

SCIENTIFIC PROGRAMME

MONDAY, SEPTEMBER 10, 2018: LECTURES

Room: 0.1 Auditorium	
Plenary Session	
8:00 - 8:20	EUROCORR Opening Ceremony: Damien Féron, EFC President Agnieszka Królikowska, President of EUROCORR 2018
8:20 - 8:55	Plenary Lecture: Prof. Carmen Andrade Concrete structures: on-site electrochemical techniques and concrete resistivity to predict service life
8:55 - 9:00	European Corrosion Medal Award Ceremony
9:00 - 9:30	European Corrosion Medal Lecture
9:30 - 9:40	EFC Honorary Fellow Award Ceremony
9:40 - 9:45	Cavallaro Medal Ceremony
9:45 - 10:15	Cavallaro Medal Lecture
10:15 - 10:35	Platinum Sponsor Lecture: Michael Thorup Kruse - JOTUN Outlook for the future
10:35 - 10:40	Program & technical information
10:20 - 10:40	Coffee Break

Room: 0.1A S5 -2nd level		Automotive Corrosion
	Chair(s)	
11:00	121450	<u>Christian Leroy</u> (European Aluminium, Brussels, Belgium): Aluminium in cars: market trends and corrosion challenges
11:40	109407	<u>Marina Cornejo</u> (Aleris Rolled Products Germany GmbH, Aachen) / <u>Thomas Hentschel</u> (Hydro Aluminium Rolled Products GmbH, Bonn) / <u>Diana Koschel</u> (Constellium Technology Center, Voreppe, France) / <u>Christine Matthies</u> (TRIMET Aluminium SE, Essen) / <u>Lionel Peguet</u> (Constellium Technology Center, Voreppe, France) / <u>Marcel Rosefort</u> (TRIMET Aluminium SE, Essen) / <u>Christian Schnatterer</u> (Chair of Corrosion and Corrosion Protection, RWTH Aachen University, Aachen) / <u>Elizabeth Szala</u> (Aleris Rolled Products Germany GmbH, Aachen) / <u>Daniela Zander</u> (Chair of Corrosion and Corrosion Protection, RWTH Aachen University, Aachen): A Comparison of Accelerated Corrosion Tests for the Assessment of the Intergranular Corrosion Susceptibility of Bare 6000 Aluminum Sheets
12:00	118852	<u>Carolina Schneiker</u> (Swerea KIMAB, Stockholm Sweden, Sweden) / <u>Bo Rendahl</u> (Swerea KIMAB, Stockholm, Sweden): Impact of pre-treatment on adhesively bonded aluminum used within the automotive industry
12:20	107907	<u>Clément Rochet</u> (CIRIMAT, Université de Toulouse, CNRS, ENSIACET, 4 allée Emile Monso, BP 44362, 31030 Toulouse cedex 4, France, Toulouse, France) / <u>Christine Blanc</u> (CIRIMAT, Université de Toulouse, CNRS, ENSIACET, 4 allée Emile Monso, BP 44362, 31030 Toulouse cedex 4, France, Toulouse, France) / <u>Jean-Paul Harouard</u> (LEONI WIRING SYSTEMS FRANCE, 5 Avenue de Newton, 78180 Montigny-le-Bretonneux, France, Montigny-le-Bretonneux, France) / <u>Adrien Laurino</u> (LEONI WIRING SYSTEMS FRANCE, 5 Avenue de Newton, 78180 Montigny-le-Bretonneux, France, Montigny-le-Bretonneux, France) / <u>Terry Lowe</u> (The George S. Ansell Dept. of Metallurgical and Materials Engineering, Colorado School of Mines, Golden, CO 80401 USA, Golden, United States of America): Influence of equal-channel angular pressing on the microstructure and the corrosion behavior of a 6xxx aluminum alloy for automotive applications
12:40 - 14:00		Lunch time

Room: 0.1A S5 -2nd level		Automotive Corrosion
Chair(s)		C. Leroy / E. Szala
14:00	119860	Wissal Jemmal (Technocentre Renault, Guyancourt, France) / Vincent Vignal (Laboratory ICB, Dijon, France) / Laurent Rougier (Technocentre Renault, Guyancourt, France) / Odile Kergosien (Technocentre Renault, Guyancourt, France) / James Bovin (Technocentre Renault, Guyancourt, France): Anticorrosion modelling in automotive
14:20	115832	Agnieszka Franczak (Elsyca N.V., Leuven, Belgium) / Bart van den Bossche (Elsyca N.V., Leuven, Belgium) / Kerrie Holguin (Ford Motor Company, Dearborn, United States of America) / Niamh Hosking (Ford Motor Company, Dearborn, United States of America) / Mark Nichols (Ford Motor Company, Dearborn, United States of America): New trends in corrosion prevention in the automotive industry
14:40	110127	Jose Cerezo (Toyota Motor Europe NV/SA, Zaventem, Belgium) / Veronique Vandenberghe (Toyota Motor Europe NV/SA, Zaventem, Belgium) / Manuel Molina Estrada (Toyota Motor Europe NV/SA, Zaventem, Belgium): Introduction and implementation challenges of environmentally friendly pre-treatment and E-coat in Toyota
15:00	119202	Anna Buling (ELB Eloxalwerk Ludwigsburg Helmut Zerrer GmbH, Ludwigsburg, Württ) / Jörg Zerrer (ELB Eloxalwerk Ludwigsburg Helmut Zerrer GmbH, Ludwigsburg): Increasing the field for application of magnesium by ultraceramic®: Corrosion and wear protection by plasma electrolytical oxidation (PEO) of Mg alloys
15:20 - 15:50		Coffe Break

Room: 0.1A S5 -2nd level		Automotive Corrosion
Chair(s)		C. Leroy / E. Szala
15:50	103842	Andreas Muhr (voestalpine Stahl GmbH, Linz, Austria) / Klemens Mraczek (voestalpine Stahl GmbH, Linz, Austria) / Bernhard Haneder (voestalpine Stahl GmbH, Linz, Austria) / Ernst Commenda (voestalpine Stahl GmbH, Linz, Austria) / Daniel Meister (voestalpine Stahl GmbH, Linz, Austria) / Thomas Hofmeister (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria): Assessing Hydrogen Susceptibility of Electro-Galvanized Advanced High Strength Steels
16:10	116337	Andreas Drexler (Materials Center Leoben Forschung GmbH (MCL), Leoben, Austria) / Valentin Kokotin (thyssenkrupp Steel Europe AG, Duisburg) / Gregor Manke (Institut für Werkstoffe - Werkstoffprüfung, Bochum) / Klemens Mraczek (voestalpine Stahl GmbH, Linz, Austria) / Clemens Bergmann (BMW Group, München) / Werner Ecker (Materials Center Leoben Forschung GmbH (MCL), Leoben, Austria): Hydrogen Trapping in Dual Phase and Complex Phase Steel Sheets for Automotive Applications
16:30	105167	Cyril NICARD (ArcelorMittalChimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP) - ArcelorMittal Research SA, Maizières-Les-Metz, France) / Christian Allely (ArcelorMittal Research SA, Maizières-Les-Metz, France) / Polina Volovitch (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France): Impact of microstructure on corrosion mechanisms of Al (Si, Zn, Mg) coatings.
16:50	112447	Konrad Tarka (RISE, Borås, Sweden) / Annabelle Jaako (Volvo Car Corporation, Gothenburg, Sweden) / Dan Persson (Swerea KIMAB, Stockholm, Sweden) / Lars-gunnar Johansson (CTH, Gothenburg, Sweden): Thin film pretreatments on painted HDG and CRS - Some laboratory and field experience
17:10	114222	Tiago Machado Amorim (ArcelorMittal, Maizières les Metz, France) / Pascale FELTIN (ARCELORMITTAL Global R&D, Maizières les Metz, Faeroe) / Laurence DOSDAT (Arcelormittal Global R&D, Maizières les Metz, Faeroe) / Raisa Grigorieva (ARCELORMITTAL Global R&d, Maizières les Metz, France) / Christian Allely (ARCELORMITTAL Global R&D, Maizières les Meta, France) / Gregory Leuillier (ARCELORMITTAL Global R&D, Maizières les Mets, France): New Coatings for Press Hardening Steels
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 0.1: Auditorium Level 0		Organic Coatings
	Chair(s)	F. Deflorian / J. Vogelsang
11:00	109607	Yanwen Liu (Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester, United Kingdom) / Xiaorong Zhou (Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester, United Kingdom) / Stuart Lyon (Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester, United Kingdom) / Ali Gholinia (School of Materials, The University of Manchester, Manchester, United Kingdom) / Reza Emad (Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester, United Kingdom) / <u>Simon Gibbon</u> (AkzoNobel, Gateshead, United Kingdom) / Derek Graham (AkzoNobel, Gateshead, United Kingdom): Influence of structure/composition of strontium aluminium polyphosphate pigment in organic coating to their leaching behaviour in sodium chloride solution
11:20	115177	<u>Malgorzata Kopec</u> (Akzo Nobel Chemicals B.V., Deventer, Netherlands) / Brenda Rossenaar (Akzo Nobel Chemicals B.V., Deventer, Netherlands) / Kees van Leerdam (Akzo Nobel Chemicals B.V., Deventer, Netherlands) / Tony Davies (Akzo Nobel Chemicals B.V., Deventer, Netherlands) / Stuart Lyon (University of Manchester, Manchester, United Kingdom) / Peter Visser (AkzoNobel, Paints and Coatings R&D, Sassenheim, Netherlands) / <u>Simon Gibbon</u> (AkzoNobel, Paints and Coatings R&D, Felling, United Kingdom): Migration of anticorrosive pigments in polymer coatings
11:40	113137	<u>Mats Meeusen</u> (Delft University of Technology, Mortsel, Belgium) / Luca Zardet (University of Udine, Udine, Italy) / Francesco Andreatta (University of Udine, Udine, Italy) / Berend Boelen (Tata Steel, IJmuiden, Netherlands) / Herman Terry (Vrije Universiteit Brussel, Brussel, Belgium) / Arjan Mol (Delft University of Technology, Delft, Netherlands) / Lorenzo Fedrizzi (University of Udine, Udine, Italy) / Maria Lekka (University of Udine, Udine, Italy): Methodology of studying corrosion inhibitor efficiency and synergy for coated galvanized steel
12:00	107702	Maral Rahimi (Hempel A/S, Lyngby, Denmark) / Pablo Bernad (hempel A/S, Lyngby, Denmark) / <u>David Morton</u> (Hempel A/S, Lyngby, Denmark) / Benjamin Chaloner-Gill (Chevron Energy Technology Company, Richmond, California, United States of America) / Martin Quintero (Chevron Energy Technology Company, Richmond, California, United States of America) / Erik Graversen (Hempel A/S, Lyngby, Denmark): The impact of surface preparation and contamination on the performance of protective coatings systems
12:20	112507	<u>Joost van Dam</u> (Delft University of Technology, Delft, Netherlands) / Herman Terry (Vrije Universiteit Brussel, Brussels, Belgium) / Arjan Mol (Delft University of Technology, Delft, Netherlands): Interfacial mobility and bulk diffusion of water and ions in a steel-epoxy adhesive bond
12:40 - 14:00		Lunch time

Room 0.1: Auditorium Level 0		Organic Coatings
	Chair(s)	F. Deflorian / J. Vogelsang
14:00	105817	<u>Hideki Katayama</u> (National Institute for Materials Science, Tsukuba, Japan) / Yuichi Ono (Hosei University, Koganei, Japan) / Takaya Akashi (Hosei University, Koganei, Japan): Application of surface potential measurement for deterioration behavior of coated steels
14:20	117892	<u>Arumugam Madhan Kumar</u> (King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia): Surface and Electrochemical behavior of Polyaniline/MoO ₃ coatings on steel by scanning electrochemical microscopy
14:40	103882	<u>Anna Merz</u> (Max Planck Institut für Eisenforschung, Düsseldorf) / Michael Rohwerder (Max Planck Institut für Eisenforschung, Düsseldorf): Investigation of a novel protection mechanism on conducting polymer composite coatings, for corrosion protection
15:00	112277	<u>Marek Twardoch</u> (INM Leibniz Institute for New Materials, Saarbrücken) / Sener Albayrak (INM Leibniz Institute for New Materials, Saarbrücken) / Marlon Jochum (INM Leibniz Institute for New Materials, Saarbrücken) / Carsten Becker-Willinger (INM Leibniz Institute for New Materials, Saarbrücken): Investigations of highly structured Nanomer® barrier coatings with extreme particle content for corrosion protection on mild steel
15:20 - 15:50		Coffe break

Room 0.1: Auditorium Level 0		Organic Coatings
	Chair(s)	A. Królikowska
15:50	102797	<u>Ran Dy Ooi</u> (University of Mons, Mons, Belgium) / Marc Poorteman (University of Mons, Mons, Belgium) / Michele Fedel (University of Trento, Trento, Italy) / Marie-Georges Olivier (University of Mons, Mons, Belgium): Corrosion performance of a hybrid sol-gel coating on HDG steel modified with colloidal silica and disodium sebacate
16.10	109457	<u>Ingrid Milosev</u> (Jozef Stefan Institute, Ljubljana, Slovenia) / Barbara Kapun (Jozef Stefan Institute, Ljubljana, Slovenia) / Ursa Tiringner (Jozef Stefan Institute, Ljubljana, Slovenia) / Damir Hamulic (Jozef Stefan Institute, Ljubljana, Slovenia) / Dolores Zimerl (Jozef Stefan Institute, Ljubljana, Slovenia) / Gavrilo Sekularac (Jozef Stefan Institute, Ljubljana, Slovenia) / Peter Rodic (Jozef Stefan Institute, Ljubljana, Slovenia) / Sandrine Zanna (CNRS Chimie ParisTech, Paris, France) / Antoine Seyeux (CNRS Chimie ParisTech, Paris, France) / Philippe Marcus (CNRS Chimie ParisTech, Paris, France): Field testing of different sol-gel coatings on aluminium alloys suitable for marine applications
16:30	110687	<u>Ying HUO</u> (Laboratoire de Tribologie et Dynamique des Systèmes de Ecole Centrale de Lyon; Laboratoire MATEIS de Institut Nationale de la Science Appliquee de Lyon; Laboratoire des Multimatériaux et Interfaces - UMR 5615 de University Lyon 1, Lyon, France) / Sheng YUAN (Laboratoire MATEIS de Institut Nationale de la Science Appliquee de Lyon , Lyon, France) / Berangere TOURY (Laboratoire des Multimatériaux et Interfaces - UMR 5615 de University Lyon 1, Lyon, France) / Stephane BENAYOUN (Laboratoire de Tribologie et Dynamique des Systèmes de Ecole Centrale de Lyon, Lyon, France) / bernard NORMAND (Laboratoire MATEIS de Institut Nationale de la Science Appliquee de Lyon, Lyon, France): Polymer conformation inducing molecular-level dispersion of graphene in PMC: conductivity and anticorrosion properties
16:50	106512	<u>Luc Perrad</u> (Polyguard / Expartech, Kraainem Kraainem, Belgium): Polymeric mesh backed coating: introduction in western europe and africa
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 0.2: Theatre Level 0		Metallic Coatings
	Chair(s)	M. Lekka / M. Poelman
11:00	119327	<u>Mireille Poelman</u> (Materia Nova, Mons, Belgium) / Grégory Guilbert (Materia Nova, Mons, Belgium) / Marie-Georges Olivier (UMONS, Mons, Belgium): Optimizing process parameters in electroplating to increase corrosion performances
11:20	106892	<u>Sergey Kuznetsov</u> (I.V. Tananaev Institute of Chemistry and Technology , Apatity, Russia): Electrodeposition of tantalum coating on nitinol in molten salt and some properties of the created material
11:40	117397	<u>Halina Krawiec</u> (AGH University of Science and Technology, Krakow, Poland) / Vincent Vignal (ICB, UMR 6303 CNRS - Univ Bourgogne Franche Comté, Dijon, France) / Michal Latkiewicz (AGH University of Science and Technology, Krakow, Poland): Structure and corrosion behaviour of Co-Mo nano-crystalline and Co-Mo/TiO2 nano-composite coatings
12:00	106902	<u>Enrico Bertero</u> (Empa, Thun, Switzerland) / Cristina V. Manzano (Empa, Thun, Switzerland) / Eva Pellicer (UAB, Bellaterra, Spain) / Jordi Sort (UAB, Bellaterra, Spain) / Max Doebeli (ETH, Zürich, Switzerland) / Stefano Mischler (EPFL, Lausanne, Switzerland) / Johann Michler (Empa, Thun, Switzerland) / Laetitia Philippe (Empa, Thun, Switzerland): Electrodeposited FeCrNi stainless steel-like films: influence of impurities and microstructure on corrosion resistance
12:20	105292	<u>Avinash Ingle</u> (Indian Institute of Technology Bombay, Mumbai, India) / V. S. Raja (Indian Institute of Technology Bombay, Mumbai, India) / Prabhat Mishra (Bhabha Atomic Research Centre, Mumbai, India) / J Rangarajan (Indian Institute of Technology Bombay, Mumbai, India): Corrosion resistant quaternary Al-Cr-Mo-N coating on 316L stainless steel bipolar plates for proton exchange membrane fuel cells
12:40 - 14:00		Lunch time

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 0.2: Theatre Level 0		Metallic Coatings
	Chair(s)	<i>M. Lekka / M. Poelman</i>
14:00	113567	<u>Mariia Stepanova</u> (Norwegian University for Science and Technology, Trondheim, Norway) / <u>Otto Lunder</u> (SINTEF Materials and Chemistry, Trondheim, Norway) / <u>Jan Halvor Nordlien</u> (Hydro, Håvik, Norway) / <u>Kemal Nisancioglu</u> (Norwegian University for Science and Technology, Trondheim, Norway): Self-corrosion of zinc-rich coatings on aluminium in chloride solution
14:20	113457	<u>Alexander Mertke</u> (University of Applied Sciences South Westphalia, Iserlohn) / <u>Ralf Feser</u> (University of Applied Sciences South Westphalia, Iserlohn) / <u>Jörg Meyer</u> (Hamm-Lippstadt University of Applied Sciences, Lippstadt) / <u>Christian Thomas</u> (Hamm-Lippstadt University of Applied Sciences, Lippstadt) / <u>Tekie Ogbazghi</u> (Hamm-Lippstadt University of Applied Sciences, Lippstadt): Corrosion kinetics of thermally sprayed zinc and zinc aluminum coatings in aqueous media considering porosity
14:40	115632	<u>Ruben Offoiach</u> (University of Udine, Udine, Italy) / <u>Maria Lekka</u> (University of Udine, Udine, Italy) / <u>Alex Lanzutti</u> (University of Udine, Udine, Italy) / <u>Jesus Manuel Vega</u> (CIDETEC, San Sebastian, Spain) / <u>Eva Garcia-Lecina</u> (CIDETEC, San Sebastian, Spain) / <u>Lorenzo Fedrizzi</u> (University of Udine, Udine, Italy) / <u>Vanesa Martinez-Nogues</u> (CIDETEC, San Sebastian, Spain): Tribocorrosion study of Ni/B coatings with low B content
15:00	119657	<u>Beata Kucharska</u> (Warsaw University of Technology, Warszawa, Poland) / <u>Jerzy Robert Sobiecki</u> (Warsaw University of Technology, Warszawa, Poland): The corrosion properties of Ni/Al ₂ O ₃ /PTFE composite coatings exhibited in NaCl and CMA solutions
15:20 - 15:50		Coffe Break

Room 0.2: Theatre Level 0		Metallic Coatings
	Chair(s)	<i>K. Ogle / R. Feser</i>
15:50	109182	<u>Donya Ahmadkhanaha</u> (Jönköping University, Jönköping, Sweden): Effect of heat treatment on properties of pure and composite NiP coatings
16:10	111902	<u>Lech Kwiatkowski</u> (Institute of Precision Mechanics, Warsaw, Poland) / <u>Vasyl Pokhmurski</u> (Karpenko Physico-Mechanical Institute, National Academy of Sciences of Ukraine, Lviv, Ukraine) / <u>Ivan Zin</u> (Karpenko Physico-Mechanical Institute, National Academy of Sciences of Ukraine, Lviv, Ukraine) / <u>Andriy Kytsya</u> (Karpenko Physico-Mechanical Institute, National Academy of Sciences of Ukraine, Lviv, Ukraine) / <u>Sergiy Korniy</u> (Karpenko Physico-Mechanical Institute, National Academy of Sciences of Ukraine, Lviv, Ukraine) / <u>Yaroslav Zin</u> (Karpenko Physico-Mechanical Institute, National Academy of Sciences of Ukraine, Lviv, Ukraine): Corrosion inhibition of aluminium alloy by pigments based on ion exchanged zeolite
16:30	115272	<u>Eva Garcia-Lecina</u> (CIDETEC, San Sebastián, Spain) / <u>Asier Salicio-Paz</u> (CIDETEC, San Sebastián, Spain) / <u>Hans-Jürgen Grande</u> (CIDETEC, San Sebastián, Spain) / <u>Vanesa Martínez-Nogués</u> (CIDETEC, San Sebastián, Spain) / <u>Eva Pellicer</u> (Universitat Autònoma de Barcelona, Bellaterra, Spain) / <u>Jordi Sort</u> (Universitat Autònoma de Barcelona / Institució Catalana de Recerca i Estudis Avançats, Bellaterra / Barcelona, Spain) / <u>Ruben Offoiach</u> (University of Udine, Udine, Italy) / <u>Maria Lekka</u> (University of Udine, Udine, Italy): Corrosion resistance and tribo-corrosion behaviour of electroless NiP multilayered coatings
16:50	105972	<u>Mustafa Kocabas</u> (Selcuk University, Konya, Turkey) / <u>Michele Curioni</u> (University of Manchester, Manchester, United Kingdom) / <u>Nurhan Cansever</u> (Yildiz Technical University, İstanbul, Turkey): The effect of anodic oxidation conditions on the structure of dual pre-treatment electroless nickel coating on AA1050 surface
17:10	114117	<u>Abdel Hamid Zeinab</u> (CMRDI, He, Egypt): Effect of chemical composition of galvanized bath and substrate on the behavior of galvanized steel
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 3.1: Cameral Level 3		Mechanisms & Methods
	Chair(s)	
		<i>J. M. C. Mol</i>
11:00	104602	<u>Philippe Marcus</u> (CNRS-Chimie ParisTech, Paris, France) / <u>Pauline Cornette</u> (Chimie ParisTech, Paris, France) / <u>Sandrine Zanna</u> (CNRS-Chimie ParisTech, Paris, France) / <u>Dominique Costa</u> (CNRS-Chimie ParisTech, Paris, France) / <u>Antoine Seyeux</u> (CNRS-Chimie ParisTech, Paris, France): A Comparison of Surface Oxide Layers Properties on Al and Al ₂ Cu Using Surface Analytical Techniques (XPS and ToF-SIMS) and DFT Calculations
11:20	106007	<u>Cem Örneek</u> (KTH Royal Institute of Technology, Stockholm, Sweden) / <u>Christofer Leygraf</u> (KTH Royal Institute of Technology, Stockholm, Sweden) / <u>Jinshan Pan</u> (KTH Royal Institute of Technology, Stockholm, Sweden): Meaning of the Volta Potential and Its Relevance to Corrosion Science - Fundamental and Practical Aspects
11:40	105097	<u>Zoi Kefallinou</u> (University of Manchester, Manchester, United Kingdom) / <u>Xiaorong Xhou</u> (The University of Manchester, Manchester, United Kingdom) / <u>Michele Curioni</u> (The University of Manchester, Manchester, United Kingdom): Electrochemical testing practices of environmentally-friendly aerospace coatings for corrosion performance assessment.
12:00	114682	<u>Alexander Lutz</u> (Vrije Universiteit Brussel, Brussels, Belgium) / <u>Loïc Malet</u> (Université Libre de Bruxelles, Bruxelles, Belgium) / <u>Jean Dille</u> (Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil) / <u>Linsey Lapeire</u> (Ghent University, Ghent, Belgium) / <u>Kim Verbeken</u> (Ghent University, Ghent, Belgium) / <u>Stephane Godet</u> (Université Libre de Bruxelles, Bruxelles, Belgium) / <u>Herman Terryn</u> (Vrije Universiteit Brussel, Brussels, Belgium) / <u>Iris De Graeve</u> (Vrije Universiteit Brussel, Brussels, Belgium): Effect of Zn on Al-Mg-Si-Cu alloys - A Step Towards the Understanding of Preferential Grain Etching
12:20	114572	<u>Reynier Revilla</u> (Vrije Universiteit Brussel (VUB), Brussels, Belgium) / <u>Iris De Graeve</u> (Vrije Universiteit Brussel (VUB), Brussels, Belgium) / <u>Tim Rubben</u> (Vrije Universiteit Brussel (VUB), Brussel, Belgium): Influence of post heat treatments and Si content on the corrosion behavior of additive manufactured AlSiMg alloys
12:40 - 14:00		Lunch time

Room 3.1: Cameral Level 3		Mechanisms & Methods
	Chair(s)	
		<i>P. Marcus</i>
14:00	117772	<u>Yafeng Chen</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Zhi Fang</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Enhui Wang</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Xinmei Hou</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Kuochih Chou</u> (University of Science and Technology Beijing, Beijing, China PR): Adsorption and reaction of oxygen and water on wurtzite AlN (0001) surface: First-principles study
14:20	113067	<u>Matic Poberznik</u> (Jozef Stefan Institute, Ljubljana, Slovenia) / <u>Dominique Costa</u> (ENSCP Chimie Paristech, Paris, France) / <u>Anton Kokalj</u> (Jozef Stefan Institute, Ljubljana, Slovenia): Bonding of Silanols to Oxidized Aluminum Surfaces: an insight from DFT modeling
14:40	109192	<u>Ali Kosari</u> (Department of Materials Science and Engineering, Delft University of Technology, Delft, Netherlands) / <u>Peter Visser</u> (Research Development and Innovation, AkzoNobel, Sassenheim, Netherlands) / <u>Peyman Taheri</u> (Department of Materials Science and Engineering, Delft University of Technology, Delft, Netherlands) / <u>Frans Tichelaar</u> (Kavli Institute of Nanoscience, Delft University of Technology, Delft, Netherlands) / <u>Henny Zandbergen</u> (Kavli Institute of Nanoscience, Delft University of Technology, Delft, Netherlands) / <u>Herman Terryn</u> (Department of Materials and Chemistry, Research Group Electrochemical and Surface Engineering (SURF), Vrije Universiteit Brussel, Brussels, Belgium) / <u>Arjan Mol</u> (Department of Materials Science and Engineering, Delft University of Technology, Delft, Netherlands): In-situ transmission electron microscopy for corrosion inhibition study of alloys; advantages and challenges
15:00	107042	<u>Herman Terryn</u> (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / <u>Francesca Cavezza</u> (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / <u>Pletincxs Sven</u> (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / <u>Kristof Marcoen</u> (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / <u>Matthieu Boehm</u> (Constellium Technology Center, Voreppe, France) / <u>Tom Hauffman</u> (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium): Probing the chemical interaction between organophosphorus based conversion coatings and aluminium oxide on a nanoscale level using AFM-IR
15:20 - 15:50		Coffe Break

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.1: Cameral Level 3		Mechanisms & Methods
	Chair(s)	
		<i>H. Terry</i>
15:50	119400	<i>Silvar Kallip</i> (CICECO Aveiro Institute of Materials, Department of Materials and Ceramics Engineering, Aveiro, Portugal) / <i>Tõnis Oppe</i> (Tehnolabor OÜ, Tallinn, Estonia) / <i>Erik Levoll</i> (Tehnolabor OÜ, Tallinn, Estonia) / <i>Marco Oliveira</i> (CICECO Aveiro Institute of Materials, Department of Materials and Ceramics Engineering, Aveiro, Portugal) / <i>Alexandre Bastos</i> (CICECO Aveiro Institute of Materials, Department of Materials and Ceramics Engineering, Aveiro, Portugal) / <i>Mario Ferreira</i> (CICECO Aveiro Institute of Materials, Department of Materials and Ceramics Engineering, Aveiro, Portugal) / <i>Mikhail Zheludkevich</i> (MagIC—Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht, Geesthacht): 3D resolved topographical SVET observation of localized and galvanic corrosion situations
16:10	119617	<i>Claudia Merola</i> (TU Wien, Vienna, Austria): Corrosion in nanoconfinement of Aluminium and its alloys
16:30	115032	<i>Mariana Xavier Milagre</i> (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / <i>Caruline de Souza Carvalho Machado</i> (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / <i>João Victor Araujo</i> (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / <i>Uyime Donatus</i> (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / <i>Vishnu Mogili</i> (Laboratório Nacional de Nanotecnologia, Campinas, Brazil) / <i>Isolda Costa</i> (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / <i>Antonello Astarita</i> (University of Naples “Federico II”, Napoli, Italy): EXFOLIATION SUSCEPTIBILITY OF AA2098-T351 Al-Cu-Li ALLOYS WELDING BY FRICTION STIR WELDING (FSW)
16:50	114457	<i>Bruno Burmas</i> (Norwegian University of Science and Technology, Trondheim, Norway) / <i>Hiroki Habazaki</i> (Hokkaido University, Sapporo, Japan) / <i>Otto Lunder</i> (SINTEF, Trondheim, Norway) / <i>Kemal Nisancioglu</i> (Norwegian University of Science and Technology, Trondheim, Norway): TEM Characterization of AC Acid-Etched Aluminium Alloy Surfaces
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
11:00	108762	<i>Toshiyuki Sunaba</i> (INPEX CORPORATION, Tokyo, Japan) / <i>Susumu Hirano</i> (INPEX CORPORATION, Tokyo, Japan): Temperature dependence of pitting potentials for 17Cr stainless steels in CO2 containing solution
11:20	104432	<i>Yasuhide Ishiguro</i> (JFE Steel Corporation, Handa, Japan) / <i>Takashi Kawano</i> (JFE Steel Corporation, Kawasaki, Japan) / <i>Kazuki Fujimura</i> (JFE Steel Corporation, Handa, Japan): Stability of buffer solution through electrochemical approach for stainless steel OCTG material to evaluate SSC.
11:40	105927	<i>Tao Zhang</i> (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / <i>Yang Zhao</i> (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / <i>Fuhui Wang</i> (Northeastern University, Shenyang, China PR): Corrosion behavior of HP-13Cr stainless steel under extremely aggressive oilfield environment: Part I. Effect of flow-induced shear stress
12:00	105152	<i>Riccardo Rizzo</i> (Technical University of Denmark, Kgs Lyngby Kgs Lyngby, Denmark) / <i>Rajan Ambat</i> (Technical University of Denmark, Kgs Lyngby, Denmark) / <i>Shivangi Gupta</i> (Technical University of Denmark, Kgs. Lyngby, Denmark): Experimental evaluation of the behavior of L80 and L80-13Cr in different produced waters in CO2, CO2-H2S atmosphere.
12:20	102567	<i>Martin Monnot</i> (Industeel, 56 rue Clémenceau, 71200 Le Creusot, Le Creusot, France) / <i>Bastien Chareyre</i> (Industeel, 56 rue Clémenceau, 71200 Le Creusot, Le Creusot, France) / <i>Sandra Le Manchet</i> (Industeel, 56 rue Clémenceau, 71200 Le Creusot, Le Creusot, France): Corrosion resistance of 625 and 825 clad plates in seawater and sour environment
12:40 - 14:00		Lunch time

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	<i>Chair(s)</i>	
14:00	107392	<u>Masayuki Sagara</u> (Nippon Steel & Sumitomo Metal Corporation, Amagasaki, Japan) / <u>Yuhei Suzuki</u> (Nippon Steel & Sumitomo Metal Corporation, Amagasaki, Japan) / <u>Masaki Ueyama</u> (Nippon Steel & Sumitomo Metal Corporation, Amagasaki, Japan) / <u>Takashi Doi</u> (Nippon Steel & Sumitomo Metal Corporation, Amagasaki, Japan) / <u>Hisashi Amaya</u> (Nippon Steel & Sumitomo Metal Corporation, Wakayama, Japan): Surface Film Formation of CRAs after Long Term Exposure to Corrosive Gas Well
14:20	108562	<u>Klaus Ohla</u> (Haynes International, Illerkirchberg) / <u>Helmuth Klapper</u> (Baker Hughes, a GE Company, Celle) / <u>Hendrik John</u> (Consultant, Celle) / <u>Bernd Holper</u> (Schoeller Bleckmann Oilfield Technology, Ternitz, Austria): Corrosion Resistance of Hastelloy C-22HS alloy in high demanding oilfield environments
14:40	113297	<u>Helmuth Sarmiento Klapper</u> (Baker Hughes, a GE Company, Celle) / <u>Daria Gisinger</u> (Baker Hughes, a GE Company, Celle): Influence of Microstructural Particularities on the Pitting Corrosion Resistance of Alloy 718 in Chloride-containing Environments at Elevated Temperatures
15:20 - 15:50		Coffe Break

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
15:50 - 17:30		WP 13 Meeting
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 3.3: S4 Level 3		Nuclear Corrosion
	<i>Chair(s)</i>	<i>S. Ritter/ L. Martinelli</i>
11:00	104202	<u>Fraser King</u> (Integrity Corrosion Consulting Ltd, Nanaimo, Canada) / <u>Christina Lilja</u> (Swedish Nuclear Fuel and Waste Management Company, Solna, Sweden) / <u>Scott Briggs</u> (York University, Torontot, Canada) / <u>Peter Keech</u> (Nuclear Waste Management Organization, Toronto, Canada) / <u>Mehran Behazin</u> (Nuclear Waste Management Organization, Toronto, Canada): Probabilistic pitting assessment for copper nuclear waste canisters
11:20	103012	<u>Christina Lilja</u> (Swedish Nuclear Fuel and Waste Management Company, Solna, Sweden) / <u>Fraser King</u> (Integrity Corrosion Consulting Ltd, Nanaimo, Canada) / <u>Ignasi Puigdomenech</u> (Swedish Nuclear Fuel and Waste Management Company, Solna, Sweden) / <u>Olli Partanen</u> (Posiva Oy, Olkiluoto, Finland): Thermodynamic Considerations of the Corrosion of Copper Nuclear Waste Canisters
11:40	104692	<u>Magdalena Krol</u> (York University, Toronto Toronto, Canada) / <u>Mohd Moinuddin</u> (York University, Toronto, Canada) / <u>Scott Briggs</u> (York University, Toronto, Canada) / <u>Peter Keech</u> (Nuclear Waste Management Organization, Toronto, Canada) / <u>Mehran Behazin</u> (Nuclear Waste Management Organization, Toronto, Canada) / <u>Miroslav Kolár</u> (LS Computing Ltd, Elkford, Canada) / <u>Fraser King</u> (Integrity Corrosion Consulting Ltd, Nanaimo, Canada): Mixed-potential Modelling of Copper Nuclear Waste Containers
12:00	116017	<u>Joakim Halldin Stenlid</u> (Fysikum, Stockholm University, Stockholm, Sweden) / <u>A Johannes Johansson</u> (Swedish Nuclear Fuel and Waste Management Co (SKB), Solna, Sweden) / <u>Lars GM Pettersson</u> (Fysikum, Stockholm University, Stockholm, Sweden): Insights into the Atomic Scale Details of Sulphide Induced Copper Corrosion
12:20	112357	<u>Jari Aromaa</u> (Aalto University, Espoo, Finland) / <u>Alexander Chernyaev</u> (Aalto University, Espoo, Finland) / <u>Atte Tenitz</u> (VTT, Espoo, Finland) / <u>Mari Lundström</u> (Aalto University, Espoo, Finland): The effect of reaction product layers on copper corrosion in repository conditions
12:40 - 14:00		Lunch time

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	
		<i>C. Lilja / N. Diomidis</i>
14:00	119137	Andrés Gabriel Muñoz (Gesellschaft für Anlagen und Reaktorsicherheit, GRS gGmbH, Braunschweig) / Dieter Schild (Institute for Nuclear Waste Disposal (INE), Karlsruhe Institute of Technology, Karlsruhe): Corrosion of austenitic steel in geochemical near-field conditions of high-level radioactive waste rock repositories
14:20	102587	Valérie Deydier (Andra, Chatenay-Malabry, France) / Didier Crusset (Andra, Chatenay-Malabry, France) / René Sabot (University of La Rochelle, La Rochelle, France) / Marc Jeannin (University of La Rochelle, La Rochelle, France) / Philippe Refait (University of La Rochelle, La Rochelle, France) / Mathieu Robineau (University of La Rochelle / Andra, La Rochelle, France): Corrosion of carbon steel in aerated cement grout at 80°C
14:40	103897	Michel Schlegel (CEA Saclay, Gif-sur-Yvette, France) / Sophia Necib (ANDRA, Meuse/haute Marne Center, Bure, France) / Manuel Pelletier (Université de Lorraine, Vandoeuvre-lès-Nancy, France) / Cécile Blanc (CEA Saclay, Gif-sur-Yvette, France) / Jérôme Varlet (CEA Saclay, Gif-sur-Yvette, France) / Eddy Foy (CEA Saclay, Gif-sur-Yvette, France) / Yannick Linard (ANDRA Meuse/Haute Marne center, Bure, France): Carbon steel corrosion under conditions relevant to long-term disposal of nuclear waste: influence of partial confinement
15:00	102477	Jan Stouřil (University of Chemistry and Technology, Prague, Czech Republic) / Milan Kouřil (University of Chemistry and Technology, Prague, Czech Republic) / David Dobrev (UJV, Rez, Czech Republic) / Jenny Gondolli (UJV, Rez, Czech Republic): Canister Lifetime Prediction in the Czech DGR Concept
15:20 - 15:50		Coffe Break

Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	
		<i>F. King / J. Stouřil</i>
15:50	114057	Nikitas Diomidis (Nagra, Wetingen, Switzerland) / Nicholas Senior (CanmetMATERIALS, Hamilton, Canada): Anoxic Corrosion of Steel in a Swiss L/ILW Repository Environment
16.10	111132	Hélène Lotz (Laboratoire Archéomatériaux et Prévission de l'Altération, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay, Gif-sur-Yvette, France) / Delphine Neff (Laboratoire Archéomatériaux et Prévission de l'Altération, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay, Gif-sur-Yvette, France) / Florence Mercier (Laboratoire Archéomatériaux et Prévission de l'Altération, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay, Gif-sur-Yvette, France) / Christian Bataillon (CEA, DEN, DPC, SCCME, Laboratoire d'Etude de la Corrosion Aqueuse, Gif-sur-Yvette, France) / Eddy Foy (Laboratoire Archéomatériaux et Prévission de l'Altération, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay, Gif-Sur-Yvette, France) / Philippe Dillmann (Laboratoire Archéomatériaux et Prévission de l'Altération, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay, Gif-sur-Yvette, France): Influence of environmental parameters and metal microstructure on the corrosion mechanisms of iron anoxic argileous media.
16:30	101587	Sophia Necib (Andra, Bure, France) / Crina Bucur (Raten ICN, Mioveni, Romania) / Sébastien Caes (SCK.CEN, Brussels, Belgium) / Florence Cochin (Areva, Paris, France) / Manuela Fulger (Raten ICN, Mioveni, Romania) / Jean-Marie Gras (Consultant Andra, Chatenay-Malabry, France) / Michel Herm (KIT, Eggenstein-Leopoldshafen) / Laetitia Kasprzak (CEA, Saclay, France) / Solène Legand (CEA, Saclay, France) / Volker Metz (KIT, Eggenstein-Leopoldshafen) / Stéphane Perrin (CEA, Bagnols-sur-Cèze, France) / Tomofumi Sakuragi (RWMC, Tokyo, France) / Tomo Suzuki-Muresan (Subatech, Nantes, France): CORROSION OF IRRADIATED ZIRCALOYS IN GEOLOGICAL DISPOSAL CONDITIONS
16:50	111597	Marie Romedenne (CEA, GIF SUR YVETTE, France) / Daniel Monceau (CIRIMAT, TOULOUSE, France) / Fabien Rouillard (CEA, GIF SUR YVETTE, France): Chemical interaction of Austenitic and Ferritic Steels with B4C in High Temperature Liquid Sodium
17:10	110072	Pavel Sialini (University of Chemistry and Technology Prague, Prague, Czech Republic) / Vera Vrtilkova (UJP Prague, Prague, Czech Republic) / Petr Sajdl (University of Chemistry and Technology Prague, Prague, Czech Republic): Analysis of oxide layers on zirconium alloys by Raman spectroscopy of oxygen 18
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 3.4: S4 Level 3		Microbial Corrosion
	Chair(s)	<i>P. Cristiani</i>
11:00	121545	Yi Yang (Corrosion and Protection Division, Shenyang National Laboratory for Material Sciences, Northeastern University, Shenyang, China PR) / <u>Dake Xu</u> (Corrosion and Protection Division, Shenyang National Laboratory for Material Sciences, Northeastern University, Shenyang, China PR): Microbiologically influenced corrosion of dental metal materials
11:20	111707	<u>Agata Sotniczuk</u> (The Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland) / <u>Agnieszka Kwiatek</u> (The Faculty of Biology, University of Warsaw, Warsaw, Poland) / <u>Donata Kuczynska</u> (The Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland) / <u>Halina Garbacz</u> (The Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland): Biocorrosion of nanocrystalline titanium in the presence of <i>Streptococcus mutans</i>
11:40	105752	<u>Christoph Tanne</u> (Federal Institute for Geosciences and Natural Resources (BGR), Hannover) / <u>Axel Schippers</u> (Federal Institute for Geosciences and Natural Resources (BGR), Hannover): Electrochemical biohydrometallurgy for the dissolution of recalcitrant chalcopyrite under corrosive conditions
12:00	114782	<u>Leonardo Iannucci</u> (Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino, Torino, Italy) / <u>Marco Parvis</u> (Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino, Torino, Italy) / <u>Emma Angelini</u> (Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino, Torino, Italy) / <u>Sabrina Grassini</u> (Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino, Torino, Italy) / <u>Pierangela Cristiani</u> (Ricerca sul Sistema Energetico (RSE SpA), Milano, Italy): Corrosion assessment of steel in a microbial fuel cell measuring system
12:20	119800	<u>Maritza Paez</u> (Departamento de Química de los Materiales Universidad de Santiago de Chile, Santiago de Chile, Chile) / <u>Miguel Gulppi</u> (Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago de Chile, Chile) / <u>Manuel Azocar</u> (Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago de Chile, Chile) / <u>Mamie Sancy</u> (Escuela de Construcción Civil, Pontificia Universidad Católica de Chile, Santiago de Chile, Chile) / <u>Lisa Muñoz</u> (Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago de Chile, Chile): Understanding the enzymatic approach in Biocorrosion
12:40 - 14:00		Lunch time

Room 3.4: S4 Level 3		Microbial Corrosion
	Chair(s)	<i>R. Bassequy / P. Cristiani</i>
14:00	107142	<u>Luis Caro-Lara</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Ignacio Vargas</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Esteban Ramos-Moore</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Magdalena Walczak</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Carlos Galarce</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Gonzalo E. Pizarro</u> (Pontificia Universidad Católica de Chile, Santiago, Chile): Enhancing the contact killing effect of metallic copper by surface texturing to prevent microbially induced corrosion
14:20	107177	<u>Jiaqi Luo</u> (Saarland University, Saarbruecken) / <u>Christina Hein</u> (Saarland University, Saarbruecken) / <u>Jean-François Pierson</u> (University of Lorraine, Nancy, France) / <u>Frank Mücklich</u> (Saarland University, Saarbruecken): Role and effects of corrosion during the measurement of copper's antibacterial efficiency
14:40	115592	<u>Tomas Cernousek</u> (Research Centre Rez, Rez, Czech Republic) / <u>Hana Kovarova</u> (Research Centre Rez, Rez, Czech Republic) / <u>Jana Steinova</u> (Technical University of Liberec, Liberec, Czech Republic) / <u>Rojina Shrestha</u> (Technical University of Liberec, Liberec, Czech Republic) / <u>Alena Sevcu</u> (Technical University of Liberec, Liberec, Czech Republic) / <u>Roman Spanek</u> (Technical University of Liberec, Liberec, Czech Republic) / <u>Jakub Kokinda</u> (Research Centre Rez, Rez, Czech Republic): The influence of temperature on biofilm formation under anaerobic conditions
15:00	112422	<u>Marco Hampel</u> (Federal Institute for Materials Research and Testing, Berlin) / <u>Matthias Dimper</u> (Federal Institute for Materials Research and Testing, Berlin) / <u>Matthias Schenderlein</u> (Federal Institute for Materials Research and Testing, Berlin) / <u>Ozlem Ozcan</u> (Federal Institute for Materials Research and Testing, Berlin): Resolving local processes during microbially influenced corrosion by means of scanning electrochemical microscopy
15:20 - 15:50		Coffe Break

Room 3.4: S4 Level 3		Microbial Corrosion
	Chair(s)	
		<i>R. Basseguy</i>
15:50	112717	Elise Gardin (CNRS - Chimie ParisTech / APERAM, Isbergues, France) / Sandrine Zanna (CNRS - Chimie ParisTech, Paris, France) / Antoine Seyeux (CNRS - Chimie ParisTech, Paris, France) / <u>Audrey Allion-Maurer</u> (APERAM, Isbergues, France) / Philippe Marcus (CNRS - Chimie ParisTech, Paris, France): Microbiologically Influenced Corrosion mechanisms of 2304 Duplex Stainless Steel during the Pseudoalteromonas NCIMB 2021 biofilm growth: a ToF-SIMS, XPS and electrochemical characterization
16:10	110542	<u>Anne-Ilham EL MENJRA</u> (CNRS - IRCP - Research Group Physical Chemistry of Surfaces, Paris, France) / Philippe MARCUS (CNRS - Chimie Paris Tech, PSL University, Institut de Recherche de Chimie Paris, Research Group Physical Chemistry of Surfaces, Paris, France) / Antoine SEYEUUX (CNRS - Chimie Paris Tech, PSL University, Institut de Recherche de Chimie Paris, Research Group Physical Chemistry of Surfaces, Paris, France): Identification of the origin of metallic sulfides using a Time-of-Flight Secondary Ion Mass Spectrometry analytical method
16:30	105627	<u>Nina Wurzler</u> (Federal Institute for Materials Research and Testing, Berlin) / Sherin Kleinbub (Federal Institute for Materials Research and Testing, Berlin) / Julia Witt (Federal Institute for Materials Research and Testing, Berlin) / Andrea Koerdt (Federal Institute for Materials Research and Testing, Berlin) / Ozlem Ozcan (Federal Institute for Materials Research and Testing, Berlin): Effect of conditioning layers on the attachment and biofilm formation of electroactive bacteria on stainless steel surfaces
16:50	114552	<u>Leena Carpén</u> (VTT Technical Research Centre of Finland Ltd, Espoo, Finland) / Pauliina Rajala (VTT Technical Research Centre of Finland Ltd, Espoo, Finland) / Tuomo Kinnunen (VTT Technical Research Centre of Finland Ltd, Espoo, Finland): Real-time corrosion monitoring system under in situ conditions of crystalline groundwater
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 3.5 & 3.6: S4 Level 3		Atmospheric Corrosion
	Chair(s)	
		<i>T. Prosek</i>
11:00	121960	<u>Stuart Lyon</u> (School of Materials, University of Manchester, Manchester, United Kingdom): Quantitative determination of rust porosity
11:40	107322	James Dante (Southwest Research Institute, San Antonio, United States of America) / Erica Macha (Southwest Research Institute, San Antonio, United States of America) / Erin DeCarlo (Southwest Research Institute, San Antonio, United States of America) / John McFarland (Southwest Research Institute, San Antonio, United States of America): Development of Atmospheric Corrosion Prediction Algorithms
12:00	116007	<u>Agnieszka Franczak</u> (Elsyca N.V., Leuven, Belgium) / Bart van den Bossche (Elsyca N.V., Leuven, Belgium): Atmospheric corrosion through the eyes of a computer modelling
12:20	115482	<u>Martin Babutzka</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Jens Lehmann (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Andreas Burkert (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin): Field exposure studies under sheltered and unsheltered conditions at different test sites in northern and eastern Germany
12:40 - 14:00		Lunch time

Room 3.5 & 3.6: S4		Atmospheric Corrosion
Level 3		
	Chair(s)	
14:00	102452	<u>C. Leygraf</u> <u>Manuel Morcillo</u> (National Centre for Metallurgical Research (CENIM/CSIC), Madrid, Spain) / <u>Jenifer Alcantara</u> (National Centre for Metallurgical Research (CENIM/CSIC), Madrid, Spain) / <u>Belen Chico</u> (National Centre for Metallurgical Research (CENIM/CSIC), Madrid, Spain) / <u>Daniel de la Fuente</u> (National Centre for Metallurgical Research (CENIM/CSIC), Madrid, Spain): Marine atmospheric corrosion of carbon steel. Issues pending
14:20	115687	<u>Sabrina Grassini</u> (Politecnico di Torino, Torino, Italy) / <u>Emma Angelini</u> (Politecnico di Torino - Dipartimento di Scienza Applicata e Tecnologia, Torino, Italy) / <u>Elisabetta Di Francia</u> (Politecnico di Torino - Dipartimento di Scienza Applicata e Tecnologia, Torino, Italy) / <u>Leonardo Iannucci</u> (Politecnico di Torino - Dipartimento di Elettronica e Telecomunicazioni, Torino, Italy) / <u>Alessio Gullino</u> (Politecnico di Torino - Dipartimento di Elettronica e Telecomunicazioni, Torino, Italy) / <u>Marco Parvis</u> (Politecnico di Torino - Dipartimento di Elettronica e Telecomunicazioni, Torino, Italy) / <u>Luciano Pia</u> (Architect, Torino, Italy) / <u>Panayota Vassiliou</u> (National Technical University of Athens, Athens, Greece): In situ atmospheric corrosion assessment of weathering steel structures
14:40	113612	<u>Katerina Kreislova</u> (SVÚOM Ltd., Prague, Czech Republic) / <u>Vit Krivy</u> (VSB-TU Ostrava, Ostrava, Czech Republic) / <u>Hana Geiplova</u> (SVÚOM Ltd., Prague, Czech Republic) / <u>Zdenek Bartak</u> (SVÚOM Ltd., Prague, Czech Republic): Development of weathering steel patina in low corrosive environment
15:00	104747	<u>Teruhisa Tatsuoka</u> (Tokyo Electric Power Company Holdings, Inc. / TEPCO Research Institute, Yokohama, Japan) / <u>Masanori Osada</u> (Tokyo Electric Power Company Holdings, Inc. / TEPCO Research Institute, Yokohama, Japan) / <u>Nobuhiro Kishigaki</u> (Tokyo Electric Power Company Holdings, Inc. / TEPCO Research Institute, Yokohama, Japan) / <u>Yoichi Tsuchida</u> (TEPCO Power Grid, Inc. / Transmission Dept., Tokyo, Japan) / <u>Yoshimasa Saito</u> (TEPCO Power Grid, Inc. / Transmission Dept., Tokyo, Japan) / <u>Motoyuki Yamazaki</u> (TEPCO Power Grid, Inc. / Transmission Dept., Tokyo, Japan) / <u>Tomoki Kitashima</u> (TEPCO Power Grid, Inc. / Transmission Dept., Tokyo, Japan): Mapping of Zinc Corrosion Rate, Time of Wetness and Concentration of Depositions
15:20 - 15:50		Coffe Break

Room 3.5 & 3.6: S4		Atmospheric Corrosion
Level 3		
	Chair(s)	
15:50	103727	<u>M. Morcillo</u> <u>Nathalie Le Bozec</u> (French Corrosion Institute, Brest, France) / <u>Dominique Thierry</u> (French corrosion Institute, Brest, France): Atmospheric corrosion of hot dip galvanized and zinc alloyed coated steel in ammonia and ammonium chloride.
16:10	105907	<u>Chun-Hung Wu</u> (Max-Planck-Institut Für Eisenforschung GmbH, Düsseldorf) / <u>Michael Rohwerder</u> (Max-Planck-Institut Für Eisenforschung GmbH, Düsseldorf): Reliable potentiometric analysis of hydrogen permeation through air-formed passive iron oxide film by using Scanning Kelvin Probe microscopy
16:30	102822	<u>Gabriela Schimo-Aichhorn</u> (CEST Competence Centre for Electrochemical Surface Technology, Linz, Austria) / <u>Ines Traxler</u> (CEST Competence Centre for Electrochemical Surface Technology, Linz, Austria) / <u>Andreas Muhr</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Gerald Luckeneder</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Hubert Duchaczek</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Karl-Heinz Stellnberger</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Josef Faderl</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Darya Rudomilova</u> (University of Chemistry and Technology Prague, Technopark Kralupy, Kralupy nad Vltavou, Czech Republic) / <u>Tomas Prosek</u> (University of Chemistry and Technology Prague, Technopark Kralupy, Kralupy nad Vltavou, Czech Republic) / <u>Christoph Kleber</u> (CEST Competence Centre for Electrochemical Surface Technology, Wiener Neustadt, Austria) / <u>Sabine Hild</u> (Institute of Polymer Science / Johannes Kepler University Linz, Linz, Austria) / <u>Achim Walter Hassel</u> (Institute of Chemical Technology of Inorganic Materials / Johannes Kepler University Linz, Linz, Austria): Investigation of atmospheric corrosion and hydrogen insertion into complex phase steel using scanning Kelvin probe (force) microscopy
16:50	102502	<u>Ines Traxler</u> (CEST Competence Center for Electrochemical Surface Technology, Linz, Austria) / <u>Gabriela Schimo-Aichhorn</u> (CEST Competence Center for Electrochemical Surface Technology, Linz, Austria) / <u>Andreas Muhr</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Gerald Luckeneder</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Hubert Duchaczek</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Karl Heinz Stellnberger</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Josef Faderl</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Darya Rudomilova</u> (University of Chemistry and Technology Prague, Kralupy nad Vltavou, Czech Republic) / <u>Tomas Prosek</u> (University of Chemistry and Technology Prague, Kralupy nad Vltavou, Czech Republic) / <u>Christoph Kleber</u> (CEST Competence Center for Electrochemical Surface Technology, Wiener Neustadt, Austria) / <u>Achim Walter Hassel</u> (Institute for Chemical Technology of Inorganic Materials, Linz, Austria) / <u>Sabine Hild</u> (Institute of Polymer Science, Linz, Austria): Hydrogen detection in high strength steels with atomic force microscopy
17:10	114147	<u>Angus Cook</u> (Wood, Oxford, United Kingdom) / <u>Alison Davenport</u> (University of Birmingham, Birmingham, United Kingdom): A cost-effective methodology to automate the deposition of aerosol patches on a testing sample - toward realistic, high-throughput testing
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.7: S4 Level 3		Corrosion in the Refinery and Petrochemistry Industry
	Chair(s)	<i>F. Ropital / J. Van Roij</i>
11:00	106657	<u>Giulia Trevisan</u> (RINA, Venice, Italy) / <u>Flavia Campanelli</u> (RINA, Rome, Italy) / <u>Claudio Campanelli</u> (RINA, Rome, Italy) / <u>Fabio Mondello</u> (RINA, Rome, Italy): Integrity operating window development and implementation for refinery units
11:20	117977	<u>Maarten Robers</u> (DEKRA, Utrecht, Netherlands): Corrosion monitoring of connected assets, the Industrial IoT and Analytics perspective
11:40	101831	<u>Efim Lyublinski</u> (COR/SCI, Solon, United States of America) / <u>Michael Getmansky</u> (Intercor, Inc, Boston, United States of America) / <u>Boris Verbitsky</u> (AMT-Asmos LLC, Moscow, Russia): DIAGNOSTIC CORROSION CONDITION OF OIL STORAGE TANK ROOFS
12:00	121580	<u>Martin Vosecky</u> (NALCO Champion, Prague, Czech Republic) / <u>Chris Claesen</u> (NALCO Champion, Groot-Bijgaarden, Belgium) / <u>Phil Thornthwaite</u> (NALCO Champion, Northwich, United Kingdom): Progress in On Stream Analyser use for Crude Unit Corrosion Control
12:20	120955	<u>Michał Kosmatka</u> (PKN ORLEN, Płock, Poland) / <u>Mirosław Paćko</u> (PKN ORLEN, Płock, Poland) / <u>Robert Wódecki</u> (PKN ORLEN S.A., Płock, Poland): The case study of the TLE boilers corrosion mechanism for the petrochemical plant, in the aspect of intensifying production assets.
12:40 - 14:00		Lunch time

Room 3.7: S4 Level 3		Corrosion in the Refinery and Petrochemistry Industry
	Chair(s)	<i>F. Ropital / J. Van Roij</i>
14:00	120200	<u>Mabruk Issa Suleiman</u> (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / <u>Mohammad Abdur Rakib</u> (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / <u>Hala Kelani</u> (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / <u>Mustafa Karakaya</u> (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / <u>Mohamed AlMusharfy</u> (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / <u>Abraham George</u> (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / <u>Nilesh Chandak</u> (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates): Impact Of Process Conditions And Type Of Sulfur Species On Corrosivity Of Different Refinery Feedstock
14:20	119102	<u>Matteo Poldi</u> (Eni SpA, San Donato Milanese, Italy) / <u>Antonino Leone</u> (Eni SpA, Roma, Italy) / <u>Marino Battagliarin</u> (EniProgetti, Venice, Italy) / <u>MariaElena Gennaro</u> (EniProgetti, Venice, Italy) / <u>Massimo Bagnardi</u> (Eni SpA, San Donato Milanese, Italy) / <u>Giovanna Gabetta</u> (Eni SpA, San Donato Milanese, Italy): Failure analysis of reboiler tubes
14:40	117377	<u>Barbara Skolyszewska-Kühberger</u> (OMV Refining & Marketing GmbH, Schwechat, Austria) / <u>Hannes Sivich</u> (OMV Refining & Marketing GmbH, Schwechat, Austria) / <u>Andreas Glaser</u> (OMV Refining & Marketing GmbH, Schwechat, Austria): Failure of 16Mo3 steam generator tubes due to inadequate water chemistry
15:00	115437	<u>K. Ravindranath</u> (Kuwait Institute for Scientific Research, Safat, Kuwait) / <u>R Alazemi</u> (Kuwait Institute for Scientific Research, Kuwait, Kuwait) / <u>B. Al-Wakaa</u> (Kuwait Institute for Scientific Research, Kuwait, Kuwait): Corrosion and Cracking Susceptibility of Stainless Steel 347 in Refinery Simulated Environments Containing Chloride and Thiosulphate
15:20 - 15:50		Coffe Break

Room 3.7: S4 Level 3		Corrosion in the Refinery and Petrochemistry Industry
	Chair(s)	<i>F. Ropital / J. Van Roij</i>
15:50	113237	<u>Valerie Bour Beucler</u> (Nalco Champion, Wasquehal, France) / <u>Stefaan Vanschoubroeck</u> (TOTAL, Feluy, Belgium): Case study of high charge polymer used in refinery cooling water system to improve performance in stress condition, to decrease polymer consumption and environmental impact and to decrease total cost of operation (corrosion rate, oxidizing biocide consump
16:10	102152	<u>Reza Ghorbani</u> (South Pars Gas Complex, Shiraz, Iran) / <u>Iman Imaniyeh</u> (2R Inspection and services, Shiraz, Iran): Corrosion evaluation of water transfer pipeline containing Mono Ethylene Glycol from condensate stabilization unit to MEG regeneration unit
16:30	103137	<u>Johannes Poth</u> (Integrated Global Services Cetek, USA): Case Study on the Application of Ceramic Coatings to Extend Fired Heater Tube Life and Improving Operational Efficiency with Cost Benefit Analysis
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 3.8: S4 Level 3		Environment Sensitive Fracture
Chair(s)		
11:00	116652	Ch. Blanc / K. Wolski Tom Depover (Ghent University, Zwijnaarde, Belgium) / Di Wan (Norwegian University of Science and Technology (NTNU), Trondheim, Norway) / Dong Wang (Norwegian University of Science and Technology (NTNU), Trondheim, Norway) / Afrooz Barnoush (Norwegian University of Science and Technology (NTNU), Trondheim, Norway) / Kim Verbeke (Ghent University, Zwijnaarde, Belgium): The effect of in-situ hydrogen plasma charging on the hydrogen embrittlement susceptibility of DP and TRIP steel
11:20	109257	Flavien Vucko (Institut de la Corrosion, Brest, France) / Dominique Thierry (Institut de la Corrosion, Brest, France): Investigation of hydrogen induced stress cracking using acoustic emission technique
11:40	109787	Anton Trautmann (Chair of General and Analytical Chemistry, University of Leoben, Leoben, Austria) / Gregor Mori (Chair of General and Analytical Chemistry, University of Leoben, Leoben, Austria) / Markus Oberndorfer (RAG Rohoel-Aufsuchungs Aktiengesellschaft, Vienna, Austria) / Stephan Bauer (RAG Rohoel-Aufsuchungs Aktiengesellschaft, Vienna, Austria): Microbial production of renewable natural gas within a gas reservoir - Susceptibility of selected steel grades to hydrogen embrittlement
12:00	116467	Xavier Feaugas (University de La Rochelle, La Rochelle, France) / Abdelali Oudriss (LaSIE, Université de la Rochelle, CNRS-UMR 7356, la rochelle, France) / Juan Creus (Université de La Rochelle, LaSIE CNRS UMR 7356, la rochelle, France): A multi-scale approach of hydrogen embrittlement in martensitic steel: a review
12:20	121460	Krzysztof Wolski (Ecole des Mines de Saint Etienne, Saint-Etienne, France) / Clement Gayton (Ecole des Mines de Saint Etienne, Saint-Etienne, France) / Alexia Rozinoer (Thermodyn SAS, Le Creusot, France) / Vincent Barnier (Ecole des Mines de Saint Etienne, Saint-Etienne, France) / Cedric Bosch (Ecole des Mines de Saint Etienne, Saint-Etienne, France) / Jacques Stolarz (Ecole des Mines de Saint Etienne, Saint-Etienne, France) / Frederic Christien (Ecole des Mines de Saint Etienne, Saint-Etienne, France): Intergranular fracture of structural materials: aging and environmental effects
12:40 - 14:00		Lunch time

Room 3.8: S4 Level 3		Environment Sensitive Fracture
Chair(s)		
14:00	118527	O. Knudsen Krishnan Hariramabadran Anantha (Uddeholms AB / KTH Royal Institute of Technology , Hagfors / Stockholm, Sweden) / Cem ÖrneK (KTH Royal Institute of Technology / Swerea KIMAB AB, Stochholm, Sweden) / Sebastian Ejnermark (Uddeholms AB , Hagfors , Sweden) / Anna Medvedeva (Uddeholms AB, Hagfors, Sweden) / Johnny Sjostrom (Uddeholms AB, Hagfors, Sweden) / Jinshan Pan (KTH Royal Institute of Technology, Stockholm, Sweden): Role of Surface Residual Stresses on the Environmentally Assisted Cracking Susceptibility of Tempered Martensitic Stainless Steel
14:20	105232	Christoph Altenbach (Chair of Corrosion and Corrosion Protection, RWTH Aachen University, Aachen) / Daniela Zander (Chair of Corrosion and Corrosion Protection, RWTH Aachen University, Aachen): The Influence of the Heat Treatment Condition on the Stress Corrosion Cracking Susceptibility of an Al-Zn-Mg-Zr Alloy
14:40	117747	Pierfranco Reccagni (University of Manchester, Manchester, United Kingdom) / Qing Lu (The Welding Institute (TWI), Cambridge, United Kingdom) / Mike Gittos (The Welding Institute (TWI), Cambridge, United Kingdom) / Dirk L. Engelberg (University of Manchester, Manchester, United Kingdom): Correlating Austenite Morphology to Stress Corrosion Cracking Resistance of a Grade 2205 Duplex Stainless Steel TIG Weld
15:00	103207	Edoardo Proverbio (University of Messina, MESSINA, Italy) / Luigi Calabrese (University of Messina, Messina, Italy) / Massimiliano Galeano (University of Messina, MESSINA, Italy): Understanding corrosion mechanisms on 13% Cr martensitic stainless steel in simulated thiosulphate containing brine by combined AE and EN monitoring
15:20 - 15:50		Coffe Break

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.8: S4 Level 3		Environment Sensitive Fracture
	<i>Chair(s)</i>	C. Ornek
15:50	119557	Kundsen
16:10	101892	Takumi Haruna (Kansai University, Suita, Osaka, Japan) / Yamato Nii (Kansai University, Suita, Osaka, Japan): Hydrogen absorption into steels with microstructural defects in acidic and neutral sulfate solutions
16:30	111012	Christine Blanc (CIRIMAT, Toulouse Cedex 4, France) / Loïc Oger (CIRIMAT, Toulouse Cedex 4, France) / Manon Chloé Lafouresse (CIRIMAT, Toulouse Cedex 4, France) / Eric Andrieu (CIRIMAT, Toulouse Cedex 4, France) / Grégory Odemer (CIRIMAT, Toulouse Cedex 4, France) / Lionel Peguet (Constellium Technology Center, Voreppe, France): Hydrogen / dislocation interactions in a low copper 7xxx aluminium alloy
16:50	109147	Darya Rudomilova (University of Chemistry and Technology Prague, Technopark Kralupy, Kralupy nad Vltavou, Czech Republic) / Tomáš Prošek (University of Chemistry and Technology Prague, Technopark Kralupy, Kralupy nad Vltavou, Czech Republic) / Garbiela Schimo-Aichhorn (CEST Competence Center for Electrochemical Surface Technology, Linz, Austria) / Andreas Muhr (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria) / Hubert Duchaczek (voestalpine Stahl GmbH, Linz, Austria): Scanning Kelvin Probe Force Microscopy and electric resistance sensor investigations of hydrogen entry from atmospheric corrosion
17:10	116907	Abdelali Oudriss (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Arnaud Metsue (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Guillaume Hachet (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Abdelmalek Hallil (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Jiaqi Li (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Jamaa Bouhattate (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Catherine Savall (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Juan Creus (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France) / Xavier Feaugas (Université de La Rochelle, LaSIE CNRS UMR 7356, La Rochelle, France): On the implication of metallurgical defects at different scales on the hydrogen-assisted damage of nickel and nickel alloys
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room 3.9: S4 Level 3		Corrosion by Hot Gases
	<i>Chair(s)</i>	M. Galetz
11:00	111182	Raquel Rodriguez (Tubacex Innovación, Llodio, Spain) / Alejandra Lopez (Tubacex S.A., Llodio, Spain) / Heike Hattendorf (VDM Metals International GmbH, Altena): Alloy 699 XA® Tubes for Application in Petrochemical and Power Generation Industries under Metal Dusting Conditions
11:20	111457	FABIEN ROUILLARD (CEA, GIF SUR YVETTE, France): Reactivity of 9-12Cr steel in CO2-O2 environment: comprehensive description
11:40	105247	Alexander Schmid (Montanuniversität Leoben, Leoben, Austria) / Gregor Mori (Montanuniversität Leoben, Leoben, Austria) / Stefan Hönic (OMV E&P GmbH Techcenter & Lab, Gänserndorf, Austria) / Roland Haubner (Technische Universität Wien, Vienn, Austria): Corrosion behaviour of Fe and Ni based alloys in the reactor atmosphere of a thermal cracking process
12:00	120165	Torben Boll (Institut für Angewandte Materialien - Werkstoffkunde (IAM-WK), Karlsruher Institut für Technologie (KIT), Eggenstein-Leopoldshafen) / Olof Bäcke (Department of Physics, Chalmers University of Technology, Göteborg, Sweden) / Martin Heilmaier (Institut für Angewandte Materialien - Werkstoffkunde (IAM-WK), Karlsruher Institut für Technologie (KIT), Eggenstein-Leopoldshafen) / Kinga A. Unocic (Materials Science and Technology Division, Oak Ridge National Laboratory, Oak, Ridge TN, United States of America) / Bruce A. Pint (Materials Science and Technology Division, Oak Ridge National Laboratory, Oak, Ridge TN, United States of America) / Krystyna Stiller (Department of Physics, Chalmers University of Technology, Göteborg, Sweden): Outward diffusion through protective Alumina scales
12:20	119770	Lukas Mengis (DECHEMA e.V., Frankfurt) / Mathias C. Galetz (DECHEMA e.V., Frankfurt): Investigation of The Friction and Wear Behavior of a 3rd Generation γ-TiAl Based Alloy
12:40 - 14:00		Lunch time

Room 3.9: S4 Level 3		Corrosion by Hot Gases
	Chair(s)	<i>M. Galetz</i>
14:00	101291	<u>Wojciech Nowak</u> (Rzeszow University of Technology, Rzeszow, Poland) / Bartek Wierzba (Rzeszow University of Technology, Rzeszow, Poland) / Jan Sieniawski (Rzeszow University of Technology, Rzeszow, Poland): Effect of surface preparation on high temperature oxidation kinetics and oxide scale morphology
14:20	102342	<u>Tomasz Dudziak</u> (Foundry Research Institute, Kraków Kraków, Poland) / Eugene Medvedovski (Endurance Technologies Inc, Calgary, Canada): Protective Coatings for High-Temperature Steam Oxidation in Coal-Fired Power Plants
14:40	119990	<u>Till König</u> (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Xabier Montero (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Mathias Galetz (DECHEMA-Forschungsinstitut, Frankfurt am Main): Hot Corrosion Type II of Model Alloys for Boiler and Heat Exchanger Applications
15:00	112802	<u>Aleksander Gil</u> (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Krakow, Poland) / Oleksandr Kryshtal (AGH University of Science and Technology, International Centre of Electron Microscopy for Materials Science and Faculty of Metals Engineering and Industrial Computer Science, Krakow, Poland) / Tomasz Brylewski (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Krakow, Poland) / Aleksandra Czyrska-Filemonowicz (AGH University of Science and Technology, International Centre of Electron Microscopy for Materials Science and Faculty of Metals Engineering and Industrial Computer Science, Krakow, Poland): Microscopic investigations of a Cr2O3 scale formed on a substrate with implanted yttrium ions
15:20 - 15:50		Coffe Break

Room 3.9: S4 Level 3		Corrosion by Hot Gases
	Chair(s)	<i>M. Galetz</i>
15:50	109272	<u>Valerie PARRY</u> (University Grenoble Alpes, Grenoble, France) / Wichitra Wongpromrat (King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) / Laurence Latu-Romain (University Grenoble Alpes, Grenoble, France) / Céline Pascal (University Grenoble Alpes, Grenoble, France) / Walairat Chandra-ambhorn (King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) / Somrerak Chandra-ambhorn (King Mongkut's University of Technology North Bangkok, Bangkok, Thailand) / Yves Wouters (University Grenoble Alpes, Grenoble, France): Morpho-chemical investigations and thermodynamic study of Ti, Nb rich nodules grown on AISI 441 oxidized at 800°C in wet atmosphere
16:10	106522	<u>Patrice Berthod</u> (University of Lorraine / Institut Jean Lamour, Nancy, France) / Lydia Toubal (Faculty of Sciences and Technologies, Vandoeuvre-lès-Nancy, France) / Zohra Himeur (Faculty of Sciences and Technologies, Vandoeuvre-lès-Nancy, France) / Ouarda Abed (Faculty of Sciences and Technologies, Vandoeuvre-lès-Nancy, France) / Mélissa Léglise (University of Lorraine / Institut Jean Lamour, Nancy, France): Influence of the Ni/Co ratio and of the Cr content on the high temperature oxidation of cast {Ti or Ta}-rich (Ni & Co)-based alloys
16:30	104787	Dae Won Yun (Korea Institute of Materials Science, Changwon, Korea, South) / Young Soo Yoo (Korea Institute of Materials Science, Changwon, Korea, South) / Hi Won Jeong (Korea Institute of Materials Science, Changwon, Korea, South) / Seong Moon Seo (Korea Institute of Materials Science, Changwon, Korea, South): The Effect of Gd and Ce on the Cyclic Oxidation of Ni-Base Superalloy
16:50	103937	<u>Damian Koclega</u> (Agh University of Science and Technology, Kraków, Poland) / Agnieszka Radziszewska (AGH University of Science and Technology, Kraków, Poland) / Axel Kranzmann (BAM - Federal Institute for Materials Research and Testing, Berlin) / Stanisław Dymek (AGH University of Science and Technology, Kraków, Poland): The microstructure characterization of the oxide scale created on Inconel 686 clad
17:10	120775	<u>Maciej Bik</u> (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Piotr Jelen (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Mirosław Stygar (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Juliusz Dabrowa (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Elżbieta Długon (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Aleksander Gil (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Krzysztof Mroczka (Pedagogical University of Cracow, Institute of Technology, Poland, Cracow, Poland) / Magdalena Lesniak (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Tomasz Brylewski (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Maciej Sitarz (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland): A new solution for the corrosion protection in the form of functional coatings based on silicon oxycarbide glasses
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 2.1: G1 Level 3		Electronic Devices
	Chair(s)	<i>R. Ambat / M. Jellesen</i>
11:00	121135	<u>Stefan Schoemaker</u> (OSRAM Opto Semiconductors GmbH, Regensburg): Environmental reliability testing demands of LEDs for automotive and outdoor applications
11:40	102887	<u>Kerstin Lux</u> (Robert Bosch GmbH, Schwieberdingen) / <u>Lothar Henneken</u> (Robert Bosch GmbH, Schwieberdingen) / <u>Sebastian Maaß</u> (Robert Bosch GmbH, Schwieberdingen) / <u>Mathias Nowotnick</u> (Rostock University, Institute for Electronic Appliances and Circuits, Rostock): The influence of solder mask material on humidity induced electrochemical corrosion failure mechanisms of electronic printed circuit boards (PCBs) during high voltage load
12:00	106027	<u>Abhijeet Yadav</u> (Technical University of Denmark, Section of Materials and Surface Engineering, Lyngby, Denmark) / <u>Rajan Ambat</u> (Technical University of Denmark, Section of Materials and Surface Engineering, Lyngby, Denmark): Corrosion Induced Failure Mechanism of Hearing Aid Electronic Circuitry and Battery Contacts
12:20	105782	<u>Helmut Schweigart</u> (Zestron, Ingolstadt, Donau): Assesment of humidity robustness of electronic assemblies
12:40 - 14:00		Lunch time

Room 2.1: G1 Level 3		Electronic Devices
	Chair(s)	<i>H. Schweigart / B. Medgyes</i>
14:00	121045	<u>Rajan Ambat</u> (Center for Electronic Corrosion, Section of Materials and Surface Engineering, Department of Mechanical Engineering, Lyngby, Denmark): Interplay of electrochemical mechanisms and electrical functionality in corrosion reliability of electronics
14:20	108842	<u>Antoine Le Roy</u> ([1]Sorbonne Universités, UPMC Univ Paris 06, CNRS, Laboratoire Interfaces et Systèmes Electrochimiques, [2] Groupe Renault-Nissan, Technocentre Renault, [1]Paris [2]Guyancourt) / <u>Maxime Makarov</u> ([2]Groupe Renault-Nissan, Technocentre Renault, [2]Guyancourt, France) / <u>Cécile Plouzeau</u> ([2]Groupe Renault-Nissan, Technocentre Renault, Guyancourt, France) / <u>Mireille Turmine</u> ([1]Sorbonne Universités, UPMC Univ Paris 06, CNRS, Laboratoire Interfaces et Systèmes, Paris, France) / <u>Vincent Vivier</u> ([1]Sorbonne Universités, UPMC Univ Paris 06, CNRS, Laboratoire Interfaces et Systèmes, Paris, France): Influence of normal plastic pollution on PCB wettability
14:40	121050	<u>Simone Lauser</u> (Robert-Bosch GmbH, Automotive Electronics, Schwieberdingen) / <u>Pierre Eckold</u> (Robert-Bosch GmbH, Automotive Electronics, Schwieberdingen) / <u>Theresia Richter</u> (Robert-Bosch GmbH, Automotive Electronics, Schwieberdingen) / <u>Vadimas Verdingovas</u> (Technical University of Denmark, Department of Mechanical Engineering, Section of Materials and Surface Engineering, Lyngby, Denmark) / <u>Rajan Ambat</u> (Technical University of Denmark, Department of Mechanical Engineering, Section of Materials and Surface Engineering, Lyngby, Denmark): Implementation of electrochemical impedance spectroscopy (EIS) assessing humidity induced failure mechanisms on PCBAs.
15:00	106352	<u>Kamila Piotrowska</u> (Technical University of Denmark, Kgs. Lyngby, Denmark) / <u>Morten Jellesen</u> (Technical University of Denmark, Kgs. Lyngby, Denmark) / <u>Rajan Ambat</u> (Technical University of Denmark, Kgs. Lyngby, Denmark): Water film formation on electronic surfaces and factors contributing to corrosion failures in electronics
15:20 - 15:50		Coffe Break

Room 2.1: G1 Level 3		Electronic Devices
	Chair(s)	<i>B. Medgyes / R. Ambat</i>
15:50	110947	<u>Morten Stendahl Jellesen</u> (Materials and Surface Engineering, Department of Mechanical Engineering Technical University of Denmark, Kgs. Lyngby, Denmark) / <u>Vadimas Verdingovas</u> (Materials and Surface Engineering, Department of Mechanical Engineering Technical University of Denmark, Kgs. Lyngby, Denmark) / <u>Feng Li</u> (Materials and Surface Engineering, Department of Mechanical Engineering Technical University of Denmark, Kgs. Lyngby, Denmark) / <u>Rajan Ambat</u> (Materials and Surface Engineering, Department of Mechanical Engineering Technical University of Denmark, Kgs. Lyngby, Denmark): Effect of Humidity on Conformal Coatings for Electronics
16.10	117212	<u>Ahmad Bahramian</u> (Aix-Marseille University, CNRS, Madirel, UMR 7246, Marseille, France) / <u>Marielle EYRAUD</u> (Aix-Marseille University, CNRS, Madirel, UMR 7246, Marseille, France) / <u>Philippe KNAUTH</u> (Aix-Marseille University, CNRS, Madirel, UMR 7246, Marseille, France) / <u>Florence Vacandio</u> (Aix-Marseille University, CNRS, Madirel, UMR 7246, Marseille, France): Comparison of additives with respect to the corrosion properties of Ni-P thin layer electrodeposited on Cu
16:30	112927	<u>Zygmantas Staliulionis</u> (FORCE Technology, Hørsholm, Denmark) / <u>Sankhya Mohanty</u> (Technical University of Denmark, Kgs. Lyngby, Denmark) / <u>Jesper Henri Hattel</u> (Technical University of Denmark, Kgs. Lyngby, Denmark): Development of semi-empirical models for predicting humidity ingress into electronic enclosures
16:50 - 17:30		WP23 Meeting
17:30 - 19:00		Exhibition Party - Foyer: 0, 1 st and 2 nd level

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 2.2: G1 Level 3	Cathodic Protection
Chair(s)	<i>B. Medgyes / R. Ambat</i>
14:00 - 15:20	WP 16 Meeting
15:20 - 15:50	Coffe Break
15:50 - 17:10	WP 16 Meeting
17:30 - 19:00	Exhibition Party - Foyer: 0, 1 st and 2 nd level

TUESDAY, SEPTEMBER 11, 2018: LECTURES

Room: 0.1 Auditorium	
9:00 - 9:45	Plenary Lecture: Jeffrey L. Didas The IMPACT Study, "A global examination of corrosion management best practices"
9:45 - 10:00	Break for changing Lecture Hall

Room: 0.1A S5 -2nd level	Automotive Corrosion
Chair(s)	<i>L. Rougier / E. Szala</i>
10:00	120385 <u>Vincent Renault</u> (VALEO Thermal System, La Verrière, France) / Anne-Gaëlle Villemiane (VALEO Thermal System, La Verrière, France) / Maryse Philippe (VALEO Thermal System, La Suze / Sarthe, France) / Christian Casenave (VALEO Thermal System, La Suze / Sarthe, France) / Arnaud Dubois (VALEO Thermal System, La Verrière, France) / David Delaux (VALEO Thermal System, La Verrière, France): Reliable corrosion test development for heat exchanger fin debonding evaluation
10:20	115847 <u>Clement Boissy</u> (Aperam Stainless, Isbergues, France) / Saghi Saedlou (Aperam Stainless, Isbergues, France) / Jesse Paegle (Aperam Stainless, Sain-Denis, France): Atmospheric corrosion of a new martensitic stainless steel for automotive applications - optimization of mechanical pre-treatment to bring new perspectives on oxidized material
10:40	117267 <u>Markus Nadlinger</u> (CEST, Wiener Neustadt, Austria) / Laura Hader-Kregl (CEST, 2700 Wiener Neustadt, Austria) / Carina Kern (voestalpine Stahl GmbH, 4020 Linz, Austria) / Martin Rosner (voestalpine Stahl GmbH, 4020 Linz, Austria) / Jiri Duchoslav (CEST, 2700 Wiener Neustadt, Austria) / Martin Fleischanderl (voestalpine Stahl GmbH, 4020 Linz, Austria) / Karl-Heinz Stellnberger (voestalpine Stahl GmbH, 4020 Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, 4020 Linz, Austria) / Christian Paulik (Johannes Kepler University, 4040 Linz, Austria): Hydrothermal Ageing and Corrosion of Adhesively Bonded Hot-Dip Galvanized Steel: Zn versus Zn-Al-Mg
11:00 - 11:30	Coffe Break

Room: 0.1A S5 -2nd level	Automotive Corrosion
Chair(s)	<i>L. Rougier / E. Szala</i>
11:30	115342 Yun Ha Yoo (POSCO, Incheon, Korea, South) / Jin Mo Koo (POSCO, Incheon, Korea, South) / Il Ryoung Sohn (POSCO, Kwangyang, Korea, South) / Tae Chul Kim (POSCO, Kwangyang, Korea, South) / <u>Suk Jong Yoo</u> (SSangyong Motor Company, Pyeongtaek, Korea, South): Anti-Corrosion Performance of ZnMgAl-Coated Seel for Automotive Application
11:50	115502 <u>Bo Rendahl</u> (Swerea KIMAB, Kista, Sweden) / Bror Sederholm (Swerea KIMAB, Kista, Sweden): The effect of de-icing salts on the corrosion of automotive materials and road furnitures
12:10	106832 <u>Giorgio Giovanni Battista Zaffaroni</u> (Technical University of Denmark, Lyngby, Denmark) / Riccardo Rizzo (Technical University of Denmark, Lyngby, Denmark) / Jan Halvor Nordlien (Hydro Extruded Solutions, Håvik, Norway) / Marco Pasqualon (Hydro Extruded Solutions, Lichtervelde, Belgium) / Rajan Ambat (Technical University of Denmark, Lyngby, Denmark): Microstructural and Corrosion Issues of High Frequency Welded Aluminium Tubes
12:30	106482 <u>Daniel Hornauer</u> (Faurecia Emissions Control Technologies, Augsburg, Bay) / Karl Jojo Vidic (University of Leoben, Leoben, Austria) / Gregor Mori (University of Leoben, Leoben, Austria) / Muhammad Yasir (Faurecia Emissions Control Technologies, Augsburg) / Simon Burger (Faurecia Emissions Control Technologies, Augsburg): Alkali chloride induced high temperature corrosion of automotive exhaust systems
12:50 - 14:00	Lunch time

Room: 0.1A S5 -2nd level		Automotive Corrosion
	Chair(s)	L. Rougier / E. Szala
14:00	122408	<u>Karanveer S. Aneja</u> (Talga Technologies Limited, Cambridge, United Kingdom) / Siva Böhm (Talga Technologies Limited, Cambridge, United Kingdom) / Mallika Bohm (Talga Technologies Limited, Cambridge, United Kingdom): Industrial applications of graphene tuned coatings
14:20	119945	<u>Anna Januszka</u> (Tenneco Automotive Poland, Rybnik, Poland) / Dariusz Dyja (Tenneco Automotive Poland, Rybnik, Poland): Susceptibility to intergranular corrosion of stainless steels used in automotive industry
14:40 - 15:20		WP 17 Meeting
15:20 - 15:50		Coffe Break

Room: 0.1A S5 -2nd level		JS Accelerated Corrosion Testing
	Chair(s)	T. Hack / E. Szala
15:50	103077	<u>Fritz Friedersdorf</u> (Luna Innovations Incorporated, VA 22903, United States of America) / Jeff Demo (Luna Innovations, Charlottesville, United States of America) / Nathan Brown (Luna Innovations, Charlottesville, VA, United States of America) / Brandi Clark (Luna Innovations, Charlottesville, United States of America): Continuous Measurement of Atmospheric Corrosion and Coating Degradation
16:30	117657	<u>Sean Fowler</u> (Q-Lab Corporation, Westlake Ohio, United States of America) / Andy Francis (Q-Lab Corporation, Westlake, United States of America) / Andreas Giehl (Q-Lab Deutschland GmbH, Saarbrücken) / Bill Tobin (Q-Lab Corporation, Westlake, United States of America) / David Duecker (Q-Lab Corporation, Westlake, United States of America): Precise environmental control during atmospheric corrosion tests: challenges, limitations, and opportunities for standardization
16:50	117442	<u>Tomas Prosek</u> (University of Chemistry and Technology Prague, Prague, Czech Republic) / Milan Kouřil (University of Chemistry and Technology Prague, Prague, Czech Republic) / Václav Šefl (University of Chemistry and Technology Prague, Prague, Czech Republic): On the effect of drying on corrosion processes and reliability of accelerated corrosion tests
17:10	120940	<u>Dominique Thierry</u> (Institut de la Corrosion, Brest, France): A common industrial approach towards the development of a reliable corrosion test in the aerospace industry
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 0.1: Auditorium Level 0		Organic Coatings
	Chair(s)	I. Aoki / P. Keil
10:00	102647	<u>Herman Terryn</u> (Vrije Universiteit Brussel, Brussels, Belgium) / Sven Pletincx (Vrije Universiteit Brussel research group Electrochemical and Surface Engineering, Brussels, Belgium) / Kristof Marcoen (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / Francesca Cavezza (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / Laura-Lynn Fockaert (TUDelft Department of Materials Science and Engineering, Delft, Netherlands) / Peyman Taheri (TUDelft Department of Materials Science and Engineering, Delft, Netherlands) / Tom Hauffman (Vrije Universiteit Brussel Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / Johannes M.C. Mol (TUDelft Department of Materials Science and Engineering, Delft, Netherlands): In situ pathways to characterize buried interfaces of organic/inorganic hybrid metal corrosion protection systems under different exposure conditions
10:20	110867	<u>Carsten Becker-Willinger</u> (INM - Leibniz Institute for New Materials, Saarbrücken) / Sener Albayrak (INM - Leibniz Institute for New Materials, Saarbrücken) / Marlon Jochum (INM - Leibniz Institute for New Materials, Saarbrücken) / Marek Twardoch (INM - Leibniz Institute for New Materials, Saarbrücken): Effect of new anisotropic manganese and zinc-manganese-phosphate pigments in Nanomer® powder coatings on corrosion protection for mild steel
10:40	103637	<u>Bettina Kroiß</u> (voestalpine Stahl GmbH, Linz, Austria) / Michael Voith (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria) / Karl-Heinz Stellnberger (voestalpine Stahl GmbH, Linz, Austria) / Christian Paulik (Johannes Kepler University, Linz, Austria): Corrosion Inhibition and Coatibility of Layered Double Hydroxides on ZM
11:00 - 11:30		Coffe break

Room 0.1: Auditorium Level 0		Organic Coatings
	Chair(s)	
		<i>I. Aoki / P. Keil</i>
11:30	118207	<u>Jarosław Wojciechowski</u> (Poznan University of Technology, Poznan, Poland) / <u>Grzegorz Lota</u> (Poznan University of Technology, Poznan, Poland) / <u>Łukasz Kolanowski</u> (Poznan University of Technology, Poznan, Poland) / <u>Małgorzata Graś</u> (Poznan University of Technology, Poznan, Poland) / <u>Karol Szubert</u> (Adam Mickiewicz University, Poznan, Poland) / <u>Andreas Bund</u> (Technische Universität Ilmenau, Ilmenau): The Influence of the Modification of Current Collectors on the Electrochemical Capacitor Parameters
11:50	117462	<u>Guy Decelles</u> (ECKART Suisse SA, Vetroz, Switzerland): Corrosion Protection Systems based on Lamellar Zinc Pigments
12:10	107832	<u>Antoni Prieto</u> (Hempel S.A.U., Polynia, Spain) / <u>Raquel Morales</u> (Hempel S.A.U., Polynia, Spain) / <u>David Morton</u> (Hempel A/S, Lyngby, Denmark): Challenging the Performance Myth of Inorganic Zinc Rich vs Organic Zinc Rich Primers and Activated Zinc technology
12:50 - 14:00		Lunch time

Room 0.1: Auditorium Level 0		Inorganic Coatings
	Chair(s)	
		<i>L. Fedrizzi / J. Fernandes</i>
14:00	111167	<u>Maciej Sowa</u> (Silesian University of Technology, Gliwice, Poland) / <u>Wojciech Simka</u> (Silesian University of Technology, Gliwice, Poland): Electrochemical corrosion studies of pure tantalum after plasma electrolytic oxidation in Ca-, Mg- and P-containing electrolyte
14:20	105657	<u>Ana Maria Santos-Coquillat</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Miguel Estaban-Lucia</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Enrique Martinez-Campos</u> (Institute of Polymer Science and Technology-CSIC, Madrid, Spain) / <u>Marta Mohedano</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Raul Arrabal</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Angel Pardo</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Endzhe Matykina</u> (Universidad Complutense de Madrid, Madrid, Spain): Surface multifunctionalization of Mg-based biomaterials by plasma electrolytic oxidation
14:40	104922	<u>Xiaopeng Lu</u> (Northeastern University, Shenyang, China PR) / <u>Carsten Blawert</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Mikhail Zheludkevich</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Tao Zhang</u> (Northeastern University, Shenyang, China PR) / <u>Fuhui Wang</u> (Northeastern University, Shenyang, China PR): Plasma electrolytic oxidation (PEO) coatings on Mg alloy with addition of particles
15:00	105717	<u>Marta Mohedano</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Endzhe Matykina</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Yanira Llamazares</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Raul Arrabal</u> (Universidad Complutense de Madrid, Madrid, Spain) / <u>Beatriz Mingo</u> (Helmholtz Zentrum Geesthacht, Geesthacht) / <u>Angel Pardo</u> (Universidad Complutense de Madrid, Madrid, Spain): Characterization and Corrosion Behavior of PEO Coatings on pre-Anodized Al alloys
15:20 - 15:50		Coffe break

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 0.1: Auditorium Level 0		Inorganic Coatings
	Chair(s)	L. Fedrizzi / J. Fernandes
15:50	117612	Ahmad Bahramian (Aix-Marseille University, CNRS, Madirel, UMR 7246, Marseille, France) / Keyvan Raeissi (Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran) / Amin Hakimzad (Department of Materials Engineering, Isfahan University of Technology, Isfahan, Iran): Characterizing of DC-Plasma Electrolytic Oxidation (PEO) Coatings on 7075 Aluminum Alloy
16:10	103262	Luca Pezzato (University of Padova, Padova, Italy) / Marco Marigo (Department of Industrial Engineering, University of Padova, Padova, Italy) / Michele Rigon (Department of Industrial Engineering, University of Padova, Padova, Italy) / Alessandro Martucci (Department of Industrial Engineering, University of Padova, Padova, Italy) / Katya Brunelli (Department of Industrial Engineering, Department of Civil, Environmental and Architectural engineering, University of Padova, Padova, Italy) / Manuele Dabalà (Department of Industrial Engineering, University of Padova, Padova, Italy): STUDY OF THE APPLICATION OF PLASMA ELECTROLYTIC OXIDATION (PEO) COATING AS PRE-TREATMENT FOR ORGANIC COATING ON LIGHT ALLOYS
16:30	106432	SEDA AYSEL TEPE (YILDIZ TECHNICAL UNIVERSITY, ISTANBUL, Turkey) / IREM CEMRE TURU (YILDIZ TECHNICAL UNIVERSITY, ISTANBUL, Turkey) / MURAT DANISMAN (ISTANBUL GEDIK UNIVERSITY, ISTANBUL, Turkey) / NURHAN CANSEVER (YILDIZ TECHNICAL UNIVERSITY, ISTANBUL, Turkey): Anodic Oxidation Behavior of Nanocrystalline Titanium Thin Films
16:50	117902	Talal Aljohani (KACST, Riyadh, Saudi Arabia): Corrosion resistance of Plasma Electrolytic Oxidation PEO and conventional anodic oxidation coating on Titanium and Aluminium
17:10	118827	Anas Ghailane (Mohammed VI Polytechnic University, Ben Guerir, Morocco) / Heinz Busch (Mohammed VI Polytechnic University, Benguerir, Morocco) / Christian Fischer (Mohammed VI Polytechnic University, Benguerir, Morocco) / Jones Alami (Mohammed VI Polytechnic University, Benguerir, Morocco): Improved quality of anti-corrosive Titanium nitride coating using high power impulse magnetron sputtering
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	M. Zheludkevich
10:00	110412	Shilpa Kumari (Norwegian University of Science and Technology, Trondheim, Norway) / Sigurd Wenner (Sintef, Trondheim, Norway) / John Walmsley (Sintef, Trondheim, Norway) / Otto Lunder (Sintef, Trondheim, Norway) / Kemal Nisancioglu (Norwegian University of Science and Technology, Trondheim, Norway): Mechanism of Intergranular Corrosion on Extruded AA6005 Aluminium Alloy with Low Copper Content
10:20	113172	Dominique COSTA (CNRS, Conflans sainte Honorine, France) / Pauline Cornette (CNRS, Paris, France) / Matic Poberzik (JSI, Ljubljana, Slovenia) / Anton Kokalj (IJS, Ljubljana, Slovenia) / Sandrine Zanna (CNRS, Paris, France) / Antoine Seyeux (CNRS, Paris, France) / Ingrid Milosev (IJS, Ljubljana, Slovenia) / Philippe Marcus (CNRS, Paris, France): Self-assembly of linear carboxylic acids on an Al surface and its effect on corrosion inhibition: insight from modelling and experiment
10:40	108662	Anissa Céline Bouali (Helmholtz Zentrum Geesthacht, Geesthacht) / Mariia Iuzviuk (Petersburg Nuclear Physics Institute, Gatchina, Russia) / Maria Serdechnova (Helmholtz Zentrum Geesthacht, Geesthacht) / Kiryl Yasakau (University of Aveiro, Aveiro, Portugal) / Florian Wieland (Helmholtz Zentrum Geesthacht, Geesthacht) / Gleb Dovzhenko (Helmholtz Zentrum Geesthacht, Geesthacht) / Vasyli Haramus (Helmholtz Zentrum Geesthacht, Geesthacht) / Mario Ferreira (University of Aveiro, Aveiro, Portugal) / Mikhail Zheludkevich (Helmholtz Zentrum Geesthacht/University of Kiel, Geesthacht): Study of the mechanism of direct growth of ZnAl LDH on AA2024 surface and its loading with corrosion inhibitors via anionic exchange reaction.
11:00 - 11:30		Coffe Break

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	<i>H.N. McMurray</i>
11:30	107232	<u>Geraint Williams</u> (Swansea University, Swansea, United Kingdom) / <u>Christos Kousis</u> (Swansea University, Swansea, United Kingdom) / <u>Patrick Keil</u> (BASF Coatings GmbH, Muenster) / <u>Neil McMurray</u> (Swansea University, Swansea, United Kingdom): Mechanisms of corrosion-driven organic coating failure on magnesium and its alloys
11:50	118982	<u>Michele Curioni</u> (University of Manchester, Manchester, United Kingdom) / <u>Laura Salamone</u> (Electrochemical Materials Science Laboratory, DICAM, Università di Palermo, Palermo, Italy) / <u>Fabio Scenini</u> (University of Manchester, Manchester, United Kingdom) / <u>Monica Santamaria</u> (Electrochemical Materials Science Laboratory, DICAM, Università di Palermo, Palermo, Italy) / <u>Marina Di Natale</u> (Retired, Milano, Italy): A model accounting for the superfluous hydrogen evolution and the inductive behaviour observed during electrochemical measurements on corroding magnesium electrodes
12:10	105592	<u>Sviatlana Lamaka</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Jorge Gonzalez</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Di Mei</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Frank Feyerabend</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Regine Willumeit-Römer</u> (Helmholtz-Zentrum Geesthacht, Geesthacht, 21502, Germany) / <u>Mikhail Zheludkevich</u> (Helmholtz-Zentrum Geesthacht, Geesthacht): Local pH of Mg Alloys in Hanks' electrolyte
12:50 - 14:00		Lunch time

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	<i>S. Lamaka</i>
14:00	110387	<u>Mikhail Zheludkevich</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Syarhei Rabchynski</u> (Belarusian State University, Minsk, Belarus) / <u>Sviatlana Lamaka</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Carsten Blawert</u> (Helmholtz-Zentrum Geesthacht, Geesthacht): On interpretation of impedance spectra of corroding Mg
14:20	106797	<u>Darya Snihirova</u> (MagIC—Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Linqian Wang</u> (MagIC—Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Bahram Vaghefinazari</u> (MagIC—Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Sviatlana V. Lamaka</u> (MagIC—Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Daniel Höche</u> (MagIC—Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Mikhail L. Zheludkevich</u> (MagIC—Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht/ Institute for Materials Science, Faculty of Engineering, Kiel University, Geesthacht/ Kiel): Enhanced performance of Mg-primary batteries by corrosion control electrolyte additives
14:40	109057	<u>Daniel Höche</u> (HZG, Geesthacht) / <u>Natalia Konchakova</u> (HZG, Geesthacht) / <u>Carsten Blawert</u> (HZG, Geesthacht) / <u>Mikhail Zheludkevich</u> (HZG, Geesthacht): Deriving mechanical property changes from Mg corrosion modelling
15:00	108587	<u>Hamilton McMurray</u> (Swansea University, Swansea, United Kingdom) / <u>Geraint Williams</u> (Swansea University, Swansea, United Kingdom) / <u>Emmanuela Michailidou</u> (Swansea University, Swansea, United Kingdom): Quantifying the Role of Trace Transition Metal Electrodeposition in the Cathodic Activation of Corroding Magnesium
15:20 - 15:50		Coffe Break

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	V. Maurice
15:50	110992	Di Mei (Helmholtz-Zentrum Geesthacht, Geesthacht) / Sviatlana Lamaka (Helmholtz-Zentrum Geesthacht, Geesthacht) / Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht, Geesthacht): The role of individual components in SBF on corrosion behavior of commercial purity Mg
16:10	112537	Alina Maltseva (Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Sviatlana Lamaka (Magnesium Innovations Centre (MagIC), Helmholtz-Zentrum Geesthacht, Geesthacht) / Nick Birbilis (Monash University, Clayton, Australia) / Patrick Chapon (Horiba Scientific, Longjumeau, France) / Polina Volovitch (Institut de Recherche de Chimie Paris (IRCP), Paris, France): Benefits and difficulties of GDOES characterization of corroded surface: examples of Fe, Mn and Cl enrichment in corroded Mg
16:30	105492	Emilija Ilic (Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies and Corrosion, Dübendorf, Switzerland) / Roland Hauert (Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies and Corrosion, Dübendorf, Switzerland) / Patrik Schmutz (Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies and Corrosion, Dübendorf, Switzerland) / Ainhoa Pardo (Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies and Corrosion, Dübendorf, Switzerland) / Stefano Mischler (EPFL, École Polytechnique Fédérale de Lausanne, Tribology and Interfacial Chemistry Group, Lausanne, Switzerland): Crevice Corrosion Investigations of Silicon in Simulated Body Fluid Conditions
16:50	106552	Patrice Berthod (University of Lorraine / Institut Jean Lamour, Nancy, France) / Estelle Kretz (University of Lorraine/ Faculty of Sciences and Technologies / Institut Jean Lamour, Nancy, France): Corrosion study of cobalt-based dental alloys; effect of the composition of the alloys and of the nature of the used artificial saliva
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.1: Cameral Level 3		Atmospheric Corrosion
	Chair(s)	D. Thierry
10:00	107937	Atsushi Nishikata (Tokyo Institute of Technology, Tokyo, Japan) / Yaoki Ise (Tokyo Institute of Technology, Tokyo, Japan) / Azusa Ooi (Tokyo Institute of Technology, Tokyo, Japan) / Eiji Tada (Tokyo Institute of Technology, Tokyo, Japan): Pit Initiation and Growth of Stainless Steel in Simulated Marine Atmosphere
10:20	114542	Paul Rosemann (Federal Institute for Materials Research and Testing, Berlin): Corrosion resistance of ferritic stainless steels studied with various methods on different time scales
10:40	104497	Sultan Mahmood (University of Manchester, Manchester, United Kingdom) / Dirk Engelberg (University Of Manchester, Manchester, United Kingdom) / Cem Ornek (KTH, Stockholm, Sweden): Atmospheric Corrosion Behaviour of Aluminium Alloy 6063-T5 under FeCl3 Bearing Droplet Deposits
11:00 - 11:30		Coffe Break

Room 3.1: Cameral Level 3		Atmospheric Corrosion
	Chair(s)	K. Kreislova
11:30	106372	Cem ÖrneK (KTH Royal Institute of Technology, Stockholm, Sweden) / Christofer Leygraf (KTH Royal Institute of Technology, Stockholm, Sweden) / Jinshan Pan (KTH Royal Institute of Technology, Stockholm, Sweden): Localised Corrosion of AA6063-T5 Aluminium Alloy Studied by SKPFM, in-situ AFM and Conventional Electrochemistry - A Contrasting Juxtaposition of Aqueous and Atmospheric Exposure Conditions
11:50	102912	Christofer Leygraf (KTH Royal Institute of Technology, Stockholm, Sweden) / Tingru Chang (National Center for Materials Service Safety, University of Science and Technology Beijing, Beijing, China PR) / Ying Jin (National Center for Materials Service Safety, University of Science and Technology Beijing, Beijing, China PR) / Gunilla Herting (KTH Royal Institute of Technology, Stockholm, Sweden) / Inger Odnevall Wallinder (KTH Royal Institute of Technology, Stockholm, Sweden): Multianalysis of Atmospheric Corrosion of the Golden Alloy Cu5Zn5Al1Sn
12:10	114587	Ahmed Elsayed (Politecnico di Torino, Turin, Italy) / sabrina Grassini (Politecnico di Torino, Turin, Italy) / Marco Parvis (Politecnico di Torino, Turin, Italy) / Tomas Prošek (Technopark Kralupy of The University of Chemistry and Technology, Prague, Czech Republic) / Emma Angelini (Politecnico di Torino, Turin, Italy): Atmospheric corrosion assessment of Cu nanostructured thin film
12:30	120010	M. Halama (Technical University of Kosice, Institute of Materials, Kosice, Slovakia) / K. Koval (Slovak Academy of Science, National research centre of advanced materials and technologies Promatech, Kosice, Slovakia) / A. Kovalcikova (Slovak Academy of Science, National research centre of advanced materials and technologies Promatech, Kosice, Slovakia) / G. Baranova (Technical University of Kosice, Institute of Materials, Kosice, Slovakia): The role of atmospheric aggressivity on barrier efficiency of organic coatings during service and prediction of their life-time
12:40 - 14:00		Lunch time

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.1: Cameral Level 3	Atmospheric Corrosion
14:40 - 15:20	TF Metting
15:20 - 15:50	Coffe Break

Room 3.1: Cameral Level 3	Mechanisms & Methods	
	Chair(s)	G. Williams
15:50	113652	Jinshan Pan (KTH Royal Institute of Technology, Stockholm, Sweden) / Marie Långberg (KTH Royal Institute of Technology, Stockholm, Sweden) / Cem Örneek (KTH Royal Institute of Technology, Stockholm, Sweden) / Jonas Evertsson (Lund university, Lund, Sweden) / Gary Harlow (Lund university, Lund, Sweden) / Weronica Linpe (Lund univeristy, Lund, Sweden) / Lisa Rullik (Lund university, Lund, Sweden) / Edvin Lundgren (Lund university, Lund, Sweden) / Eleonora Bettini (AB Sandvik Materials Technology, Sandviken, Sweden) / Ulf Kivisääk (AB Sandvik Materials Technology, Sandviken, Sweden): Passive film and breakdown on advanced alloys - studied by electrochemical and synchrotron-based techniques
16:10	105002	François Tosar (University of Mons, Mons, Belgium) / Frédéric Groulard (Technochim SA, Ghislenghien, Belgium) / Véronique Vitry (University of Mons, Mons, Belgium) / Fabienne Delaunois (Universtiy of Mons, Mons, Belgium): Stainless steel corrosion in pharmaceutical industries: Rouging study in laboratory conditions
16:30	103972	Arash Azimi Dastgerdi (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Milan, Italy) / Fabio Maria Bolzoni (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Milan, Italy) / Andrea Brenna (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Milan, Italy) / Marco Ormellese (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Milan, Italy) / MariaPia Pedefferri (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Milan, Italy): Statistical method for determination of Pedefferri's diagram of 304L stainless steel
16:50	115802	Lisa Claeys (Ghent University, Zwijnaarde, Belgium) / Tom Depover (Ghent University, Zwijnaarde, Belgium) / Iris De Graeve (Vrije Universiteit Brussel, Brussels, Belgium) / Kim Verbeken (Ghent University, Zwijnaarde, Belgium): Electrochemical hydrogen charging of duplex stainless steel
17:10	102287	Li MA (PSL Research University, CNRS-Chimie ParisTech, Paris, France) / Frédéric Wiame (PSL Research University, CNRS-Chimie ParisTech, Paris, France) / Vincent Maurice (PSL Research University, CNRS-Chimie ParisTech, Paris, France) / Philippe Marcus (PSL Research University, CNRS-Chimie ParisTech, Paris, France): Initial oxidation stages of austenitic stainless steel studied by in situ XPS analysis on single-crystalline Fe-18Cr-13Ni
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.2: Cameral Level 3	Corrosion in Oil and Gas	
	Chair(s)	
10:00	117192	Fiona Ruel (Aperam, Isbergues, France) / Christophe Mendibide (French Corrosion Institute, Fraisses, France) / Saghi Saedlou (Aperam, Isbergues, France): Influence of temperature and pH on SCC assisted by H2S susceptibility of 22%Cr duplex
10:20	117037	Emir Mujanovic (ZAG, Ljubljana, Slovenia) / Bojan Zajec (ZAG, Ljubljana, Slovenia) / Tadeja Kosec (ZAG, Ljubljana, Slovenia) / Gerald Zehethofer (OMV, Vienna, Austria) / Stefan Hönig (OMV, Vienna, Austria) / Gregor Mori (MUL, Leoben, Austria) / Andraž Legat (ZAG, Ljubljana, Slovenia): Electrochemical and repassivation studies of oxide films on stainless steels in deaerated brines at low pH values
10:40	109312	Jakob Mølholm (Corrosion and Metallurgy department at Force Technology, Esbjerg, Denmark): Experiences with on-site detection of intermetallic phases in super duplex stainless steel
11:00 - 11:30		Coffe Break

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
11:30	110047	Taishi Fujishiro (Nippon Steel & Sumitomo Metal Corporation, Amagasaki, Japan) / Takuya Hara (Nippon Steel & Sumitomo Metal Corporation, Amagasaki, Japan) / Yasuhiro Shinohara (Nippon Steel & Sumitomo Metal Corporation, Kimitsu, Japan) / Masahiko Hamada (Nippon Steel & Sumitomo Metal Corporation, Tokyo, Japan): Sour Resistant line pipe for High-pressure H2S sour service
11:50	119152	Hugh Davies (Hampton Thermodynamics Limited, London, United Kingdom) / James Hesketh (National Physical Laboratory, London, United Kingdom) / Gareth Hinds (National Physical Laboratory, London, United Kingdom) / Alan Turnbull (National Physical Laboratory, London, United Kingdom): Experimental validation of pH models for oil and gas applications in simulated downhole conditions
12:10	113947	Christophe MENDIBIDE (Institut de la Corrosion, Fraisses, France) / Nicolas Bulidon (Institut de la Corrosion, Fraisses, France) / Claude Duret-Thual (Institut de la Corrosion, Fraisses, France) / Hervé Marchebois (TOTAL EP, Pau, France) / Thierry Cassagne (TOTAL EP, Pau, France) / Thiago Mesquita (TOTAL EP, Pau, France): Effect of small plastic deformation on the sulfide stress cracking resistance of X65 pipeline steel
12:30	111317	Mariana Costa Folena (UFRJ, RIO DE JANEIRO RIO DE JANEIRO, Brazil) / Samara Cruz da Silva (UFRJ, RIO DE JANEIRO, Brazil) / Mariana Anastácia de Oliveira Schwarc (UFRJ, RIO DE JANEIRO, Brazil) / Jonas da Silva de Sá (UFRJ, Rio de Janeiro, Brazil) / José Antônio da Cunha Ponciano Gomes (UFRJ, Rio de Janeiro, Brazil): Hydrogen embrittlement assessment using image processing technique
12:50 - 14:00		Lunch time

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
14:00	120655	Hanna Pokhmurska (Institute of Composite Materials and Surface Technology / University of Technology, Chemnitz) / Mykhailo Student (Karpenko Phisico-Mechanical Institute of the National Academy of Sciences of Ukraine, Lviv, Ukraine) / Halyna Chumalo (Karpenko Phisico-Mechanical Institute of the National Academy of Sciences of Ukraine, Lviv, Ukraine) / Bohdan Datsko (Karpenko Phisico-Mechanical Institute of the National Academy of Sciences of Ukraine, Lviv, Ukraine) / Yevhen Kharchenko (University of Warmia and Mazury in Olsztyn, Olsztyn, Poland): Influence Of Hydrogen Sulfide On The Equipment For Oil And Gas Industry
14:20	112457	Scott Lehrer (Baker Hughes, a GE Company, Sugar Land, United States of America) / Soma Chakraborty (Baker Hughes, a GE Company, Sugar Land, United States of America) / Sunder Ramachandran (Baker Hughes, a GE Company, Sugar Land, United States of America) / Jagrut Jani (Baker Hughes, a GE Company, Sugar Land, United States of America): Mitigation of Sour Gas Corrosion in Oilfield Production by Application of Novel H2S Scavengers
14:40	119637	Mohammad Najmi (Pars Oil and Gas Company (POGC), Tehran, Iran) / Daryoush Masouri (pogc, Tehran, Iran) / Mohammad Soozani (POGC, Tehran, Iran): Material selection challenges for sour gas pipelines
15:00	116692	Alireza Hatami Monfared (National Iranian Gas Company, Tehran, Iran): Investigating Factors Affecting the Accuracy of the ECDA Method
15:20 - 15:50		Coffe Break

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
15:50	120375	Sameer Patel (EonCoat, LLC, Raleigh, United States of America): The Protection of Carbon Steel Assets Through the Use of A Patented Spray Applied Alloying Formula Known As EonCoat®
16:10	106717	Sigqiao Feng (Beijing Key Laboratory of Failure, Corrosion and Protection of Oil/gas Facilities, Department of Materials Science and Engineering, China University of Petroleum (Beijing), Beijing, China PR) / Changfeng Chen (Beijing Key Laboratory of Failure, Corrosion and Protection of Oil/gas Facilities, Department of Materials Science and Engineering, China University of Petroleum (Beijing), Beijing, China PR): Investigation of Vortex Introducing Severe Flow Accelerated Corrosion in A Loop System
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	<i>A. Saez-Maderuelo / J. Piippo</i>
10:00	118662	<u>Hannu Hänninen</u> (Aalto University, Espoo, Finland): ON THE MECHANISMS OF EAC OF ALLOYS 690 AND 52 IN PRESSURIZED WATER REACTOR APPLICATIONS
10:40	114255	<u>Toshio Yonezawa</u> (Tohoku University, Sendai, Japan) / <u>Masashi Watanabe</u> (Tohoku University, Sendai, Japan) / <u>Atsushi Hashimoto</u> (Kobe Material Testing Laboratory Co., Ltd., Kako-gun, Japan): The Mechanistic Study on Stress Corrosion Cracking of Heavily Cold Worked Thermally Treated Alloy 690 in Simulated PWR Primary Water
11:00 - 11:30		Coffe Break

Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	<i>E.-H. Han / T. Yonezawa</i>
11:30	103667	<u>Yun Soo Lim</u> (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / <u>Seong Sik Hwang</u> (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / <u>Sung Woo Kim</u> (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / <u>Dong Jin Kim</u> (Korea Atomic Energy Research Institute, Daejeon, Korea, South): The influence of internal oxidation on primary water stress corrosion cracking of Ni-based Alloys
11:50	103537	<u>Dong-Jin Kim</u> (KAERI, Daejeon, Korea, South) / <u>Jung Ho Shin</u> (KAERI, Daejeon, Korea, South) / <u>Min Jae Choi</u> (KAERI, Daejeon, Korea, South) / <u>Jong Yeon Lee</u> (KAERI, Daejeon, Korea, South) / <u>Sung Woo Kim</u> (KAERI, Daejeon, Korea, South) / <u>Seong Sik Hwang</u> (KAERI, Daejeon, Korea, South) / <u>Yun Soo Lim</u> (KAERI, Daejeon, Korea, South) / <u>Hong Pyo Kim</u> (KAERI, Daejeon, Korea, South) / <u>Eun Hee Lee</u> (KAERI, Daejeon, Korea, South): Effect of chemical species on SCC of steam generator tubing materials under secondary side environments in nuclear power plants
12:10	103147	<u>Weipeng Li</u> (Corrosion and Protection Center, Key Laboratory for Environmental Fracture (MOE), University of Science and Technology Beijing, Beijing, China PR) / <u>Lijie Qiao</u> (Corrosion and Protection Center, Key Laboratory for Environmental Fracture (MOE), University of Science and Technology Beijing, Beijing, China PR) / <u>Yu Yan</u> (Corrosion and Protection Center, Key Laboratory for Environmental Fracture (MOE), University of Science and Technology Beijing, Beijing, China PR): Lead induced degradation of passive film on Inconel 690 alloy in high temperature and high pressure water
12:30	111232	<u>Alberto Sáez-Maderuelo</u> (Ciemat, Madrid, Spain) / <u>Dolores Gómez-Briceño</u> (Ciemat, Madrid, Spain) / <u>Francisco Javier Perosanz</u> (Ciemat, Madrid, Spain) / <u>Hygreeva Namburi</u> (CVRez, Rez, Czech Republic) / <u>Patricie Halodova</u> (CVRez, Rez, Czech Republic): STUDY OF STRESS CORROSION CRACKING PROCESSES IN ALLOY 690 TESTED IN SUPERCRITICAL WATER
12:50 - 14:00		Lunch time

Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	<i>H. Hänninen / B. Zajec</i>
14:00	120120	<u>En-Hou Han</u> (Institute of Metal Research, Chinese Academy of Sciences, Shenyang , China PR) / <u>Jianqiu Wang</u> (Institute of Metal Research, Chinese Academy of Sciences, Shenyang , China PR) / <u>Xinqiang Wu</u> (Institute of Metal Research, Chinese Academy of Sciences , Shenyang , China PR) / <u>Zhiming Zhang</u> (Institute of Metal Research, Chinese Academy of Sciences , Shenyang , China PR): Corrosion Electrochemistry and Surface Film Properties of Alloy 690 in High Temperature Water
14:20	111487	<u>Václav Bystrianský</u> (UCT Prague, Prague, Czech Republic): Effect of impurities in dissimilar weld joints on their corrosion behaviour
14:40	115317	<u>Hiroshi Abe</u> (Tohoku University, Sendai, Japan) / <u>Dan Akazawa</u> (Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan) / <u>Yutaka Watanabe</u> (Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan) / <u>Yohei Sakakibara</u> (IHI corporation, Yokohama, Japan): Effect of surface finish and grain boundary carbides on SCC susceptibility of Ni based alloys in high temperature water
15:00	120577	<u>Frantz Martin</u> (CEA Saclay, Gif sur Yvette Cedex, France) / <u>Loïc Marchetti</u> (CEA Marcoule, Bagnols sur Cèze, France) / <u>Frédéric Datcharry</u> (CEA Saclay, Gif sur Yvette, France) / <u>Jacques Chêne</u> (CNRS / CEA Saclay, Gif sur Yvette, France): Kinetics of hydrogen permeation through a Ni-base alloy membrane exposed to primary medium of pressurized water reactors
15:20 - 15:50		Coffe Break

Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	
		<i>D. Engelberg / M. Lowden</i>
15:50	102357	Gen Nakayama (IHI Corporation, Yokohama, Japan) / Ippei Shinozaki (IHI Corporation, Yokohama, Japan) / Yohei Sakakibara (IHI Corporation, Yokohama, Japan): Performance optimization of plants using accelerated stress corrosion cracking tests under various conditions
16:10	119012	Stefan Ritter (Paul Scherrer Institut, Villigen PSI, Switzerland) / Renate Kilian (Framatome GmbH, Erlangen) / Matthias Herbst (Framatome GmbH, Erlangen) / Rik-Wouter Bosch (SCK•CEN, Mol, Belgium) / Grace Burke (MPC, University of Manchester, Manchester, United Kingdom) / Fabio Scenini (MPC, University of Manchester, Manchester, United Kingdom) / Alice Dinu (RATEN ICN, Pitesti, Romania) / Ulla Ehrnsten (VTT, Espoo, Finland) / Anna Hojna (CVR, Rez, Czech Republic) / Radek Novotny (JRC Petten, Petten, Netherlands) / Oliver Martin (JRC Petten, Petten, Netherlands) / Francisco-Javier Perosanz (CIEMAT, Madrid, Spain) / Bojan Zajec (ZAG, Ljubljana, Slovenia): Accelerated testing of stress corrosion cracking initiation in high-temperature water - results from the MICRIN collaborative project
16:30	107467	So Aoki (Japan Atomic Energy Agency, Tokai-mura Ibaraki, Japan) / Keietsu Kondo (Japan Atomic Energy Agency, Tokai-mura, Japan) / Yoshiyuki Kaji (Japan Atomic Energy Agency, Tokai-mura, Japan) / Masahiro Yamamoto (Japan Atomic Energy Agency, Tokai-mura, Japan): SCC initiation susceptibility and corrosion behavior of grain boundaries of long-term thermal aged low carbon austenitic stainless steels in simulated BWR condition
16:50	103467	Masahiro Yamamoto (Japan Atomic Energy Agency, Tokai-mura, Japan) / Yasutaka Soma (Japan Atomic Energy Agency, Tokai-mura, Japan) / Takahiro Igarashi (Japan Atomic Energy Agency, Tokai-mura, Japan) / Fumiyoshi Ueno (Japan Atomic Energy Agency, Tokai-mura, Japan): Mass transfer inside narrow crevice of SUS316L in high temperature water
17:10	120065	Hong Pyo Kim (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Tae Young Ahn (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Gi Hyun Eom (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Jong Yeon Lee (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Min Jae Choi (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Sung Woo Kim (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Dong Jin Kim (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Seong Sik Hwang (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Yeon Soo Lim (Korea Atomic Energy Research Institute, Daejeon, Korea, South) / Eun Hee Lee (Korea Atomic Energy Research Institute, Daejeon, Korea, South): Effect of cold work on stress corrosion cracking of Alloy 690 in simulated primary water of pressurized water reactor
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.4: S4 Level 3		JS Progress in prevention of microbial corrosion in Oil & Gas
	Chair(s)	
		<i>Basseguy / Crouzillac</i>
10:00	122452	Turid Liengen (Equinor, Stavanger, Norway) / Line Lilleby Bjerling (Equinor, Stavanger, Norway): Microbial influenced corrosion (MIC) in Equinor
10:20	105117	Satoshi Wakai (Kobe University, Kobe, Japan) / Sotaro Fujii (Hiroshima University, Higashi-Hiroshima, Japan) / Yasuyoshi Tomoe (JOGMEC, Chiba, Japan) / Kazuhiko Miyanaga (Tokyo Institute of Technology, Yokohama, Japan) / Yasunori Tanji (Tokyo Institute of Technology, Yokohama, Japan) / Yoshihiro Sambongi (Hiroshima University, Higashi-Hiroshima, Japan): Microbial corrosion induced by co-existence of Acetobacterium sp. and Desulfovibrio sp. enriched from bottom water in oil-storage tank
10:40	102712	Yasunori Tanji (Tokyo Institute of Technology, Yokohama, Japan) / Kamarisima - (Tokyo Institute of Technology, Yokohama, Japan) / Kazuhiko Miyanaga (Tokyo Institute of Technology, Yokohama, Japan): Dynamical response of sulfate/nitrate-reducing bacteria to the nitrate addition in the oilfield water
11:00 - 11:30		Coffe Break

Room 3.4: S4 Level 3		JS Progress in prevention of microbial corrosion in Oil & Gas
	Chair(s)	<i>Basseguy / Crouzillac</i>
11:30	103162	<u>Takao Iino</u> (RIKEN BioResource Center, Tsukuba Ibaraki, Japan) / <u>Kimio Ito</u> (Nippon Steel Corporation, Futtsu, Japan) / <u>Moriya Ohkuma</u> (RIKEN BioResource Center, Tsukuba, Japan): Iron corrosion induced by nitrate-reducing <i>Prolixibacter</i> .
11:50	102312	<u>Sanja Martinez</u> (University of Zagreb, Faculty of Chemical Engineering and Technology, Zagreb, Croatia) / <u>Frankica Kapor</u> (University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering, Zagreb, Croatia): RECOGNIZING MIC THREAT IN AGEING CRUDE OIL PIPELINES
12:10	111567	<u>Biwen An</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Ozlem Ozcan</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Frank Schreiber</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Sherin Kleinbub</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Andrea Koerdt</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin): The study of methanogen-induced microbiologically influenced corrosion under flow conditions
12:30	106392	<u>DUYGU ARSLAN</u> (ISTANBUL UNIVERSITY, ISTANBUL, Turkey) / <u>NURHAN CANSEVER</u> (YILDIZ TECHNICAL UNIVERSITY, ISTANBUL, Turkey) / <u>ESRA ILHAN SUNGUR</u> (ISTANBUL UNIVERSITY, ISTANBUL, Turkey): Corrosion Behavior of N80 Steel in Oil Water Phase
12:50 - 14:00		Lunch time

Room 3.4: S4 Level 3		JS Microbial Corrosion in Marine E.
	Chair(s)	<i>Paul / Basseguy</i>
14:00	121730	<u>Pierangela Cristiani</u> (Ricerca sul Sistema Energetico - RSE, Milano, Italy): Monitoring and control of microbial corrosion in marine industrial facilities
14:20	111547	<u>Leslie Daille</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Ignacio Vargas</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Rodrigo De la Iglesia</u> (Pontificia Universidad Católica de Chile, Santiago, Chile): MICROBIAL DYNAMICS AND ITS INFLUENCE ON THE DEVELOPMENT OF GENERALIZED CORROSION
14:40	107492	<u>Kamarisima</u> (Tokyo Institute of Technology, Tokyo, Japan) / <u>Yasunori Tanji</u> (Tokyo Institute of Technology, Tokyo, Japan) / <u>Kazuhiko Miyanaga</u> (Tokyo Institute of Technology, Tokyo, Japan): The application of nitrate injection to control souring and carbon steel corrosion caused by anaerobic sulfate-reduction bacteria <i>Desulfotignum</i> sp.
15:00	109812	<u>Angela Mangiaracina</u> (Enel, Pisa, Italy): The EU Project MATCHING: Materials & technologies for performance improvement of cooling systems in power plants
15:20 - 15:50		Coffe Break

Room 3.4: S4 Level 3		JS Progress in prevention of microbial corrosion in Oil & Gas
	Chair(s)	<i>Paul / Cristiani</i>
15:50	106947	<u>Xiaolong Zhang</u> (Endures B.V., Den Helder, Netherlands) / <u>Martijn Hoogeland</u> (TNO, Delft, Netherlands): Influence of Deformation on Corrosion of Mooring Chain Steel in Seawater
16:10 - 16:50		WP 10 meeting

Room 3.4: S4 Level 3		Marine Corrosion
	Chair(s)	<i>P. Refait / S. Paul</i>
16:50	103607	<u>Lars Lichtenstein</u> (DNV GL, Hamburg): Regulations according to VGB/BAW in an international environment - The certifier's view on special requirements for German offshore wind farms
17:10	114032	<u>Grzegorz Adamczewski</u> (Warsaw University of Technology, Warsaw, Poland) / <u>Paweł Łukowski</u> (Warsaw University of Technology, Warsaw, Poland) / <u>Piotr Woyciechowski</u> (Warsaw University of Technology, Warsaw, Poland) / <u>Krzysztof Saramowicz</u> (Premix Sp. z oo, Połaniec, Poland): Ensuring the effectiveness of repair and protection of the marine hydrotechnical constructions using PCC
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.5: S4 Level 3		Archaeological and Historical Artefacts
	Chair(s)	Neff / Grassini
10:00	110722	Djiby Ba (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / <u>Delphine Neff</u> (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Marine Bayle (A-CORROS Expertise Pôle économique et technologique ARCHEOMED©, 17 chemin de Séverin 13200 Arles, France, Arles, France) / Eddy Foy (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Jean-Paul Gallien (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Jean-Bernard Memet (A-CORROS Expertise Pôle économique et technologique ARCHEOMED©, 17 chemin de Séverin 13200 Arles, France, Arles, France) / Philippe De Viviés (A-CORROS Expertise Pôle économique et technologique ARCHEOMED©, 17 chemin de Séverin 13200 Arles, France, Arles, France): Dechlorination of copper archaeological artefacts under subcritical conditions: understanding of the transformation processes by the study of synthetic copper phases
10:20	105452	<u>Elisabetta Di Francia</u> (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy) / Ruth Lahoz (Centro de Química y Materiales de Aragón, (CSIC - Universidad de Zaragoza), Zaragoza, Spain) / Delphine Neff (NIMBE/LAPA-IRAMAT, CEA/CNRS/U Paris-Saclay, Paris-Saclay, France) / Victor Rico (Instituto de Ciencia de Materiales de Sevilla (CSIC), Sevilla, Spain) / Nicolas Nuns (Univ. Lille, CNRS, INRA, Centrale Lille, ENSCL, Univ. Artois, FR 2638 - IMEC - Institut Michel-Eugène Chevreul, Lille, France) / Emma Angelini (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy) / Sabrina Grassini (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy): Evaluation of the laser cleaning mechanism on Cu-based corrosion products
10:40	112152	Nicola Emmerson (Cardiff University, Cardiff, United Kingdom) / Sarah James (Cardiff University, Cardiff, United Kingdom) / Johanna Thunberg (Cardiff University, Cardiff, United Kingdom) / <u>David Watkinson</u> (Cardiff University, Cardiff, United Kingdom): Impact of NaOH (aq) short-term washing of β FeOOH on its ability to corrode iron
11:00 - 11:30		Coffe Break

Room 3.5: S4 Level 3		Archaeological and Historical Artefacts
	Chair(s)	Neff / Grassini
11:30	114127	<u>Abdel Hamid Zeinab</u> (CMRDI, He, Egypt): Corrosion Inhibition of Bronze Alloy by Aloe Vera Extract in Marine Media for Application on Bronze Artifacts
11:50	113912	<u>Kristyna Charlotte Strachotova</u> (University of Chemistry and Technology, Prague, Czech Republic) / Milan Kouril (University of Chemistry and Technology, Prague, Czech Republic) / Martina Valentova (University of Chemistry and Technology, Prague, Czech Republic) / Sarka Msallamova (University of Chemistry and Technology, Prague, Czech Republic): Corrosion inhibition of lead in acetic acid environment by benzotriazole (BTA) based inhibitors
12:10	112222	<u>Erika Ferrari</u> (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Delphine Neff (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Eddy Foy (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Jean-Paul Gallien (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Florence Mercier (Laboratoire Archéomatériaux et Préviation de l'Altération, LAPA, NIMBE - IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685 NIMBE, CEA Saclay 91191 Gif-sur-Yvette, France, Gif-sur-Yvette, France) / Marine Bayle (A-CORROS Expertise Pôle économique et technologique ARCHEOMED©, 17 chemin de Séverin 13200 Arles, France, Arles, France) / Philippe de Viviés (A-CORROS Expertise Pôle économique et technologique ARCHEOMED©, 17 chemin de Séverin 13200 Arles, France, Arles, France) / Jean-Bernard Memet (A-CORROS Expertise Pôle économique et technologique ARCHEOMED©, 17 chemin de Séverin 13200 Arles, France, Arles, France) / Ludovic Bellot-Gurlet (Laboratoire MONARIS, Université Pierre et Marie Curie, UMR 8233, 4 place Jussieu 75252 Paris, France, Paris, France) / Céline Paris (Laboratoire MONARIS, Université Pierre et Marie Curie, UMR 8233, 4 place Jussieu 75252 Paris, France, Paris, France): Testing three organic compounds as corrosion inhibitors for copper-based artefacts
12:30	114507	Kristyna Charlotte Strachotova (University of Chemistry and Technology, Prague, Czech Republic) / Zuzana Bodikova (University of Chemistry and Technology, Prague, Czech Republic) / <u>Milan Kouril</u> (University of Chemistry and Technology, Prague, Czech Republic) / Abigail Evans (University of Chemistry and Technology, Prague, Czech Republic) / Sarka Msallamova (University of Chemistry and Technology, Prague, Czech Republic): Consolidative electrochemical reduction of carbonate based lead corrosion products
12:50 - 14:00		Lunch time

Room 3.5: S4 Level 3		Archaeological and Historical Artefacts											
	Chair(s)	Neff / Grassini											
Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level

	Chair(s)	<i>Neff / Watkinson</i>
14:00	112372	<u>Emilande Apchain</u> (LAPA, Gif-sur-Yvette Gif-sur-Yvette, France) / <u>Delphine Neff</u> (LAPA, Gif-sur-Yvette, France) / <u>Annick Texier</u> (LRMH, Champs-sur-Marne, France) / <u>Aurélia Azéma</u> (LRMH, Champs-sur-Marne, France) / <u>François Mirambet</u> (C2RMF, Paris, France) / <u>Dominique Robcis</u> (C2RMF, Paris, France) / <u>Jean-Paul Gallien</u> (LAPA, Gif-sur-Yvette, France) / <u>Albert Noumowé</u> (L2MGC, Cergy-Pontoise, France) / <u>Philippe Dillmann</u> (LAPA, Gif-sur-Yvette, France): Development of an analytical methodology for the study of organic protection treatments for copper alloys
14:20	114952	<u>Leonardo Iannucci</u> (Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino, Torino, Italy) / <u>Emma Angelini</u> (Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino, Torino, Italy) / <u>Luca Lombardo</u> (Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino, Torino, Italy) / <u>Marco Parvis</u> (Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino, Torino, Italy) / <u>Marco Sangermano</u> (Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino, Torino, Italy) / <u>Sabrina Grassini</u> (Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino, Torino, Italy): Graphene oxide-based polymeric coatings for protection of metallic cultural heritage
14:40	114257	<u>Douglas Mills</u> (University of Northampton, Northampton, United Kingdom) / <u>Katarzyna Schaefer</u> (Maritime Museum of Gdansk, Gdansk, Poland) / <u>Tian Yang Lan</u> (University of Northampton, Northampton, United Kingdom) / <u>Tomasz Wityk</u> (Technical University of Gdansk, Gdansk, Poland): In-situ evaluation of the protectivity of coatings applied to metal cultural artefacts using non-destructive electrochemical measurements
15:00	112202	<u>Laura Brambilla</u> (HE-Arc Conservation-restauration, Neuchâtel, Switzerland) / <u>Fabio Cova</u> (École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland) / <u>Stefano Mischler</u> (École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland): Deterioration of a Douglas C-54 plane exposed to the atmosphere
15:20 - 15:50		Coffe Break

Room 3.5: S4 Level 3		Archaeological and Historical Artefacts
	Chair(s)	<i>Neff / Watkinson</i>
15:50	111972	<u>Johanna Thunberg</u> (Cardiff University, Cardiff, United Kingdom) / <u>Nicola Emmerson</u> (Cardiff University, Cardiff, United Kingdom) / <u>David Watkinson</u> (Cardiff University, Cardiff, United Kingdom): Evidencing best practice in post-excavation and long-term storage protocols for archaeological iron
16:10	117942	<u>Ahmed Awad</u> (National Research Centre, Dokki, Giza, Egypt) / <u>Venice Gouda</u> (National Research Centre, Dokki, Giza, Egypt): Characterization of Collection of Ancient Egyptian Metallic Artifacts from the Egyptian Museum
16:30	115927	<u>Sabrina Grassini</u> (Politecnico di Torino, Torino, Italy) / <u>Emma Angelini</u> (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia, Torino, Italy) / <u>Elisabetta Di Francia</u> (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia, Torino, Italy) / <u>Leonardo Iannucci</u> (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni, Torino, Italy) / <u>Venice Gouda</u> (National Research Centre, Cairo, Egypt) / <u>Luca Lombardo</u> (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni, Torino, Italy) / <u>Marco Parvis</u> (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni, Torino, Italy) / <u>Panayota Vassiliou</u> (National Technical University of Athens, Athens, Greece): Indoor microclimate effect on the conservation state of metallic artefacts
16:50	101437	<u>Jan Ruzicka</u> (National Technical Museum, Prague, Czech Republic): Restoration of a Neo-Baroque zinc inkpot produced at the Komárov Ironworks 1889-1899
17:10 - 17:30		WP 21 Meeting
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.6: S4 Level 3		CO2-Corrosion in Industry
	Chair(s)	<i>Bäßler</i>
10:00	101252	<u>Wilfred Emori</u> (School of Materials Science and Engineering, Sichuan University of Science and Engineering, Zigong, China PR) / <u>Shengli Jiang</u> (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / <u>Yugui Zheng</u> (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / <u>Peter Okafor</u> (Department of Pure and Applied Chemistry, University of Calabar, Calabar, Nigeria): Corrosion behavior of carbon steel in a post-combustion CO ₂ capture system containing sodium sulfide as a contaminant
10:20	118722	<u>Francois Grosjean</u> (IFPEN, Solaize, France) / <u>Jean Kittel</u> (IFP Energies Nouvelles, Solaize, France) / <u>Gauthier Perdu</u> (Prosernat, Paris, France) / <u>Xavier Courtial</u> (Prosernat, Paris, France) / <u>Sandra Le Manchet</u> (Industeel ArcelorMittal, Le Creusot, France) / <u>Valery Ngomo</u> (Industeel Arcelormittal, Le Creusot, France) / <u>Dany Cornut</u> (Industeel Arcelormittal, Le Creusot, France) / <u>Geraldine Laborie</u> (Prosernat, Paris, France): Alternative metallurgies reduce the cost of amine gas treating units
10:40	110037	<u>Shiladitya Paul</u> (TWI, Cambridge, United Kingdom): Materials Performance in Supercritical CO ₂ containing H ₂ S
11:00 - 11:30		Coffe Break

Room 3.6: S4 Level 3		CO2-Corrosion in Industry
	Chair(s)	<i>Bäßler</i>
11:30	103437	<u>Kewei Gao</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Jianan Zou</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Liang Wei</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Xiaolu Pang</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Yanjing Su</u> (University of Science and Technology Beijing, Beijing, China PR): Corrosion Behavior of Low Alloy Steels in Supercritical CO ₂ Environment
11:50	105067	<u>Quynh Hoa Le</u> (BAM-Federal Institute for Materials Research and Testing, Berlin) / <u>Ralph Bäßler</u> (BAM-Federal Institute for Materials Research and Testing, Berlin) / <u>Enrico Buggisch</u> (BAM-Federal Institute for Materials Research and Testing, Berlin) / <u>Dirk Bettge</u> (BAM-Federal Institute for Materials Research and Testing, Berlin) / <u>Axel Kranzmann</u> (BAM-Federal Institute for Materials Research and Testing, Berlin) / <u>Christoph Peetz</u> (BAM - Federal Institute for Materials Research and Testing, Berlin): Electrochemical study on wellbore constellations for CO ₂ injection

Room 3.6: S4 Level 3		JS - Corrosion issues in CO2
	Chair(s)	<i>Bäßler</i>
12:10	114377	<u>Willem Faes</u> (Ghent University, Gent, Belgium) / <u>Kim Verbeken</u> (Ghent University, Gent, Belgium) / <u>Michel De Paepe</u> (Ghent University, Gent, Belgium) / <u>Johan Van Bael</u> (VITO, Mol, Belgium) / <u>Robbe Salenbien</u> (VITO, Mol, Belgium) / <u>Ralph Baessler</u> (BAM, Berlin) / <u>Quynh Hoa Le</u> (Bam, Berlin): Corrosion behaviour of different steel grades in artificial geothermal brines containing CO ₂
12:30	108742	<u>Yan YANG</u> (Department of Mechanical Engineering, Technical University of Denmark, Lyngby, Denmark) / <u>Chuang WEN</u> (Department of Mechanical Engineering, Technical University of Denmark, Lyngby, Denmark): Numerical Prediction of CO ₂ Corrosion in Oil-Water Two-Phase Flow Within Terrain-Inclined Pipelines
12:50 - 14:00		Lunch time

Room 3.5: S4 Level 3		JS - Corrosion issues in CO2
	Chair(s)	<i>Bäßler</i>
14:00 - 14:20		TF Meeting
15:20 - 15:50		Coffe Break

Room 3.5: S4 Level 3		Cathodic Protection
	Chair(s)	<i>Crouzillac / Roche</i>
15:50	102092	<u>Reza Ghorbani</u> (South Pras Gas Complex, Shiraz, Iran) / Rahmatallah Omid (Techin Co, Shiraz, Iran) / Omid Razavizadeh (Sharif University of technology, Tehran, Iran): A Case Study on Mixed Metal Oxide (MMO) Anode Failure of an Above Ground Storage Tank Bottom Plate
16:10	110092	<u>Kresimir Kekez</u> (PA-EL d.o.o., Veliko Trgovisce, Croatia) / Ivan Stojanovic (Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia) / Vinko Simunovic (Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia): Rehabilitation of water heater tanks with advanced cathodic protection
16:30	107617	<u>Javad Khosravi</u> (NIOEC/NIORDC, Tehran, Iran): CATHODIC PROTECTION GROUND-BED EMPLACEMENT- AMBIGUITIES AND REQUIREMENTS
16:50	110892	<u>Stephane Trevin</u> (EDF DTG, Grenoble, France): Electricité de France Feedback Experience with Cathodic Protection on two hydropower plants
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.7: S4 Level 3		Corrosion and Scale Inhibition
	Chair(s)	<i>Schmitt / Hater</i>
10:00	101947	<u>Kostas Demadis</u> (University of Crete, Heraklion, Greece) / Giannis Aristodimou (University of Crete, Heraklion, Greece) / Argyro Spinthaki (University of Crete, Heraklion, Greece): Silica Scale Inhibitors: Current State-of-the-Art
10:40	109647	<u>Ingrid Milosev</u> (Jozef Stefan Institute, Ljubljana, Slovenia) / Dolores Zimerl (Jozef Stefan Institute, Ljubljana, Slovenia) / Sandrine Zanna (CNRS Chimie ParisTech, Paris, France) / Antoine Seyeux (CNRS Chimie ParisTech, Paris, France) / Jernej Iskra (Jozef Stefan Institute, Ljubljana, Slovenia) / Stojan Stavber (Jozef Stefan Institute, Ljubljana, Slovenia) / Matic Poberznik (Jozef Stefan Institute, Ljubljana, Slovenia) / Aniko Nemes (Eotvos Lorand University, Budapest, Hungary) / Dominique Costa (CNRS Chimie ParisTech, Paris, France) / Jozsef Rabai (Eotvos Lorand University, Budapest, Hungary) / Anton Kokalj (Jozef Stefan Institute, Ljubljana, Slovenia) / Philippe Marcus (CNRS Chimie ParisTech, Paris, France): The effect of anchor group and backbone chain on performance of organic compounds as corrosion inhibitors for aluminium investigated using integrative experimental-modeling approach
11:00 - 11:30		Coffe Break

Room 3.7: S4 Level 3		Corrosion and Scale Inhibition
	Chair(s)	<i>Schmitt / Hater</i>
11:30	117997	<u>Frank Uwe Renner</u> (Universiteit Hasselt, Diepenbeek, Belgium) / Shova Neupane (Mrs., Diepenbeek, Belgium) / Patricia Losada-Pérez (Université Libre de Bruxelles, Bruxelles, Belgium): AFM characterization of Cu-based alloys: Force measurements on inhibitor-modified surfaces
11:50	106997	<u>Peyman Taheri</u> (Delft University of Technology, Delft, Netherlands) / Olmo Bottazzi (Delft University of Technology, Delft, Netherlands) / Ingrid Milošev (Jožef Stefan Institute, Ljubljana, Slovenia) / Anton Kokalj (Jožef Stefan Institute, Ljubljana, Slovenia) / Arjan Mol (Delft University of Technology, Delft, Netherlands): Corrosion inhibition of copper, zinc and copper-zinc alloys using imidazole-based compounds with different functional groups
12:10	106732	<u>Aurelie Gouron</u> (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Katell Le Mapihan (TOTAL Research & Technology Feluy, Seneffe, Belgium) / Sheyla Camperos (Total Research and Technology Gonfreville, Harfleur, France) / Ahmad Al Farra (Total Research and Technology Gonfreville, Harfleur, France) / Virginie Lair (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Armelle Ringuedé (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Michel Cassir (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Boubakar Diawara (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France): Theoretical Study of Self-Assembled Monolayer of Imidazolines on Iron Oxide
12:30	106167	<u>Ekatarina Kristan Mioč</u> (Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, Croatia) / Benjamin Riaudet (National Polytechnic Institute of Chemical Engineering and Technology, Toulouse, France) / Zana Hajdari Gretić (Pliva Croatia d.o.o., Zagreb, Croatia) / <u>Helena Otmačić Čurković</u> (Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, Croatia): The effect of electrolyte flow rate on corrosion inhibition by self-assembled films of long-chain phosphonic acid
12:50 - 14:00		Lunch time

Room 3.7: S4 Level 3		Corrosion and Scale Inhibition
	Chair(s)	Schmitt / Hater
14:00	102322	Juergen Matheis (Kurita Europe GmbH, Ludwigshafen) / <u>Wolfgang Hater</u> (Kurita Europe GmbH, Ludwigshafen) / Florian Wolf (Kurita Europe GmbH, Ludwigshafen): Phosphorous- and heavy-metal-free corrosion inhibition for open cooling systems based of filming amines
14:20	114167	<u>Ioannis Kartsonakis</u> (National Technical University, Zografos, Greece) / Evaggelia Karaxi (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece) / Panagiota Stamatogianni (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece) / Panagiotis Kavouras (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece) / Costas Charitidis (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece): Assessment of corrosion inhibitive behavior of 2-mecraptobenzothiazole and sodium phosphate dibasic on industrial steel pipelines
14:40	116302	<u>Marco Oliveira</u> (CICECO, DEMaC, University of Aveiro, Aveiro, Portugal) / Silvar Kallip (Institute of Chemistry, University of Tartu, Tartu, Estonia) / Alexandre Bastos (CICECO, DEMaC, University of Aveiro, Aveiro, Portugal) / Theodor Hack (Airbus Central R&T, Munich) / Mikhail Zheludkevich (Magnesium Innovation Centre–MagIC, Helmholtz-Zentrum Geesthacht (HZG), Geesthacht) / Mário Ferreira (CICECO, DEMaC, University of Aveiro, Aveiro, Portugal): A look into the inhibition mechanisms of mixtures containing RE trivalent ions and organic compounds.
15:00	107882	Vesna Alar (Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia) / <u>Ivan Stojanovic</u> (Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia) / Boris A. Miskic (Cortec Corporation, St. Paul, Minnesota, United States of America) / Ivana Radic Borsic (Cortec Corporation Europe, Zagreb, Croatia) / John Wulterkens (Cortec Corporation, St. Paul, United States of America): Corrosion Inhibitors for Protection of Galvanized Steel in Aqueous Solutions
15:20 - 15:50		Coffe Break

Room 3.7: S4 Level 3		Corrosion and Scale Inhibition
	Chair(s)	Schmitt / Hater
15:50	115522	<u>Sviatlana Lamaka</u> (Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht , Geesthacht) / Junjie Yang (Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht , Geesthacht) / Kiryl Yasakau (CICECO - Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal) / Alina Maltseva (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris , Paris, France) / Di Mei (Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht , Geesthacht) / Carsten Blawert (Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht , Geesthacht) / Polina Volovitch (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris, Paris, France) / Mikhail Zheludkevich (Magnesium Innovation Centre, Helmholtz-Zentrum Geesthacht , Geesthacht): High inhibiting effect of selected carboxylates on magnesium corrosion
16:10	101716	<u>ARGYRO SPINTHAKI</u> (University of Crete, Heraklion Crete, Greece) / Konstantinos Demadis (University of Crete, Heraklion, Greece) / Duygu Disci-Zayed (Kurita Europe GmbH, Ludwigshafen) / Wolfgang Hater (Kurita Europe GmbH, Ludwigshafen): The Influence of Charge Density of Anionic Macromolecules in Magnesium Silicate Inhibition: Relevance to Geothermal Systems
16:30 - 17:30		WP1 Meeting
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.8: S4 Level 3		JS Cathodic Protection in Civil Engineering
	Chair(s)	
10:00	102036	<u>Nikita Rathod</u> (Vector Corrosion Technologies & University of Birmingham, Cradley Heath, United Kingdom) / George Sergi (Vector Corrosion Technologies, Cradley Heath, United Kingdom) / Gamini Seneviratne (Vector Corrosion Technologies, Cradley Heath, United Kingdom) / Peter Slater (University of Birmingham, Birmingham, United Kingdom) / David Simpson (Vector Corrosion Technologies, Cradley Heath, United Kingdom): A Suggestion for a Two-Stage Cathodic Protection System for Steel Reinforced Concrete Structures
10:20	113897	<u>Oskar Klinghoffer</u> (FORCE Technology, Brøndby, Denmark) / Brián Kofoed (FORCE Technology, DK-2605 Brøndby, Denmark) :Application of an Impressed Current Cathodic Protection System to the Steel End Frames of the Øresund Tunnel
10:40	107662	<u>Xavier Hallopeau</u> (Freyssinet International & Cie, Rueil Malmaison, France) / Arnaud Meillier (Freyssinet France, Rueil Malmaison, France) / Olivier Lesieutre (Freyssinet France, Rueil Malmaison, France): NRL project, an innovative cathodic prevention solution for steel in concrete
11:00 - 11:30		Coffe Break

Room 3.8: S4 Level 3		JS Cathodic Protection in Civil Engineering
		Chair(s)
11:30	101492	<u>Atef Cheaitani</u> (Remedial Technology Pty Ltd, Greenwich, Australia) / <u>Samir Cheytani</u> (Remedial Technology Pty Ltd, Greenwich, Australia): Future Directions for Designing Low Maintenance Impressed Current Concrete Cathodic Protection Systems
11:50	107682	<u>Xavier Hallopeau</u> (Freysinet International & Cie, Rueil Malmaison, France) / <u>Olivier Lesieutre</u> (Freysinet France, Rueil Malmaison, France) / <u>Arnaud Meillier</u> (Freysinet France, Rueil Malmaison, France): Saint Cloud Viaduct: cathodic protection repair solution on one of the main entry of Paris
12:10	111537	<u>Elie Sassine</u> (LMDC, Université de Toulouse, INSA, UPS, France, TOULOUSE, France): Spatial distribution of the impressed current applied for cathodic prevention/protection of a two-layers steel reinforced mortar beam
12:50 - 14:00		Lunch time

Room 3.8: S4 Level 3		Corrosion of Steel in Concrete
		Chair(s)
14:00	108777	<u>Elke Ziehensack</u> (Technical University of Munich, Munich) / <u>Sylvia Keßler</u> (Technical University of Munich, Munich) / <u>Ueli Angst</u> (ETH Zurich, Zurich, Switzerland) / <u>Christoph Gehlen</u> (Technical University of Munich, Munich): Estimation of diffusion potentials by experiments with natural stone
14:20	110227	<u>Darja Pecko</u> (Vrije Universiteit Brussel, Department of Materials and Chemistry, Research Group Electrochemical and Surface Engineering, Brussel, Belgium) / <u>Hilke Verbruggen</u> (Vrije Universiteit Brussel, Department of Materials and Chemistry, Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / <u>Iris De Graeve</u> (Vrije Universiteit Brussel, Department of Materials and Chemistry, Research Group Electrochemical and Surface Engineering, Brussels, Belgium) / <u>Herman Terryn</u> (Vrije Universiteit Brussel, Department of Materials and Chemistry, Research Group Electrochemical and Surface Engineering, Brussel, Belgium) / <u>Johan Deconinck</u> (Vrije Universiteit Brussel, Department of Materials and Chemistry, Research Group Electrochemical and Surface Engineering, Brussel, Belgium): Numerical modelling of the transport of aggressive species through variously cracked concrete and their influence on the corrosion rate of the steel rebar
14:40	107782	<u>Sylvia Keßler</u> (Technical University of Munich, Munich): Preliminary reinforcement corrosion tests on self healing filler material in cracked concrete
15:00	104812	<u>Fujian Tang</u> (State Key Laboratory of Coastal and Offshore Engineering, School of Civil Engineering, Dalian University of Technology, Dalian, China PR) / <u>Lushuai Bai</u> (State Key Laboratory of Coastal and Offshore Engineering, School of Civil Engineering, Dalian University of Technology, Dalian, China PR) / <u>Gang Li</u> (State Key Laboratory of Coastal and Offshore Engineering, School of Civil Engineering, Dalian University of Technology, Dalian, China PR) / <u>Genda Chen</u> (Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, United States of America) / <u>Hong-Nan Li</u> (State Key Laboratory of Coastal and Offshore Engineering, School of Civil Engineering, Dalian University of Technology, Dalian, China PR): Probabilistic modeling of corrosion-induced crack width in reinforced concrete
15:20 - 15:50		Coffe Break

Room 3.8: S4 Level 3		Corrosion of Steel in Concrete
		Chair(s)
15:50	101347	<u>Amir Asgharzadeh</u> (Institute of Building Materials Research, Aachen) / <u>Michael Raupach</u> (Institute of Building Materials Research, Aachen): Durability Tests on Carbon-Textiles in Pore Solution for Cathodic Corrosion Protection
16:10	116487	<u>Kim-Khanh LE</u> (CNRS/IPNO, Orsay, France) / <u>Sylvie DELPECH</u> (CNRS/IPNO, Orsay, France) / <u>Nicole BARRE</u> (CNRS/IPNO, Orsay, France) / <u>Céline CAU DIT COUMES</u> (CEA/DEN, Bagnols-sur-Cèze, France) / <u>David LAMBERTIN</u> (CEA/DEN, Bagnols-sur-Cèze, France) / <u>Céline CANNES</u> (CNRS/IPNO, Orsay, France): Steel corrosion in magnesium phosphate cement and geopolymer matrices proposed for Al and Mg-Zr alloy wastes storage
16:30	118327	<u>Yuanhua Lin</u> (Southwest Petroleum University, Chengdu, China PR) / <u>Ye Peng</u> (Southwest Petroleum University, Chengdu, China PR) / <u>Li Liu</u> (Southwest Petroleum University, Chengdu, China PR): Research on passivation characteristic of P110 steel in alkaline solution
16:50	116552	<u>Gino Ebell</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Jürgen Mietz</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin): Post-treatment of galvanized reinforcement as prevention of hydrogen evolution in fresh concrete
17:10	105027	<u>Kotaro Doi</u> (National Institute for Materials Science, Tsukuba Ibaraki, Japan) / <u>Sachiko Hiromoto</u> (National Institute for Materials Science, Tsukuba Ibaraki, Japan) / <u>Eiji Akiyama</u> (Tohoku University, Sendai Miyagi, Japan): Accelerated Corrosion of Reinforcing Steel in Mortar by Supplying Pressured Oxygen Gas
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 3.9: S4 Level 3		Corrosion by Hot Gases
	Chair(s)	<i>T. Boll</i>
10:00	120480	Mathias C. Galetz (DECHEMA Forschungsinstitut, Frankfurt) / Ellen Berghof-Hasselbächer (DECHEMA Forschungsinstitut, Frankfurt) / <u>Ali Solimani</u> (DECHEMA Forschungsinstitut, Frankfurt): Creep-oxidation behavior of cast alloy 20Cr-32Ni-1Nb and its weld joints in air
10:20	106977	Celine Pascal (Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, Grenoble, France) / Audrey Col (Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, Grenoble, France) / Valerie Parry (Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, Grenoble, France): Effect of cold-work on the oxidation resistance of AISI 304L in O ₂ atmosphere
10:40	117812	<u>Enhui Wang</u> (University of Science and Technology Beijing, Beijing, China PR) / Yafeng Chen (University of Science and Technology Beijing, Beijing, China PR) / Zhi Fang (University of Science and Technology Beijing, Beijing, China PR) / Kuochih Chou (University of Science and Technology Beijing, Beijing, China PR) / Xinmei Hou (University of Science and Technology Beijing, Beijing, China PR): Oxidation behavior and mechanism of 5 wt.% Cr ferritic steel in air
11:00 - 11:30		Coffe Break

Room 3.9: S4 Level 3		Corrosion by Hot Gases
	Chair(s)	<i>T. Boll</i>
11:30	118432	<u>Juliusz Dabrowa</u> (AGH University of Science and Technology, Kraków, Poland) / Grzegorz Cieślak (Warsaw University of Technology, Warsaw, Poland) / Mirosław Stygar (AGH University of Science and Technology, Kraków, Poland) / Aleksander Gil (AGH University of Science and Technology, Kraków, Poland) / Tadeusz Kulik (Warsaw University of Technology, Warsaw, Poland) / Marek Danielewski (AGH University of Science and Technology, Kraków, Poland): Oxidation behavior of Al _x (CoCrFeNi) _{100-x} high entropy alloys
11:50	110562	Maria Mosquera Feijoo (Federal Institute for Materials Research and Testing, Berlin) / <u>Axel Kranzmann</u> (Federal Institute for Materials Research and Testing, Berlin) / Jürgen Olbricht (Federal Institute for Materials Research and Testing, Berlin): Impact of thermal cycles on the stability of grown oxide layers on 9 - 12 % Cr steels under water steam
12:10 - 12:50		WP3 Meeting
12:50 - 14:00		Lunch time

Room 3.9: S4 Level 3		WCO Session
	Chair(s)	
14:00 - 15:00		WCO Board of Administrators Meeting
15:00 - 15:40		WCO General Assembly Meeting
15:20 - 15:50		Coffe Break

Room 3.9: S4 Level 3		JS Polymers in Organic Coating
	Chair(s)	<i>W. Fürbeth / J. Heinemann</i>
15:50	105837	<u>Dan Persson</u> (Swerea KIMAB AB, Kista, Sweden) / Golrokh Heydari (SSAB Europe, Kista, Sweden) / Camilla Edvinsson (Swerea KIMAB AB, Kista, Sweden) / Per-Erik Sundell (SSAB Europe, Kista, Sweden): Degradation of polyester melamine pre-coated steel during accelerated and long-term outdoor testing
16:10	104287	<u>Hiroyuki Tanabe</u> (Global Protective Coating Research, Yokohama, Japan): The Progress of Developing Fluoropolymer Topcoat Systems - On-site weathering results and laboratory performance testing-
16:30	119830	<u>Niels M Christensen</u> (Accoat A/S, Kvistgaard, Denmark) / Helle G Brouzes (Accoat A/S, Kvistgaard, Denmark): Fluoropolymer coatings in harsh environments
16:50	106062	David Morton (Hempel A/S, Copenhagen, Denmark) / Liliana Madeleno (Hempel A/S, Copenhagen, Denmark) / <u>Benjamin Chaloner-Gill</u> (Chevron Energy Technology Company, Richmond, United States of America) / Martin Quintero (Chevron Energy Technology Company, Richmond, Uruguay) / Amal Al-Borno (Charter Coatings Service (2000) Ltd, Calgary, Canada) / Clara Perez Hornero (Hempel A/S, Copenhagen, Denmark) / Maral Rahimi (Hempel A/S, Copenhagen, Denmark): Volumetric Water Repellent Coatings for Offshore Corrosion Protection
	107537	Azusa Ishii (NTT Device Innovation Center, NTT Corporation, Atsugi-shi, Kanagawa Pref., Japan) / Takashi Miwa (NTT Device Innovation Center, NTT Corporation, Atsugi-shi, Kanagawa Pref., Japan) / Hiroshi Koizumi (NTT Device Innovation Center, NTT Corporation, Atsugi-shi, Kanagawa Pref., Japan): Comparison of the influence of water on degradation of poly (ethylene terephthalate) between indoor accelerated weathering and outdoor exposure tests
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 2.1: G1 Level 3		Electronic Devices
	Chair(s)	H. Schweigart / M. Jellesen
10:00	108512	Feng Li (Technical University of Denmark, Department of Mechanical Engineering, Section of Materials and Surface Engineering, Lyngby, Denmark) / Vadimas Verdingovas (Technical University of Denmark, Department of Mechanical Engineering, Section of Materials and Surface Engineering, Kgs. Lyngby, Denmark) / Kai Dirscherl (Danish National Metrology Institute, Hørsholm, Denmark) / Bálint Medgyes (Budapest University of Technology and Economics, Department of Electronics Technology, Budapest, Hungary) / Rajan Ambat (Technical University of Denmark, Department of Mechanical Engineering, Section of Materials and Surface Engineering, Kgs. Lyngby, Denmark): Effect of Intermetallic Compounds on the Corrosion Reliability of Lead-free Solder Alloys
10:20	121040	Balakrishnan Munirathinam (Department of Materials Science and Engineering Department, Delft University of Technology, Delft, Netherlands) / A. Herrmann (Department of Applied Physics, Eindhoven University of Technology, Eindhoven, Netherlands) / Willem D. van Driel (Philips Lighting, High Tech Campus, Eindhoven, Netherlands) / Michiel Van Soestbergen (NXP Semiconductors, Nijmegen, Netherlands) / Amar Mavinkurve (NXP Semiconductors, Nijmegen, Netherlands) / Francois De Buyl (Dow Silicones Belgium s.p.r.l., Seneffe, Belgium) / S.J.F. Erich (Department of Applied Physics, Eindhoven University of Technology, Eindhoven, Netherlands) / L.G.J. v.d. Ven (Department of Applied Physics, Eindhoven University of Technology, Eindhoven, Netherlands) / O.C.G. Adan (Department of Applied Physics, Eindhoven University of Technology, Eindhoven, Netherlands) / J.M.C. Mol (Department of Materials Science and Engineering Department, Delft University of Technology, Delft, Netherlands): Water and ion transport process along silicone/silver interfaces in electronic packaging
10:40	111517	Bálint Medgyes (BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, Budapest, Hungary) / László Gál (BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, BUDAPEST, Hungary) / Gábor Harsányi (BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, Budapest, Hungary): Investigations of electrochemical migration on Mn-doped lead-free solder alloys
11:00 - 11:30		Coffe Break

Room 2.1: G1 Level 3		Electronic Devices
	Chair(s)	H. Schweigart/M. Jellesen
11:30	107792	Kim Albert Schmidt (FORCE Technology, Hoersholm, Denmark): Practical experiences from accelerated salt mist testing of electronic equipment
11:50	117317	Terry Munson (Foresite Inc, Kokomo, United States of America): The Reliability Impact of Low Standoff Packages - Flux Entrapment
12:50 - 14:00		Lunch time

Room 2.1: G1 Level 3		Cathodic Protection
	Chair(s)	
14:00 - 15:20		WP 16 + Ceocor
15:20 - 15:50		Coffe Break
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

Room 2.2: G1 Level 3		Corrosion in the Refinery and Petrochemistry Industry
	Chair(s)	
11:30 - 12:50		WP 15 Meeting
12:50 - 14:00		Lunch time
14:00 - 15:20		WP 15 Meeting
15:20 - 15:50		Coffe Break

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 2.2: G1 Level 3		Environment Sensitive Fracture
	Chair(s)	<i>K. Wolski</i>
15:50	101742	HAN YAN (1. CNPC Tubular Goods Research Institute, Xi'an, Shaanxi 710077, China; 2. State Key Laboratory for Performance and Structure Safety of Petroleum Tubular Goods and Equipment Materials, Xi'an, Shaanxi 710077, China., Xi'an, China PR) / Zhao Xuehui (CNPC Tubular Goods Research Institute, Xi'an, China PR): Failure Analysis on Fracture of N80 Tubing
16:10	116372	Lorenzo Fedrizzi (University of Udine, Udine, Italy) / Alex Lanzutti (University of Udine, Udine, Italy) / Michele Magnan (University of Udine, Udine, Italy): Unexpected corrosion fatigue failure of a CoCrMo hip prosthesis
16:30	117532	Rodrigo R. A. Garcia (LNDC/UFRJ, Rio de Janeiro, Brazil) / Alessandro S. de Lima (LNDC/UFRJ, Rio de Janeiro, Brazil) / Carlos Augusto (Petrogal, Rio de Janeiro, Brazil) / Miguel Maia (Petrogal, Rio de Janeiro, Brazil) / Oscar R. Mattos (UFRJ, Rio de Janeiro, Brazil): Fatigue Crack Growth Rate Techniques in Environments under Low and High Pressure
16:50	117107	Arash Shadravan (Texas A&M University , College Station, United States of America) / Raymundo Case (Texas A&M University, College Station, United States of America): Investigating Hydrogen Embrittlement in a Nano-structured Steel
17:10 - 17:30		WP5 Meeting
17:30 - 19:00		Poster Party / Poster Discussion - Foyer: 0, 1 st and 2 nd level
20:30 - 21:30		Organum Academic Choir concert - Church of Saint Catherine of Alexandria

WEDNESDAY, SEPTEMBER 12, 2018: LECTURES

Room: 0.1 Auditorium	
9:00 - 9:45	Plenary Lecture: Dr. rer. nat. Joerg Alfred Vogelsang Testing of coatings in industrial context: expectations and limitations
9:45 - 10:00	Break for changing Lecture Hall

Room: 0.1A S5 -2nd level		JS Accelerated Corrosion Testing
	Chair(s)	<i>E. Szala / T. Hack</i>
10:00	104232	Darja Pecko (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium) / Daan De Wilde (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium) / Annick Hubin (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium) / Tom Hauffman (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium) / Guy Van Assche (Vrije Universiteit Brussel, Department of Materials and Chemistry, Physical Chemistry and Polymer Science , Research Group, Brussels, Belgium) / Nils Van Den Steen (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium) / Hans Simillion (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium) / Michael Rohwerder (Max-Planck-Institut für Eisenforschung , Interface Chemistry and Surface Engineering, Dusseldorf) / Johan Deconinck (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium) / Herman Terryn (Vrije Universiteit Brussel, Department of Materials and Chemistry Research Group, Electrochemical and Surface Engineering, Brussels, Belgium): Knowledge and technology platform for prediction of durability and lifetime of organic coated metals under long-term environmental corrosion
10:20	120935	Fabien Brambilla (Airbus Helicopters, Metallic Materials and Surface Treatment for Blades, Dugny, France) / Elisa Campazzi (Airbus Helicopters, Expert in Coating Technologies Field, Material & Process Laboratory,, Dugny, France): Accelerated corrosion testing: a predictive tool
10:40	108802	Benjamin Krawczyk (University of Manchester, Manchester, United Kingdom) / Dirk Engelberg (University of Manchester, Manchester, United Kingdom): Accelerated Stress Corrosion Cracking Testing in HCl Containing Atmospheric Environments
11:00 - 11:30		Coffe Break

Room: 0.1A S5 -2nd level		Corrosion in Aerospace
	Chair(s)	
		T. Hack
11:30	113437	Peter Visser (Delft University of Technology, Delft, Netherlands) / Arjan Mol (Delft University of Technology, Delft, Netherlands) / Herman Terryn (Vrije Universiteit Brussel, Brussel, Belgium): Active protective properties of lithium leaching coatings for aluminium alloys
11:50	118772	Paul Denissen (Delft University of Technology, Delft, Netherlands) / Santiago Garcia (Delft University of Technology, Delft, Netherlands): Exploring long-term protection at large damage sites in aerospace coatings using inhibitor and carrier synergies
12:10	111077	Peter Rodič (University of Udine, Polytechnic Department of Engineering and Architecture, Udine, Italy) / Ingrid Milošev (Jožef Stefan Institute, Department of Physical and Organic Chemistry, Ljubljana, Slovenia) / Maria Lekka (University of Udine, Polytechnic Department of Engineering and Architecture, Udine, Italy) / Francesco Andreatta (University of Udine, Polytechnic Department of Engineering and Architecture, Udine, Italy) / Lorenzo Fedrizzi (University of Udine, Polytechnic Department of Engineering and Architecture, Udine, Italy): Corrosion protection of AA2024-T3 by "smart" coatings containing cerium nanoreservoirs
12:30	112747	Mohamed Ebn Touhami (Faculty of Science - University Ibn Tofail, Kenitra, Morocco) / Nadia Dkhireche (Faculty of science, Kenitra, Morocco) / Redouan Melian (Faculty of science, Kenitra, Morocco) / Morad Radi (Faculty of science, Kenitra, Morocco) / Mouhsine Galai (Faculty of science, Kenitra, Morocco): Experimental investigation of corrosion inhibition of Aluminums alloy alloy 2024-T3 in 3.5% of NaCl
12:50 - 14:00		Lunch time

Room: 0.1A S5 -2nd level		Corrosion in Aerospace
	Chair(s)	
		M. Zheludkevich
14:00	118922	Manuel Garcia-Rubio (Airbus Operations S.L., Getafe, Spain): Galvanic coupling monitoring of aeronautical materials during cyclic tests
14:20	110762	Ralf Feser (University of Applied Sciences, Iserlohn) / Ulrich Kuipers (University of Applied Sciences, Hagen): Measurement of Electrochemical properties of carbon fiber reinforced polymer parts to determine galvanic properties with TREMA
14:40	112657	Siva Palani (Corrdesa LLC, Tyrone, United States of America) / Keith Legg (Corrdesa LLC, Tyrone, United States of America) / Alan Rose (Corrdesa LLC, Tyrone, United States of America): Upgrading specifications and prediction methods to reduce aircraft corrosion
15:00	109832	Roland Oltra (CNRS/ ICB, UMR CNRS 6303, Université Bourgogne Franche Comté, DIJON, France) / Rémy BONZOM (CNRS/ICB, UMR CNRS 6303, Université Bourgogne Franche Comté, DIJON, France): Real time conductivity monitoring on witness AA2024 thin foils: comparison of localized corrosion propagation under spray and immersion exposures.
15:20	115917	Agnieszka Franczak (Elsyca N.V., Leuven, Belgium) / Christophe Baeté (Elsyca N.V., Leuven, Belgium) / Bart van den Bossche (Elsyca N.V., Leuven, Belgium): Computer aided analysis as an assistance to corrosion control and reduction
15:40 - 16:10		Coffe Break

Room: 0.1A S5 -2nd level		Corrosion in Aerospace
	Chair(s)	T. Hack
16:10	104462	Carla Sofia Proença (Faculdade de Ciências, Universidade de Lisboa, Lisbon, Portugal) / Ana Marisa Pereira (ISQ – Instituto de Soldadura e Qualidade, Oeiras, Portugal) / Ana Cabral (ISQ – Instituto de Soldadura e Qualidade, Oeiras, Portugal) / E. Vaz (ISQ – Instituto de Soldadura e Qualidade, Oeiras, Portugal) / Lucia Pigliaru (ESTEC-ESA, Noordwijk, Netherlands) / T. Rohr (ESTEC-ESA, Noordwijk, Netherlands) / Maria Eduarda Araújo (Faculdade de Ciências, Universidade de Lisboa, Lisbon, Portugal) / Jorge Correia (Faculdade de Ciências, Universidade de Lisboa, Lisbon, Portugal): Characterization and performance of a trivalent chromium pre-treatment conversion coating on aluminium alloys used in aeronautical and aerospace industry
16:30	108347	Xavier Verdalet-Guardiola (CIRIMAT / Mecaprotec Industries, Toulouse, France) / Benoît Fori (Mecaprotec Industries, Muret, France) / Sandrine Duluard (CIRIMAT, Toulouse, France) / Jean-Pierre Bonino (CIRIMAT, Toulouse, France) / Christine Blanc (CIRIMAT, Toulouse, France): Growth mechanism and anti-corrosive properties of trivalent chromium conversion coating on 2024-T3 aluminium alloy
16:50	115167	Ivan Medvedev (All-Russian Scientific-Research Institute of Aviation Materials (FSUE , Moscow, Russia): Investigation of aluminum alloys oxide coatings' degradation in a corrosive environment
17:10	112677	Maysa Terada (Brazilian Nanotechnology National Laboratory, Campinas, Brazil) / Fernanda M. Queiroz (Polytechnic School of the University of São Paulo, Sao Paulo, Brazil) / Victor Hugo Ayusso (Nuclear and Energy Research Institute, Sao Paulo, Brazil) / Hellen Costenaro (Polytechnic School of the University of São Paulo, Sao Paulo, Brazil) / Marie-Georges Olivier (University of Mons, Mons, Belgium) / Hercilio G. de Melo (Polytechnic School of the University of São Paulo, Sao Paulo, Brazil) / Isolda Costa (Nuclear and Energy Research Institute, Sao Paulo, Brazil): Corrosion resistance of TSA AA2024-T3 sealed with Ce and protected with hybrid sol-gel coating
17:30 - 18:30		WP 22 Meeting
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 0.1: Auditorium Level 0		Inorganic Coatings
	Chair(s)	M. Olivier / M. Fedel
10:00	108607	Davide Prando (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta", Milan, Italy) / Andrea Brenna (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta" , Milan, Italy) / Maria Vittoria Diamanti (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta" , Milan, Italy) / Marco Ormellese (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta", Milan, Italy) / MariaPia Pedferri (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta", Milan, Italy): Chemical oxidation as repairing technique of damaged corrosion resistance enhanced anodic oxide film
10:20	117562	Marielle Eyraud (Aix Marseille Université, Marseille, France) / Carine Parrin-Pellegrino (Aix-Marseille Université, CNRS, IM2NP UMR 7334, Marseille, France) / Vanessa Coulet (Aix-Marseille Université, CNRS, MADIREL UMR 7246, Marseille, France) / Amelie Demoulin (Aix-Marseille Université, CNRS, MADIREL UMR 7246, Marseille, France) / Julien Chaves-Jacob (Aix-Marseille Université, CNRS, ISM UMR 7287, Marseille, France) / Jean-Marc Linares (Aix-Marseille Université, CNRS, ISM UMR 7287, Marseille, France) / Erick Dousset (Aix-Marseille Université, CNRS, ISM UMR 7287, Marseille, France): Comparison of surface treatments on TA6V alloy to enhance corrosion protection and bio integration for medical application
10:40	106412	Matilda Zemanova (Slovak University of Technology in Bratislava, Bratislava, Slovakia) / Jana Záchenská (Slovak University of Technology in Bratislava, Bratislava, Slovakia) / Jana Madejová (Slovak Academy of Sciences, Bratislava, Slovakia): The influences of sealing methods on corrosion behaviour of anodized aluminium in alkaline solutions
11:00 - 11:30		Coffe break

Room 0.1: Auditorium Level 0		Inorganic Coatings
	Chair(s)	<i>M. Olivier / M. Fedel</i>
11:30	112067	Vincent CARTIGNY (Institut Jean Lamour, Vandoeuvre-lès-Nancy, France) / Delphine VEYS-RENAUX (Institut Jean Lamour, Vandoeuvre-lès-Nancy, France) / Patricia DESENNE (Aptar Annecy (Graphocolor), Annecy, France) / Emmanuel ROCCA (Institut Jean Lamour, Vandoeuvre-lès-Nancy, France): A rapid sealing process of nanoporous aluminium anodic layer after anodizing
11:50	103342	Loïc Prince (Departement of Materials Science, Materials Engineering Research Center (CRIM), University of Mons, Mons, Belgium) / Marie-Georges Olivier (Departement of Materials Science, materials Engineering Research Center (CRIM), University of Mons, Mons, Belgium): Effect of the electrolyte nature on corrosion of anodizing AZ31 magnesium alloy
12:10	108042	Delphine VEYS-RENAUX (Université de Lorraine, Vandoeuvre les Nancy, France) / Alexandre Zimmer (Université de Lorraine, Metz, France) / Nicolas Stein (Université de Lorraine, Metz, France) / Emmanuel Rocca (Université de Lorraine, Vandoeuvre les Nancy, France): A description of the anodizing stages of magnesium in alkaline media over a large potential range
12:30 - 12:50		WP 14 Meeting
12:50 - 14:00		Lunch time

Room 0.1: Auditorium Level 0		Pretreatments
	Chair(s)	<i>M. Ferreira / F. Andreatta</i>
14:00	103297	Alessio Giorgio Settini (Department of Industrial Engineering, University of Padova, Padova, Italy, Padova, Italy) / Luca Pezzato (Department of Industrial Engineering, University of Padova, Padova, Italy, Padova, Italy) / Katya Brunelli (Department of Industrial Engineering, Department of Civil, Constructional and Environmental Engineering, University of Padova, Padova, Italy, Padova, Italy) / Manuele Dabalà (Department of Industrial Engineering, University of Padova, Padova, Italy, Padova, Italy): Effect of chromate conversion coating on the galvanic corrosion behaviour of brass coupled with different metal alloys in two aggressive solutions
14:20	111202	Christine Blanc (CIRIMAT, Toulouse Cedex 4, France) / Romain Saillard (CIRIMAT, Toulouse Cedex 4, France) / Bernard Viguièr (CIRIMAT, Toulouse Cedex 4, France) / Grégory Odemer (CIRIMAT, Toulouse Cedex 4, France) / Benoit Fori (Mecaprotec Industries, Muret, France): IMPACT OF THE 2024 ALUMINIUM ALLOY MICROSTRUCTURE ON THE PROTECTIVE PROPERTIES OF TRIVALENT CHROMIUM CONVERSION LAYER
14:40	116702	Jolanta Swiatowska (PSL Research University, Institut de Recherche de Chimie Paris, CNRS - Chimie ParisTech, Paris, France) / Alexandre Romaine (PSL Research University, Institut de Recherche de Chimie Paris, CNRS - Chimie ParisTech, Paris, France) / Dimitri Mercier (PSL Research University, Institut de Recherche de Chimie Paris, CNRS - Chimie ParisTech, Paris, France) / Sandrine Zanna (PSL Research University, Institut de Recherche de Chimie Paris, CNRS - Chimie ParisTech, Paris, France) / Antoine Seyeux (PSL Research University, Institut de Recherche de Chimie Paris, CNRS - Chimie ParisTech, Paris, France) / Benoit Fori (Mecaprotec Industries, Muret, France) / Philippe Marcus (PSL Research University, Institut de Recherche de Chimie Paris, CNRS - Chimie ParisTech, Paris, France): Mechanism of TCP post-treatment process applied to Trivalent Chromium Protection (TCP) coating deposited on Aluminium Alloy 2024
15:00	112482	Laura-Lynn Fockaert (Delft University of Technology, Delft, Netherlands) / Berend Boelen (Tata Steel, IJmuiden, Netherlands) / Herman Terryn (Vrije Universiteit Brussel, Brussel, Belgium) / J. M. C. Mol (Delft University of Technology, Delft, Netherlands) / Maxine Ankora (TU Delft, Delft, Netherlands): The effect of organic additives to Zr/Ti-based conversion treatments on the adhesion of polymer coatings on galvanized steel
15:20	104952	Ilya Ostrovsky (Chemetall GmbH, Frankfurt am Main) / Patrick Keil (BASF Coatings GmbH, Münster): Mg-alloys: Active Cr-free protection pre-treatment
15:40 - 16:10		Coffe break

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 0.1: Auditorium Level 0		Metallic Coatings
	Chair(s)	
		M. Ferreira / F. Andreatta
16:10	110172	Tiffany Calascibetta (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Willi Peters (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Alexander Donchev (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Marjorie Cavarroc (SAFRAN Tech, Magny-Les-Hameaux, France) / Stéphane Knittel (SAFRAN Aircraft Engines, Evry, France) / Mathias Galetz (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Michael Schütze (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Daniel Monceau (CIRIMAT-ENSIACET, Toulouse, France) / Klaus-Michael Mangold (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Jean-Francois Drillet (DECHEMA-Forschungsinstitut, Frankfurt am Main): High-temperature oxidation resistant coatings for TiAl-based alloys by electrochemical plating
16:30	104882	Kamran Ali (Center for Advanced Materials, Qatar University, P. O. Box 2713, Doha, Qatar, Doha, Qatar) / Mohammed Himyan (Center for Advanced Materials, Qatar University, P. O. Box 2713, Doha, Qatar, Doha, Qatar) / Taif Alsalama (Center for Advanced Materials, Qatar University, P. O. Box 2713, Doha, Qatar, Doha, Qatar) / <u>Abdul Shakoor</u> (Center for Advanced Materials, Qatar University, P. O. Box 2713, Doha, Qatar, Doha, Qatar) / Ramazan Kahraman (Departments of Chemical Engineering, College of Engineering, Qatar University, P. O. Box 2713, Doha, Qatar, Doha, Qatar) / Moinuddin Yusuf (Center for Advanced Materials, Qatar University, P. O. Box 2713, Doha, Qatar, Doha, Qatar) / Fatima Montemor (Centro de Quimica Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal, Lisboa, Portugal) / Ahmed Bahgat Radwan (Qatar University, Doha, Qatar): Effect of Nanoscale Y2O3 Particles on the Properties of Ni-P Electrodeposited Coatings
16:50	103322	Yanbin Huang (Academy of Army Armored Forces, Beijing, China PR) / Jun-xiong HUANG (Academy of Army Armored Forces, Beijing, China PR) / Quan XU (Academy of Army Armored Forces , Beijing, China PR): Preparation and Properties of CNTs-Ni-P Electroless Composite Coatings
17:10	115782	<u>Bander Aldaajani</u> (Dublin City University, Dublin, Ireland) / Sultan AlMutairi (Saudi Aramco, Dhahran, Saudi Arabia) / Khaled Benyounis (DCU, Dublin, Ireland) / Joseph Stoles (DCU, Dublin, Ireland): Design of experiment of micro-sized and nanostructured HVOF WC-12Co coating HVOF for Erosion Performance
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	
		J.Pan
10:00	106107	Vincent Maurice (PSL Research University / CNRS - Chimie ParisTech, Paris, France) / Li Ma (PSL Research University / CNRS - Chimie ParisTech, Paris, France) / Frédéric Wiame (PSL Research University / CNRS - Chimie ParisTech, Paris, France) / Philippe Marcus (PSL Research University / CNRS - Chimie ParisTech, Paris, France): Nanoscale early oxidation of austenitic stainless steel studied by STM on single-crystalline Fe-18Cr-13Ni
10:20	102001	Yan Han Liew (NUS Graduate School, Centre for Life Sciences, National University of Singapore , Singapore , Singapore) / Daniel J Blackwood (Department of Materials Science and Engineering, National University of Singapore, Singapore, Singapore) / <u>Sudesh Wijesinghe</u> (Singapore Institute of Manufacturing Technology (SIMTech), Singapore , Singapore): Reliability of methods and standards to evaluate intergranular corrosion of stainless steels
10:40	101852	<u>Yiqi Zhou</u> (University of Manchester, Manchester, United Kingdom) / Dirk Engelberg (University of Manchester, Manchester, United Kingdom): Application of Bi-polar Electrochemistry Approach to Characterise the Corrosion Behaviour of Type 420 Stainless Steel
11:00 - 11:30		Coffe Break

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	<i>V. Vignal</i>
11:30	117327	<u>Ali Davoodi</u> (Ferdowsi University of Mashhad, Mashhad, Iran) / <u>Ehsan Rahimi</u> (Ferdowsi University of Mashhad, Mashhad, Iran) / <u>Ali Rafsanjani-Aabbasi</u> (Ferdowsi University of Mashhad, Mashhad, Iran) / <u>Amin Imani</u> (Hakim Sabzevari University, Sabzevar, Iran) / <u>Morteza Rakhshi</u> (Azad University of Neyshabour, , Neyshabour, Iran): STM/STS and AFM/SKPFM characterization of passive layer on UNS S32750 and UNS S39274 super duplex stainless steel
11:50	116427	<u>Alex Lanzutti</u> (University of Udine, Udine, Italy) / <u>Emanuele Vaglio</u> (University of Udine, Udine, Italy) / <u>Francesco Andreatta</u> (University of Udine, Udine, Italy) / <u>Michele Magnan</u> (University of Udine, Udine, Italy) / <u>Giovanni Totis</u> (University of Udine, Udine, Italy) / <u>Marco Sortino</u> (University of Udine, Udine, Italy) / <u>Lorenzo Fedrizzi</u> (University of Udine, Udine, Italy): Corrosion behaviour of AM 316L stainless steel
12:10	116957	<u>Bojan Zajec</u> (Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia) / <u>Tadeja Kosec</u> (Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia) / <u>Andraz Legat</u> (Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia): Current and potential transient during repassivation at freely corroding conditions
12:30	107422	<u>Koji Fushimi</u> (Faculty of Engineering, Hokkaido University, Sapporo, Japan) / <u>Ryogo Nakagawa</u> (Graduate School of Chemical Sciences and Engineering, Hokkaido University, Sapporo, Japan) / <u>Yuichi Kitagawa</u> (Faculty of Engineering, Hokkaido University, Sapporo, Japan) / <u>Takayuki Nakanishi</u> (Faculty of Engineering, Hokkaido University, Sapporo, Japan) / <u>Yasuchika Hasegawa</u> (Faculty of Engineering, Hokkaido University, Sapporo, Japan): Passive film formed on pearlite phase of carbon steel in borate buffer solution
12:50 - 14:00		Lunch time

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	<i>B. Normand</i>
14:00	107372	<u>Fabiola Pineda</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Magdalena Walczak</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Melissa Farías</u> (Pontificia Universidad Católica de Chile, Santiago, Chile): Corrosion of carbon and stainless steel in molten nitrate salts, multi-technique evaluation of high temperature performance
14:20	103782	<u>Kenichiro Eguchi</u> (The University of Manchester, Manchester, United Kingdom) / <u>Timothy Burnett</u> (The University of Manchester, Manchester, United Kingdom) / <u>Dirk Engelberg</u> (The University of Manchester, Manchester, United Kingdom): In-situ Observation of Pitting Corrosion Kinetics in Lean Duplex Stainless Steel
14:40	120355	<u>Ingmar Bösing</u> (Center for Environmental Research and Sustainable Technology (UFT), University of Bremen, Bremen) / <u>Michael Baune</u> (Center for Environmental Research and Sustainable Technology (UFT), University of Bremen, Bremen) / <u>Jorg Thöming</u> (Center for Environmental Research and Sustainable Technology (UFT), University of Bremen, Bremen): Influence of systematically changed martensite content on the formation and properties of passive layers on stainless steel
15:00	109022	<u>Arnulf Hörtnagl</u> (WITg - Institute for Materials System Technology Thurgau, At the University of Applied Sciences Konstanz, Tägerwilten, Switzerland) / <u>Matthias Sorg</u> (WITg - Institute for Materials System Technology Thurgau, At the University of Applied Sciences Konstanz, Tägerwilten, Switzerland) / <u>Paul Gumpel</u> (WITg - Institute for Materials System Technology Thurgau, At the University of Applied Sciences Konstanz, Tägerwilten, Switzerland): Grinding of metastable austenitic stainless steels and the influence on the corrosion resistance
15:20	118507	<u>Henryk Bala</u> (Czestochowa University of Technology, Czestochowa, Poland) / <u>Martyna Dymek</u> (Czestochowa Univ.Technology, Czestochowa, Poland) / <u>Jerzy Gega</u> (Czestochowa Univ.Technology, Czestochowa, Poland): Selective dissolution of Sn, Zn and Al from powder composite hydride electrode during its long-lasting cycling in 6M KOH solution
15:40 - 16:10		Coffe Break

Room 0.2: Theatre Level 0		Mechanisms & Methods
	Chair(s)	<i>J. Swiatowska</i>
16:10	107962	Asunción Bautista (Carlos III of Madrid University , Legánés, Spain) / Francisco Velasco (Carlos III University of Madrid, Legánés, Spain) / Gleidys Monrrabal (Carlos III University, Leganés, Spain) / Cristina Guérrez (IMDEA-Materiales, Getafe, Spain) / Susana Guzmán (Carlos III of Madrid University, Legánés, Spain): Influence on pitting resistance of the cold-rolling process of austenitic stainless steel sheets
16:30	116842	<u>Mariem Zenkri</u> (IRCP, Chimie PARIS TECH, 11 Rue Pierre et Marie Curie, 75005, Paris, France) / Dung Di Caprio (IRCP, Chimie PARIS TECH, 11 Rue Pierre et Marie Curie, 75005 , Paris, France) / Damien Féron (Den-Service de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Gif-sur-Yvette, Paris Saclay, France) / Fayçal Raouafi (LPC2M, IPEST, route Sidi Bou Said,B.P:51 2075, Carthage, Tunisia) / Fadhel Ben Cheikh Larbi (LPC2M, IPEST, route Sidi Bou Said,B.P:51 2075, Carthage, Tunisia): Cathodic control of the corrosion process. Mesoscopic three dimensional cellular automata model.
16:50	110467	<u>Juliusz Winiarski</u> (Wroclaw University of Science and Technology, Wroclaw, Poland) / Aleksandra Kobel (Wroclaw University of Science and Technology, Wroclaw, Poland) / Włodzimierz Tylus (Wroclaw University of Science and Technology, Wroclaw, Poland) / Bogdan Szczygiel (Wroclaw University of Science and Technology, Wroclaw, Poland): XPS and polarization study on the anodic dissolution of 316 stainless steel in a deep eutectic solvent
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.1: Cameral Level 3		Mechanisms & Methods
	Chair(s)	<i>C. Leygraf</i>
10:00	112567	<u>Kiryl Yasakau</u> (CICECO – Aveiro Institute of Materials, DEMaC, University of Aveiro, Aveiro, Portugal) / Hanna Maltanava (Research Institute for Physical Chemical Problems, Belarusian State University, 220030 , Minsk, Belarus) / Aliaksandr Mikhailau (CICECO – Aveiro Institute of Materials, DEMaC, University of Aveiro, Aveiro, Portugal) / Sergey Poznyak (Research Institute for Physical Chemical Problems, Belarusian State University, 220030 , Minsk, Belarus) / Mario Ferreira (CICECO – Aveiro Institute of Materials, DEMaC, University of Aveiro, Aveiro, Portugal) / Mikhail Zheludkevich (Institute of Materials Research, Helmholtz-Zentrum Geesthacht, Centre for Materials and Coastal Research GmbH, Geesthacht): Active corrosion protection of zinc by LDH conversion coatings with intercalated inhibitive anions
10:20	104187	<u>Davood Nakhaie</u> (The University of British Columbia, Vancouver, Canada) / Edouard Asselin (The University of British Columbia, Vancouver, Canada): A study of the common-ion effect's role in the dissolution kinetics of pure Fe and Zn
10:40	108437	<u>Callum Gallagher</u> (Swansea University, Swansea, United Kingdom): Corrosion Mechanism of Zn-4.8wt.%Al Coating as a Function of pH
11:00 - 11:30		Coffe Break

Room 3.1: Cameral Level 3		Mechanisms & Methods
	Chair(s)	<i>D. Engelberg</i>
11:30	103817	<u>Natalie Wint</u> (Swansea University, Swansea, United Kingdom) / Khalil KHAN (Swansea University, Swansea, United Kingdom) / James SULLIVAN (Swansea University, Swansea, United Kingdom) / Hamilton Neil McMurray (Swansea University, Swansea, United Kingdom): Concentration effects on the spatial interaction of corrosion pits occurring on zinc in aqueous sodium chloride.
11:50	108887	<u>Masatoshi Sakairi</u> (Hokkaido University, Sapporo, Japan) / Kyohei Otami (Hokkaido University, Sapporo, Japan) / Md. Saiful Islam (Hokkaido University, Sapporo, Japan): Role of zinc ion on corrosion of metals in aqueous solution
12:10	101691	<u>Chao Liu</u> (University of Science and Technology Beijing, Beijing Beijing, China PR) / Reynier I. Revilla (Vrije Universiteit Brussel, Brussels, Belgium) / Herman Terryn (Vrije Universiteit Brussel, Brussels, Belgium) / Xiaogang Li (University of Science and Technology Beijing, Beijing, China PR): Effect of inclusions on the localized marine corrosion in low alloy steel
12:30	105522	<u>Rym AKKOUCHE</u> (University of La Rochelle, La Rochelle, France) / Céline REMAZEILLES (University of La Rochelle, La Rochelle, France) / Marc JEANNIN (University of La Rochelle, La Rochelle, France) / Maud BARBALAT (Air Liquide Research and Development, Les Loges en Josas, France) / René SABOT (University of La Rochelle, La Rochelle, France) / Philippe REFAIT (University of La Rochelle, La Rochelle, France): Corrosion of carbon steel at a sand / silt loam soil interface
12:50 - 14:00		Lunch time

Room 3.1: Cameral Level 3		Mechanisms & Methods
	<i>Chair(s)</i>	<i>M. Curioni</i>
14:00	104047	<u>Aytac Yilmaz</u> (Delft University of Technology, Delft, Netherlands) / Xiaolin Li (Delft University of Technology, Delft, Netherlands) / Jilt Sietsma (Delft University of Technology, Delft, Netherlands) / Yaiza Gonzalez-Garcia (Delft University of Technology, Delft, Netherlands): Role of martensitic island size on passive film properties of martensitic steels
14:20	116807	<u>Florence MERCIER-BION</u> (CNRS, GIF-SUR-YVETTE, France) / Ludovic TORTECH ((2) Sorbonne Universités, UPMC Université Paris 06, UMR 8232, Institut Parisien de Chimie Moléculaire (IPCM), 75005 Paris, France (3) CEA Saclay, IRAMIS, NIMBE (UMR 3685), Laboratoire d'Innovation en Chimie des Surfaces et Nanosciences (LICSEN), 91191 Gif-sur-Yvette, France, Saclay, France) / Delphine NEFF ((1) LAPA-IRAMAT-NIMBE, CEA, CNRS, Université Paris-Saclay, CEA Saclay, 91191 Gif-sur-Yvette, France, Saclay, France) / Hélène LOTZ ((1) LAPA-IRAMAT-NIMBE, CEA, CNRS, Université Paris-Saclay, CEA Saclay, 91191 Gif-sur-Yvette, France, Saclay, France) / Eddy FOY ((1) LAPA-IRAMAT-NIMBE, CEA, CNRS, Université Paris-Saclay, CEA Saclay, 91191 Gif-sur-Yvette, France, Saclay, France) / Philippe DILLMANN ((1) LAPA-IRAMAT-NIMBE, CEA, CNRS, Université Paris-Saclay, CEA Saclay, 91191 Gif-sur-Yvette, France, Saclay, France): Electronic properties of iron corrosion product layers at the nanometer scale
14:40	111412	<u>Wolfgang Siegl</u> (Chair of General and Analytical Chemistry, University of Leoben, Leoben, Austria) / Gregor Mori (Chair of General and Analytical Chemistry, University of Leoben, Leoben, Austria) / Reinhard Pippan (Erich Schmid Institute of Materials Science of the Austrian Academy of Sciences, Leoben, Austria) / Werner Ecker (Materials Center Leoben Forschung GmbH, Leoben, Austria) / Jürgen Klarner (voestalpine Tubulars GmbH & Co KG, Kindberg, Austria) / Gerald Klösch (voestalpine Stahl Donawitz GmbH, Leoben, Austria) / Georg Nunner (voestalpine Tubulars GmbH & Co KG, Kindberg, Austria) / Bernhard Maunz (voestalpine Stahl Donawitz GmbH, Leoben, Austria): Characterization of hydrogen traps in heat treated and deformed Armco iron
15:00	122315	<u>Gerrit Zijlstra</u> (Department of Applied Physics, Materials Innovation Institute and Zernike Institute for Advanced Materials, RU Groningen, Groningen, Netherlands) / V. Ocelík (Department of Applied Physics, Materials Innovation Institute and Zernike Institute for Advanced Materials, RU Groningen, Groningen, Netherlands) / L. T. H. de Jeer (Department of Applied Physics, Materials Innovation Institute and Zernike Institute for Advanced Materials, RU Groningen, Groningen, Netherlands) / T. Šamořil (Tescan Orsay, Brno, Czech Republic) / H. Tesařová (Tescan Orsay, Brno, Czech Republic) / J. Th. M. De Hosson (Department of Applied Physics, Materials Innovation Institute and Zernike Institute for Advanced Materials, RU Groningen, Groningen, Netherlands): The effect of surface texture on the oxidation behavior of polycrystalline Fe-Cr
15:20	110492	Berk Ozdirik (Research Group Electrochemical and Surface Engineering (SURF), Department of Materials and Chemistry, Vrije Universiteit Brussel, Brussels, Belgium) / Thomas Suter (Laboratory for Joining Technologies and Corrosion, Empa, Swiss Federal Laboratories for Materials Science and Technology, Dubendorf, Switzerland) / Ulrik Hans (Laboratory for Joining Technologies and Corrosion, Empa, Swiss Federal Laboratories for Materials Science and Technology, Dubendorf, Switzerland) / Tom Depover (Department of Materials, Textiles and Chemical Engineering, Ghent University (UGhent), Ghent, Belgium) / Kim Verbeken (Department of Materials, Textiles and Chemical Engineering, Ghent University (UGhent), Ghent, Belgium) / Patrik Schmutz (Laboratory for Joining Technologies and Corrosion, Empa, Swiss Federal Laboratories for Materials Science and Technology, Dubendorf, Switzerland) / Lars Jeurgens (Laboratory for Joining Technologies and Corrosion, Empa, Swiss Federal Laboratories for Materials Science and Technology, Dubendorf, Switzerland) / Herman Terry (Research Group Electrochemical and Surface Engineering (SURF), Department of Materials and Chemistry, Vrije Universiteit Brussel, Brussels, Belgium) / <u>Iris De Graeve</u> (Research Group Electrochemical and Surface Engineering (SURF), Department of Materials and Chemistry, Vrije Universiteit Brussel, Brussels, Belgium): Assessment of hydrogen uptake in high strength steel by micro cell technique
15:40 - 16:10		Coffe Break

Room 3.1: Cameral Level 3		Mechanisms & Methods
	<i>Chair(s)</i>	<i>K. Verbeken</i>
16:10	107592	<u>YU SUGAWARA</u> (Tohoku University, Sendai, Japan) / Tomohiro Kudo (Tohoku University, Sendai, Japan) / Izumi Muto (Tohoku University, Sendai, Japan) / Nobuyoshi Hara (Tohoku University, Sendai, Japan): Inhibition of Hydrogen Permeation through Pure Iron by Plasma Nitriding
16:30	110627	<u>Lorenzo Vecchi</u> (VUB - Vrije Universiteit Brussel, Brussels, Belgium) / Darja Pecko (VUB - Vrije Universiteit Brussel, Brussels, Belgium) / Yves Van Ingelgem (VUB - Vrije Universiteit Brussel, Brussels, Belgium) / Johan Deconinck (VUB - Vrije Universiteit Brussel, Brussels, Belgium) / Herman Terry (VUB - Vrije Universiteit Brussel, Brussels, Belgium): On the Desorption of Hydrogen Through the Iron Oxide Layer in the Devanathan-Stachurski cell
16:50	119597	<u>Nadieh Meinen</u> (TNO, Delft, Netherlands) / Wim Courage (TNO, Delft, Netherlands) / Willy Peelen (TNO, Delft, Netherlands): Multi Sensor Data Fusion Concept for Monitoring Reinforcement Corrosion in Concrete Structures
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
10:00	108942	<u>Raunaq Singh</u> (The University of Manchester, Manchester, United Kingdom) / <u>Karyn Cooper</u> (The University of Manchester, Manchester, United Kingdom) / <u>Gaurav Joshi</u> (The University of Manchester, Manchester, United Kingdom) / <u>Robert Lindsay</u> (The University of Manchester, Manchester, United Kingdom): Ageing of Sour Corrosion Scale
10:20	107802	<u>Mohammed Al Kindi</u> (University of Manchester, Manchester, United Kingdom) / <u>Raunaq Singh</u> (University of Manchester, Manchester, United Kingdom) / <u>Rafael Leiva-garcia</u> (University of Manchester, Manchester, United Kingdom) / <u>Robert Lindsay</u> (University of Manchester, Manchester, United Kingdom) / <u>Oier Bikondoa</u> (XMaS, UK-CRG, ESRF, Grenoble, France): In Situ Synchrotron Radiation GIXRD Study of Sweet Corrosion Scaling on Carbon Steel
10:40	119347	<u>Martien Duvall DEFFO AYAGOU</u> (IFP Energies nouvelles, Solaize, France) / <u>Jean KITTEL</u> (IFP Energies nouvelles, Solaize, France) / <u>Nicolas FERRANDO</u> (IFP Energies nouvelles, Solaize, France) / <u>Bernard TRIBOLLET</u> (LISE, Paris, France) / <u>Mai Tran TRONG LONG</u> (LISE, Paris, France) / <u>Eliane SUTTER</u> (LISE, Paris, France) / <u>Christophe MENDIBIDE</u> (Institut de la corrosion, Fraisses, France) / <u>Claude DURET-THUAL</u> (Institut de la corrosion, Fraisses, France): Electrochemical study of oxygen impact on corrosion and hydrogen permeation of Armco iron in the presence of H ₂ S
11:00 - 11:30		Coffe Break

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
11:30	104517	<u>Robert Lindsay</u> (University of Manchester, Manchester, United Kingdom) / <u>Mohammed Al Kindi</u> (University of Manchester, Manchester, United Kingdom) / <u>Karyn Cooper</u> (University of Manchester, Manchester, United Kingdom) / <u>Gaurav Joshi</u> (University of Manchester, Manchester, United Kingdom) / <u>Hao-Yeh Chang</u> (Imperial College, London, United Kingdom) / <u>Ehsan Ahmed</u> (Imperial College, London, United Kingdom) / <u>Nicholas Harrison</u> (Imperial College, London, United Kingdom): Sweet Scale Habits: Experiment and Ab Initio Modelling
11:50	101237	<u>Mark Swift</u> (Armacell Engineered Systems, London, United Kingdom): ASSESSING THE IMPACT OF INSULATION CHOICE ON CORROSION IN A HIGH HUMIDITY, DUAL TEMPERATURE ENVIRONMENT
12:10	101656	<u>Ramgopal Thodla</u> (DNVGL, DUBLIN, United States of America) / <u>NARASI SRIDHAR</u> (DNVGL, DUBLIN, United States of America): Long-term Performance of Low Alloy Steel Bolts in Oil and Gas Production Environments
12:30	109822	<u>Marcin SLABY</u> (Anticor Sp. z o.o., Wieliczka , Poland): Casing Filler Technology
12:50 - 14:00		Lunch time

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
14:00	106317	<u>Vaclav Sefl</u> (Technopark Kralupy UCT Prague, Kralupy nad Vltavou, Czech Republic) / <u>Pavel Taraba</u> (MERO ČR a.s., Kralupy nad Vltavou, Czech Republic): Corrosion Mechanisms in Storage Tanks and Pipings for Druzba Crude Oil
14:20	116147	<u>Manel Rodriguez Ripoll</u> (AC2T research GmbH, Wiener Neustadt, Austria) / <u>Andreas Trausmuth</u> (AC2T research GmbH, Wiener Neustadt, Austria) / <u>Pedro Bedolla</u> (AC2T research GmbH, Wiener Neustadt, Austria) / <u>Stefan Eder</u> (AC2T research GmbH, Wiener Neustadt, Austria): Performance of corrosion inhibitors during simultaneous sliding and CO ₂ corrosion under anoxic conditions
14:40	112827	<u>Nathalia Verissimo Verissimo</u> (Brazilian Nanotechnology National Laboratory (LNNano), Campinas, Brazil) / <u>Victor Ferrinho Pereira</u> (Brazilian Nanotechnology National Laboratory (LNNano/CNPEM), Campinas, Brazil, Campinas , Brazil) / <u>Rafael Arthur Giorjão</u> (Brazilian Nanotechnology National Laboratory (LNNano/CNPEM), Campinas, Brazil, Campinas, Brazil) / <u>Maysa Terada</u> (Brazilian Nanotechnology National Laboratory (LNNano/CNPEM), Campinas, Brazil, Campinas , Brazil) / <u>Rodnei Bertazzoli</u> (Brazilian Nanotechnology National Laboratory (LNNano/CNPEM), Campinas, Brazil, Campinas , Brazil): Corrosion Resistance of high Mn Steel and 9%Ni Steel Friction Stir Welded
15:00	108012	<u>Yousef Khuraibut</u> (Oil and Gas, Kuwait, Kuwait) / <u>Sandip Kuthe</u> (Kuwait Oil Company, Ahamdi, Kuwait) / <u>Ghasab Al-Ajmi</u> (Kuwait Oil Company, Ahamdi, Kuwait) / <u>Sharad Londhe</u> (Kuwait Oil Company, Ahamdi, Kuwait) / <u>Saleh Al-Sulaiman</u> (Kuwait Oil Company, Ahamdi, Kuwait) / <u>Mhammad Sayed Hashem</u> (Kuwait Oil Company, Inspection and corrosion team, Ahmadi, Kuwait): Analysis of Corrosion Deposits formed in Sour Gas Dehydration Unit
15:20	101867	<u>Alec Groysman</u> (Technion, Haifa, Israel): The Role of Corrosion Management in Process Safety in Oil and Gas Production
15:40 - 16:10		Coffe Break

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
16:10	111047	Eugen Florin Turcu (Christian Michelsen Research, Bergen, Norway) / Bård Henriksen (Christian Michelsen Research, Bergen, Norway) / Inge Klepshvik (Christian Michelsen Research, Bergen, Norway) / Gaute Øverås Lied (Christian Michelsen Research, Bergen, Norway) / Michael Rohwerder (Max-Planck-Institut für Eisenforschung, Düsseldorf): Evaluation of the Field Kelvin Probe (FKP) as a hand-held tool for the detection of internal corrosion on oil and gas production/process facilities
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	
10:00	114727	<i>M. Curioni / M. Lowden</i> Sophie Bosonnet (CEA/SACLAY, Gif-sur-Yvette, France) / Benoît GWINNER (CEA Saclay, Gif sur Yvette Cedex, France) / Anaïs LUANGXAI (CEA SACLAY, Gif sur Yvette, France) / Kevin GINESTAR (CEA Saclay, Gif sur Yvette, France) / Raphaël ROBIN (CEA Saclay, Gif sur Yvette, France): Corrosion Monitoring of 304L Stainless Steel in Nitric Media using Electrical Resistance Probe in Intergranular Corrosion Mode
10:20	114812	Adrien Emery (Den-Service de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, Gif-sur-Yvette, France) / Cécilie Duhamel (MINES ParisTech, PSL Research University, MAT - Centre des matériaux, CNRS UMR 7633, BP 87 91003 Evry, Evry, France) / Vladimir Esin (MINES ParisTech, PSL Research University, MAT - Centre des matériaux, CNRS UMR 7633, BP 87 91003 Evry, Evry, France) / Pierre Laghoutaris (Den-Service de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, Gif-sur-Yvette, France) / Jérôme Crépin (MINES ParisTech, PSL Research University, MAT - Centre des matériaux, CNRS UMR 7633, BP 87 91003 Evry, Evry, France): Intergranular corrosion of austenitic industrial stainless steels in oxidizing nitric media: influence of microstructure and chemical composition
10:40	106247	Benoist Muzeau (Den-Service d'Etude du Comportement des Radionucléides (SECR), CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, Gif-sur-Yvette, France) / Blanca Torres (Den-Service d'Etude du Comportement des Radionucléides (SECR), CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, Gif-sur-Yvette, France) / Caroline de Faria Barros (Den-Service d'Etude du Comportement des Radionucléides (SECR), CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, Gif-sur-Yvette, France) / Aurélien Canizarès (CNRS, UPR3079 CEMHTI, Université d'Orléans, CS 90055, F-45071 Orléans Cedex 2, Orléans, France) / Patrick Simon (CNRS, UPR3079 CEMHTI, Université d'Orléans, CS 90055, F-45071 Orléans Cedex 2, Orléans, France) / Nicole Raimboux (CNRS, UPR3079 CEMHTI, Université d'Orléans, CS 90055, F-45071 Orléans Cedex 2, Orléans, France) / Rachel Omnée (CNRS, UPR3079 CEMHTI, Université d'Orléans, CS 90055, F-45071 Orléans Cedex 2, Orléans, France) / Dominique Baux (CNRS, UPR3079 CEMHTI, Université d'Orléans, CS 90055, F-45071 Orléans Cedex 2, Orléans, France) / Thierry Sauvage (CNRS, UPR3079 CEMHTI, Université d'Orléans, CS 90055, F-45071 Orléans Cedex 2, Orléans, France): Alpha radiolysis impact on magnesium alloy corrosion in alkaline media
11:00 - 11:30		Coffe Break

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.3: S4 Level 3		Nuclear Corrosion
	Chair(s)	
		R. Rebak / F. Martin
11:30	111792	Jana Kocábová (J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic) / Aneta Krausová (University of Chemistry and Technology, Prague, Czech Republic) / Lukáš Tůma (University of Chemistry and Technology, Prague, Czech Republic) / Petr Sajdl (University of Chemistry and Technology, Prague, Czech Republic) / Magdalena Hromadová (J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic) / Lubomír Pospíšil (J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic) / <u>Michal Novák</u> (University of Chemistry and Technology, Prague, Czech Republic) / Jan Macák (University of Chemistry and Technology, Prague, Czech Republic): Hydrogen evolution on Si-based thin film covered zirconium
11:50	110972	Kamila WILCZYNSKA (CEA Saclay, Gif sur Yvette, France) / David LE BOULCH (CEA Saclay, Gif sur Yvette, France) / Matthew BONO (CEA Saclay, Gif sur-Yvette, France) / Marion FREGONESE (INSA de Lyon, Villeurbanne, France) / Valerie Chabretou (FRAMATOME, Lyon, France) / Nathanael Mozzani (EDF R&D, EDF Lab les Renardières, Moret sur Loing-Orvanne, France) / Martin Rautenberg (EDF DIPNN, Lyon, France): Simulation of C-Ring, O-Ring and tensile ring specimens for Iodine induced Stress Corrosion Cracking experiments on zirconium alloy
12:10	116522	Davide Rodrigues (CNRS/IPNO, Orsay, France) / Céline Cannes (CNRS/IPNO, Orsay, France) / Nicole Barré (CNRS/IPNO, Orsay, France) / David Lambertin (CEA/DEN, Bagnols-sur-Céze, France) / Sylvie Delpech (CNRS/IPNO, Orsay, France): Reactivity of uranium in Na-geopolymers containing fluoride ions
12:30	107762	<u>Eric Schmucker</u> (CEA, DEN, DANS, DPC, SCCME, Laboratoire d'Etude de la Corrosion Aqueuse, Gif-sur-Yvette, France) / Benoist Muzeau (CEA, DEN, DANS, DPC, SECR, Laboratoire d'Etude du Comportement des Bétons et des Argiles, Gif-sur-Yvette, France) / Christian Bataillon (CEA, DEN, DANS, DPC, SCCME, Laboratoire d'Etude de la Corrosion Aqueuse, Gif-sur-Yvette, France): Mg-Zr alloy corrosion in Na-geopolymer and its synthetic pore solution
12:50 - 14:00		Lunch time

Room 3.3: S4 Level 3		Tribocorrosion
	Chair(s)	
		S. Mischler
14:00	116047	<u>Kathryn Wahl</u> (US Naval Research Laboratory, Washington DC, United States of America) / J. Michael Shockley (NRC Post Doc, US Naval Research Laboratory, Washington, United States of America) / Christopher So (US Naval Research Laboratory, Washington, United States of America) / Derek Horton (US Naval Research Laboratory, Washington, United States of America) / Matthew Strom (US Naval Research Laboratory, Washington, United States of America): Scanning probe tribocorrosion of aged 2507 duplex stainless steel
14:20	114282	<u>Mary Nicolas</u> (ElyTmAx, Sendai, Japan) / Vincent Dalbert (INSA Lyon, Villeurbanne, France) / Catherine Verdu (INSA Lyon, villeurbanne, France) / Bernard Normand (INSA Lyon, Villeurbanne, France): Implementation of an optical microscope to validate a galvanic cell for tribocorrosion experiments
14:40	108967	<u>Alba Dalmau</u> (ISIRYM - UPV, VALENCIA, Spain) / Vicente Amigó Borrás (ITM - UPV, VALENCIA, Spain) / Amparo BORRELL (ITM - UPV, VALENCIA, Spain) / Lorena GIL (ITM - UPV, VALENCIA, Spain) / Javier NAVARRO LABOULAIS (ISIRYM - UPV, VALENCIA, Spain) / María Dolores Salvador (ITM - UPV, VALENCIA, Spain) / Alejandro RODA BUCH (CIIM - UPV, VALENCIA, Spain) / Andrés Rovira (CIIM - UPV, VALENCIA, Spain) / Jenny Zambrano (ITM - UPV, VALENCIA, Spain) / Anna Igual Muñoz (ISIRYM - UPV, VALENCIA, Spain): Optimization of physico-chemical properties of new ZrO2 ceramic materials for increasing the durability of implants and prothesis metal-ceramics
15:00	116742	<u>Manel Rodriguez Ripoll</u> (AC2T research GmbH, Wiener Neustadt, Austria) / Bernhard Kohlhauser (TU Wien, Vienna, Austria) / Vladimir Pejakovic (AC2T research GmbH, Wiener Neustadt, Austria) / Paul H. Mayrhofer (TU Wien, Vienna, Austria): Tribocorrosion performance of molybdenum and tungsten nitride coatings in artificial seawater
15:20	106147	<u>Javiera Aguirre</u> (Pontificia Universidad Catolica de Chile, Santiago, Chile) / Magdalena Walczak (Pontificia Universidad Catolica de Chile, Santiago, Chile) / Michael Rohwerder (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf): Multifactorial study of the mechanisms of erosion-corrosion in a X-65 steel by simulated slurry of copper tailing
15:40 - 16:10		Coffe Break

Room 3.3: S4 Level 3		Tribocorrosion
	Chair(s)	
16:10	115007	<u>Igual / Mischler</u> Ángela Bermúdez-Castañeda (Tribology and Interface Chemistry Group. École Polytechnique de Lausanne, Lausanne, Switzerland) / Javier Navarro-Laboulais (Dept. Chemical & Nuclear Engineering, Universitat Politècnica de València, Valencia, Spain) / Alejandro Roda-Buch (Research Centre in Mechanical Engineering, Universitat Politècnica de València, Valencia, Spain) / <u>Stefano Mischler</u> (Tribology and Interface Chemistry Group. École Polytechnique de Lausanne, Lausanne, Switzerland): Modular hip joint degradation: A third body approach
16:30	110352	<u>Andres Rovira</u> (CIIM. Universitat Politecnica de Valencia, Valencia, Spain) / Alba Dalmau-Borras (ISIRYM. Universitat Politecnica de Valencia, Valencia, Spain) / Alejandro Roda-Buch (CIIM. Universitat Politecnica de Valencia, Valencia, Spain) / Salvador C. Cardona (ISIRYM. Universitat Politecnica de Valencia, Valencia, Spain) / Javier Navarro-Laboulais (ISIRYM. Universitat Politecnica de Valencia, Valencia, Spain) / Anna Igual-Muñoz (TIC. Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland): Numerical simulation of the wear of an AISI316L under tribocorrosion conditions in a reciprocating tribometer
16:50	119217	<u>Vera Trabadelo</u> (Mohammed VI Polytechnic University, Ben Guerir, Morocco) / Christian B. Fischer (Mohammed VI Polytechnic University, Ben Guerir, Morocco) / Hicham Ben youcef (Mohammed VI Polytechnic University, Ben Guerir, Morocco) / Jones Alami (Mohammed VI Polytechnic University, Ben Guerir, Morocco): Computational thermodynamics for the design of novel corrosion and wear resistant alloys
16:50 - 17:30		WP 18 Meeting
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.4: S4 Level 3		Marine Corrosion
	Chair(s)	
10:00	122507	<u>P. Refait / S. Paul</u> <u>Zbigniew Klenowicz</u> (Ancora, Co., Gransk, Poland): Corrosion condition of chemical ship duplex tanks carrying acids and alkalis in tropical region
10:40	105952	<u>Elena Orlova</u> (JSC "Shipbuilding & Shiprepair Technology Center", St. Petersburg, Russia) / Olga Fedorova (JSC "Shipbuilding & Shiprepair Technology Center", St. Petersburg, Russia) / Kirill Sokolov (JSC "Shipbuilding & Shiprepair Technology Center", St. Petersburg, Russia): Prospective corrosion protection technologies in shipbuilding industry
11:00 - 11:30		Coffe Break

Room 3.4: S4 Level 3		Marine Corrosion
	Chair(s)	
11:30	113377	<u>P. Refait / S. Paul</u> <u>Marcus Hede</u> (Corrosion Control International Oy, Porvoo, Finland) / Tomasz Bochenek (ANTICOR Sp. z o.o., Wieliczka, Poland): Corrosion of steel structures in marine environments
11:50	113122	<u>Matthew Strom</u> (The U.S> Naval Research Laboratory, Washington, DC, United States of America) / Erick Iezzi (The U.S. Naval Research Laboratory, Washington, DC, United States of America): Enhanced resistance to hydration, delamination, and corrosion of U.S. Marine Corps topcoats
12:10	114877	<u>Marc Jeannin</u> (LaSIE - University of La Rochelle, La Rochelle Cedex 1, France) / Philippe REFAIT (LaSIE - University of La Rochelle, La Rochelle, France) / René Sabot (LaSIE - University of La Rochelle, La Rochelle, France) / Céline Rémazeilles (LaSIE - University of La Rochelle, La Rochelle, France): The rust layer as a clue on the corrosion processes of carbon steel in seawater and their history
12:30	102422	<u>Philippe Refait</u> (University of La Rochelle, La Rochelle, France) / Marc Jeannin (University of La Rochelle, La Rochelle, France) / René Sabot (University of La Rochelle, La Rochelle, France) / Emilie François (Naval Group Research, Cherbourg, France) / Anne-Marie Grolleau (Naval Group Research, Cherbourg, France): Galvanic corrosion in marine environments: effects associated with the inversion of polarity of Zn / carbon steel couples
12:50 - 14:00		Lunch time

Room 3.4: S4 Level 3		Marine Corrosion
	Chair(s)	<i>P. Refait / S. Paul</i>
14:00	103237	<u>Julien Duboscq</u> (University of La Rochelle, La Rochelle, France) / <u>René Sabot</u> (University of La Rochelle, La Rochelle, France) / <u>Marc Jeannin</u> (University of La Rochelle, La Rochelle, France) / <u>Philippe Refait</u> (University of La Rochelle, La Rochelle, France): Localized corrosion of carbon steel in seawater: processes occurring in cathodic zones
14:20	110582	<u>Berenika Syrek-Gerstenkorn</u> (University of Birmingham, Birmingham, United Kingdom) / <u>Shiladitya Paul</u> (TWI, Cambridge, United Kingdom) / <u>Alison Davenport</u> (University of Birmingham, Birmingham, United Kingdom): Use of thermally sprayed aluminium (TSA) to protect offshore structures in submerged and splash zones
14:40	106777	<u>Rosa Griñon Echaniz</u> (University of Leicester, Cambridge, United Kingdom) / <u>Shiladitya Paul</u> (TWI, Cambridge, United Kingdom) / <u>Rob Thornton</u> (University of Leicester, Leicester, United Kingdom): Effect of seawater constituents on the performance of thermal spray aluminum (TSA) in marine environments
15:00	104152	<u>Derek Horton</u> (U.S. Naval Research Laboratory, Washington, DC, United States of America) / <u>Theresa Newbauer</u> (Excet LLC, Key West, FL, United States of America) / <u>Roy Rayne</u> (U.S. Naval Research Laboratory, Washington, DC, United States of America) / <u>Robert Kogler</u> (Rampart LLC, Springfield, VA, United States of America) / <u>Laura Erickson</u> (Rampart LLC, Springfield, VA, United States of America) / <u>Edward Lemieux</u> (U.S. Naval Research Laboratory, Washington, DC, United States of America): Galvanic Compatibility: Moving Beyond the Galvanic Series
15:20	110442	<u>Muntasir Hashim</u> (University of Manchester, Manchester, United Kingdom) / <u>David Smyth Boyle</u> (TWI Ltd, Cambridge, United Kingdom) / <u>Philip J. Withers</u> (University of Manchester, Manchester, United Kingdom) / <u>Robert Akid</u> (University of Manchester, Manchester, United Kingdom): Pit to Crack Observations during Fatigue Testing of Pre-Pitted Stainless Steel 316L using X-Ray Computed Tomography
15:40 - 16:10		Coffe Break

Room 3.4: S4 Level 3		Marine Corrosion
	Chair(s)	<i>P. Refait / S. Paul</i>
16:10	104012	<u>Pierre Reilhac</u> (University of La Rochelle, La Rochelle, France) / <u>Juan Creus</u> (University of La Rochelle, La Rochelle, France) / <u>Xavier Feaugas</u> (University of La Rochelle, La Rochelle, France) / <u>Grégory Michel</u> (IRT-M2P, Metz, France) / <u>Vincent Branger</u> (Naval-Group, Bouguenais, France) / <u>Simon Frappart</u> (Naval-Group, Bouguenais, France): Impact of ion nitriding process on the marine corrosion resistance of martensitic stainless steels
16:30	109232	<u>Lena Wegrelius</u> (Outokumpu Stainless AB, Avesta, Sweden) / <u>Sukanya Hägg Mameng</u> (Outokumpu Stainless AB, Avesta, Sweden) / <u>Björn Helmersson</u> (Outokumpu Stainless AB, Avesta, Sweden) / <u>Marie Almén</u> (Outokumpu Stainless AB, Avesta, Sweden): New pitting engineering diagrams for stainless steels
16:50	118382	<u>Yong Lian</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Jin Zhang</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Minyu Ma</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Wen Gao</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Chao Zhao</u> (University of Science and Technology Beijing, Beijing, China PR) / <u>Zunjun Zhang</u> (University of Science and Technology Beijing, Beijing, China PR): Corrosion behavior of Fe-Cr-Ni-Mo-Ti maraging stainless steel in Nansha islands marine atmosphere
17:10	113602	<u>Ivan Richardson</u> (British Corrosion Institute, Stoke-on-Trent, United Kingdom): Wrought CuNi30Cr2 (CNC) a new concept for a Corrosion Resistant Copper Alloy
17:30 - 18:30		WP 9 Meeting
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.5 & 3.6: S4 Level 3		Anticorrosion in building industry
10:00		<u>Ewa Kosmala</u> , Sustainability Trainers & Experts STAE Key-subjects: corrosion problems in a sustainable construction, roadmap via discussion, summary
10:20		<u>Damien Féron</u> , EFC President Key-subjects: EFC's view on sustainability, role of EFC in green market development, role of anti-corrosion in sustainable construction, sustainable surface protection, what should be done, roadmap
10:40		<u>Josefina Lindblom</u> , EC DG ENV high level representative – EC's sustainable building assessment Key-subjects: EC's view on sustainable construction, review of European Policy for Sustainable Construction, sustainable buildings - methodology, Level(s) – EC's sustainable building assessment method, Level(s) Pilot stage, roadmapping
11:00 - 11:30		Coffe Break

Room 3.5 & 3.6: S4		Anticorrosion in building industry
Level 3		
11:30		Rafał Shurma, Polish Green Building Council (PLGBC) Founder, President Key-subjects: sustainability in construction - green building certification, actual situation overview, problems and opportunities, "protection against corrosion and durability" in green certification, better to start solving problems before failure, what should be done in a future
11:50		Sven-Olof Ryding, ECO-PLATFORM President Key-subjects: sustainability of green construction product- green product certification, environmental product declaration - what is EPD, ECO, role and activity, standardization CEN TC 350, EPD vs PEF, what should be done in a future
12:10		Michał Piasecki/Ewa Sudoł, Building Research Institute (ITB), Warsaw Key-subjects: corrosion problems around the corner - sustainability starts with small things, construction corrosion examples, informal typology, life time costs LCC, carbon footprint, formal typology, technical solutions, what should be done to avoid future problems and costs, real life examples
12:30	106192	<u>Fred van Rodijnen</u> (Oerlikon Metco Europe GmbH, Kelsterbach): Novel Surface Solutions for Corrosion Protection
12:50 - 14:00		Lunch time

Room 3.5 & 3.6: S4		Drinking Water
Level 3		
	Chair(s)	<i>W. Erning</i>
14:00	116682	<u>Olivier Rod</u> (Swerea KIMAB, Kista, Sweden): 20 years of research in understanding the relation between microstructure, processing and corrosion properties of brass alloys
14:40	114937	<u>Angelika Becker</u> (IWW Wasserforschung GmbH, Mülheim) / <u>Timo Jentzsch</u> (IWW Water Centre, Muelheim an der Ruhr): Pitting corrosion of copper in drinking water systems in Germany: Results of a research project
15:00	106092	<u>Abinaya Kamaraj</u> (Federal institute for material research and testing, Berlin) / <u>Johann Wilhelm Erning</u> (Federal institute for material research and testing, Berlin): Influence of ECA-Fluids on the corrosion risk of stainless steel
15:20	108817	<u>Audrey Allion-Maurer</u> (APERAM, Isbergues, France) / <u>Amélie Fánica</u> (APERAM, Saint-Denis, France) / <u>Charles Leballeur</u> (French Corrosion Institute, Brest, France) / <u>Nicolas Larché</u> (French Corrosion Institute, Brest, France): Crevice geometry and biofilm development impact on stainless steel durability in drinking water network
15:40 - 16:10		Coffe Break

Room 3.5 & 3.6: S4		Drinking Water
Level 3		
	Chair(s)	<i>W. Erning</i>
16:10	108137	<u>Roland Haubner</u> (TU Wien, Wien, Austria) / <u>Susanne Strobl</u> (TU Wien, Vienna, Austria) / <u>Lorenz Pinkas Bichler</u> (TU Wien, Vienna, Austria) / <u>Paul Linhardt</u> (TU Wien, Vienna, Austria): Electrochemical and metallographic investigations on defective plate heat exchangers
16:30	117077	<u>Sara Hassi</u> (Ibn Tofail University, kenitra kenitra, Morocco) / <u>ADIL Ejbouh</u> (IBN TOFAIL, KENITRA, Morocco) / <u>mohamed Ebn Touhami</u> (IBN TOFAIL, KENITRA, Morocco) / <u>Abdelkbir Boujad</u> (LPEE, CASABLANCA, Morocco) / <u>khalifa berrami</u> (ONE, RABAT, Morocco): The study of concrete pipes corrosion by soil in semi arid-area, Morocco
16:50	120690	<u>Anna Wassilkowska</u> (Cracow University of Technology (CUT), Kraków, Poland) / <u>Wojciech Dąbrowski</u> (Institute of Water Supply and Environmental Monitoring (CUT), Kraków, Poland): Microstructural characterization of oxide scale on ductile iron pipes using scanning electron microscopy

Room 3.5 & 3.6: S4		Polymers / Drinking Water
Level 3		
	Chair(s)	<i>W. Erning / J. Heinemann</i>
17:10 - 17:30		WP 19 +20 Meeting
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.7: S4		Corrosion and Scale Inhibition
Level 3		
	Chair(s)	<i>Hater / Demadis</i>
10:00	101412	<u>Wolfgang Hater</u> (Kurita Europe GmbH, Düsseldorf) / <u>Duygu Disci-Zayed</u> (Kurita Europe GmbH, Duessleodrf) / <u>Deborah Leaney</u> (Kurita Europe GmbH, Duesseldorf) / <u>Florian Wolf</u> (Kurita Europe GmbH, Ludwigshafen): Relationship Between Chemcial Structure and Scale Inhibition Efficiency of Polymerci Antiscalants
10:40	101922	<u>Kostas Demadis</u> (University of Crete, Heraklion, Greece) / <u>Argyro Spinthaki</u> (University of Crete, Heraklion, Greece) / <u>Duygu Disci-Zayed</u> (Kurita, Ludwigshafen) / <u>Wolfgang Hater</u> (Kurita, Ludwigshafen): Utilization of Anionic Macromolecules as Scale and Deposition Inhibitors of Zinc Sulfide in Geothermal Systems
11:00 - 11:30		Coffe Break

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.7: S4 Level 3		Corrosion and Scale Inhibition
	Chair(s)	Hater
11:30	121197	Yurii Kuznetsov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian, Moscow, Russia) / Alexander Chirkunov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia) / Alexey Semiletov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia): FORMATION OF PROTECTIVE LAYERS ON COPPER BY 1,2,4-TRIAZOLE DERIVATIVES AND PROTECTION FROM ATMOSPHERIC CORROSION
11:50	108542	Yan YANG (Department of Mechanical Engineering, Technical University of Denmark, Lyngby, Denmark) / Abhijeet YADAV (Department of Mechanical Engineering, Technical University of Denmark, Lyngby, Denmark) / Rajan AMBAT (Department of Mechanical Engineering, Technical University of Denmark, Lyngby, Denmark): Characteristics and Formation-Growth Model of Corrosion Scales in Oil Well Bore
12:10	105047	Maximilian Sieber (EXCOR Korrosionsforschung GmbH, Dresden) / Signe Lautner (EXCOR Korrosionsforschung GmbH, Dresden) / Frank Faßbender (EXCOR Korrosionsforschung GmbH, Dresden): Electrochemical evaluation of volatile corrosion inhibitors in the presence of condensation water
12:30	112637	Behzad Bavarian (CSUN-MSEM, Northridge California, United States of America) / Lisa Reiner (CSUN-MSEM, Northridge, United States of America) / Boris Miksic (Cortec Corp., St. Paul, United States of America): Application of Vapor Phase Corrosion Inhibitors for Contaminated Environments
12:50 - 14:00		Lunch time

Room 3.7: S4 Level 3		Corrosion and Scale Inhibition
	Chair(s)	Schmitt / Hater
14:00	121167	Yuri Kuznetsov (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russia) / Olga Goncharova (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russia) / Andrey Luchkin (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russia) / Sergey Vesely (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russia) / <u>Nickolay Andreev</u> (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russia): Vapor-phase protection of metals from atmospheric corrosion by low-volatile organic inhibitors
14:20	117417	Daquan Zhang (Shanghai University of Electric Power, Shanghai, China PR) / Hanxue Yang (Shanghai University of Electric Power, Shanghai, China PR) / Yaping Chen (Jiangyin Polytechnic College, Jiangyin, China PR) / Lixin Gao (Shanghai University of Electric Power, Shanghai, China PR): Corrosion inhibition of 8-nitroquinoline for AA5052 aluminium alloy in 3wt.% NaCl solution
14:40	119435	Yahya T. AlJanabi (Saudi Aramco, Dhahran, Saudi Arabia) / Mostafa M. Alsalem (Saudi Aramco, Dhahran, Saudi Arabia) / Anaam H. Shaikh Ali (Saudi Aramco, Dhahran, Saudi Arabia) / <u>Ali A. Al-Mohaish</u> (Saudi Aramco, Dhahran, Saudi Arabia) / Mansour A. Al-Shafei (Saudi Aramco, Dhahran, Saudi Arabia) / Qiwei Wang (Saudi Aramco, Dhahran, Saudi Arabia) / Waleed N. Al-Nasser (Saudi Aramco, Dhahran, Saudi Arabia) / Hassan A. Al-Basri (Saudi Aramco, Dhahran, Saudi Arabia): Evaluating the Oilfield Chemical Treatment Program of a Saudi Aramco Water System
15:00	104632	Askar Soltani (SPGC(Soith Pars Gas Complex), Assaluyeh, Iran) / Reza Ghorbani (SPGC, Assaluyeh, Iran) / Koorosh Farzanfar (SPGC, Assaluyeh, Iran) / Reza Jan nesar shargh (SPGC, Assaluyeh, Iran): High injection rates of corrosion inhibitor into wet gas-condensate pipelines, operational issues and consequences
15:20	118052	AMBRISH SINGH (Southwest Petroleum University, Chengdu, China PR): A comparison of corrosion effectiveness between some synthesized inhibitors and plant extracts on J55 steel in sweet corrosive environment
15:50 - 16:10		Coffe Break

Room 3.7: S4 Level 3		Corrosion and Scale Inhibition
	Chair(s)	
16:10	112857	<u>Schmitt / Hater</u> <u>Mohamed Ebn Touhami</u> (Faculty of Science - University Ibn Tofail, Kenitra, Morocco) / <u>Elhouseine Housni</u> (Faculty of science, Kenitra, Morocco) / <u>Nadia Dkhireche</u> (Faculty of science, Kenitra, Morocco): Inhibitive properties of sodium gluconate and biocide (CTAB) on corrosion, biocorrosion and scaling controls of copper in cooling water systems
16:30	102377	<u>Lutendo Chester Murulana</u> (University of Venda, Thohoyandou, South Africa) / <u>Tshimangadzo Nesane</u> (University of Venda, Thohoyandou, South Africa): Selected carboxylic acids as active corrosion inhibitors for zinc metal in HCl
16:50	103997	<u>Paul Su</u> (FM Global, Norwood, United States of America) / <u>Jens Alkemper</u> (FM Global, Norwood, United States of America): Corrosion Mitigation of Fire Sprinkler Pipes under Nitrogen Supervision
17:10	113552	<u>Ali Heidary Moghadam</u> (Dezful Branch, Islamic Azad University, Dezful, Iran) / <u>Mohamad Ajamighaledarvish</u> (Dezful Branch, Islamic Azad University, Dezful, Iran): Investigation of 4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one as corrosion inhibitors for carbon steel in 1M HCl solution
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.8: S4 Level 3		Corrosion of Steel in Concrete
	Chair(s)	
10:00	116392	<u>Gino Ebell</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Steffi Reinemann</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Petr Hlaváček</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>gregor Gluth</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Jürgen Mietz</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / <u>Hans-Carsten Kühne</u> (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin): Corrosion of steel reinforcement in geopolymer mortars - leaching and carbonation processes investigated by galvanostatic pulse and potential measurements
10:20	117017	<u>David M. Bastidas</u> (The University of Akron, AKRON, United States of America): Passive state stability of steel reinforcements in geopolymer concrete: Fly ash cement and bottom ash aggregates
10:40 - 11:00		WP 11 Meeting
11:00 - 11:30		Coffe Break

Room 3.8: S4 Level 3		Corrosion of Steel in Concrete
	Chair(s)	
11:30	101397	<u>Carla Driessen</u> (RWTH Aachen, Aachen) / <u>Michael Raupach</u> (Institute of Building Materials Research, RWTH Aachen University, Aachen): Investigations on the detectability of water intruding into the sealing of bridges using electrical resistivity measurements
11:50	112177	<u>Gabriel Samson</u> (LMDC, Université de Toulouse, INSA, UPS, Toulouse, France) / <u>Fabrice Deby</u> (LMDC, Université de Toulouse, INSA, UPS, Toulouse, France) / <u>Jean-Luc Garciaz</u> (LERM, SETEC, Arles, France) / <u>Jean-Louis Perrin</u> (LERM, SETEC, Arles, France): Concrete resistivity and corrosion rate assessment with the DIAMOND monitoring probe
12:10	110902	<u>Miha Hren</u> (Slovenian national building and civil engineering institute (ZAG), Ljubljana, Slovenia) / <u>Tadeja Kosec</u> (Slovenian national building and civil engineering institute (ZAG), Ljubljana, Slovenia) / <u>Andraž Legat</u> (Slovenian national building and civil engineering institute (ZAG), Ljubljana, Slovenia): Comparison of various monitoring techniques to characterize stainless steel corrosion processes in concrete
12:30	111347	<u>Monika Pilz</u> (SINTEF AS - SINTEF Industry, Oslo, Norway) / <u>Celestino Gomes</u> (DEMaC and CICECO - Universidade de Aveiro, Aveiro, Portugal) / <u>Alexandre C. Bastos</u> (DEMaC and CICECO - Universidade de Aveiro, Aveiro, Portugal) / <u>João Tedim</u> (DEMaC and CICECO - Universidade de Aveiro, Aveiro, Portugal) / <u>Mário G.S. Ferreira</u> (DEMaC and CICECO - Universidade de Aveiro, Aveiro, Portugal): Functionalized POSS derivatives for novel corrosion protection concepts
12:50 - 14:00		Lunch time

Room 3.8: S4 Level 3		Corrosion of Steel in Concrete
	Chair(s)	
14:00	108907	Robert Filipek (AGH-University of Science and Technology, Faculty of Materials Science and Ceramics, Krakow, Poland) / Krzysztof Szyszkiewicz-Warzecha (AGH-University of Science and Technology, Faculty of Materials Science and Ceramics, Krakow, Poland) / Agnieszka Królikowska (Road and Bridge Research Institute, Warsaw, Poland) / Jakub Stec (AGH-University of Science and Technology, Faculty of Materials Science and Ceramics, Krakow, Poland): Transport of ions in Cementitious Materials – Mathematical Models and Determination of Transport and Kinetic Parameters
14:20	110262	Francisco Velasco (Universidad Carlos III de Madrid, Leganes, Spain) / Asuncion Bautista (Universidad Carlos III de Madrid, Leganes, Spain) / Eduardo G. Ordas (Universidad Carlos III de Madrid, Leganes, Spain) / Maria de las Nieves Gonzalez (Universidad Politecnica de Madrid, Madrid, Spain) / Juan C Pomares (Universidad de Alicante, Alicante, Spain) / Alfonso Cobo (Universidad Politecnica de Madrid, Madrid, Spain): Influence of the level of corrosion and of the morphology of the attack on the mechanical properties of the corrugated black steel reinforcements for concrete
14:40	114197	Evangelia Karaxi (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece) / Ioannis Kartsonakis (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece) / Irene Kanellopoulou (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece) / Costas Charitidis (RNanolab, School of Chemical Engineering, National Technical University of Athens, Zografos, Greece): Self-sensing capability assessment and corrosion evaluation of multi-walled carbon nanotubes reinforced mortars
15:00	111947	Sergio Lorenzi (Consorzio INSTM, University of Bergamo, Dalmine (BG), Italy) / Marina Cabrini (INSTM Udr Bergamo, CSGI Udr Bergamo, DISA-Università degli Studi di Bergamo, Dalmine (BG), Italy) / Tommaso Pastore (Consorzio INSTM, University of Bergamo, Dalmine (BG), Italy) / Diego Pesenti Bucella (Consorzio INSTM, University of Bergamo, Dalmine (BG), Italy): FUNDAMENTALS OF CORROSION BEHAVIOR OF REBAR IN TRADITIONAL AND INNOVATIVE BINDERS FOR CONCRETE
15:20	116077	Johan Ahlström (Swerea KIMAB, Kista, Sweden): Investigation of galvanic corrosion between the mill scale and the underlying steel exposed to alkaline solutions.
15:40 - 16:10		Coffe Break
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 3.9: S4 Level 3		Cathodic Protection
	Chair(s)	
		Crouzillac / Roche
10:20	106707	Ivano Magnifico (AUTOMA srl, Ancona, Italy): Advantages in using remote monitoring to assess effectiveness of Cathodic Protection in stray current affected areas
10:40	111307	Bohumil Kucera (JEKU, s.r.o., Prague, Czech Republic): Complex solution of stray current protection for DC electrification of rails between cities Šumperk – Kouty in Czech Republic including additional protection for gaspipes and waterpipes (design, realization – measuring, measuring after finalizing of buil
11:00 - 11:30		Coffe Break

Room 3.9: S4 Level 3		Cathodic Protection
	Chair(s)	
		Crouzillac / Roche
11:30	104072	Sylvain Fontaine (GRTgaz, Compiègne, France) / Véronique Vasseur (GRDF, Paris, France) / Maud Barbalat (Air Liquide, Paris, France) / Cédric Dombard (Fluxys Belgium, Brussels, Belgium) / Laura Sanders (GRTgaz - RICE, Saint Denis, France) / Elisabeth Fleury (GRTgaz - RICE, Saint Denis, France) / Aymeric Lopitiaux (GRTgaz - RICE, Saint Denis, France) / Romuald Bouaffre (GRTgaz - RICE, Saint Denis, France): D.c. stray currents: Evaluation of the relevance of the risk assessment criterion proposed by the European Standard EN 50162 – Part 3
11:50	101786	Sanja Martinež (University of Zagreb, Faculty of Chemical Engineering and Technology, Zagreb, Croatia) / Adnan Mujezinović (University of Sarajevo, Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina) / Muharemović Alija (University of Sarajevo, Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina) / Krešimir Kekez (PA-EL d.o.o., Dubrovčan, Croatia): DYNAMIC DC INTERFERENCES ON PIPELINES DETECTED BY SIMULTANEOUS MULTIPARAMETRIC FIELD MEASUREMENTS, FREQUENCY PLOTS AND CROSS WAVELET ANALYSIS
12:10	110712	Abdullah Almukhaizeem (Saudi Aramco, Hofuf, Saudi Arabia) / Mamdouh Alharbi (Saudi Aramco, Mubarras, Saudi Arabia): CP interference
12:30	117367	Salim Debbache (TechnipFMC, Paris, France): Cathodic Protection of a Gas Re-injection Pipeline Network using Solar Panels
12:50 - 14:00		Lunch time

Room 3.9: S4 Level 3		Cathodic Protection											
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Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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	Chair(s)	<i>Crouzillac / Ormellese</i>
14:00	108637	<u>Maria del Rosario Silva Campos</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Carsten Blawert</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Michael Stoermer</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Mikhail Zheludkevich</u> (Helmholtz-Zentrum Geesthacht, Geesthacht): Cathodic Protection of Steel Using Al-Based Alloys
14:20	103807	<u>Ueli Angst</u> (ETH Zurich, Zurich, Switzerland): Consequences due to unawareness of diffusion potentials in cathodic protection
14:40	105862	<u>Ahmed FAKHRY</u> (GRTGAZ, Saint-Denis, France) / <u>Elisabeth Fleury</u> (GRTGAZ, Saint-Denis, France) / <u>Sylvain Fontaine</u> (GRTGAZ, Compiègne, France) / <u>Veronique Vasseur</u> (GRDF, Paris, France) / <u>Catherine Debiemme-Chouvy</u> (CNRS, Paris, France): pH-sensors for in situ cathodic protection monitoring of buried pipelines
15:00	109127	<u>Paolo Marcassoli</u> (Cescor srl, Milano, Italy) / <u>Cristina Panizza</u> (Cescor srl, Milano, Italy) / <u>Bruno Bazzoni</u> (Cescor srl, Milano, Italy): Internal cathodic protection of crude oil storage tanks. Use of FEM modelling for improving galvanic anode distribution
15:20	106297	<u>Mehdi Attarchi</u> (Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta", Politecnico di Milano, Milan, Italy) / <u>Andrea Brenna</u> (Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta", Politecnico di Milano, Milan, Italy) / <u>Marco Ormellese</u> (Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta", Politecnico di Milano, Milan, Italy): Optimization of Wire Anode Distance from Pipe in Impressed Current Cathodic Protection System
15:40 - 16:10		Coffe Break

Room 3.9: S4	Cathodic Protection	
Level 3	Chair(s)	<i>Crouzillac / Ormellese</i>
16:10	108252	<u>Marco Ormellese</u> (Politecnico di Milano, Milano, Italy) / <u>Fabio Brugnetti</u> (APCE, San Donato Milanese, Italy) / <u>Silvia Beretta</u> (Politecnico di Milano, Milano, Italy) / <u>Andrea Brenna</u> (Politecnico di Milano, Milano, Italy) / <u>Maria Pia Pedferri</u> (Politecnico di Milano, Milano, Italy): Effect of protective casing on the cathodic protection condition of a buried pipeline at rail crossing
16:30	103962	<u>Markus Büchler</u> (SGK, Zurich, Switzerland): Effectiveness of cathodic protection under disbonded coatings: A discussion of the implications of shielding conditions on the integrity of pipelines
16:50	104852	<u>Saeed Ahmadizadeh</u> (National Iranian Gas Co. (NIGC), Rasht, Iran): Efficiency and effective electrical resistance of different coatings influencing cathodic protection programs in gas pipelines
17:10	101361	<u>Saied Akhondnasab</u> (National Iranian Gas Company, Tehran, Iran) / <u>parvin pourvosoughi sarcheshmeh</u> (chemical engineer, tehran, Iran): A case history on using of Dual layer FBE (DLFBE) coating on the external of 56" gas pipeline
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 2.1: G1	Polymers and Advanced Materials	
Level 3	Chair(s)	<i>J.Heinemann</i>
11:30	113867	<u>Hansgeorg Haupt</u> (MPA Darmstadt / TU Darmstadt, Darmstadt): Corrosion and ageing related to polymeric electrically insulating materials and systems
11:50	113882	<u>Jürgen Heinemann</u> (Technische Universität Darmstadt, Zentrum für Konstruktionswerkstoffe (MPA/IfW), Darmstadt) / <u>Hansgeorg Haupt</u> (Technische Universität Darmstadt, Zentrum für Konstruktionswerkstoffe (MPA/IfW), Darmstadt): Influence of profile structure of large spiral pipes on thermal insulation properties and internal pressure resistance
12:10	102972	<u>Margit Weltschew</u> (BAM, Berlin) / <u>Frank Otremba</u> (BAM, Berlin) / <u>Christian Sklorz</u> (BAM, Berlin) / <u>Rainer Rehfeldt</u> (BAM, Berlin): Impact of biocomponents in the fuel and heating oil on the compatibility of fluorocarbon rubber under compressed conditions
12:30	113327	<u>Carolina Guerra</u> (Pontificia Universidad Catolona de Chile, Santiago, Chile) / <u>Mamie Sancy</u> (Pontificia Universidad Católica de Chile, Santiago, Chile) / <u>Magdalena Walczak</u> (Pontificia Universidad Catolica de Chile, Santiago, Chile) / <u>Claudio Aguilar</u> (Universidad Tecnica Federico Santa Maria, Santiago, Chile): Electrochemical behavior of a porous Ti-based alloy for orthopedic use
12:50 - 14:00		Lunch time

Room 2.1: G1 Level 3		Nuclear Corrosion
	Chair(s)	L. Martinelli / S. Ritter
14:00	120832	Raúl B. Rebak (GE Global Research, Schenectady, United States of America): Beneficial Oxidation Resistance of FeCrAl Alloys for Accident Tolerant Fuel Cladding
14:20	113517	Yoshiyuki Kajii (Japan Atomic Energy Agency, Naka-gun Ibaraki-ken, Japan) / Yoshiyuki Nemoto (Japan Atomic Energy Agency, Tokai-mura, Ibaraki-ken, Japan) / Takashi Onizawa (Japan Atomic Energy Agency, Tokai-mura, Ibaraki-ken, Japan) / Toru Kanazawa (Global Nuclear Fuel \ Japan, Yokosuka-shi, Japan) / Kazuo Nakashima (Global Nuclear Fuel \ Japan, Yokosuka-shi, Japan) / Masayuki Tojo (Global Nuclear Fuel \ Japan, Yokosuka-shi, Japan): Study on oxidation model for Zircalloy-2 cladding in SFP accident condition
14:40 - 15:40		WP 4 Meeting
15:40 - 16:10		Coffe Break
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

Room 2.2: G1 Level 3		Corrosion protection by ZnAlMg coatings
	Chair(s)	T. Prosek / D. Thierry
14:00	121695	Christian K. Riener (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria) / Anna-Elisabeth Raab (voestalpine Stahl GmbH, Linz, Austria) / Sabine Ritsche (voestalpine Stahl GmbH, Linz, Austria) / Gerhard Angeli (voestalpine Stahl GmbH, Linz, Austria): Recent Development and Introduction of the Zinc-Aluminium-Magnesium Sheet Coating for the Automotive Industry
14:20	119177	Arnoud de Vooy (Tata Steel Research, Velzen-Noord, Netherlands) / Ruud Westerwaal (Tata Steel R&D, IJmuiden, Netherlands) / Edzo Zoestbergen (Tata Steel R&D, IJmuiden, Netherlands) / Jorgen van de Langkruis (Tata Steel R&D, IJmuiden, Netherlands): Mechanism of undercreep corrosion of Zn, ZnMgAl alloy and ZnMg PVD layers under E-coating for automotive applications
14:40	104557	Bekir Salgin (Tata Steel R&D, IJmuiden, Netherlands) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria) / Jan Stoullil (University of Chemistry and Technology Prague, Prague, Czech Republic) / Philippe Verpoort (ArcelorMittal Global R&D, Ghent, Belgium) / Christian Allély (ArcelorMittal Research SA, Maizières-lès-Metz, France) / Monika Krugla (Tata Steel R&D, IJmuiden, Netherlands) / Jan Wörmann (Tata Steel R&D, IJmuiden, Netherlands) / Stefan Melzer (Tata Steel R&D, IJmuiden, Netherlands): (MicroCorr) Improving steel product durability through alloy coating microstructure: Material characterization and cyclic corrosion test
15:00	104117	Junsoo HAN (IRCP Chimie ParisTech, Paris, France) / Kevin OGLE (IRCP Chimie ParisTech, Paris, France): Dealloying of Al-Zn / Mg-Zn pure phases in slightly alkaline chloride electrolyte and its consequence for corrosion resistance of Zn-Al-Mg alloy coating
15:20	107027	Matthias Uebel (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf) / Michael Rohwerder (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf): The influence of microstructure on Zn-Al-Mg alloy reactivity investigated by SKP and SKP-FM in changing atmospheres
15:40 - 16:10		Coffe Break

Room 2.2: G1 Level 3		Corrosion protection by ZnAlMg coatings
	Chair(s)	D. Thierry
16:10	103392	Nathalie LeBozec (French Corrosion Institute, Brest, France) / Dominique Thierry (French Corrosion Institute, Brest, France) / Anne LeGac (French Corrosion Institute, Brest, France) / Dan Persson (Swerea Kimab, Stockholm, Sweden): Atmospheric corrosion behaviour of zinc-aluminium and zinc-aluminium-magnesium coated steel in low carbon dioxide conditions. Influence of microstructure
16:30	106457	Dan Persson (Swerea KIMAB, Kista, Sweden) / Dominique Thierry (Institut de la Corrosion, Brest, France) / Nathalie LeBozec (Institut de la Corrosion, Brest, France) / Anne Le Gac (Institut de la Corrosion, Brest, France): Comparison of the atmospheric corrosion of zinc, zinc-aluminium and zinc-aluminium-magnesium coated steel in a marine environment
16:50	116202	Tia Truglas (Centre of Electrochemical Surface Technology (CEST), Wiener Neustadt, Austria) / Jiri Duchoslav (Centre of Electrochemical Surface Technology (CEST), Wiener Neustadt, Austria) / David Stifter (Center for Surface and Nanoanalytics (ZONA), Johannes Kepler University, Linz, Austria) / Christian K. Riener (voestalpine Stahl GmbH, Linz, Austria) / Ghislain M. Rupp (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria) / Gerhard Angeli (voestalpine Stahl GmbH, Linz, Austria) / Karl-Heinz Stellnberger (voestalpine Stahl GmbH, Linz, Austria) / Heiko Groiss (Centre of Electrochemical Surface Technology (CEST), Wiener Neustadt, Austria): Microstructural variations in the eutectic phase mixture of ZnMgAl corrosion coatings
19:30 - 24:00		Congress Dinner - STARA ZAJEZDNIA by DeSilva (OLD TRAM DEPOT by DeSilva)

THURSDAY, SEPTEMBER 13, 2018: LECTURES

Room: 0.1 Auditorium	
8:45 - 9:00	EUROCORR Young Scientist Grant
9:00 - 9:15	Kurt Schwabe Prize, Young Poster Award
9:15 - 10:00	Plenary Lecture: Dr Dante Battocchi Cr-free coatings for the protection of Aircraft alloys
10:00 - 10:10	Farewall
10:10 - 10:20	Break for changing Lecture Hall

Room: 0.1A S5 -2nd level		Corrosion in Aerospace
	Chair(s)	<i>D. Sinopoli</i>
10:20	113392	<u>Yulia Meteleva</u> (Fokker Aerostructures B.V., Papendrecht, Netherlands) / Daniela Danciu (Fokker Aerostructures B.V., Papendrecht, Netherlands) / Meicheng Li (Chimie ParisTech, Paris, France) / Yaiza Gonzalez Garcia (Delft University of Technology, Delft, Netherlands): Influence of microstructure of clad aluminium alloys on bondline corrosion behavior
10:40	114662	<u>Norica Godja</u> (CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH, Wiener Neustadt, Austria) / Andreas Schindel (CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH, Wiener Neustadt, Austria) / Andreas Laskos (CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH, Wiener Neustadt, Austria): Development of corrosion protection layers for welded joints composed of Aluminium 6061 T6 and stainless steel for metal compensators
11:00	111467	<u>John de Kok</u> (Fokker Aerostructures, Papendrecht, Netherlands) / Jeroen Hofstede (Fokker Aerostructures, Papendrecht, Netherlands) / Vincent van den Heuvel (Fokker Aerostructures, Papendrecht, Netherlands): Evaluation of durability testing for structural adhesive bonding of aluminium alloys for aerospace applications
11:20	111732	<u>Sergio Lorenzi</u> (University of Bergamo, Dalmine (BG), Italy) / Marina Cabrini (University of Bergamo, Dalmine (BG), Italy) / Tommaso Pastore (University of Bergamo, Dalmine (BG), Italy) / Cristian Testa (University of Bergamo, Dalmine (BG), Italy) / Diego Manfredi (Center for Sustainable Future Technologies CSFT@PoliTo; Istituto Italiano di Tecnologia - IIT, Torino, Italy) / Flaviana Calignano (Department of Management and Production Engineering (DIGEP) Politecnico di Torino, Torino, Italy) / Francesco Trevisan (Department of Applied Science and Technology (DISAT) Politecnico di Torino, Torino, Italy) / Paolo Fino (Department of Applied Science and Technology (DISAT) Politecnico di Torino, Torino, Italy): Corrosion behavior of LPBF aluminum alloys in chlorides solutions
11:40 - 12:10	Coffe Break	

Room: 0.1A S5 -2nd level		Corrosion in Aerospace
	Chair(s)	<i>M. Zheludkevich</i>
12:10	115252	<u>Iris De Graeve</u> (Vrije Universiteit Brussel, Brussels, Belgium) / Reynier Revilla (Vrije Universiteit Brussel, Brussels, Belgium) / Tim Rubben (Vrije Universiteit Brussel, Brussels, Belgium): Influence of post heat treatments on the anodizing behavior of additive manufactured aluminium alloys
12:30	110777	<u>Thomas Sanchez</u> (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Jolanta Swiatowska (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Jacques Echuard (Safran Landing Systems, Bidos, France) / Sandrine Zanna (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Antoine Seyeux (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Michel Lahaye (Placamat, University of Bordeaux, Bordeaux, France) / Polina Volovitch (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France): Effect of surface chemistry and morphology of passivated ZnNi on the epoxy paint adherence
12:50	108717	Carsten Blawert (Helmholtz-Zentrum Geesthacht, Geesthacht) / <u>Maria del Rosario Silva Campos</u> (Helmholtz-Zentrum Geesthacht, Geesthacht) / Michael Stoermer (Helmholtz-Zentrum Geesthacht, Geesthacht) / Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht, Geesthacht): Cathodic Protection of Steel by PVD Al Coatings
13:10	115457	<u>Alex Charlesworth</u> (University of Manchester, Manchester, United Kingdom) / Xiaorong Zhou (University of Manchester, Manchester, United Kingdom) / Matthew Green (Speciality Steel Co., Sheffield, United Kingdom) / Christopher Wilkinson (Speciality Steel Co, Sheffield, United Kingdom): Investigations of the effect of Heat Treatment on Corrosion Behaviour of High Cobalt Stainless Steel
13:30 - 13:40	Break for Changing Lecture Hall	
13:40 - 14:00	Closing Remarks - AUDITORIUM (level 0)	
ca. 14:00	End of Scientific Programme	

Room 0.1: Auditorium Level 0		Inorganic Coatings
	Chair(s)	Y. Gonzalez-Garcia / M. Mohedano
10:20	113027	Kahina AGGOUN (University of La Rochelle, La Rochelle, France) / Lila CHAAL (University of Bejaia, Bejaia, Algeria) / Boualem SAIDANI (University of Bejaia, Bejaia, Algeria) / Marc JEANNIN (University of La Rochelle, La Rochelle, France) / Juan CREUS (University of La Rochelle, La Rochelle, France): Marine corrosion resistance of mixed electrodeposited (Ceria/ Magnesium hydroxide) coating on low alloyed steels
10:40	114087	Marc Mantel (SIMaP Grenoble Université Alpes, Saint Martin d`Hères, France) / <u>Carolina Esparza Contro</u> (SIMaP Grenoble Université Alpes, Grenoble, France) / Stephane Grosso (SIMaP Grenoble Université Alpes, Grenoble, France) / Laurence Latu Romain (SIMaP University Grenoble Alpes, Grenoble, France) / Gregory Berthome (SIMaP Grenoble Alpes University , Grenoble, France): Corrosion resistance of Ti coatings deposited continuously on a stainless steel wire by physical vapor deposition
11:00	102747	<u>Roland Hauert</u> (Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland) / Emilija Ilic (Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland) / Ainhoa Pardo-Perez (Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland) / Patrik Schmutz (Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland) / Stefano Mischler (Institut des matériaux IMX, EPFL, Lausanne, Switzerland): Accelerated tests for coating adhesion lifetime estimation in body fluid
11:20	105767	<u>Ioana Carmen Vladu</u> (Centre of Electrochemical Surface Technology (CEST), Wiener Neustadt, Austria) / Christoph Kleber (Centre of Electrochemical Surface Technology (CEST), Wiener Neustadt, Austria): Electrospun nanofibers based coatings for corrosion protection of metallic surfaces
11:40 - 12:10		Coffe break

Room 0.1: Auditorium Level 0		Inorganic Coatings
	Chair(s)	Y. Gonzalez-Garcia / M. Mohedano
12:10	110602	YU SHI (Laboratoire Mateis de Institut Nationale de la Science Appliquée de Lyon, Villeurbanne, France) / Sheng Yuan (Laboratoire Mateis de Institut Nationale de la Science Appliquée de Lyon, Villeurbanne, France) / Benoit Ter-Ovanessian (Laboratoire MATEIS de l'Institut Nationale de la Science Appliquée de Lyon, Villeurbanne, France) / Bernard Normand (Laboratoire MATEIS de l'Institut Nationale de la Science Appliquée de Lyon, Villeurbanne, France) / Sabrina Marcelin (Laboratoire MATEIS de l'Institut Nationale de la Science Appliquée de Lyon, Lyon, France): Studies of sol-gel anticorrosive coatings with tunable electrical conductivity by charging 2D materials
12:30	113277	<u>Kurt Hermange</u> (Univ. de Lyon, INSA de Lyon, MATEIS UMR 5510 CNRS, Villeurbanne, France) / Sheng Yuan (Univ. de Lyon, INSA de Lyon, MATEIS UMR 5510 CNRS, Villeurbanne, France) / Bernard Nordmand (Univ. de Lyon, INSA de Lyon, MATEIS UMR 5510 CNRS, Villeurbanne, France): Corrosion resistance enhancement of composite Sol-Gel coating by hydrophobic functionalization
12:50	116252	<u>Anna Mazur</u> (Wroclaw University of Science and Technology, Wrocław, Poland) / Bogdan Szczygiel (Wroclaw University of Science and Technology, Wrocław, Poland): Anti-corrosion properties of SiO ₂ and Y ₂ O ₃ ceramic layers produced by sol-gel method on the 316L stainless steel
13:10	111662	<u>Michele Fedel</u> (University of Trento, Trento, Italy) / Flavio Deflorian (University of Trento, Trento, Italy) / Stefano Rossi (University of Trento, Trento, Italy): Polymethyl(hydro)/polydimethylsilazane derived thin coatings for the corrosion protection of aluminium alloys
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks - AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 0.2: Theatre Level 0		Self-healing and Smart Coatings
Chair(s)		F. Montemor
10:20	105407	<u>Juan Yang</u> (SINTEF, Oslo, Norway) / Eirin Langseth (SINTEF, Oslo, Norway) / Christian Simon (SINTEF, Oslo, Norway) / Euphrasie Jazinski (SINTEF, Oslo, Norway) / Frederico Maia (Smallmatek, Aveiro, Portugal) / Diogo Mata (Smallmatek, Aveiro, Portugal) / Anica Lacau (Hydro Aluminium Rolled Products AS, Holmestrand, Norway): Corrosion protection of functionalized polyhedral oligosilsesquioxane hybrid based coatings
10:40	116092	<u>Daniel Vieira</u> (Department of Materials and Ceramics Engineering, CICECO – Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal) / Denis Sokol (Department of Inorganic Chemistry, Vilnius University, Vilnius, Lithuania) / Andrei Salak (Department of Materials and Ceramics Engineering, CICECO – Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal) / Aivaras Kareiva (Department of Inorganic Chemistry, Vilnius University, Aveiro, Lithuania) / Mário Ferreira (Department of Materials and Ceramics Engineering, CICECO – Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal) / Joaquim Vieira (Department of Materials and Ceramics Engineering, CICECO – Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal): A novel approach to the synthesis of layered double hydroxides and their anti-corrosion application
11:00	103037	<u>Justine Rodriguez</u> (University of Mons, Mons, Belgium) / Estelle Bollen (University of Mons, Mons, Belgium) / Duong Thuy Nguyen (Vietnam academy of science and technology, Hanoi, Vietnam) / Yoann Paint (Materia Nova, Mons, Belgium) / Marjorie Olivier (University of Mons, Mons, Belgium): Study of the efficiency of hydrotalcite modified with benzotriazole for the corrosion protection of Zn-Mg coated steel
11:20	109902	Isabel Sousa (University of Aveiro, Aveiro, Portugal) / Cristina Neves (University of Aveiro, Aveiro, Portugal) / Nico Scharnagl (HZG, Geesthacht) / Mikhail Zheludkevich (HZG, Geesthacht) / Sónia Fraga (ISPUP, Porto, Portugal) / Mário Ferreira (University of Aveiro, Aveiro, Portugal) / <u>João Tedim</u> (University of Aveiro, Aveiro, Portugal): Towards the development of functional coatings for corrosion protection and controlled degradation of biocompatible Mg alloys
11:40 - 12:10		Coffe break

Room 0.2: Theatre Level 0		Self-healing and Smart Coatings
Chair(s)		W. Fürbeth
12:10	101532	<u>M. Fatima Montemor</u> (INSTITUTO SUPERIOR TECNICO, UNIVERSIDADE DE LISBOA, LISBOA, Portugal) / YEGOR MOROZOV (INSTITUTO SUPERIOR TECNICO, LISBOA, Portugal) / ANA MARQUES (INSTITUTO SUPERIOR TECNICO, UNIVERSIDADE DE LISBOA, LISBOA, Portugal) / L.M. CALADO (INSTITUTO SUPERIOR TÉCNICO, LISBOA, Portugal) / A. SHAKOOR (QATAR UNIVERSITY, DOHA, Qatar) / K. RAMAZAN (QATAR UNIVERISTY, DOHA, Qatar): Multilevel Self-healing solutions for corrosion protection of steel substrates
12:30	104342	<u>Dawei Zhang</u> (University of Science and Technology Beijing, Beijing, China PR) / Yao Huang (University of Science and Technology Beijing, Beijing, China PR) / Jin Gao (University of Science and Technology Beijing, Beijing, China PR) / Xiaogang Li (University of Science and Technology Beijing, Beijing, China PR) / Herman Terryn (Vrije Universiteit Brussel, Brussel, Belgium) / Arjan Mol (Delft University of Technology, Delft, Netherlands): Shape memory polymer (SMP) self-healing protective coatings containing dual-functional microspheres
12:50	105187	<u>Andressa Trentin</u> (São Paulo State University - UNESP, Araraquara, Brazil) / Saramah Vargas Harb (São Paulo State University - UNESP, Araraquara, Brazil) / Celso Valentim Santilli (São Paulo State University - UNESP, Araraquara, Brazil) / Peter Hammer (São Paulo State University - UNESP, Araraquara, Brazil) / Kristof Marcoen (Vrije Universiteit Brussel - VUB, Brussel, Belgium) / Alexander Lutz (Vrije Universiteit Brussel - VUB, Brussel, Belgium) / Tom Hauffman (Vrije Universiteit Brussel - VUB, Brussel, Belgium) / Herman Terryn (Vrije Universiteit Brussel - VUB, Brussel, Belgium): Improved corrosion resistance and lifespan of silica-PMMA hybrid coatings modified with cerium and lithium ions
13:10	112037	Nayarit Mata (Universidad Simón Bolívar, Caracas, Venezuela) / Fernando Cotting (University of São Paulo, São Paulo, Brazil) / Sergio Cavallaro (Universiy of São Paulo, São Paulo, Brazil) / Nathalie Ochoa (Universidad Simón Bolívar, Caracas, Venezuela) / <u>Idalina Vieira Aoki</u> (University of São Paulo, São Paulo, Brazil): Influence of the chemical treatment of halloysite clay in its loading/release of dodecylamine corrosion inhibitor to obtain self-healing coatings
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks – AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room: 0.1A S5 -2nd level	Room: 0.1 AUDITORIUM 0 level	Room: 0.2 THEATRE 0 level	Room: 3.1 CAMERAL 3rd level	Room: 3.2 CAMERAL 3rd level	Room: 3.3 S4 3rd level	Room: 3.4 S4 3rd level	Room: 3.5 S4 3rd level	Room: 3.6 S4 3rd level	Room: 3.7 S4 3rd level	Room: 3.8 S4 3rd level	Room: 3.9 S4 3rd level	Room: 2.1 G1 3rd level	Room: 2.2 G1 3rd level
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Room 3.1: Cameral Level 3		Mechanisms & Methods
	Chair(s)	<i>I. Milosv</i>
10:20	112877	Anton Kokalj (Jožef Stefan Institute, Department of Physical and Organic Chemistry, 1000 Ljubljana, Slovenia) / Matic Ložinšek (Jožef Stefan Institute, Department of Physical and Organic Chemistry, 1000 Ljubljana, Slovenia) / Barbara Kapun (Jožef Stefan Institute, Department of Physical and Organic Chemistry, 1000 Ljubljana, Slovenia) / Peyman Taheri (Delft University of Technology, Department of Materials Science and Engineering, 2628 CD Delft, Netherlands) / Shova Neupane (Universiteit Hasselt, Instituut voor Materiaalonderzoek (IMO), BE-3590 Diepenbeek, Belgium) / Patricia Losada-Perez (Universiteit Hasselt, Instituut voor Materiaalonderzoek (IMO), BE-3590 Diepenbeek, Belgium) / Chengyang Xie (Universitat Politècnica de Catalunya/BarcelonaTech, Departament de Física, 08860 Castelldefels, Spain) / Pere Bruna (Universitat Politècnica de Catalunya/BarcelonaTech, Departament de Física, 08860 Castelldefels, Spain) / Eloi Pineda (Universitat Politècnica de Catalunya/BarcelonaTech, Departament de Física, 08860 Castelldefels, Spain) / Stojan Stavber (Jožef Stefan Institute, Department of Physical and Organic Chemistry, 1000 Ljubljana, Slovenia) / Daniel Crespo (Universitat Politècnica de Catalunya/BarcelonaTech, Departament de Física, 08860 Castelldefels, Spain) / Frank Uwe Renner (Universiteit Hasselt, Instituut voor Materiaalonderzoek (IMO), BE-3590 Diepenbeek, Belgium) / Arjan J.M.C. Mol (Delft University of Technology, Department of Materials Science and Engineering, 2628 CD Delft, Netherlands) / Ingrid Milošev (Jožef Stefan Institute, Department of Physical and Organic Chemistry, 1000 Ljubljana, Slovenia): A combined experimental and modeling search for corrosion inhibition descriptors: functionalized azole molecules as potential corrosion inhibitors for Cu and Zn
10:40	114432	Linsey Lapeire (Ghent University, Ghent, Belgium) / Iris De Graeve (Vrije Universiteit Brussel, Brussel, Belgium) / Herman Terryn (Vrije Universiteit Brussel, Brussel, Belgium) / Kim Verbeken (Ghent University, Ghent, Belgium): Investigation of the correlation between microstructure and corrosion in high purity copper via gold nanoplating
11:00	111377	Mohamed Bettayeb (PSL research university / CNRS-Chimie ParisTech, Institut de Recherché de Chimie Paris, paris, France) / vincent maurice (PSL research university / CNRS-Chimie ParisTech, Institut de Recherché de Chimie Paris, paris, France) / philippe marcus (PSL research university / CNRS-Chimie ParisTech, Institut de Recherché de Chimie Paris, paris, France) / lorena klein (PSL research university / CNRS-Chimie ParisTech, Institut de Recherché de Chimie Paris, paris, France) / linsey lapeire (Ghent University (UGhent), Department of Materials Science and Engineering, ghent , Belgium) / kim verbeken (Ghent University (UGhent), Department of Materials Science and Engineering, ghent , Belgium): Combined ECSTM and EBSD investigation of the local resistance to intergranular corrosion initiation of copper
11:20	112302	Kevin Ogle (Chimie-ParisTech, PSL University, IRCP-CNRS, Paris, France) / Peng Zhou (Chimie-ParisTech, PSL University, IRCP-CNRS, Paris, France) / John Scully (University of Virginia, Charlottesville, United States of America) / Michael Hutchison (University of Virginia, Charlottesville, United States of America) / Johann Wilhelm Erning (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin): Copper alloy dealloying: Kinetics and mechanisms by atomic emission spectroelectrochemistry
11:40 - 12:10		Coffe Break

Room 3.1: Cameral Level 3		Mechanisms & Methods
12:10	117957	<u>Shova Neupane</u> (Institute for Materials Research (IMO), Hasselt University, 3590 Diepenbeek, Diepenbeek, Belgium) / <u>Patricia Lasada-Perez</u> (Soft Matter Physics Laboratory, Université Libre de Bruxelles (ULB), Campus de La Plaine, CP223, Boulevard du Triomphe, 1050 Bruxelles, Brussels, Belgium) / <u>Frank Uwe Renner</u> (Institute for Materials Research (IMO), Hasselt University, 3590 Diepenbeek, Diepenbeek, Belgium): Study of corrosion initiation and inhibition on noble metal alloy surfaces with well-defined nanoscale application of complex thiol films
12:30	113087	<u>Zoi Manoli</u> (Department of Materials and Chemistry, Research group Electrochemical and Surface Engineering, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, Brussels, Belgium) / <u>Ali Pourkazemi</u> (Department of Electronics and Informatics, Laboratory for Micro-and PhotonElectronics, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, Brussels, Belgium) / <u>Gokarna Pandey</u> (Department of Electronics and Informatics, Laboratory for Micro-and PhotonElectronics, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, Brussels, Belgium) / <u>Johan Stiens</u> (Department of Electronics and Informatics, Laboratory for Micro-and PhotonElectronics, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, Brussels, Belgium) / <u>Darja Pecko</u> (Department of Materials and Chemistry, Research group Electrochemical and Surface Engineering, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, Brussels, Belgium) / <u>Herman Terryn</u> (Department of Materials and Chemistry, Research group Electrochemical and Surface Engineering, Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, Brussels, Belgium): Water diffusion mapping in organic coatings on metal substrates: A quasi-optical mm-wave technique Vs. Odd Random Phase Electrochemical Impedance Spectroscopy
12:50	119537	<u>Markus Valtiner</u> (TU Wien, Vienna, Austria) / <u>Claudia Merola</u> (TU Wien, Vienna, Austria) / <u>Hsiu-Wei Cheng</u> (TU Wien, Vienna, Austria): Unravelling of corrosion mechanism in nanometer confined gaps using white light interferometry in reflection and transmission mode
13:10	117122	<u>Mahdi Mohajeri</u> (Department of Materials Science and Engineering, Texas A&M University, College Station, United States of America) / <u>Behrouz Haghgouyan</u> (Department of Materials Science and Engineering, Texas A&M University, College Station, United States of America) / <u>Nicholas Mihailidis</u> (Department of Mechanical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece) / <u>Homero Castaneda</u> (Department of Materials Science and Engineering, Texas A&M University, College Station, United States of America) / <u>Dimitris C. Lagoudas</u> (Department of Aerospace Engineering, Texas A&M University, College Station, United States of America): Corrosion of NiTi shape memory alloy: A hybrid numerical-experimental study on corrosion in detwinning regime
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks - AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	<i>Chair(s)</i>	
10:20	114352	<u>THIBAUT VILLETTE</u> (Saudi Aramco, Dhahran, Saudi Arabia) / <u>Abdulrahman Al Qahtani</u> (Saudi Aramco P&DT, Dhahran, Saudi Arabia) / <u>Sankara Papavinasam</u> (CorrMagnet Inc., Ottawa, Canada) / <u>Abderrazak Traidia</u> (Saudi Aramco R&D, Dhahran, Saudi Arabia): Predictive Modeling of the Internal Localized Corrosion rate in Wet Hydrocarbon Pipelines
10:40	105697	<u>Fran Chalmers</u> (Plant Integrity Management Limited, Blackburn, United Kingdom) / <u>Ewa Papaj</u> (Plant Integrity Management Limited, Blackburn, United Kingdom): Using the right (integrity management) tool for the job
11:00	121137	<u>Krista Van Den Bergh</u> (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / <u>Joost De Strycker</u> (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / <u>Zinedine Zermout</u> (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / <u>Lode Duprez</u> (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / <u>Dennis Van Hoecke</u> (ArcelorMittal Global R&D Gent, Zelzate, Belgium): Towards a better understanding of hydrogen embrittlement of steel in sour service conditions
11:20	106042	<u>Bin Liu</u> (Harbin Engineering University, Harbin, China PR) / <u>Tao Zhang</u> (Harbin Engineering University, Harbin, China PR) / <u>Fuhui Wang</u> (Northeastern University, Shenyang, China PR): Effect of Sediments on the Corrosion Behavior of carbon Steel
11:40 - 12:10		Coffe Break

Room 3.2: Cameral Level 3		Corrosion in Oil and Gas
	Chair(s)	
12:10	101751	Askar Soltani (Senior Corrosion Engineer, Assaluyeh, Iran) / Koorosh Farzanfar (Head of Mechanical Inspection Department, Assaluyeh, Iran) / Reza Ghorbani (Head of Corrosion Inspection Department, Assaluyeh, Iran): A comparison between pH stabilization technique and corrosion inhibitor injection method in corrosion mitigation in sour gas transmission pipelines : A field study in South Pars Gas Complex
12:30	108932	Musab Talal (Saudi Aramco, Dhahran, Saudi Arabia) / Jamal Khamis (Saudi Aramco, Dhahran, Saudi Arabia): Flowline Triparameter Monitoring...An Inspection Optimization Module
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks – AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 3.3: S4 Level 3		Tribocorrosion
	Chair(s)	
10:20	115567	Raisa Chetcuti (University of Malta, Msida, Malta) / Peter A. Dearnley (Boride Services Ltd., Leeds, United Kingdom) / Joseph Buhagiar (University of Malta, Msida, Malta) / <u>Bertram Mallia</u> (University of Malta, Msida, Malta): A bio-tribocorrosion appraisal of a dual layer PVD coated CoCrMo alloy tribopair
10:40	104297	Righdan Namus (University of Sheffield, Sheffield, United Kingdom) / Mark Rainforth (University of Sheffield, Sheffield, United Kingdom): The influence of protein concentration and temperature on the corrosion and tribocorrosion behaviour of CoCrMo biomedical grade alloys
11:00	115402	Antonino Mazzonello (University of Malta, Msida, Malta) / Peter Dearnley (Boride Services Ltd., Leeds, United Kingdom) / Raisa Chetcuti (University of Malta, Msida, Malta) / Andreas Karl (Bodycote Specialist Technology, Landsberg) / Joseph Buhagiar (University of Malta, Msida, Malta) / Bertram Mallia (University of Malta, Msida, Malta): Surface Engineering of a Biomedical Orthopaedic Alloy using a Duplex Surface Treatment: A Tribological Evaluation
11:20	119870	Sara Ehsani Majd (Laboratoire Georges Friedel, Mines Saint-Etienne, France) / Christophe Desrayaud (Laboratoire Georges Friedel, Mines Saint-Etienne, France) / Albert Boyer (Laboratoire Georges Friedel, Mines Saint-Etienne, France) / Vincent Fridrici (Laboratoire LTDS, Ecole Centrale de Lyon, Lyon, France) / Philippe Kapsa (Laboratoire LTDS, Ecole Centrale de Lyon, Lyon, France) / Yanneck Suchier (CETIM, Saint-Etienne, France) / Talita Taylor (University of Johannesburg, Johannesburg, South Africa) / Lerato Semeste (University of Johannesburg, Johannesburg, South Africa) / <u>Jean Geringer</u> (Unité INSERM, Mines Saint-Etienne, France): Ti-6Al-4V against Ti-6Al-4V (+ coating), under fretting corrosion solicitations: sometimes stick, sometime slip. Does it depend on coating? Applications to orthopedic implants.
11:40 - 12:10		Coffe Break

Room 3.3: S4 Level 3		Tribocorrosion
	Chair(s)	
12:10	116177	Choshun Yoneyama (Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland) / Shoufan Cao (Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland) / <u>Anna Igual Munoz</u> (Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland) / Stefano Mischler (Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland): Influence of organic boundary film on the tribocorrosion behaviour of a low carbon CoCrMo alloy in simulated body fluids
12:30	115082	Mark Anthony Bonello (University of Malta, Msida, Malta) / Andreas Karl (Bodycote Specialist Technologies GmbH, Landsberg) / Bertram Mallia (University of Malta, Msida, Malta) / <u>Joseph Buhagiar</u> (University of Malta, Msida, Malta): Carburised-on-carburised 316LVM tribopairs in bovine serum: A Biotribo-Corrosion appraisal
12:50	110817	<u>Luís Vilhena</u> (CEMMPRE, Centre for Mechanical Engineering, Materials and Processes, University of Coimbra, Coimbra, Portugal) / Gifty Oppong (CEMMPRE, Centre for Mechanical Engineering, Materials and Processes, University of Coimbra, Coimbra, Portugal) / Amílcar Ramalho (CEMMPRE, Centre for Mechanical Engineering, Materials and Processes, University of Coimbra, Coimbra, Portugal): Triboelectrochemical behaviour of biomedical materials used as implants under different contact conditions
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks – AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 3.4: S4 Level 3		Mechanisms & Methods
	Chair(s)	<i>H. Krawiec</i>
10:20	112137	<u>Tiago Ferrer</u> (University of São Paulo, São Paulo, Brazil) / <u>Idalina Vieira Aoki</u> (University of São Paulo, São Paulo, Brazil): Biodiesel corrosiveness assessment by EIS and microelectrodes
10:40	109847	<u>Fabio Cova Caiazzo</u> (École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland) / <u>Laura Brambilla</u> (Haute École Arc Conservation-restoration, Neuchâtel, Switzerland) / <u>Stefano Mischler</u> (École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland): Corrosion mechanisms of tin in complexing acids
11:00	105272	<u>Rebecca Walldram</u> (Swansea University, Swansea, United Kingdom) / <u>Geraint Williams</u> (Swansea University, Swansea, United Kingdom) / <u>Ciaran Martin</u> (The Royal Mint, Llantrisant, United Kingdom): An investigation into the bimetallic corrosion of circulation coinage
11:20	116892	<u>Boubakar Diawara</u> (Chimie Paristech, Paris, France) / <u>Omar Assowe</u> (Centre d'Etude et de Recherches de Djibouti (CERD), Djibouti, Djibouti): Atomistic simulation of corrosion of Nickel in pure water using voltage equilibration electrochemical process
11:40 - 12:10		Coffe Break

Room 3.4: S4 Level 3		Mechanisms & Methods
	Chair(s)	<i>H. Krawiec</i>
12:10	103702	<u>Chunduo Dai</u> ((a) Corrosion and Protection Center, University of Science and Technology Beijing (b) Key Laboratory for Corrosion and Protection (MOE), Beijing, China PR) / <u>Cuiwei Du</u> ((a) Corrosion and Protection Center, University of Science and Technology Beijing (b) Key Laboratory for Corrosion and Protection (MOE) (c)State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, Beijing, China PR) / <u>Zhiyong Liu</u> ((a) Corrosion and Protection Center, University of Science and Technology Beijing (b) Key Laboratory for Corrosion and Protection (MOE), Beijing, China PR) / <u>Xiaogang Li</u> ((a) Corrosion and Protection Center, University of Science and Technology Beijing (b) Key Laboratory for Corrosion and Protection (MOE) (c)State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, Beijing, China PR): Effect of Cl ⁻ concentration on corrosion behavior of FeCoCrNiMox alloys in aqueous environments
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks - AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 3.5 & 3.6: S4 Level 3		Corrosion protection by ZnAlMg coatings
	Chair(s)	<i>J. Stouilil</i>
10:20	108282	<u>Amar Malla</u> (Swansea University, Swansea, United Kingdom) / <u>James Sullivan</u> (Swansea University, Swansea, United Kingdom) / <u>Nathan Cooze</u> (Swansea University, Swansea, United Kingdom) / <u>Shahin Mehraban</u> (Swansea University, Swansea, United Kingdom) / <u>Tim Savill</u> (Swansea University, Swansea, United Kingdom): Aesthetic and performance enhancements of ZMA coated steels
10:40	105352	<u>Perrine TANGUY</u> (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP) - ArcelorMittal Maizières Research, Maizières Les Metz, France) / <u>Christian Allély</u> (ArcelorMittal Maizières Research, Maizières-lès-Metz, France) / <u>Diana Dragoe</u> (Institut de Chimie Moléculaire et des Matériaux d'Orsay, CNRS, Université Paris-Sud 11, Orsay, France) / <u>Polina Volovitch</u> (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France): Effect of Mg and Al alloying of Zn-based coatings on the distribution and composition of conversion coatings
11:00	115737	<u>Jan Švadlena</u> (University of Chemistry and Technology Prague, Prague, Czech Republic) / <u>Tomáš Prošek</u> (University of Chemistry and Technology Prague, Prague, Czech Republic) / <u>Jan Stouilil</u> (University of Chemistry and Technology Prague, Prague, Czech Republic) / <u>Vaclav Sefl</u> (Technopark Kralupy UCT Prague, Kralupy nad Vltavou, Czech Republic): Electrochemical properties and galvanic corrosion of phases in Zn-Al-Mg coatings
11:20	115867	<u>Jiri Duchoslav</u> (Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH, Wiener Neustadt, Austria) / <u>Tia Truglas</u> (Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH (CEST), Wiener Neustadt, Austria) / <u>Heiko Groß</u> (Center for Surface and Nanoanalytics (ZONA), Johannes Kepler University Linz, Linz, Austria) / <u>Christian Karl Riener</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Martin Arndt</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Karl-Heinz Stellnberger</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Gerald Luckeneder</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>Gerhard Angeli</u> (voestalpine Stahl GmbH, Linz, Austria) / <u>David Stifter</u> (Center for Surface and Nanoanalytics (ZONA), Johannes Kepler University Linz, Linz, Austria): Influence of alloy composition on surface oxide formation studied on the nano-scale for ZnMgAl coatings
11:40 - 12:10		Coffe Break

Room 3.5 & 3.6: S4		Corrosion protection by ZnAlMg coatings
Level 3		
	Chair(s)	J. Duchoslav
12:10	103512	Tae Chul Kim (Surface Technology Research Group, POSCO Technical Research Lab, Gwangyang, Korea, South) / Il-Ryoung Sohn (Surface Technology Research Group, POSCO Technical Research Lab, Gwangyang, Korea, South) / Jong Sang Kim (Surface Technology Research Group, POSCO Technical Research Lab, Gwangyang, Korea, South) / Ho Jong Lee (Department of Advanced Materials Engineering, Suncheon National University, Suncheon, Korea, South): Investigation of hot-dip ZnMgAl coatings for automotive applications
12:30	111872	Nathan Cooze (Swansea University, Swansea, United Kingdom) / Alex Nielsen (Swansea University, Swansea, United Kingdom) / Hamilton Neil McMurray (Swansea University, Swansea, United Kingdom) / Geraint Williams (Swansea University, Swansea, United Kingdom) / James Sullivan (Swansea University, Swansea, United Kingdom): Atmospheric corrosion and secondary spreading of aqueous sodium chloride droplets on zinc-magnesium-aluminium metallic coatings
12:50	114307	Guanghui Liu (Shougang Group, Beijing, China PR): Microstructures and Properties of Zn-Al-Mg Alloys with Different Mg and Al Contents
13:10	114072	Guangrui Jiang (Shougang Research Institute of Technology, Beijing, China PR) / Guanghui Liu (Shougang Research Institute of Technology, Beijing, China PR): Microstructure and Corrosion Resistance Property of a Zn-Al-Mg Alloy with Different Solidification Processes
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks - AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 3.7: S4		JS Cathodic Protection in Marine Environment
Level 3		
	Chair(s)	Crouzillac / Refait
10:20	102167	Min Du (Ocean University of China, Qingdao, China PR) / Huanhuan Wang (Ocean University of China, Qingdao, China PR) / Weijie Wang (Ocean University of China, Qingdao, China PR) / Mingxing Hua (Ocean University of China, Qingdao, China PR): Protection effect and mechanism of pulse cathode protection for carbon steel under thin liquid film
10:40	101276	Efim Lyublinski ("COR/SCI, LLC", Solon, United States of America) / Vladimir Kechin (»Vladimir State University", , Vladimirc, Russia) / Evgeny Prusov (Vladimir State University, Vladimirc, Russia): THE ROLE OF THERMAL PROCESSES IN THE FORMATION OF GALVANIC ZINC ANODES PROPERTIES
11:40 - 12:10		Coffe Break
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks - AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 3.8: S4		Automotive Corrosion
Level 3		
	Chair(s)	C. Alley / E. Szala
10:20	118072	Andrej Atrens (University of Queensland, Brisbane Queensland, Australia): Hydrogen influence on advanced high-strength steels (AHSS) for auto applications
10:40	118957	Dwaipayan Mallick (INSA Lyon, Villeurbanne, France) / V.S. Raja (Indian Institute of Technology Bombay, Powai, Mumbai, India) / Nicolas Mary (INSA Lyon, Villeurbanne, France) / Bernard Normand (INSA Lyon, Villeurbanne, France): Effect of Automobile coatings on permeation of Hydrogen in High Strength Steels
11:00	118287	Shinji Ootsuka (JFE steel Corporation, Kawasaki Kanagawa, Japan) / Eiji Tada (Tokyo Institute of Technology, Mekugo-ku Tokyo, Japan) / Atsushi Nishikata (Tokyo Institute of Technology, Meguro-ku Tokyo, Japan): Behavior of hydrogen absorption into steel sheet under atmospheric corrosion environment
11:20	109082	Junmiao Wang (Chair of Corrosion and Corrosion Protection, RWTH Aachen, Aachen) / Daniela Zander (Chair of Corrosion and Corrosion Protection, RWTH Aachen, Aachen) / Ferat Özkan (Ford Research & Innovation Center Aachen, Aachen): Determination of the Hydrogen Induced Stress Corrosion Cracking Susceptibility of Advanced High Strength Steels by Several Methods
11:40 - 12:10		Coffe Break

Room 3.8: S4 Level 3		Automotive Corrosion
	Chair(s)	JO Nilsson / E. Szala
12:10	102722	WONSEOG YANG (Hyundai Steel, Dangjin, Korea, South) / Hyejin Kim (Hyundai Steel, Dangjin, Korea, South) / Hyungkwon Park (Hyundai Steel, Dangjin, Korea, South) / Changyong Lee (Hyundai Steel, Dangjin, Korea, South): A study of corrosion resistance and hydrogen uptake according to colour change of AlSi layer on hot press forming steel
12:30	106602	Yasuhide Ishiguro (JFE Steel Corporation, Handa, Japan) / Shinji Ootsuka (JFE Steel Corporation, Handa, Japan): New approach to interpret Hydrogen in steel measured by Thermal Desorption Spectroscopy.
12:50	115122	Fumio Yuse (KOBE STEEL, LTD. , Kobe, HYOGO, , Japan): Long-term exposure test results of high-strength steel for evaluation of delayed fracture
13:10	113252	TAHA YASIN EKEN (Bursa Technical University, Faculty of Natural Sciences, Architecture and Engineering, Dept. of Metallurgical and Materials Engineering, 16300, Bursa, Turkey., BURSA, Turkey) / IREM SAPMAZ (Bursa Technical University, Faculty of Natural Sciences, Architecture and Engineering, Dept. of Metallurgical and Materials Engineering, 16300, Bursa, Turkey., BURSA, Turkey) / CEVAT SARIOGLU (Marmara University, Faculty of Engineering of Metallurgical and Materials Engineering, Kadikoy, 34722, Istanbul, Turkey., BURSA, Turkey) / ISRAFIL KUCUK (Bursa Technical University, Faculty of Natural Sciences, Architecture and Engineering, Dept. of Metallurgical and Materials Engineering, 16300, Bursa, Turkey., Bursa, Turkey): Investigation of Surface Roughness Effects on the Electrochemical Corrosion Characteristics of Twin Roll Casting 3003 Aluminium Alloys for Heat Exchangers
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks - AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme

Room 3.9: S4 Level 3		Corrosion Education
	Chair(s)	D. Zander / M. Roche
10:20	117922	Pier Luigi Bonora (RETIRED FULL PROFESSOR, PERGINE VALSUGANA (TN), Italy): BETTER SAFE THAN SORRY
10:40	101877	Alec Groysman (Technion (The Israel Institute of Technology), Haifa, Israel): Physicochemical Behavior of Engineering Materials in Ammonia and its Derivatives (Education Example)

Room 3.9: S4 Level 3		WS Corrosion Education Courses
	Chair(s)	D. Zander / M. Roche
11:00	117152	Agnieszka Królikowska (Polish Corrosion Society, Gdańsk, Poland) / Urszula Paszek (Polish Corrosion Society, Gdańsk, Poland) / Damian Wojda (Road and Bridge Research Institute, Warszawa, Poland): How corrosion education courses can be managed inside a Corrosion Society
11:20	120465	Edoardo Proverbio (Department of Engineering, University of Messina and Italian association of metallurgy, Messina , Italy) / Fabio Bolzoni (Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "G. Natta") and Italian association of metallurgy, Milano , Italy): Corrosion education in Italian universities and corrosion society
11:40 - 12:10		Coffe Break

Room 3.9: S4 Level 3		WS Corrosion Education Courses
	Chair(s)	D. Zander / H. Sytze
12:10	117492	Ralf Feser (University of Applied Sciences South Westphalia, Iserlohn) / Teodora Maghet (GSI - Gesellschaft für Schweißtechnik international mbH, Niederlassung SLV Duisburg, Duisburg): Surface Technology and Corrosion Protection - Franchise Study as a New Model for a Part-Time Job-Related Learning
12:30	103067	Agatha Swierczynski (DIN CERTCO GmbH, Berlin) / Jürgen Heinemann (DIN CERTCO GmbH , Berlin) / Sören Scholz (DIN CERTCO GmbH, Berlin): Why the steel engineering needs standards and regulations regarding corrosion control. The growing role of person certification.
12:50	107107	Marcel Roche (CEFRACOR, Paris, France): PROGRESS IN THE PROJECT OF CERTIFICATION OF CORROSION TRAINING COURSES BY CEFRACOR
13:10 - 13:30		WP 7 Meeting
13:30 - 13:40		Break for Changing Lecture Hall
13:40 - 14:00		Closing Remarks - AUDITORIUM (level 0)
ca. 14:00		End of Scientific Programme