Eli, Technion of Haifa/IL</i>	14:50 - 15:15
Influence of residual stress on lifetime prediction for plastic pipes <i>C. Berger, A. Bockenheimer, H. Haupt, J. Heinemann, Technical University of Darmstadt/D; R. Brüll, Deutsches Kunststoff-Institut, Darmstadt/D</i>	Electrochemical and microbiological contributions to the corrosion of 70/30 CuNi alloys in marine environments <i>S.A. Campbell, J. Sunner, I.B. Beech, University of Portsmouth/UK</i>	15:15 - 15:40
		Coffee Break 15:40 - 16:15
Corrosion of Polymer Materials	Microbial Corrosion	
<i>R. Morach, Ciba Spezialitätenchemie AG, Basel/CH</i>	<i>R. Gubner, Swerea KIMAB AB, Stockholm/S</i>	Chair(s)
Correlation between material parameters of high density polyethylene grades and the test performance behaviour of packagings <i>M. Weltschew, C. Sturm, Federal Institute for Materials Research and Testing, Berlin/D</i>	Predicting, controlling and monitoring MIC in pipelines <i>S. Maxwell, J. Hart, Commercial Microbiology Ltd., Aberdeen/UK</i>	16:15 - 16:40
Compatibility study of plastics materials with bioethanol-gasoline blends <i>C. Berlanga-Labari, Public University of Navarra, Pamplona/E; I. Del Campo-Colmenar, CENER, Sarriena/E; I. Barado-Pardo, J. Fernández-Carrasquilla, Public University of Navarra, Pamplona/E</i>	Microbiologically influenced corrosion of iron by methane producing archaea (MPA) associated with sulfate reducing bacteria (SRB) <i>K. Ito, Nippon Steel Corporation, Futtsu/J; S. Wakai, H. Tsurumaru, T. Lino, K. Mori, T. Uchiyama, National Institute of Technology and Evaluation, Kisarazu/J; O. Miki, Nippon Steel Corporation, Futtsu/J; S. Harayama, National Institute of Technology and Evaluation, Kisarazu/J</i>	16:40 - 17:05
"Corrodere" of non-metallic materials in the mining, oil & gas industries (mogi) <i>A. Jefferson, B. Kinsella, Curtin University of Technology, Perth/AUS</i>	WP 10: Microbial Corrosion - Business Meeting (approx. 1 hr)	17:05 - 17:30
Congress Dinner at the "Hub"		20:00 - 24:00

Wednesday, 10 September 2008

Lecture Hall	Pentland (Level 3)	
09:00 - 09:45	INVITED PLENARY LECTURE Mechanism of de-alloying and applications of nanoporous metals R.C. Newman, D.M. Artymowicz, University of Toronto/CDN	
09:45 - 09:55	Break for Changing Lecture Hall	
Lecture Hall	Kilsyth (Level 0)	Ochil (Level 1)
	Managing Corrosion for Sustainability	Light Alloys in Transportation: Corrosion of Aluminium Alloys
<i>Chair(s)</i>	<i>G. Winning, Institute of Corrosion (Aberdeen Branch), Bedfordshire/UK and CAPCIS Ltd., Aberdeen/UK</i>	<i>A.J. Davenport, University of Birmingham/UK; G.M. Scamans, Innoval Technology, Banbury/UK</i>
09:55 - 10:20	Is there a role for health & safety regulation in managing corrosion for sustainability? A. Duncan, Health & Safety Executive, Merseyside/UK	Corrosion of AlMg friction stir welds A.J. Davenport, R.J. Winsley, University of Birmingham/UK; G.M. Scamans, Innoval Technology, Banbury/UK; A. Afseth, Alcan, Voreppe/F; J. Hunter, Novelis, Kingston/CDN; W. Tang, A.P. Reynolds, University of South Carolina, Columbia, SC/USA
10:20 - 10:45	Zirconium and zirconium alloys for use in sulfuric acid applications R.C. Sutherlin, ATI Wah Chang, Albany, OR/USA	Intergranular corrosion on aeronautical aluminium alloys J. Delfosse, D. Schuster, EADS, Suresnes/F; C. Henon, ALCAN, Voreppe/F; M.-H. Vidal-Setif, ONERA, Chatillon/F; D. Thierry, N. Le Bozec, Institut de la Corrosion, Brest/F; B. Baroux, B. Malki, SIMAP, Grenoble/F; R. Oltra, Université de Bourgogne, Dijon/F; D. Delafosse, J. Stolarz, Écoles des Mines de Saint Etienne/F
10:45 - 11:20	Coffee Break	
11:20 - 11:45	Enamel and glass lined steel: manufacture, control and cases of degradation L. Diguët, RHODIA, Saint Fons/F	Electrochemical studies of intergranular corrosion of model AlMgSi(Cu) alloys H. Zhan, The Netherlands Institute for Metals Research, Delft/NL; J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Vrije Universiteit Brussel/B; J.H.W. de Wit, Delft University of Technology/NL
11:45 - 12:10	Integrity management perspective within the oil & gas industry: challenges for young and experienced engineers Y.C. Tang, Det Norske Veritas Limited, Aberdeen/UK; R. Miller, Det Norske Veritas Limited, Storkport/UK	A cellular automaton based model for predicting intergranular corrosion in aerospace alloys R. Akid, S.V. Lishchuk, K. Worden, Sheffield Hallam University/UK
12:10 - 12:35	Atmospheric corrosion of structural metals - methods of prediction of corrosion attack K. Krejslova, SVUOM Ltd., Prague/CZ; M. Halama, Technical University of Kosice/SK; D. Knotkova, SVUOM Ltd., Prague/CZ; J. van Lesebettens, Universiteit Gent/B	Modeling of the microstructural corrosion induced by localized galvanic coupling in aluminium alloys R. Oltra, B. Vuillemin, N. Murer, Université de Bourgogne, Dijon/F; O. Néel, ALCAN CRV, Voreppe/F
12:35 - 14:00	Lunchtime	
	Managing Corrosion for Sustainability	Light Alloys in Transportation: Corrosion of Magnesium/ Surface Treatment and Coating of Magnesium
<i>Chair(s)</i>	<i>G. Winning, Institute of Corrosion (Aberdeen Branch), Bedfordshire/UK and CAPCIS Ltd., Aberdeen/UK</i>	<i>A.J. Davenport, University of Birmingham/UK; G.M. Scamans, Innoval Technology, Banbury/UK</i>
14:00 - 14:25	Corrosion of casing steel during CO₂ underground storage A. Hovestad, P.M.M.C. Bressers, R.J. Gouwen, R.J.M. Bisselink, J.F. Zevenbergen, P.R. Willemsen, TNO Netherlands Organisation for Applied Scientific Research, Eindhoven/NL	Field exposure of magnesium alloy AZ91D: differences and similarities to the laboratory M. Jönsson, D. Persson, Swerea KIMAB, Stockholm/S
14:25 - 14:50	Corrosion performance of a new versatile Ni-Mo-Cr alloy N.S. Meck, P. Crook, N. Koon, Haynes International Inc., Kokomo, IN/USA; P. Houille, Haynes International Inc., Cergy Pontoise/F	Inhibition of localised corrosion on magnesium alloy AZ31 in chloride containing electrolyte G. Williams, H.N. McMurray, Swansea University/UK
	Workshop on Marine Corrosion: Optimising the Performance of Copper Base Alloys in Sea Water Piping Systems	Light Alloys in Transportation: Corrosion of Magnesium/ Surface Treatment and Coating of Magnesium
<i>Chair(s)</i>	<i>U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S</i>	<i>A.J. Davenport, University of Birmingham/UK; G.M. Scamans, Innoval Technology, Banbury/UK</i>
14:50 - 15:15	Review of BNF studies on the effect of chlorine and pollutants on the corrosion of copper alloy condenser tubes R. Francis, Weir Materials and Foundries, Manchester/UK; H.S. Campbell, Consultant, Surrey/UK	Effect of Al content on corrosion behaviour of Mg/Al alloys in 3.5 wt% NaCl R. Arrabal, A. Pardo, M.C. Merino, A.E. Coy, F. Viejo, Universidad Complutense Madrid/E; E. Matykina, University of Manchester/UK
15:15 - 15:40	Some copper alloy experiences on offshore installations C. Smith, BP Exploration Operating Company Ltd., Aberdeen/UK	Surface protection of Mg-alloys for aerospace application T. Hack, F. Gammel, EADS Innovation Works, Munich/D
15:40 - 16:15	Coffee Break	
	Workshop on Marine Corrosion: Optimising the Performance of Copper Base Alloys in Sea Water Piping Systems	Light Alloys in Transportation: Surface Treatment and Coating of Magnesium / Surface Treatment and Coating of Aluminium
<i>Chair(s)</i>	<i>U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S</i>	<i>A.J. Davenport, University of Birmingham/UK; G.M. Scamans, Innoval Technology, Banbury/UK</i>
16:15 - 16:40	Combating the threat of MIC in submarine seawater systems – the Royal Navy's experience G.J.E. Nicklin, Ministry of Defense, Bristol/UK	Corrosion protection of AZ31 magnesium alloy by means of ZrO₂ coatings deposited with sol-gel technique F. Andreatta, L. Paussa, P. Aldighieri, A. Lanzutti, L. Fedrizzi, University of Udine/I
16:40 - 17:05	Aspects of microbiologically influenced corrosion of Cu Ni alloys S. Campbell, I. Beech, Portsmouth University/UK	The influence of surface treatment on the anodizing of magnesium in alkaline solution M. Santamaria, F. Di Quarto, Università di Palermo/I; S. Zanna, H. Ardelean, P. Marcus, Le Centre National de la Recherche Scientifique, Paris/F
17:05 - 17:30	Response of 70-30 CuNi to conditioning pre-treatments and sulphide exposure R. Oakley, J. Galsworthy, QinetiQ Ltd., Hants/UK	Adhesion and corrosion properties of MoO₃ pigmented organic coatings for aluminium S. Rodahl, Norwegian University of Science and Technology, Trondheim/N; O. Knudsen, SINTEF, Trondheim/N; K. Nisancioglu, Norwegian University of Science and Technology, Trondheim/N
20:00 - 24:00	Congress Dinner at the "Hub"	

Wednesday, 10 September 2008

Pentland (Level 3)		Lecture Hall
INVITED PLENARY LECTURE Mechanism of de-alloying and applications of nanoporous metals R.C. Newman, D.M. Artymowicz, University of Toronto/CDN		09:00 - 09:45
Break for Changing Lecture Hall 09:45 - 09:55		
Pentland (Level 3)	Harris (Level 1)	Lecture Hall
Metallic Coatings	Workshop on Pitting Corrosion	
<i>G.D. Wilcox, Loughborough University/UK</i>	<i>P. McIntyre, The Institute of Materials, Minerals and Mining, London/UK</i>	<i>Chair(s)</i>
KEYNOTE: Linear and non-linear spectroelectrochemical studies of metal electrodeposition and corrosion processes B. Bozzini, L. D'Urzo, Università di Lecce/I; A. Tadjeddine, UDIL-CNRS, Orsay/F; M. Kiskinova, ELETTRA Synchrotron Light Source, Trieste/I	Quantification of pit propagation rates under flowing solution conditions using the scanning droplet cell and infinite focus microscope R. Akid, S. Gnefid, Sheffield Hallam University/UK	09:55 - 10:20
Comparative investigation of the corrosion behavior of galvanic and nano-composite zinc in chloride containing model solutions D. Koleva, K. van Breugel, Delft University of Technology/NL; P. Petrov, N. Boshkov, Bulgarian Academy of Sciences, Sofia/BG; J.H.W. de Wit, J.M.C. Mol, Delft University of Technology/NL	The role of inclusions in pit nucleation on steam turbine blade alloys G. Williams, K.M. Perkins, H.N. McMurray, Swansea University/UK	10:20 - 10:45
Coffee Break		10:45 - 11:20
Characteristics of nano-structure Zn-Ni alloys electrodeposited from acidic bath containing organic additives M. Shoeib, S.M. Abd El Hallem, H. Soliman, Central Metallurgical R & D Institute, Cairo/ET	X-ray synchrotron studies of pitting corrosion A.J. Davenport, T. Rayment, University of Birmingham/UK; A.J. Dent, Diamond Light Source, Didcot/UK; J.P. Tinnes, R.J. Wiltshire, University of Birmingham/UK; C. Martin, Daresbury Laboratory, Warrington/UK; P. Quinn, Diamond Light Source, Didcot/UK	11:20 - 11:45
Using a tri-valent chromium addition to increase the corrosion resistance of Zn-Co alloy electrodeposited coatings S.J. Harris, H. Yan, J. Yu, D.P. Weston, University of Nottingham/UK	Extreme values models for the estimation of the maximum depth in pitting corrosion: simulations & experiments A. Jarrah, J.M. Nianga, École Hautes Études d'Ingénieur, Lille/F and École Nationale Supérieure des Arts et Métiers, Lille/F; A. Lost, G. Guillemot, D. Najjar, École Nationale Supérieure des Arts et Métiers, Lille/F	11:45 - 12:10
Understanding corrosion via corrosion product characterization: case study of the role of Mg alloying in Zn-Mg coating on steel P. Volovitch, K. Ogle, École Nationale Supérieure de Chimie de Paris/F; C. Allely, Arcelor-Mittal Research SA, Maizières-lès-Metz/F	Pitting corrosion of stainless steels in chloride solutions at elevated temperatures J.R. Saithala, Fine Tubes Ltd., Plymouth/UK; J.D. Atkinson, Sheffield Hallam University/UK; S. McCoy, Fine Tubes Ltd., Plymouth/UK	12:10 - 12:35
Lunchtime		12:35 - 14:00
Effect of heat treatment on zinc whisker growth from electrodeposited coatings H Jiang, A.J. Ebbage, R. Chapaneri, G.D. Wilcox, G.W. Critchlow, Loughborough University/UK	Pitting corrosion of AA 5083 in chloride: behaviour during cyclic scans J.M. Sykes, K.L. Moore, P.S. Grant, University of Oxford/UK	14:00 - 14:25
Metallic Coatings	Infrastructure Maintenance and Asset Management: Tribocorrosion: Erosion-Corrosion and Biotribology	
<i>G.D. Wilcox, Loughborough University/UK</i>	<i>S. Mischler, École Polytechnique Fédérale de Lausanne/CH; J.-P. Celis, Katholieke Universiteit Leuven/B</i>	<i>Chair(s)</i>
Morphology and corrosion resistance of Zn-Co and Zn-Co-Fe alloy coatings Z.F. Lodhi, Delft University of Technology/NL and Netherlands Institute for Metals Research, Delft/NL; J.M.C. Mol, Delft University of Technology/NL; A. Hovestad, Dutch Institute of Applied Research TNO, Eindhoven/NL; H. Terryn, Netherlands Institute for Metals Research, Delft/NL and Vrije Universiteit Brussel/B; J.H.W. de Wit, Delft University of Technology/NL	Erosion corrosion behaviour of austenitic and martensitic stainless steels J. Haberl, G. Mori, University of Leoben/A; M. Oberndorfer, W. Havlik, OMV Exploration & Production GmbH, Vienna/A; P. Hosemann, Los Alamos National Laboratory, NM/USA	14:25 - 14:50
Metallic Coatings	Infrastructure Maintenance and Asset Management: Tribocorrosion: Erosion-Corrosion and Biotribology	
<i>G.D. Wilcox, Loughborough University/UK</i>	<i>S. Mischler, École Polytechnique Fédérale de Lausanne/CH; J.-P. Celis, Katholieke Universiteit Leuven/B</i>	<i>Chair(s)</i>
Corrosion at the edge of an organic coating and galvanized steel R. Feser, University of Applied Sciences Iserlohn/D; S. Killing, Bundesanstalt für Straßenwesen, Bergisch Gladbach/D	Erosion-corrosion in oil and gas - energetical approach to the application of stainless steel for erosion-corrosion I. Bargmann, A. Neville, University of Leeds/UK; S. Hertzman, Outokumpu Stainless Research Foundation, Avesta/S; F. Reza, Petronas Carigali SDN. BHD., Kuala Lumpur/MAL; X. Hu, University of Leeds/UK	14:50 - 15:15
Corrosion products formed on confined hot-dip galvanized steel in accelerated cyclic corrosion tests D. Thierry, N. LeBozec, French Corrosion Institute, Brest/F	Characterization of electrodeposited hydroxyapatite coating on nanoporous anodized titanium M. Shoeib, Central Metallurgical R & D Institute, Cairo/ET; F.M. Bayoumi, H. Nanjo, National Institute of Advanced Industrial Science and Technology, Sendai/J	15:15 - 15:40
Coffee Break		15:40 - 16:15
Metallic Coatings	Infrastructure Maintenance and Asset Management: Tribocorrosion: Erosion-Corrosion and Biotribology	
<i>G.D. Wilcox, Loughborough University/UK</i>	<i>S. Mischler, École Polytechnique Fédérale de Lausanne/CH; J.-P. Celis, Katholieke Universiteit Leuven/B</i>	<i>Chair(s)</i>
Characterization of passivation products on galvanized steel reinforcements in concrete T. Bellezze, G. Roventi, E. Barbaresi, N. Ruffini, R. Fratessi, Università Politecnica delle Marche, Ancona/I	On the mechanical role of passive films in tribocorrosion S. Mischler, École Polytechnique Fédérale de Lausanne/CH	16:15 - 16:40
Effect of aluminium coatings on the corrosion behaviour of Mg/Al alloys F. Viejo, A. Pardo, M.C. Merino, A.E. Coy, P. Casajús, M. Mohedano, Universidad Complutense de Madrid/E	Understanding of metal ion release from corrosion and bio-tribo-corrosion processes in the application of artificial hip prostheses Y. Yan, A. Neville, D. Dowson, S. Williams, J. Fisher, University of Leeds/UK	16:40 - 17:05
The corrosion and erosion-corrosion behaviour of PTA overlays for the application in the oilsands industry J.F. Flores, A. Neville, N. Kapur, A. Gnanavelu, University of Leeds/UK		17:05 - 17:30
Congress Dinner at the "Hub"		20:00 - 24:00

Thursday, 11 September 2008

Lecture Hall	Pentland (Level 3)	
09:00 - 09:45	INVITED PLENARY LECTURE Role of ozone and UV light in atmospheric corrosion of Ag D. Liang, G. Ma, Y. Wu, B. Wyslouzil, H.C. Allen, G.S. Frankel, Ohio State University, Columbus, OH/USA	
09:45 - 09:55	Break for Changing Lecture Hall	
Lecture Hall	Tinto (Level 0)	Carrick (Level 1)
	Automotive Corrosion	Refinery-Naphtenic Acid Corrosion
Chair(s)	<i>F. Hannour, N.van Landschoot, Corus Research Development & Technology, IJmuiden/NL</i>	<i>H. De Bruyn, Borealis Group Services AS, Stathelle/N</i>
09:55 - 10:20	Influence of microstructure on the corrosion performance of dual phase steels D. Farias, J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Vrije Universiteit Brussel/B; J.H.W. de Wit, Delft University of Technology/NL; F. Hannour, Corus Research Development & Technology, IJmuiden/NL	Refining high acid crudes: when is an opportunity not an opportunity? R. Kane, B. Chambers, Honeywell International, Houston, TX/USA
10:20 - 10:45	Performance of pre-primed and finish coated galvanized steel sheets for automotive bodies D. Santos, M.R. Costa, H. Raminhos, M.A. Travassos, C.M. Rangel, T. Diamantino, Instituto Nacional de Engenharia, Tecnologia e Inovação, Lisboa/P; F. Goodwin, International Lead Zinc Research Organization, Inc., Durham, NC/USA	The effect of molecular structure on the naphthenic acid corrosion occurrence A.J. Invernizzi, S.P. Trasatti, University of Milan/I
10:45 - 11:10	Effects of treatment conditions on the microstructure of electroplated zinc in chloride bath Y.-K. Song, G.-S. Han, M.-K. Park, J.-E. Oh, J.-R. Lee, POSCO, Gwangyang/ROK	New inhibitors for preventing naphthenic acid corrosion A. Groysman, Oil Refineries Ltd., Haifa/IL and ORT Braude College, Karmiel/IL; J. Penner, N. Brodsky, Oil Refineries Ltd., Haifa/IL; S. Skorodinsky, ORT Braude College, Karmiel/IL
11:10 - 11:45	Coffee Break	
	Automotive Corrosion	Refinery-Naphtenic Acid Corrosion
Chair(s)	<i>F. Hannour, N.van Landschoot, Corus Research Development & Technology, IJmuiden/NL</i>	<i>H. De Bruyn, Borealis Group Services AS, Stathelle/N</i>
11:45 - 12:10	Influence of climatic factors in cyclic accelerated corrosion test towards the development of a reliable and repeatable accelerated corrosion test for the automotive industry N. LeBozec, D. Thierry, French Corrosion Institute, Brest/F	25 years experience of successful naphthenic acid corrosion inhibition C. Claesen, Nalco Energy Services, Kontich/B; G. Scattergood, Nalco Energy Services, Sugar Land, TX/USA
12:10 - 12:35	KEYNOTE: Corrosion protection development concept at AUDI AG D. Blücher, H. Schnattinger, AUDI AG, Ingolstadt/D	Surface study of naphthenic acid corrosion inhibitors on carbon steel M.J. Zettmeisl, C.L. Sandu, K. Babić-Samardžija, B.G. Harrell, Baker Petrolite Corp., Sugarland, TX/USA; R.S. Arvidson, A. Lüttge, Rice University, Houston, TX/USA
12:35 - 13:00	A closer look at OY water tests for automotive heat exchangers E. Szala, A. Wittebrood, Corus Research Development & Technology, IJmuiden/NL; K. Vieregge, Aleris Aluminum Koblenz GmbH/D; M. Goerdeler, V. Navawongse, H. Koch, B. Grünenwald, Behr GmbH & Co. KG, Stuttgart/D	Risk mitigation strategies for refineries to cope with declining crude oil quality D. Owen, GE W&PT, Widnes/UK; A. Pothaud, GE W&PT, Marne La Vallée/F
13:00 - 13:25	Paintability and corrosion properties of POSCO AHSS H.S. Park, POSCO, Gwangyang/ROK	
13:25 - 13:35	Break for Changing Lecture Hall	
13:35 - 13:50	Closing Remarks	
ca. 13:50	End of Scientific Programme	

Thursday, 11 September 2008

Pentland (Level 3)		Lecture Hall
INVITED PLENARY LECTURE Role of ozone and UV light in atmospheric corrosion of Ag D. Liang, G. Ma, Y. Wu, B. Wyslouzil, H.C. Allen, G.S. Frankel, Ohio State University, Columbus, OH/USA		09:00 - 09:45
Break for Changing Lecture Hall		
09:45 - 09:55		
Sidlaw (Level 3)	Harris (Level 1)	Lecture Hall
Advances in Corrosion Protection by Organic Coatings: Symposium to Celebrate the Achievements of Prof. D. Scantlebury	WCO-Workshop: Needs for Corrosion Research to Solve Global Future Problems	
<i>D.J. Mills, University College Northampton/UK</i>	<i>G. Hays, World Corrosion Organisation, Morristown, NJ/USA; G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D; M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i>	Chair(s)
Qualification of protective coatings using EIS J. Sonke, Sonke Consultancy, IJmuiden/NL	No major technological progress without new solutions in corrosion mitigation and service integrity management G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D	09:55 - 10:20
In-situ probing for studying underpaint corrosion B. Vuillemin, A. Rubin, R. Oltra, Université de Bourgogne, Dijon/F; K. Ogle, École Nationale Supérieure de Chimie de Paris/F	Greenhouse gas limitation: corrosion and materials challenges for the capture and storage of carbon dioxide F. Ropital, Institut Français du Pétrole, Vernaison/F	10:20 - 10:45
The colza oil waste products processing's prospects V. Vigdorovich, A. Tanygin, Tambov State Technical University/RUS	Integrity of infrastructure - corrosion protection and monitoring B. Isecke, Federal Institute for Materials Research and Testing, Berlin/D	10:45 - 11:10
Coffee Break		
11:10 - 11:45		
Advances in Corrosion Protection by Organic Coatings: Symposium to Celebrate the Achievements of Prof. D. Scantlebury	WCO-Workshop: Needs for Corrosion Research to Solve Global Future Problems	
<i>D.J. Mills, University College Northampton/UK</i>	<i>G. Hays, World Corrosion Organisation, Morristown, NJ/USA; G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D; M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i>	Chair(s)
The role of local cells in the breakdown of organic coatings on metal substrates J.M. Sykes, University of Oxford/UK	Why addressing corrosion problems at the nanoscale will be increasingly important in the future P. Marcus, École Nationale Supérieure de Chimie de Paris/F	11:45 - 12:10
Galvanic model approach to study of localized corrosion inhibition on aluminum alloy by chromate and chromate-free pigments S.B. Lyon, University of Manchester/UK; I.M. Zin, National Academy of Sciences, Lviv/UA; J. Walton, University of Manchester/UK; V.I. Pokhmurskii, M.B. Ratushna, L.M. Bily, National Academy of Sciences, Lviv/UA	Materials challenges in the nuclear field D. Féron, CEA Saclay, Gif-sur-Yvette/F	12:10 - 12:35
Hybrid sol-gel/conducting polymer coatings for the corrosion protection of aluminium alloys R. Akid, M. Gohara, Shifted to Coatings, Tuesday, 16:40 R. Akid, M. Gohara, University of Northampton/UK	Technology driven needs for future high temperature corrosion research M. Schütze, DECHEMA e.V., Frankfurt am Main/D	12:35 - 13:00
	International corrosion awareness and importance of students involvement and education on a global scale A. Eliezer, Sami Shamoon College of Engineering, Beer-Sheva/IL	13:00 - 13:25
Break for Changing Lecture Hall		
13:25 - 13:35		
Closing Remarks		13:35 - 13:50
End of Scientific Programme		ca. 13:50

Thursday, 11 September 2008

Lecture Hall	Pentland (Level 3)	
09:00 - 09:45	INVITED PLENARY LECTURE Role of ozone and UV light in atmospheric corrosion of Ag D. Liang, G. Ma, Y. Wu, B. Wyslouzil, H.C. Allen, <u>G.S. Frankel</u> , Ohio State University, Columbus, OH/USA	
09:45 - 09:55	Break for Changing Lecture Hall	
Lecture Hall	Kilsyth (Level 0)	Ochil (Level 1)
	Workshop on Marine Corrosion: Optimising the Performance of Copper Base Alloys in Sea Water Piping Systems <i>Chair(s)</i> U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S	Light Alloys in Transportation: Surface Treatment and Coatings of Aluminium /Fatigue of Titanium A.J. Davenport, University of Birmingham/UK; G.M. Scamans, Innoval Technology, Banbury/UK
09:55 - 10:20	Corrosion and protection of Cu-Ni pipe-work in Naval applications J. Mawella, Ministry of Defence, Bristol//UK	High resolution investigation of the copper-enriched layer formed during surface treatment of copper-containing aluminium alloys F. Roeth, T. Hashimoto, <u>X. Zhou</u> , G.E. Thompson, P. Skeldon, University of Manchester/UK; G. Scamans, Innoval Technology, Banbury/UK; A. Afseth, Alcan Centre de Recherches de Voreppe/F; J. Hunter, Novelis Global Technology Centre, Kingston/CDN
10:20 - 10:45	Research into biosensing and disruption technologies in marine environments K.R. Stokes, DSTL Porton Down, Salisbury/UK	In situ ellipsometric and electrochemical characterisation of oxide formed on aluminium in acetate buffer <u>N. Giskeødegård</u> , Norwegian University of Science and Technology, Trondheim/N; O. Blajiev, A. Hubin, H. Terryn, Vrije Universiteit Brussel/B; O. Hunderi, K. Nisancioglu, Norwegian University of Science and Technology, Trondheim/N
10:45 - 11:10	Use of copper-nickel alloys for seawater applications: experimental feedback and laboratory evaluation <u>A.-M. Grolleau</u> , H. Le Guyader, V. Debout, DCNS Cherbourg/F	Hydrogen trapping mechanism in timetal LCB alloy following high cycle fatigue performance <u>G. Ben-Hamu</u> , D. Eliezer, Ben-Gurion University, Beer-Sheva/IL; L. Wagner, Clausthal University of Technology/D
11:10 - 11:45	Coffee Break	
	Workshop on Marine Corrosion: Optimising the Performance of Copper Base Alloys in Sea Water Piping Systems <i>Chair(s)</i> U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S	
11:45 - 12:10	Chlorination of sea water - no problem for CuNi 90/10 piping? <u>G. Schmitt</u> , IFINKOR-Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D; W. Schleich, KM Europa Metal AG, Osnabrück/D; K. Steinkamp, B. Sagebiel, R. Feser/D, Iserlohn University of Applied Sciences/D	
12:10 - 12:35		
12:35 - 13:00	WP 9: Marine Corrosion – Business Meeting (approx. 1,5 hrs)	
13:00 - 13:25		
13:25 - 13:35	Break for Changing Lecture Hall	
13:35 - 13:50	Closing Remarks	
ca. 13:50	End of Scientific Programme	

Thursday, 11 September 2008

Pentland (Level 3)	Lecture Hall
INVITED PLENARY LECTURE Role of ozone and UV light in atmospheric corrosion of Ag D. Liang, G. Ma, Y. Wu, B. Wyslouzil, H.C. Allen, G.S. Frankel, Ohio State University, Columbus, OH/USA	09:00 - 09:45
Break for Changing Lecture Hall	09:45 - 09:55
Fintry (Level 3)	Lecture Hall
Metallic Coatings	
<i>G.D. Wilcox, Loughborough University/UK</i>	<i>Chair(s)</i>
KEYNOTE: Electrolytic metal coatings and metal finishing using ionic liquids K.S. Ryder, A.P. Abbott, University of Leicester/UK	09:55 - 10:20
The effect of ultrasound on the gold plating of silica nanoparticles for composite solders R. Ashayer, Kings College London/UK; A.J. Cobley, Coventry University/UK; S.H. Mannan, Kings College London/UK; T.J. Mason, Coventry University/UK	10:20 - 10:45
Electrodeposition and corrosion resistance of nanocrystalline white bronze (CuSn) coatings A. Hovestad, TNO Science & Industry, Eindhoven/NL; M. Lekka, University of Trento/I; R.M.R. Willemsen, R.A. Tacken, TNO Science & Industry, Eindhoven/NL; P.L. Bonnora, University of Trento/I	10:45 - 11:10
Coffee Break	11:10 - 11:45
Metallic Coatings	
<i>G.D. Wilcox, Loughborough University/UK</i>	<i>Chair(s)</i>
An investigation on corrosion behavior of duplex hard chromium coatings M.R. Saghii Beyragh, University of Tabriz/IR and Islamic Azad University, Tabriz/IR; S. Khameneh Asl, University of Tabriz/IR; S. Norouzi, Tarbiat Modares University, Tabriz/IR	11:45 - 12:10
Corrosion behaviour of electrodeposited amorphous and nanocrystalline Co-W coatings D. Weston, H. Capel, P.H. Shipway, S.J. Harris, University of Nottingham/UK	12:10 - 12:35
Coatings for use in telescopic joint used in a workover riser system N. Espallargas, R. Johnsen, Norwegian University of Science and Technology, Trondheim/N; L. Lunde, FMC Kongsberg Subsea/N; J. Berget, SINTEF Materials and Chemistry, Trondheim/N	12:35 - 13:00
Electrochemical impedance study (EIS) of aluminium metal spray (AMS): effect of porosity and sealer use T.A. Sumon, S.B. Lyon, University of Manchester/UK	13:00 - 13:25
Break for Changing Lecture Hall	13:25 - 13:35
Closing Remarks	13:35 - 13:50
End of Scientific Programme	ca. 13:50

(Programme subject to change)