EUROCORR 2019
The annual event of the European Federation of Corrosion
EFC Event number 445
New times, new materials, new corrosion challenges
Seville (Spain) September 9-13 2019

LECTURES

www.eurocorr2019.org
MONDAY, SEPTEMBER 9, 2019: LECTURES

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)

Presentation time: 18:15:00 PM
Plenary Session: Opening Ceremony: Juan de Damborenea, Chair of EUROCORR 2019, Arjan Mol, EFC President

Presentation time: 18:45:00 PM
Plenary Session: European Corrosion Medal Award Ceremony

Presentation time: 18:55:00 PM
Plenary Session: European Corrosion Medal Award Lecture

Presentation time: 19:40:00 PM
Plenary Session: EFC Honorary Fellow Award Ceremony

Room and situation: Foyer, Floor 0 (foyer) and Atrio III (Floor -1)

19:45:00 PM - Welcome Reception and exhibition Party
TUESDAY, SEPTEMBER 10, 2019: LECTURES

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
Presentation time: 09:00:00 AM
Plenary Session: Plenary Lecture: Prof. Manuel Morcillo - “Mechanisms of atmospheric corrosion of steels”

09:45 – 10:15 Break to visit Exhibitors

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: F. Andreatta, S. Rossi.
Presentation time: 10:15:00 AM
Abstract ID and Title: 228361, Electrochemical role of Si phases in novel metallic coatings based on ZnAlMg
Presenting author: Vaclav Sefl
Authors: Vaclav Sefl (University of Chemistry and Technology in Prague, Prague, Czech Republic) / Tomas Prosek (University of Chemistry and Technology in Prague, Prague, Czech Republic) / Jan Svadlena (University of Chemistry and Technology in Prague, Prague, Czech Republic)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: F. Andreatta, S. Rossi.
Presentation time: 10:35:00 AM
Abstract ID and Title: 186594, In-situ atmospheric corrosion behavior of Zn-Mg-Al alloy plating layer measured by SKPFM
Presenting author: Sho Katsura
Authors: Sho Katsura (Kobe Steel, Ltd., Kobe Hyogo, Japan) / Michael Rohwerder (Max Planck Institut für Eisenforschung, Düsseldorf)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: F. Andreatta, S. Rossi.
Presentation time: 10:55:00 AM
Abstract ID and Title: 175913, Structural and chemical changes of ZnMgAl surfaces treated by atmospheric pressure plasma
Presenting author: Jiří Duchoslav
Authors: Jiří Duchoslav (Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH (CEST), Wiener Neustadt, Austria) / Matthias Kehrer (Fronius International, Thalheim, Austria) / Tia Trugas (ZONA, JKV, Linz, Austria) / Heiko Groß (ZONA, JKV, Linz, Austria) / Markus Nadlinger (CEST, Wiener Neustadt, Austria) / Laura Hader-Kregl (CEST, Wiener Neustadt, Austria) / Christian Karl Riener (voestalpine Stahl, Linz, Austria) / Martin Arndt (voestalpine Stahl, Linz, Austria) / Karl-Heinz Stellnberger (voestalpine Stahl, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl, Linz, Austria) / Gerhard Angeli (voestalpine Stahl, Linz, Austria) / Thomas Stehrer (Fronius International, Thalheim, Austria) / David Stifter (ZONA, JKV, Linz, Austria)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: F. Andreatta, S. Rossi.
Presentation time: 11:45:00 AM
Abstract ID and Title: 174362, Corrosion Resistance of Zn-Al-Mg Alloys with Hypoeutectic Microstructure
Presenting author: guangrui jiang
Authors: guangrui jiang (Shougang Research Institute of Technology, Beijing, China PR) / Ting Shang (Shougang Group Co., Ltd, Research Institute of Technology, Beijing, China PR) / Jiajie Chen (The Pan Asia Technical Automotive Center Co., Ltd., Shanghai, China PR) / guanghui liu (Shougang Group Co., Ltd, Research Institute of Technology, Beijing, China PR)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: F. Andreatta, S. Rossi.
Presentation time: 12:05:00 PM
Abstract ID and Title: 198441, Electrochemical corrosive behaviors of Fe-Based Amorphous coating prepared by HVOF-sprayed
Presenting author: Jifu Zhang
Authors: Jifu Zhang (Guangdong Institute of New Materials, Guangzhou, China PR) / Songsheng Lin (Guangdong Institute of New Materials, Guangzhou, China PR) / Chunming Deng (Guangdong Institute of New Materials, Guangzhou, China PR) / Min Liu (National Engineering Laboratory for Modern Materials Surface Engineering Technology, Guangzhou, China PR) / Kesong Zhou (Guangdong Institute of New Materials, Guangzhou, China PR)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: F. Andreatta, S. Rossi.
Presentation time: 12:25:00 PM
Abstract ID and Title: 217482, Durability of metallic coatings in harsh environments: a comparative study
Presenting author: Philippe Verpoort
Authors: Philippe Verpoort (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Beirl Çorlu (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Joost De Strycker (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Corinne Dieu (ArcelorMittal Global R&D, Flémalle, Belgium)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session: WP14 Meeting
Presentation time: 12:45:00 PM

13:05 - 14:00 Lunchtime

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser, M. Lekka.
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Presentation time: 2:00:00 PM
Abstract ID and Title: 225853, Microstructure, mechanical properties and tribo-corrosion behaviour of electroless Ni-P functional multilayers
Presenting author: Eva García-Lecina
Authors: Eva García-Lecina (Fundación CIDETEC, San Sebastián, Spain) / Asier Salicio-Paz (Fundación CIDETEC, San Sebastián, Spain) / Vanesa Martínez-Nogués (Fundación CIDETEC, San Sebastián, Spain) / Jordina Fornell (Universitat Autònoma de Barcelona, Bellaterra, Spain) / Eva Pellicer (Universitat Autònoma de Barcelona, Bellaterra, Spain) / Jordi Sort (Universitat Autònoma de Barcelona, Bellaterra, Spain) / Ruben Offioach (University of Udine, Udine, Italy) / Maria Lekka (University of Udine, Udine, Italy)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 2:20:00 PM
Abstract ID and Title: 177420, Corrosion resistance of electroless Ni-B-Sn alloys
Presenting author: Véronique Vitry
Authors: Véronique Vitry (UMONS, Mons, Belgium) / Luiza Bonin (Ghent University, Ghent, Belgium) / Fabienne Delaunois (UMONS, Mons, Belgium)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 2:40:00 PM
Abstract ID and Title: 190004, Effects of the composition and structure of mesoporous Ni-Pt films on their corrosion behaviour in acidic media used for hydrogen evolution reaction
Presenting author: Konrad Eiler
Authors: Konrad Eiler (Universitat Autònoma de Barcelona, Bellaterra, Spain) / Halina Krawiec (AGH University of Science and Technology, Krakow, Poland) / Iryna Kozina (AGH University of Science and Technology, Krakow, Poland) / Jordi Sort (Universitat Autònoma de Barcelona, Bellaterra, Spain) / Eva Pellicer (Universitat Autònoma de Barcelona, Bellaterra, Spain) / Jordi Sort (Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 3:00:00 PM
Abstract ID and Title: 214468, Nickel release from nanocrystalline nickel and its alloys in artificial sweat solution
Presenting author: Matilda Zemanova
Authors: Matilda Zemanova (Slovak University of Technology, Bratislava, Slovakia) / Jakub Druga (Slovak University of Technology, Bratislava, Slovakia) / Maros Abél (Slovak University of Technology, Bratislava, Slovakia) / Edmund Dobročka (Slovak Academy of Sciences, Bratislava, Slovakia) / Marek Bujdoš (Comenius University in Bratislava, Bratislava, Slovakia) / Véronique Vitry (UMONS, Mons, Belgium)

15:20 - 15:50 - Coffee break

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 3:30:00 PM
Abstract ID and Title: 220639, Corrosion properties of electrodeposited zinc-iron coatings on steel substrate
Presenting author: Céline Arrighi
Authors: Céline Arrighi (LaSIE UMR 7356 CNRS, La Rochelle Université - Materials Science Department, Faculty of Engineering, University of Mons, La Rochelle, France) / Catherine Savall (LaSIE UMR 7356 CNRS, La Rochelle Université, La Rochelle, France) / Marie-Georges Olivier (Materials Science Department, Faculty of Engineering, University of Mons, Mons, Belgium) / Juan Creus (LaSIE UMR 7356 CNRS, La Rochelle Université, La Rochelle, France)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 4:10:00 PM
Abstract ID and Title: 199750, Development of a new Zinc-Iron-Tungsten electroplating bath for steel corrosion protection
Presenting author: Gregory Guilbert
Authors: Gregory Guilbert (Materiana, MONS, Belgium) / Mireille Poelman (Matérianova, Mons, Belgium) / Marie-Eve Druart (Matérianova, Mons, Belgium) / Marjorie Olivier (Service de Science des Matériaux University of Mons, Mons, Belgium)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 4:30:00 PM
Abstract ID and Title: 214469, Electrochemical Characterization of Zinc Flake Coatings
Presenting author: Ralf Feser
Authors: Ralf Feser (University of applied sciences South Westphalia, Iserlohn) / Heike Jost (University of applied sciences South Westphalia, Iserlohn) / Eva Tarfeld (University of applied sciences South Westphalia, Iserlohn)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 4:40:00 PM
Abstract ID and Title: 214470, Corrosion properties of electrodeposited zinc-iron coatings on steel substrate
Presenting author: Céline Arrighi
Authors: Céline Arrighi (LaSIE UMR 7356 CNRS, La Rochelle Université - Materials Science Department, Faculty of Engineering, University of Mons, La Rochelle, France) / Catherine Savall (LaSIE UMR 7356 CNRS, La Rochelle Université, La Rochelle, France) / Marie-Georges Olivier (Materials Science Department, Faculty of Engineering, University of Mons, Mons, Belgium) / Juan Creus (LaSIE UMR 7356 CNRS, La Rochelle Université, La Rochelle, France)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser , M. Lekka.
Presentation time: 5:00:00 PM
Abstract ID and Title: 224819, Electrochemical investigations on the corrosion behavior of 316 stainless steel coatings on ZE41 magnesium alloy in different environments
Presenting author: Sonia García Rodríguez
Authors: Sonia García Rodríguez (Rey Juan Carlos University, Móstoles, Spain) / Belén Torres (Rey Juan Carlos University, Móstoles, Spain) / Antonio Julio López (Rey Juan Carlos University, Móstoles, Spain) / Enrique Otero Huerta (Universidad Rey Juan Carlos, Móstoles, Spain) / Joaquín Ramos Ramos (Rey Juan Carlos University, Móstoles, Spain)
Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Metallic Coatings (WP14)/Chair: R. Feser, M. Lekka.
Presentation time: 5:10:00 PM
Abstract ID and Title: 225809, Aluminum Cladded Steel (ACS) for DWP energy cables
Presenting author: Giusi Boffa

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Frankel.
Presentation time: 10:15:00 AM
Abstract ID and Title: 199684, Characteristics of corundum-type surface oxides formed during the early oxidation stages of stainless steel 316L
Presenting author: Andreas Undisz
Authors: Andreas Undisz (Friedrich-Schiller-Universität, Jena) / Robert Wonneberger (Friedrich-Schiller-Universität, Jena) / Katharina Freiberg (Friedrich-Schiller-Universität, Jena) / Martin Seyring (Friedrich-Schiller-Universität, Jena) / Markus Rettenmayr (Friedrich-Schiller-Universität, Jena)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Frankel.
Presentation time: 10:55:00 AM
Abstract ID and Title: 183481, Oxidation mechanisms of austenitic stainless steel at small time and space scales
Presenting author: Vincent Maurice
Authors: Vincent Maurice (CNRS - Chimie ParisTech, Paris, France) / Li Ma (CNRS - Chimie ParisTech, Paris, France) / Fréféric Wiame (CNRS - Chimie ParisTech, Paris, France) / Philippe Marcus (CNRS - Chimie ParisTech, Paris, France)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Marcus.
Presentation time: 11:45:00 AM
Abstract ID and Title: 228812, New Model for Pit Stability
Presenting author: Gerald S. Frankel
Authors: Gerald S. Frankel (The Ohio State University, Columbus, United States of America) / Tianshu Li (The Ohio State University, Columbus, OH, United States of America) / John Scully (University of Virginia, Charlottesville, VA, United States of America)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Marcus.
Presentation time: 12:25:00 PM
Abstract ID and Title: 177585, Revisiting the Effect of Gravity on Pit Growth Kinetics in Austenitic Stainless Steel
Presenting author: Yiqi Zhou
Authors: Yiqi Zhou (University of Manchester, Manchester, United Kingdom) / Dirk Engelberg (University of Manchester, Manchester, United Kingdom)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Marcus.
Presentation time: 12:45:00 PM
Abstract ID and Title: 173779, Unmasking chloride attack on the passive film of metals
Presenting author: Bo Zhang
Authors: Bo Zhang (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / Jing Wang (Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / Xiuliang Ma (Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR)
Room and presentation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Pan.
Presentation time: 2:20:00 PM
Abstract ID and Title: 199937, Manganese as a tracer element for assessing the early oxidation stages of stainless steel 316L
Presenting author: Robert Wonneberger
Authors: Robert Wonneberger (Friedrich-Schiller-Universität, Jena) / Andreas Undiz (Friedrich-Schiller-Universität, Jena) / Katharina Freiberg (Friedrich-Schiller-Universität, Jena) / Martin Seyring (Friedrich-Schiller-Universität, Jena) / Markus Rettenmayr (Friedrich-Schiller-Universität, Jena)

Room and presentation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Pan.
Presentation time: 2:40:00 PM
Abstract ID and Title: 215524, Influence of mechanical surface finishing on the properties of passive film formed on stainless steel in borate buffer solution
Presenting author: Kathleen Jaffe
Authors: Kathleen Jaffe (Université de Lyon, INSA-LYON, MATEIS UMR CNRS 5510/Tohoku University, QSE laboratory/ElyTMaX UMI3757, CNRS, Tohoku university, Université de Lyon, Villeurbanne, France) / Benoît Ter-Ovanesian (Université de Lyon, INS/LYON, MATEIS UMR CNRS 5510, Villeurbanne, France) / Bernard Normand (Université de Lyon, INSA-LYON, MATEIS UMR CNRS 5510, Villeurbanne, France) / Nicolas Mary (Université de Lyon, INSA-LYON, MATEIS UMR CNRS 5510/ElyTMaX UMI3757, CNRS, Tohoku university, Université de Lyon, Sendai, Japan) / Hiroshi Abe (Tohoku University, QSE laboratory, Sendai, Japan) / Yutaka Watanabe (Tohoku University, QSE laboratory, Sendai, Japan)

15:20 - 15:50 - Coffee break

Room and presentation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Maurice.
Presentation time: 3:00:00 PM
Abstract ID and Title: 189388, Effect of dislocation density on passive layer properties of IF ferritic steels in alkaline environment
Presenting author: Zuocheng Wang

Room and presentation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Maurice.
Presentation time: 3:10:00 PM
Abstract ID and Title: 201114, Effect of stress on polarization curve of mechanically damaged oxide film of stainless steel in sodium chloride solution
Presenting author: Osamu Kuwazuru
Authors: Osamu Kuwazuru (University of Fukui, Fukui, Japan) / Aruto Kawakami (University of Fukui, Fukui, Japan) / Koichi Hira (University of Fukui, Fukui, Japan) / Alain Kassab (University of Central Florida, Orlando, United States of America) / Eduardo Divo (Embry-Riddle Aeronautical University, Daytona Beach, United States of America)

Room and presentation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Maurice.
Presentation time: 3:40:00 PM
Abstract ID and Title: 191830, Influence of hydrogen on corrosion behaviour of a 316LN stainless steel
Presenting author: Malo Duportal
Authors: Malo Duportal (University of La Rochelle, La Rochelle, France) / Feaugas Xavier (University of La Rochelle, La Rochelle, France) / Abdelali Oudriss (University of La Rochelle, La Rochelle, France) / Catherine Savall (University of La Rochelle, La Rochelle, France)

Room and presentation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Maurice.
Presentation time: 4:00:00 PM
Abstract ID and Title: 188816, The effect of enriched manganese in the passive film on the corrosion behaviour of high manganese and nitrogen alloyed austenitic stainless steels
Presenting author: Stephan Trattner
Authors: Stephan Trattner (Competence Center for Electrochemical Surface Technologies, Wiener Neustadt, Austria) / Peter Velicsanyi (Competence Center of Electrochemical Surface Technologies, Wiener Neustadt, Austria) / Jürgen Schodl (Competence Center of Electrochemical Surface Technologies, Wiener Neustadt, Austria) / Rainer Fluch (voestalpine Böhler Edelstahl GmbH & CoKG, Kapfenberg, Austria) / Günther Faflek (TU Wien, Vienna, Austria)
11:15 - 11:45 Coffee break

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 11:15:00 AM
Abstract ID and Title: 227294, Developing IOWs for SCC of 316L SS Exposed to Aqueous H2S
Presenting author: Peter Wilson
Authors: Peter Wilson (Nuffield Group, Melbourne, Australia)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 12:05:00 PM
Abstract ID and Title: 201213, Re-passivation of Duplex Stainless Steel UNS S82551 in Treated Seawater Injection Service
Presenting author: Dominique Thierry
Authors: Nicolas Larché (Institut de la Corrosion, Brest, France) / Perry Ian Nice (Equinor, Stavanger, Norway) / Hisashi Amaya (Nippon Steel & Sumitomo Metal Corp., Wakayama, Japan) / Yuya Matsuda (Nippon Steel & Sumitomo Metal Corp., , Wakayama, Japan) / Luca Scoppio (Pipe Team, , Milano, Italy) / Matteo Fiocchi (S&L Consulting SA, Villars-sur-Glâne, Switzerland) / Dominique Thierry (Institut de la Corrosion, Brest, France)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 12:45:00 PM
Abstract ID and Title: 172206, An investigation of transverse cracks and pitting on the weldment and heat affected zone of AISI321 acid gas transmission pipeline in south Pars gas Complex
Presenting author: Asgar Soltani
Authors: Asgar Soltani (South Pars Gas Complex, Asaluyeh, Iran) / Reza Zareie (South Pars Gas Complex, Asaluyeh, Iran) / Koorosh Farzanfar (South Pars Gas Complex, Asaluyeh, Iran)
13:05 - 14:00 Lunchtime

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. In Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 2:00:00 PM
Abstract ID and Title: 189696, Reduction of conservatism in SSC testing for well tubulars
Presenting author: Marc Wilms
Authors: Marc Wilms (Shell Projects & Technology, Amsterdam, Netherlands) / Daniela Garcia (Vallourec, Aulnoye-Aymeries, France) / Johan Smit (Shell Projects & Technology, Amsterdam, Netherlands) / Edmund Dickinson (National Physical Laboratory, Teddington, United Kingdom) / Harold Evin (Vallourec, Aulnoye-Aymeries, France) / Willem Maarten Van Haaften (Shell Projects & Technology, Amsterdam, Netherlands) / Michel Bonis (Total, Pau, France) / Herve Marchebois (Total, Pau, France) / Gareth Hinds (National Physical Laboratory, Teddington, United Kingdom)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 2:20:00 PM
Abstract ID and Title: 194283, Fast screening of Sulfide Stress Corrosion resistance of Suppermartensitic Stainless Steel thought alternative test methods
Presenting author: Martien DEFFO
Authors: Martien DEFFO (Vallourec Research Center France, Aulnoye Aymeries, France) / Cécile MILLET (Vallourec Research Center France, Aulnoye Aymeries, France) / Daniela GARCIA (Vallourec Research Center France, Aulnoye Aymeries, France) / Harold EVIN (Vallourec Research Center France, Aulnoye Aymeries, France) / Guillaume NEEL (Vallourec Oil&Gas France, Aulnoye Aymeries, France)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 2:40:00 PM
Abstract ID and Title: 179455, Sour Service limits for Super Martensitic Stainless Steel bar-stock: influence of testing approaches on materials performance
Presenting author: Roberta Prencipe
Authors: Roberta Prencipe (RINA Consulting- Centro Sviluppo Materiali S.p.A, Rome, Italy) / Luciana Intiso (RINA Consulting- Centro Sviluppo Materiali S.p.A, Rome, Italy) / Roberto Morana (BP Exploration Operating Company Limited, Sunbury-on-Thames, United Kingdom) / Lee Smith (BP Exploration Operating Company Limited, Sunbury-on-Thames, United Kingdom)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 3:00:00 PM
Abstract ID and Title: 175605, Environmentally-Assisted Cracking (EAC) resistance by load-applied autoclave test for martensite-based stainless steel OCTG materials at high temperature to room temperature.
Presenting author: Yasuhide Ishiguro
Authors: Yasuhide Ishiguro (JFE Steel Corporation, Handa, Aichi, Japan) / Taro Kanayama (JFE Steel Corporation, Handa, Japan) / Yusuke Mizuno (JFE Steel Corporation, Handa, Aichi, Japan)

15:20 - 15:50 - Coffee break

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 3:50:00 PM
Abstract ID and Title: 229967, On acidizing jobs – chemical activation and repassivation of stainless steel as a function of pH
Presenting author: Emir Mujanovic
Authors: Emir Mujanovic (ZAG - Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia) / Bojan Zajec (ZAG - Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia) / Gregor Mori (Montanuniversitat Leoben, Leoben, Austria) / Stefan Hönig (OMV Austria Exploration & Production GmbH, Gänserndorf, Austria) / Gerald Zehethofer (OMV Austria Exploration & Production GmbH, Gänserndorf, Austria)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 4:10:00 PM
Abstract ID and Title: 206790, A comparison of flow velocity influence on localized corrosion of 13Cr, S13Cr and Super Duplex stainless steel on oil production condition
Presenting author: Merlin C. E. Bandeira
Authors: Merlin C. E. Bandeira (LNDC/COPPE/UF RJ, Rio De Janeiro, Brazil) / Bryan de Barros Soares (LNDC/COPPE/UF RJ, Rio De Janeiro, Brazil) / Rogaciano M. Moreira (LNDC/COPPE/UF RJ, Rio De Janeiro, Brazil) / Oscar R. Mattos (LNDC/COPPE/UF RJ, Rio De Janeiro, Brazil)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 4:30:00 PM
Abstract ID and Title: 179873, A Review of Fit-for-Purpose Sour Tests of Low Alloy Steels: Effects of Buffer Chemistry and Purge Gas Composition
Presenting author: Brian Chambers
Authors: Brian Chambers (Shell Global Solutions US, Inc., Houston, United States of America) / Manuel Gonzalez (Shell Global Solutions US, Inc., Houston, United States of America)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): J.S. Microbial C. in Marine Environment (WP9 + WP10)/Chair: Basseguy, Paul.
Presentation time: 12:25:00 PM
Abstract ID and Title: 220111, Corrosion of Al-Mg alloys in Marine Environment - Influence of Microbial Activity
Presenting author: Julien Jaume
Authors: Julien Jaume (Laboratoire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France) / Marie-Line Délia (Laboratoire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France) / Maria Joao Marques (LMR – Laboratório de Materiais e Revestimentos, LNEG – Laboratório Nacional de Energia e Geologia, Lisboa, Portugal) / Régine Basséguy (Laboratoire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): J.S. Microbial C. in Marine Environment (WP9 + WP10)/Chair: Basseguy, Paul.
Presentation time: 12:45:00 PM
Abstract ID and Title: 183338, The Corrosion Behavior and Mechanism of X65 Pipeline Steel Induced by Iron-Oxidizing Bacteria in Natural Seawater
Presenting author: Min Du
Authors: Min Du (Ocean University of China, Qingdao, China PR) / Yongyong Yue (Ocean University of China, Qingdao, China PR) / Meiying Lv (Ocean University of China, Qingdao, China PR)

13:05 - 14:00 Lunchtime

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion(WP9)/Chairs: Refait/Paul.
Presentation time: 2:00:00 PM
Abstract ID and Title: 194492, Evaluation of the effects of highly saline and warm seawaters on corrosivity of marine assets
Presenting author: Muntazir Abbas
Authors: Muntazir Abbas (Cranfield University, Bedford, United Kingdom) / Nigel Simms (Cranfield University, Bedfordshire, United Kingdom) / Ali Sarfaraz Syed (PNEC, National University of Science and Technology, Karachi, Pakistan) / Owais Ahmed Malik (PNEC, National university of Science and Technology, Karachi, Pakistan)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion(WP9)/Chairs: Refait/Paul.
Presentation time: 2:20:00 PM
Abstract ID and Title: 221255, Pathologies on ferroconcrete constructions in marine environments – Vitoria Island
Presenting author: Marília Bolsanello
Authors: Marília Bolsanello (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Erika Almeida (MULTIVIX, Vitória, Brazil) / Pedro Bolsanello (Universidade Federal de Minas Gerais, Belo Horizonte, Brazil) / Artur Rodrigues (Multivix, Vitória, Brazil)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion(WP9)/Chairs: Refait/Paul.
Presentation time: 2:40:00 PM
Abstract ID and Title: 228482, The effect of environmental variables on early corrosion of high-strength low-alloy mooring steel immersed in seawater
Presenting author: Isabel Martinez Sierra
Authors: Isabel Martinez Sierra (CSIC, MADRID, Spain) / ROMAN NEVSHUPA (EDUARDO TORROJA INSTITUTE, SPANISH NATIONAL RESEARCH COUNCIL, MADRID, Spain) / Alberto Arredondo (VICINAY MARINE INNOVATION, BILBAO, Spain)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion(WP9)/Chairs: Refait/Paul.
Presentation time: 3:00:00 PM
Abstract ID and Title: 185208, HarshLab1.0: one-year testing materials and components in the first offshore floating laboratory in Europe
Presenting author: Pablo Benguria
Authors: Pablo Benguria (Tecnalia Research & Innovation, Derio, Spain) / Jean Baptiste Jorcin (Tecnalia Research & Innovation, Donostia-San Sebastián, Spain) / Ayala Urbegain (Tecnalia Research & Innovation, Donostia-San Sebastián, Spain) / Andrés del Barrio (Tecnalia Research & Innovation, Donostia-San Sebastián, Spain) / Iñigo Santos (Tecnalia Research & Innovation, Donostia-San Sebastián, Spain)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion(WP9)/Chairs: Refait/Paul.
Presentation time: 3:30:00 PM
Abstract ID and Title: 181050, Crevice Corrosion of Grades 2101 and 2205 Duplex Stainless Steel in Seawater Environment
Presenting author: So Aoki
Authors: So Aoki (Japan Atomic Energy Agency, Tokai-mura Ibaraki, Japan) / Dirk Engelberg (The University of Manchester, Manchester, United Kingdom)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion(WP9)/Chairs: Refait/Paul.
Presentation time: 4:10:00 PM
Abstract ID and Title: 180313, Effect of inclusion and matrix on micro-electrochemical behavior and pitting initiation of duplex stainless steel
Presenting author: Qian Hu
Authors: Yaohua Zhang (The state key laboratory of refractories and metallurgy, Wuhan University of Science and Technology, Wuhan, China PR) / Jing Liu (The state key laboratory of refractories and metallurgy, Wuhan University of Science and Technology, Wuhan, China PR) / Qian Hu (The
state key laboratory of refractories and metallurgy, Wuhan University of Science and Technology, Wuhan, China PR / Feng Huang (The state key laboratory of refractories and metallurgy, Wuhan University of Science and Technology, Wuhan, China PR)

**Room and situation:** Andalucía 1+2, Floor 0 (above Atrio III)

**Session and Chair(s):** Marine Corrosion (WP9)/Chairs: Refait/Paul.

**Presentation time:** 4:30:00 PM

**Abstract ID and Title:** 208154, Saline resistant weathering steel for offshore and naval: corrosion testing?

**Presenting author:** Krista Van Den Bergh

**Authors:** Krista Van Den Bergh (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Lucia Fernandez Macia (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Joost De Strycrker (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Martin Liebeherr (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Xavier Veys (ArcelorMittal Global R&D Gent, Zelzate, Belgium) / Özlem Esma Ayas Güngör (ArcelorMittal Global R&D Gent, Zelzate, Belgium)

**Room and situation:** Andalucía 1+2, Floor 0 (above Atrio III)

**Session and Chair(s):** Marine Corrosion (WP9)/Chairs: Refait/Paul.

**Presentation time:** 4:50:00 PM

**Abstract ID and Title:** 195922, Corrosion of Fe-Cr (0.3-1 at.% Cr) coated carbon steel in marine environments

**Presenting author:** Philippe Refait

**Authors:** Philippe Refait (University of La Rochelle, La Rochelle, France) / Sergey Ershov (Luxembourg Institute of Science and Technology, Esch sur Alzette, Luxembourg) / Patrick Choquet (Luxembourg Institute of Science and Technology, Esch sur Alzette, Luxembourg) / Thomas Gaulain (Luxembourg Institute of Science and Technology, Esch sur Alzette, Luxembourg) / René Sabot (University of La Rochelle, La Rochelle, France) / Marc Jeannin (University of La Rochelle, La Rochelle, France) / Thomas Urios (ArcelorMittal Global Research & Development, Esch sur Alzette, Luxembourg)

**Room and situation:** Andalucía 3, Floor 0 (above Atrio III)

**Session and Chair(s):** C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Grassini.

**Presentation time:** 10:15:00 AM

**Abstract ID and Title:** 236237, Desiccated corrosion control of the 324 feet long wrought iron hull of ss Great Britain: theory and operational realities 10 years on

**Presenting author:** David Edward Watkinson

**Authors:** David Edward Watkinson (Cardiff University, Cardiff, United Kingdom) / Nicola Emmerson (Cardiff University, Cardiff, United Kingdom)

**Room and situation:** Andalucía 3, Floor 0 (above Atrio III)

**Session and Chair(s):** C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Grassini.

**Presentation time:** 10:35:00 AM

**Abstract ID and Title:** 176947, The corrosion of iron, a major issue in the conservation of archaeological waterlogged composite wood-iron assemblies extracted from sulfide-containing environments

**Presenting author:** Celine Remazeilles

**Authors:** Celine Remazeilles (Universite de La Rochelle, La Rochelle, France) / François Lévêque (University of La Rochelle, La Rochelle, France) / Egle Conforto (University of La Rochelle, La Rochelle, France) / Philippe Refait (University of La Rochelle, La Rochelle, France)

**Room and situation:** Andalucía 3, Floor 0 (above Atrio III)

**Session and Chair(s):** C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Grassini.

**Presentation time:** 10:55:00 AM

**Abstract ID and Title:** 192545, Crevice corrosion testing of C276 material in chlorinated seawater at high temperatures for a heat exchanger system

**Presenting author:** Maria Eleni Mitzithra

**Authors:** Maria Eleni Mitzithra (TWI Ltd, Cambridge, United Kingdom)

11:15 - 11:45 Coffee break
Room and situation: Andalucía 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Watkinson.
Presentation time: 12:25:00 PM
Abstract ID and Title: 210937, Organic Corrosion Inhibitors for copper-based artefacts: investigating the mechanism of interaction with an historical corrosion layer
Presenting author: Erika Ferrari
Authors: Erika Ferrari (Laboratoire Archéomatériaux et Prévision de l'Altération, LAPA, NIMBE – IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685, Gif-sur-Yvette, France) / Delphine Neff (Laboratoire Archéomatériaux et Prévision de l'Altération, LAPA, NIMBE – IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685, Gif-sur-Yvette, France) / Marine Bayle (A-CORROS Expertise Pôle économique et technologique ARCHEOMED®, Arles, France) / Eddy Foy (Laboratoire Archéomatériaux et Prévision de l'Altération, LAPA, NIMBE – IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685, Gif-sur-Yvette, France) / Jean-Paul Gallien (Laboratoire Archéomatériaux et Prévision de l'Altération, LAPA, NIMBE – IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685, Gif-sur-Yvette, France) / Florence Mercier (Laboratoire Archéomatériaux et Prévision de l'Altération, LAPA, NIMBE – IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685, Gif-sur-Yvette, France) / Philippe de Vivies (A-CORROS Expertise Pôle économique et technologique ARCHEOMED®, Arles, France) / Jean-Bernard Memet (A-CORROS Expertise Pôle économique et technologique ARCHEOMED®, Arles, France) / Nicolas Nuns (Univ. Lille, CNRS, INRA, Centrale Lille, ENSCL, Univ. Artois, FR 2638 - IMEC - Institut Michel-Eugène Chevreul, Lille, France) / Ludovic Bellot-Gurlet (Sorbonne Université, MONARIS, UMR 8233, Paris, France) / Céline Paris (Sorbonne Université, MONARIS, UMR 8233, Paris, France) / Philippe Dillmann (Laboratoire Archéomatériaux et Prévision de l'Altération, LAPA, NIMBE – IRAMAT, CEA/CNRS, Université Paris Saclay, UMR 3685, Gif-sur-Yvette, France)

Room and situation: Andalucía 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Watkinson.
Presentation time: 12:45:00 PM
Abstract ID and Title: 198639, Atmospheric corrosion of bronze artefacts in museum indoor environments
Presenting author: Sabrina Grassini
Authors: Emma Angelini (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy) / Venice Gouda (National Research Centre, Cairo, Egypt) / Leila Es Sebar (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), Torino, Italy) / Leonardo Iannucci (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), Torino, Italy) / Alessio Gullino (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), Torino, Italy) / Sabrina Grassini (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy) / Luca Lombardo (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), Torino, Italy) / Marco Parvis (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), Torino, Italy) / Ahmed Awad (National Research Centre, Cairo, Egypt) / Panayota Vassiliou (National Technical University of Athens, School of Chem. Eng., Athens, Greece)

Room and situation: Andalucía 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Grassini, Watkinson.
Presentation time: 2:00:00 PM
Abstract ID and Title: 232783, Acoustic emission methods for the monitoring of corrosion in historical vehicles engines
Presenting author: Stefano Mischler
Authors: Laura Brambilla (Haute Ecole Arc Conservation-restauration, Neuchâtel, Switzerland) / Alejandro Roda-Buch (Haute Ecole Arc Conservation-restauration, Neuchâtel, Switzerland) / Emilie Cornet (Haute Ecole Arc Conservation-restauration, Neuchâtel, Switzerland) / Guillaume Rapp (Haute Ecole Arc Conservation-restauration, Neuchâtel, Switzerland) / Brice Chalandon (Association de Gestion du Musée National de l'Automobile, Mulhouse, France) / Stefano Mischler (EPFL, Lausanne, Switzerland)

Room and situation: Andalucía 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Grassini, Watkinson.
Presentation time: 2:20:00 PM
Abstract ID and Title: 198518, An in situ and non-destructive corrosion assessment of metallic works of art
Presenting author: Leila Es Sebar
Authors: Leila Es Sebar (Department of Electronics and Telecommunication, Politecnico di Torino, Torino, Italy) / Alessandro Re (Physics Department, Università di Torino and INFN, Sezione di Torino, Torino, Italy) / Sabrina Grassini (Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy) / Marco Parvis (Department of Electronics and Telecommunication, Politecnico di Torino, Torino, Italy) / Emma Angelini (Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy)

Room and situation: Andalucía 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Grassini, Watkinson.
Presentation time: 3:00:00 PM
Abstract ID and Title: 195779, Restoration of a German brass conductor lantern involving use of nonwoven polyamide nanofabric Nanopith Surface Nano membrane
Presenting author: Jan Ruzicka
Authors: Jan Ruzicka (National Technical Museum Prague, Prague, Czech Republic)

15:20 - 15:50 - Coffee break
Room and situation: Andalucía 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Watkinson.
Presentation time: 3:50:00 PM
Abstract ID and Title: 226942, Characterising the corrosion products and composition of archaeological copper alloys from central Italy
Presenting author: Manuel Peters
Authors: Manuel Peters (Politecnico di Torino, Torino, Italy) / José Mirão (University of Evora, Evora, Portugal) / Emma Angelini (Politecnico di Torino, Torino, Italy)
Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Grassini.
Presentation time: 4:10:00 PM
Abstract ID and Title: 195427, Survey of copper base alloys used in ancient Egypt
Presenting author: Ahmed Awad Abouelata
Authors: Venice Gouda (National Research Centre, Dokki, Egypt) / Emma Angelini (Politecnico di Torino, Torino, Italy) / Ahmed Awad Abouelata
(National Research Centre, Dokki, Egypt) / Mohamed Shehata (National Research Centre, Dokki, Egypt) / Sabrina Grassini (Politecnico di Torino, Torino, Italy)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Grassini.
Presentation time: 4:30:00 PM
Abstract ID and Title: 216767, Evaluation of techniques for measurement of lead corrosion rate
Presenting author: Jan Svadlena
Authors: Jan Svadlena (UCT Prague, Prague, Czech Republic) / Kristyna Charlotte Strachotova (UCT Prague, Prague, Czech Republic) / Tomas Prosek (UCT Prague, Prague, Czech Republic) / Milan Kouril (UCT Prague, Prague, Czech Republic)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Grassini.
Presentation time: 4:50:00 PM
Abstract ID and Title: 217625, Corrosion protection of copper and bronze statuary by carboxylates-doped sol-gel coatings
Presenting author: Siliva Lob
Authors: Siliva Lob (CEA/NIMBE-LAPA (Laboratoire Archéomatériaux et Prévision de l'Altération), Gif-sur-Yvette, France) / Thu-hoa Tran-thi (CEA/NIMBE-LEDNA (Laboratoire Edifices Nanométriques), Gif-sur-Yvette, France) / Aurélie Azéma (Ministère de la Culture/LRMH (Laboratoire de Recherche des Monuments Historiques), Champs-sur-Marne, France) / Christine Richter (Université Cergy Pontoise / LPMS (Laboratoire de Physique des Matériaux et des Surfaces), Cergy, France) / Delphine Neff (CEA/NIMBE-LAPA (Laboratoire Archéomatériaux et Prévision de Altération), Gif-sur-Yvette, France) / Philippe Dillmann (CEA/NIMBE-LAPA (Laboratoire Archéomatériaux et Prévision de Altération), Gif-sur-Yvette, France)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. of Archaeological and Historical Artefacts (WP21)/Chairs: Neff, Grassini.
Presentation time: 5:10:00 PM
Abstract ID and Title: 176507, Experimental study of Gap Filling of Ancient Completely corroded Copper bowl via New polymers
Presenting author: Saleh Ahmed
Authors: Saleh Ahmed (Faculty of Archaeology, 6 October, Egypt) / Mohamed Abdel Alber (Damietta University, Damietta, Egypt)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion Education (WP7)/Chair: Zander.
Presentation time: 10:15:00 AM
Abstract ID and Title: 172492, Corrosion Under Insulation on industrial piping - a holistic approach to insulation system design
Presenting author: Mark Swift
Authors: Mark Swift (Armacell Engineered Systems, Oldham, United Kingdom)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion Education (WP7)/Chair: Zander.
Presentation time: 10:35:00 AM
Abstract ID and Title: 177750, Standards as the basis for a corrosion education inside and outside of the EFC. A new view on the person certification.
Presenting author: Agatha Swierczynski
Authors: Agatha Swierczynski (DIN CERTCO GmbH, Berlin)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion Education (WP7)/Chair: Zander.
Presentation time: 10:55:00 AM
Abstract ID and Title: 203226, Soil Corrosivity Testing for General Building Materials
Presenting author: Eduardo Hernandez
Authors: Eduardo Hernandez (Project X Corrosion Engineering, Murrieta, United States of America)

11:15 - 11:45 Coffee break
Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session: WP7 Business Meeting
Presentation time: 11:45:00 AM

13:05 - 14:00 Lunchtime
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 2:00:00 PM
Abstract ID and Title: 216558, Barrier properties of solvent-based and water-based epoxy coatings for the corrosion protection of carbon steel in aggressive environments
Presenting author: Laura Villareal
Authors: Laura Villareal (CIRIMAT / CNRS, Toulouse, France) / Aurélien Roggero (CIRIMAT / CNRS, Toulouse, France) / Audrey Santos (Peintures Maestria, Pamiers, France) / Nicolas Caussé (CIRIMAT / CNRS, Toulouse, France) / Nadine Pébère (CIRIMAT / CNRS, Toulouse, France)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 2:20:00 PM
Abstract ID and Title: 195240, Investigating the long term effects of immersion in salt solution on the protective properties of bio-content polyurethane coatings
Presenting author: Douglas Mills
Authors: Douglas Mills (University of Northampton, Northampton, United Kingdom) / Tomasz Wityk (Dept of Polymer Technology, Gdansk University of Technology, Gdansk, Poland) / Lucasz Piszczek (Dept of Polymer Technology, Gdansk University of Technology, Gdansk, Poland)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 3:00:00 PM
Abstract ID and Title: 175198, Inhibition of local dissolution of metals by compositions based on organosilanes.
Presenting author: Natalia Gladkikh
Authors: Natalia Gladkikh (A.N. Frumkin Institute of Physical chemistry and Electrochemistry Russian academy of sciences (IPCE RAS), Moscow, Russia) / Yuriy Makarychev (A.N. Frumkin Institute of Physical chemistry and Electrochemistry Russian academy of sciences (IPCE RAS), Moscow, Russia) / Marina Maleeva (A.N. Frumkin Institute of Physical chemistry and Electrochemistry Russian academy of sciences (IPCE RAS), Moscow, Russia) / Maxim Petrunin (A.N. Frumkin Institute of Physical chemistry and Electrochemistry Russian academy of sciences (IPCE RAS), Moscow, Russia) / Ludmila Maksaeva (A.N. Frumkin Institute of Physical chemistry and Electrochemistry Russian academy of sciences (IPCE RAS), Moscow, Russia) / Andrey Marshakov (A.N. Frumkin Institute of Physical chemistry and Electrochemistry Russian academy of sciences (IPCE RAS), Moscow, Russia)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 2:40:00 PM
Abstract ID and Title: 180654, Incorporation of Corrosion Inhibitors into a coating system for the protection of a carbon steel substrate
Presenting author: Ana Suarez Vega
Authors: Ana Suarez Vega (IFM, Deakin University, Burwood Campus, Australia) / Cecilia Agustin Saenz (TECNALIA, Materials and Processes, Donostia-San Sebastian, Spain) / Fabiola Bruscotti (TECNALIA, Materials and Processes, Donostia-San Sebastian, Spain) / Anthony Somers (IFM, Deakin University, Burwood Campus, Australia) / Maria Forsyth (IFM, Deakin University, Burwood Campus, Australia)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 2:00:00 PM
Abstract ID and Title: 209001, FTIR imaging investigation of automotive coating degradation after accelerated exposure
Presenting author: Camilla Edvinsson
Authors: Camilla Edvinsson (RISE Research Institutes of Sweden, Kista, Sweden) / Anna Andersson (Scania AB, Södertälje, Sweden) / Meron Solomon (Scania AB, Södertälje, Sweden) / Oscar Sångberg (RISE Research Institutes of Sweden, Stockholm, Sweden) / Dan Persson (RISE Research Institutes of Sweden, Södertälje, Sweden)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 2:20:00 PM
Abstract ID and Title: 219858, Graphene-polymer nanocomposites Coatings for Corrosion Inhibition of Mg
Presenting author: Özlem Ozcan
Authors: Chayanka Das (Bundesanstalt für Materialforschung und Prufung (BAM) Berlin, Berlin) / Julia Witt (Bundesanstalt für Materialforschung und Prufung, Berlin) / Elena Kastania (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Özlem Ozcan (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 4:10:00 PM
Abstract ID and Title: 219858, Graphene-polymer nanocomposites Coatings for Corrosion Inhibition of Mg
Presenting author: Özlem Ozcan
Authors: Chayanka Das (Bundesanstalt für Materialforschung und Prufung (BAM) Berlin, Berlin) / Julia Witt (Bundesanstalt für Materialforschung und Prufung, Berlin) / Elena Kastania (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Özlem Ozcan (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 4:00:00 PM
Abstract ID and Title: 217724, Investigation of Mussel Adhesive Protein and Graphene composite film for solid lubrication and corrosion protection
Presenting author: Fan Zhang
Authors: Fan Zhang (KTH - Royal Institute of Technology, Stockholm, Sweden) / Sulin Chen (School of Mechanical Engineering, Shanghai Jiao Tong University, Shanghai, China PR) / Bin Shen (School of Mechanical Engineering, Shanghai Jiao Tong University, Shanghai, China PR) / Jinshan Pan (KTH Royal Institute of Technology, Stockholm, Sweden)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): JS: Polymers in Organic Coatings (WP14 + WP19)/Chairs: Heinemann, Fürbeth.
Presentation time: 4:50:00 PM
Abstract ID and Title: 189080, Corrosion protection of Al substrates with nanofibers reinforced coatings
Presenting author: Norica Carmen Godja
Authors: Ioana Carmen Vladu (Centre of Electrochemical Surface Technology (CEST), Wiener Neustadt, Austria) / Michael Sinnabell (Centre of Electrochemical Surface Technology, Wiener Neustadt, Austria) / Andreas Laskos (Centre of Electrochemical Surface Technology, Wiener Neustadt, Austria) / Andreas Schindel (Centre of Electrochemical Surface Technology, Wiener Neustadt, Austria) / Andje Stankovic (Centre of Electrochemical Surface Technology, Wiener Neustadt, Austria) / Norica Carmen Godja (CEST GmbH, Wiener Neustadt, Austria)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): JS: C. in Concrete and Cathodic Protection (WP11 + WP16)/Chairs: Crouzillac, Raupach.
Presentation time: 10:15:00 AM
Abstract ID and Title: 185505, NEW COASTAL ROAD UNDER CATHODIC PREVENTION
Presenting author: Xavier Hallopeau
Authors: Xavier Hallopeau (Freyssinet International & Cie, Rueil Malmaison Cedex, France) / Arnaud Meillier (Freyssinet International & Cie, Rueil Malmaison, France) / Olivier Lesieutre (Freyssinet International & Cie, Rueil Malmaison, France)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): JS: C. in Concrete and Cathodic Protection (WP11 + WP16)/Chairs: Crouzillac, Raupach.
Presentation time: 10:35:00 AM
Abstract ID and Title: 173614, Grout Acidification of Ribbon Anode in Impressed Current Cathodic Protection Systems in Concrete Structures
Presenting author: Martin Cheytani
Authors: Martin Cheytani (University of New South Wales, Sydney, Australia) / Sammy Lap Ip Chan (University of New South Wales, Sydney, Australia)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): JS: C. in Concrete and Cathodic Protection (WP11 + WP16)/Chairs: Crouzillac, Raupach.
Presentation time: 11:45:00 AM
Abstract ID and Title: 185417, USE OF CATHODIC PROTECTION PART OF A REPAIR SOLUTION FOR CARPARK
Presenting author: Xavier Hallopeau
Authors: Xavier Hallopeau (Freyssinet International & Cie, Rueil Malmaison Cedex, France) / Arnaud Meillier (Freyssinet International & Cie, Rueil Malmaison, France) / Ruud Meijer (Freyssinet Nederland B.V., Oudenbosch, Netherlands) / Olivier Lesieutre (Freyssinet International & Cie, Rueil-Malmaison, France) / Eugène Moucadau (Freyssinet International & Cie, Rueil Malmaison, France)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): JS: C. in Concrete and Cathodic Protection (WP11 + WP16)/Chairs: Crouzillac, Raupach.
Presentation time: 11:45:00 AM
Abstract ID and Title: 211498, Anode Reactive Behaviour in Galvanic Protection of Reinforced Concrete
Presenting author: Christian Stone
Authors: Christian Stone (CPT, Nottingham, United Kingdom) / Christian Christodoulou (AECOM, Birmingham, United Kingdom) / Wagne Dodds (AECOM, Loughborough, United Kingdom) / Nigel Davison (CPT, Nottingham, United Kingdom)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): JS: C. in Concrete and Cathodic Protection (WP11 + WP16)/Chairs: Crouzillac, Raupach.
Presentation time: 12:05:00 PM
Abstract ID and Title: 185615, ZINC LAYER ANODE APPLIED ON RESORT CARPARK STRUCTURES
Presenting author: Xavier Hallopeau
Authors: Xavier Hallopeau (Freyssinet International & Cie, Rueil Malmaison Cedex, France) / Olivier Lesieutre (Freyssinet International & Cie, Rueil Malmaison, France) / Eugène Moucadau (Freyssinet International & Cie, Rueil Malmaison, France) / Camille Anneville (Freyssinet International & Cie, Rueil Malmaison, France) / Roberto Giorgini (CorrPRE, Reeuwijk, Netherlands)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 12:25:00 PM
Abstract ID and Title: 189025, EIS Study on Depassivation of Steel Rebar in Water Simulating Concrete Environment
Presenting author: Masayuki Itagaki
Authors: Masayuki Itagaki (Tokyo University of Science, Chiba, Japan) / Shuhei Watanabe (Tokyo University of Science, Chiba, Japan) / Yoshinao Hoshi (Tokyo University of Science, Chiba, Japan) / Isao Shitanda (Tokyo University of Science, Chiba, Japan)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 12:45:00 PM
Abstract ID and Title: 198199, A coupled experimental and numerical investigation of ICCP efficiency
Presenting author: Adessina Ayodele
Authors: AVOIDELE ADESSINA (Cerema, Project-team DIMA, 110 Rue de Paris, BP 214, 77487 Provins Cedex, Provins, France) / Jean-François BARTELEMY (Cerema, Project-team DIMA, 110 Rue de Paris, BP 214, 77487 Provins Cedex, Provins, France) / Juan José CARPIO-PEREZ (Cerema, Project-team DIMA, 110 Rue de Paris, BP 214, 77487 Provins Cedex, Provins, France) / Alexandre PAVOINE (Cerema, Project-team DIMA, 110 Rue de Paris, BP 214, 77487 Provins Cedex, Provins, France) / Eric LOZINGUEZ (Cerema, Project-team DIMA, 110 Rue de Paris, BP 214, 77487 Provins Cedex, Provins, France)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Hater.
Presentation time: 10:55:00 AM
Abstract ID and Title: 183151, Inhibitor performance on carbon steel in high saline geothermal brine related to the Upper Rhine Graben (URG)
Presenting author: Petra Huttenloch
Authors: Petra Huttenloch (European Institute for Energy Research, Karlsruhe) / Roman Zorn (European Institute for Energy Research, Karlsruhe) / Linda Makni (European Institute for Energy Research, Karlsruhe) / Hagen Steger (KIT - Institute for Applied Geoscience, Karlsruhe) / Frank Schilling (KIT - Institute for Applied Geoscience, Karlsruhe) / Wolfgang Hater (Kurita Europe GmbH, Ludwigshafen)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 12:05:00 PM
Abstract ID and Title: 184988, Field Experience with a new corrosion inhibitor for cooling systems - Corrsave 100 -
Presenting author: Wolfgang Hater
Authors: Wolfgang Hater (Kurita Europe GmbH, Düsseldorf) / Juergen Matheis (Kurita Europe GmbH, Duesseldorf) / Christian zum Kolk (Kurita Europe GmbH, Duesseldorf) / Florian Wolf (Kurita Europe GmbH, Ludwigshafen)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Hater.
Presentation time: 12:25:00 PM
Abstract ID and Title: 203952, Long-term corrosion performance of lean duplex stainless steel corrugated bars in mortar with chlorides: influence of carbonation
Presenting author: Francisco Velasco
Authors: Asuncion Bautista (Carlos III University of Madrid, Leganés, Spain) / Francisco Velasco (Universidad Carlos III de Madrid, Leganes, Spain) / Sandra Milena Alvarez (Universidad Carlos III de Madrid, Leganes, Spain)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 11:15:00 AM
Abstract ID and Title: 206724, Surface Enhanced Raman Spectroscopy (SERS) and Electrochemical Investigation of the Adsorption and Corrosion Inhibition Performance of 4-methylimidazole on Copper Corrosion in Chloride Media
Presenting author: Merlin C. E. Bandeira
Authors: Merlin C. E. Bandeira (LND/COPPE/UF RJ, Rio De Janeiro, Brazil) / Elaine F. Silva (LND/COPPE/UF RJ, Rio de Janeiro, Brazil) / Julio S. Wyzard (Depo Quimica Inorganica/Instituto de Quimica/UF RJ, Rio de Janeiro, Brazil) / Wagner A. Alves (Depo Quimica Inorganica/Instituto de Quimica/UF RJ, Rio de Janeiro, Brazil) / Oscar R. Mattos (LND/COPPE/UF RJ, Rio de Janeiro, Brazil)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 11:45:00 AM
Abstract ID and Title: 210717, Chestnut extracts as a green corrosion inhibitor for bronze
Presenting author: Javier Izquierdo
Authors: Javier Izquierdo (University of La Laguna, La Laguna, Spain) / Giada Caniglia (University of La Laguna, La Laguna, Spain) / Ricardo M. Souto (University of La Laguna, La Laguna, Spain) / Roxana Bostan (Universitatea “1 Decembrie 1918” Alba Iulia, Alba Iulia, Romania) / Luiza Găină (Babeş-Bolyai University, Cluj-Napoca, Cluj-Napoca, Romania) / Simona Varvara (Universitatea “1 Decembrie 1918” Alba Iulia, Alba Iulia, Romania)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 4:50:00 PM
Abstract ID and Title: 226491, Effects of further chloride penetration on RC specimens made with chloride contaminated raw-materials and stainless steel bars
Presenting author: Federica Lollini
Authors: Federica Lollini (Politecnico di Milano, Milano, Italy) / Maddalena Carsana (Politecnico di Milano, Milan, Italy) / Matteo Gastaldi (Politecnico di Milano, Milano, Italy) / Elena Redaelli (Politecnico di Milano, Milano, Italy)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 5:10:00 PM
Abstract ID and Title: 177772, FLOW-ACCELERATED CORROSION IN POWER PLANTS: THE INFLUENCE OF CORROSION-PRODUCT OXIDES
Presenting author: Derek Lister
Authors: Derek Lister (University of New Brunswick, Fredericton, NB, Canada)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 10:15:00 AM
Abstract ID and Title: 178333, Anti-corrosion performance of 304 stainless steel and carbon steel in high concentrated cooling water
Presenting author: Derek Lister
Authors: Derek Lister (University of New Brunswick, Fredericton, NB, Canada)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 10:55:00 AM
Abstract ID and Title: 177772, FLOW-ACCELERATED CORROSION IN POWER PLANTS: THE INFLUENCE OF CORROSION-PRODUCT OXIDES
Presenting author: Derek Lister
Authors: Derek Lister (University of New Brunswick, Fredericton, NB, Canada)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 10:15:00 AM
Abstract ID and Title: 183151, Inhibitor performance on carbon steel in high saline geothermal brine related to the Upper Rhine Graben (URG)
Presenting author: Petra Huttenloch
Authors: Petra Huttenloch (European Institute for Energy Research, Karlsruhe) / Roman Zorn (European Institute for Energy Research, Karlsruhe) / Linda Makni (European Institute for Energy Research, Karlsruhe) / Hagen Steger (KIT - Institute for Applied Geoscience, Karlsruhe) / Frank Schilling (KIT - Institute for Applied Geoscience, Karlsruhe) / Wolfgang Hater (Kurita Europe GmbH, Ludwigshafen)
Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chairs: Schmitt, Hater.
Presentation time: 2:00:00 PM
Abstract ID and Title: 175847, Utilization of A Diallylmethylamine-Based Cyclopolymer for Low Carbon Steel Corrosion Control in Strong Acid Medium
Presenting author: Saviour Umoren
Authors: Saviour Umoren (King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chairs: Schmitt, Hater.
Presentation time: 2:20:00 PM
Abstract ID and Title: 177464, Inhibition effect and theoretical investigation of dicarboxylic acid derivatives as corrosion inhibitor for aluminium alloy
Presenting author: Daquan Zhang
Authors: Daquan Zhang (Shanghai University of Electric Power, Shanghai, China PR) / Hanxue Yang (Shanghai University of Electric Power, Shanghai, China PR)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chairs: Schmitt, Hater.
Presentation time: 2:40:00 PM
Abstract ID and Title: 206526, A potential corrosion inhibitor with low toxicity profile for sweet corrosion mitigation of API X 60 steel under hydrodynamic condition
Presenting author: Ime Obot
Authors: Ime Obot (King Fahd University of Petroleum and Minerals, DHAHRAN, Saudi Arabia) / IKENNA ONYEACHU (King Fahd University of Petroleum and Minerals, DHAHRAN, Saudi Arabia)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chairs: Schmitt, Hater.
Presentation time: 3:00:00 PM
Abstract ID and Title: 188376, Investigation of anticorrosive properties of some ionic liquids on mild steel in hydrochloric acid
Presenting author: Lutendo Chester Murulana
Authors: Lutendo Chester Murulana (University of Venda, Thohoyandou, South Africa) / Anitah Nkuna (University of Venda, University Road, South Africa)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chairs: Schmitt, Hater.
Presentation time: 3:50:00 PM
Abstract ID and Title: 204854, Development of a New Inhibitor for CO2 Corrosion at High Temperature, High Shear and High Salinity Environments
Presenting author: Tracey Jackson
Authors: Zhengwei Liu (Baker Hughes, Sugar Land, United States of America) / Sunder Ramachandran (Baker Hughes, Sugar land, United States of America) / Carlos Menendez (Baker Hughes, Sugar Land, United States of America) / Calvin Larson (Baker Hughes, Sugar Land, United States of America) / Brian Nelson (Baker Hughes, Sugar Land, United States of America) / Tracey Jackson (Baker Hughes, Sugar Land, United States of America)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chairs: Schmitt, Hater.
Presentation time: 4:10:00 PM
Abstract ID and Title: 213962, Comparative study of the corrosion inhibition of wild growing Allium species on Cor-Ten steel in acidic solution
Presenting author: Maria Pia Casalotto
Authors: Maria Pia Casalotto (Consiglio Nazionale delle Ricerche-Istituto per lo Studio dei Materiali Nanostrutturati, Palermo, Palermo, Italy) / Viviana Figa’ (Consiglio Nazionale delle Ricerche-Istituto per lo Studio dei Materiali Nanostrutturati, Palermo, Palermo, Italy) / Maurizio Bruno (Università degli Studi di Palermo, Dipartimento di Scienze e Tecnologie Biologiche, Chimiche e Farmaceutiche, Palermo, Italy) / Stefania Sut (Università degli Studi di Padova, Dipartimento di Agronomia, Animali, Alimenti, Risorse naturali e Ambiente, Padova, Italy) / Stefano Dall’Acqua (Università degli Studi di Padova, Dipartimento di Scienze del Farmaco, Padova, Italy)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C. & Scale Inhibition (WP1)/Chairs: Schmitt, Hater.
Presentation time: 4:30:00 PM
Abstract ID and Title: 199123, Investigation of corrosion inhibition mechanism on mild carbon steel in sweet conditions
Presenting author: Shivangi Gupta
Authors: Shivangi Gupta (Technical University of Denmark, Copenhagen, Denmark) / Magdalena Rogowska (Technical University of Denmark, Copenhagen, Denmark) / Rajan Ambat (Technical University of Denmark, Copenhagen, Denmark) / Kapil Kumar Gupta (Technical University of Denmark, Copenhagen, Denmark)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session: WP1 Meeting
Presentation time: 4:50:00 PM
EUROCORR 2019 Seville, Spain

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Mischler, Igual.
Presentation time: 10:15:00 AM
Abstract ID and Title: 200201, Tribocorrosion of passive metals in oxygen free media
Presenting author: Nuria Espallargas
Authors: Nuria Espallargas (NTNU, Trondheim, Norway) / Hector Maicas (NTNU, Trondheim, Norway) / Cristian Torres (NTNU, Trondheim, Norway)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Mischler, Igual.
Presentation time: 10:35:00 AM
Abstract ID and Title: 196538, Contribution of the in situ determination of the wear surface, volumes and kinetic of repassivation in the understanding of the tribocorrosion behaviour of a ferrite stainless steel.
Presenting author: Nicolas Mary
Authors: Nicolas Mary (ElyTMAx, CNRS Tohoku University, Université de Lyon ElyTMAx, CNRS Tohoku, sendai, Japan) / Vincent Dalbert (MATEIS, INSA Lyon, villeurbanne, France) / Bernard Normand (MATEIS, INSA Lyon, villeurbanne, France) / Catherine Verdu (MATEIS INSA Lyon, villeurbanne, France) / Saghi Saedlou (APERAM Research Center, Isbergues, France)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Mischler, Igual.
Presentation time: 10:55:00 AM
Abstract ID and Title: 223026, Modeling the tribocorrosion wear. Electrochemical characterization of the re-passivation phenomenon in a single scratch experiment
Presenting author: Javier NAVARRO-LABOULAIS
Authors: Nicolas MARY (INSA-Lyon/Université de Lyon/Tohoku University, Lyon, France) / Bernard NORMAND (INSA-Lyon/Université de Lyon, Lyon, France) / Andrés ROVIRA (UPV, Valencia, Spain) / Alba DALMAU (UPV, Valencia, Spain) / Anna IGUAL-MUÑOZ (EPFL, Lausanne, Switzerland) / Alejandro RODA-BUCH (EPFL, Lausanne, Switzerland) / Javier NAVARRO-LABOULAIS (UPV, Valencia, Spain)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Mischler, Igual.
Presentation time: 12:05:00 PM
Abstract ID and Title: 197044, Elucidating wear mechanisms of alumina / metal tribocorrosion pairs: sometimes it wears and sometimes it does not
Presenting author: Anna Igual Muñoz
Authors: Alba Dalmau (SIRYM, Universitat Politècnica de València, Valencia, Spain) / Alejandro Roda Buch (TIC, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland) / Anna Igual Muñoz (TIC, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland) / Stefano Mischler (TIC, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Mischler, Igual.
Presentation time: 12:25:00 PM
Abstract ID and Title: 184526, Tribological response of corrosion inhibitor containing PEO coatings
Presenting author: Yue Guo
Authors: Yue Guo (The University of Manchester, Manchester, United Kingdom) / Mingo Beatriz (The University of Manchester, Manchester, United Kingdom) / Allan Matthews (The University of Manchester, Manchester, United Kingdom) / Aleksey Yerokhin (The University of Manchester, Manchester, United Kingdom)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Mischler, Igual.
Presentation time: 12:45:00 PM
Abstract ID and Title: 217779, Effect of Water on the Tribological Performance of Ester Based Lubricants
Presenting author: Nuria Espallargas
Authors: Gaute Stenerud (Norwegian University of Science and Technology (NTNU), Trondheim, Norway) / Szymon Bernat (SIINTEF, Trondheim, Norway) / Nuria Espallargas (Norwegian University of Science and Technology (NTNU), Trondheim, Norway)

13:05 - 14:00 Lunchtime
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Geringer, Mathew.
Presentation time: 2:00:00 PM
Abstract ID and Title: 219770, Role of tribocorrosion on metal ion release during sliding of a CoCrMo alloy against articular cartilage
Presenting author: Bojana Stojanovic (AC2T research GmbH, Wiener Neustadt, Austria) / Christoph Bauer (Danube University Krems, Krems, Austria) / Christoph Stotter (Danube University Krems, Krems, Austria) / Thomas Klestil (Danube University Krems, Krems, Austria) / Stefan Nehrer (Danube University Krems, Krems, Austria) / Friedrich Franek (AC2T research GmbH, Wiener Neustadt, Austria) / Manel Rodriguez Ripoll (AC2T research GmbH, Wiener Neustadt, Austria)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Geringer, Mathew.
Presentation time: 2:20:00 PM
Abstract ID and Title: 222124, High normal load involves high wear in solution (bovine serum)? Ti-6Al-4V against Ti-6Al-4V under fretting corrosion solicitations: Not sure....
Presenting author: Jean Geringer
Authors: Jean Geringer (Mines Saint-Etienne Unité INSERM U1059, Saint Etienne, France) / Albert Boyer (Mines Saint-Etienne, Saint-Etienne, France) / Vincent Friderici (Ecole Centrale de Lyon LTDS UMR CNRS 5513, Ecully, France) / Philippe Kapla (Ecole Centrale de Lyon LTDS UMR CNRS 5513, Ecully, France) / Tahlita Taylor (University of Johannesburg, Johannesburg, South Africa) / Peter Olumbami (University of Johannesburg, Johannesburg, South Africa)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Geringer, Mathew.
Presentation time: 2:40:00 PM
Abstract ID and Title: 239185, Relevance of Tribocorrosion for Total Hip Arthroplasties
Presenting author: Claude Rieker
Authors: Claude Rieker (Zimmer Biomet EMEA, Winterthur, Switzerland)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Geringer, Mathew.
Presentation time: 3:00:00 PM
Abstract ID and Title: 224951, THIRD BODY LAYERS CHARACTERIZATION FORMED UNDER FRETTING-CORROSION CONDITIONS IN RETRIEVED MODULAR IMPLANTS
Presenting author: Angela Bermudez-castañeda
Authors: Angela Bermudez-castañeda (Escuela Colombiana de Ingeniería Julio Garavito, BOGOTA, Colombia) / SOFIA VALENTINA VARGAS PABON (ESCUELA COLOMBIANA DE INGENIERIA JULIO GARAVITO, BOGOTA, Colombia) / JOHANNA ESGUERRA ARCE (ESCUELA COLOMBIANA DE INGENIERÍA JULIO GARAVITO, BOGOTÁ, Colombia) / ADRIANA ESGUERRA ARCE (ESCUELA COLOMBIANA DE INGENIERÍA JULIO GARAVITO, BOGOTÁ, Colombia) / DAVID LEONARDO BLANCO ESTUPIÑAN (ESCUELA COLOMBIANA DE INGENIERÍA JULIO GARAVITO, BOGOTÁ, Colombia) / JUAN GUILLERMO ORTIZ MARTINEZ (CLINICA UNIVERSIDAD LA SABANA, CHIA, Colombia) / CRISTIAN PEREZ (CLINICA UNIVERSIDAD LA SABANA, CHIA, Colombia) / JUAN GUILLERMO CASTAÑO GONZALEZ (UNIVERSIDAD DE ANTIOQUIA, MEDELLIN, Colombia) / STEFANO MISCHLER (ECOLE POLYTECHNIQUE FEDERAL DE LAUSANNE, LAUSANNE, Switzerland)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Geringer, Mathew.
Presentation time: 3:50:00 PM
Abstract ID and Title: 220573, Bio-tribocorrosion evaluation of HiPIMS-PVD coated tribopairs
Presenting author: Antonino Mazzonello
Authors: Antonino Mazzonello (University of Malta, Msida, Malta) / Lars P leth Nielsen (Danish Technological Institute, Aarhus, Denmark) / Andreas Karl (Bodycote Specialist Technologies GmbH, Landsberg) / Joseph Buhagiar (University of Malta, Msida, Malta) / Bertram Mallia (University of Malta, Msida, Malta)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Geringer, Mathew.
Presentation time: 4:10:00 PM
Abstract ID and Title: 209793, Corrosion and tribocorrosion behavior of anodic treated Ti-Nb and Ti-Nb-Fe alloys for biomedical implant applications
Presenting author: Ihsan Caha
Authors: Ihsan Caha (University of Minho, Guimaraes, Portugal) / Alexandra Alves (Universidade do Minho, Guimaraes, Portugal) / Caterina Chirico (Universidad Carlos III de Madrid, Leganés, Spain) / Ana Pinto (Universidade do Minho, Guimarães, Portugal) / Sofia Tsiap (Universidad Carlos III de Madrid, Leganés, Spain) / Elena Gordo (Universidad Carlos III de Madrid, Leganés, Spain) / Fatih Toptan (Universidade do Minho, Guimarães, Portugal)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chairs: Geringer, Mathew.
Presentation time: 4:30:00 PM
Abstract ID and Title: 189597, Tribocorrosion evaluation of TiO2 bioactive surfaces doped with Sr intended for orthopaedic applications
Presenting author: Ana Costa
Authors: Ana Costa (CMEMS-UMinho Center of MicroElectroMechanical Systems - Universidade do Minho, Guimarães, Portugal) / Alexandra Alves (CMEMS-UMinho Center of MicroElectroMechanical Systems Universidade do Minho, Guimarães, Portugal) / Ana Pinto (DEM Department of Mechanical Engineering Universidade do Minho, Guimarães, Portugal) / Fatih Toptan (DEM Department of Mechanical Engineering Universidade do Minho, Guimarães, Portugal)
TUESDAY, SEPTEMBER 10

EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Symposium in Honour of Lola Gómez-Briceño (Nuclear Corrosion)/Chairs: D. Féron, T. Yonezawa.
Presentation time: 12:25:00 PM
Abstract ID and Title: 216492, IRRADIATION EFFECTS ON THE OXIDATION FIRST STAGES of a 316L austenitic stainless steel in simulated primary environment
Presenting author: Lydia Lafton
Authors: Lydia Lafton (CIRIMAT-ENSIACET, TOULOUSE, France) / Marylou BOISSON (CIRIMAT/EDF, Toulouse, France) / Laurent LEGRAS (EDF, Moret sur Loing, France) / Florence CARRETTE (EDF, Moret sur Loing, France) / Eric Andrieu (CIRIMAT-ENSIACET, Toulouse, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Symposium in Honour of Lola Gómez-Briceño (Nuclear Corrosion)/Chairs: D. Féron, T. Yonezawa.
Presentation time: 12:45:00 PM
Abstract ID and Title: 210365, SCC initiation in as-welded and thermally aged alloy 182 weld metal under simulated BWR/HWC conditions
Presenting author: Siddharth Suman
Authors: Siddharth Suman (Paul Scherrer Institute, Villigen PSI, Switzerland) / Hans-Peter Seifert (Paul Scherrer Institute, Villigen, Switzerland) / Stefan Ritter (Paul Scherrer Institute, Villigen, Switzerland) / Aleksandra Treichel (Paul Scherrer Institute, Villigen, Switzerland)

13:05 - 14:00 Lunchtime

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chairs: L. Gómez-Briceño, J. Piippo.
Presentation time: 2:00:00 PM
Abstract ID and Title: 172855, Immersion Corrosion Testing of Iron-Chromium-Aluminium Tubes under Simulated Light Water Nuclear Reactors Normal Operation Conditions
Presenting author: Raúl B. Rebak
Authors: Raúl B. Rebak (GE Global Research, Schenectady, United States of America) / Timothy B. Jurewicz (GE Global Research, Schenectady, United States of America) / Kan Sakamoto (Nippon Nuclear Fuel Development, Ibaraki-Ken, Japan)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chairs: L. Gómez-Briceño, J. Piippo.
Presentation time: 2:20:00 PM
Abstract ID and Title: 172371, Localized Corrosion Behaviour of FeCrAl Nuclear Fuel Cladding in Pool Storage
Presenting author: Raúl B. Rebak
Authors: Raúl B. Rebak (GE Global Research, Schenectady, United States of America) / Richard J. Blair (GE Global Research, Schenectady, United States of America)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chairs: L. Gómez-Briceño, J. Piippo.
Presentation time: 2:40:00 PM
Abstract ID and Title: 204568, SiC/SiC cladding for LWR: Assessment of flow accelerated corrosion
Presenting author: Marion LE FLEM
Authors: Brice BOURDILIAU (CEA, Den-Service de Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), Gif-sur-Yvette, France) / Frédéric DATCHARRY (CEA, Den-Service de Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), Gif-sur-Yvette, France) / Max Hélie (CEA, Den-Service de Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), Gif-sur-Yvette, France) / Marion LE FLEM (CEA, Den-Service de Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), Gif-sur-Yvette, France) / Christophe LORRETTE (CEA, Den-Service de Recherches Métallurgiques Appliquées (SRMA), Gif-sur-Yvette, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chairs: L. Gómez-Briceño, J. Piippo.
Presentation time: 3:00:00 PM
Abstract ID and Title: 232882, Intergranular corrosion by sodium of yttria doped thoria used as solid electrolyte of oxygen sensors in Sodium Fast Reactors
Presenting author: Laurent Brissonneau
Authors: Laurent Brissonneau (CEA Cadarache, Saint Paul lez Durance, France) / Yanis Cherkaski (CEA Cadarache, Saint Paul lez durance, France) / Nicolas Clavier (DINRS / ICSM, Bagnols sur Cèze, France) / Nicolas Dacheux (Université de Montpellier / ICSM, Bagnols sur Cèze, France)

15:20 - 15:50 - Coffee break

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chairs: M. Le Flem, R. Rebak.
Presentation time: 3:50:00 PM
Abstract ID and Title: 214028, Corrosion behaviour of Fe-Si-Zr and Si-Zr thin films on Zr1Nb alloy
Presenting author: Michal Nováč
Authors: Michal Novák (Power Engineering Department, University of Chemistry and Technology, Prague, Czech Republic) / Lukáš Tůma (Power Engineering Department, University of Chemistry and Technology, Prague, Czech Republic) / Marie Kudrnová (Power Engineering Department, University of Chemistry and Technology, Prague, Czech Republic) / Stanislav Cichoň (Institute of Physics, Czech Academy of Sciences, Prague, Czech Republic) / Petr Sajdl (Power Engineering Department, University of Chemistry and Technology, Prague, Czech Republic) / Jan Macák (Power Engineering Department, University of Chemistry and Technology, Prague, Czech Republic)
Room and situation: España 4+5, Floor -1 (Atrio III)
Session Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.
Presentation time: 2:00:00 PM
Abstract ID and Title: 178982, Novel self-healing coatings for corrosion protection of epoxy-coated steel substrates
Presenting author: M. Fatima Montemor
Authors: M. Fatima Montemor (IST - Instituto Superior Tecnico, Lisboa, Portugal) / Yegor Morozov (Instituto Superior Tecnico, Lisboa, Portugal) / Roma Raj (INSTITUTO SUPERIOR TECNICO, Lisboa, Portugal) / MAHBOOBEH ATTAEI (INSTITUTO SUPERIOR TECNICO, LISBOA, Portugal) / Ana Marques (INSTITUTO SUPERIOR TECNICO, LISBOA, Portugal) / r. Shakoor (Qatar University, Doha, Qatar) / R. Kahraman (QATAR UNIVERSITY, Doha, Qatar)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.
Presentation time: 2:20:00 PM
Abstract ID and Title: 187364, Multifunctional self-healing protective coatings with improved adhesion properties and corrosion-sensing abilities
Presenting author: Dawei Zhang
Authors: Dawei Zhang (University of Science and Technology Beijing, Beijing, China PR) / Yao Huang (University of Science and Technology Beijing, Beijing, China PR) / Lingwei Ma (University of Science and Technology Beijing, Beijing, China PR) / Lin Lu (University of Science and Technology Beijing, Beijing, China PR) / Herman Terryn (Vrije Universiteit Brussel, Brussels, Belgium) / Arjan Mol (Delft University of Technology, Delft, Netherlands) / Xiaopeng Lu (Northeastern University, Shenyang, China PR) / Tao Zhang (Northeastern University, Shenyang, China PR) / Fuhui Wang (Northeastern University, Shenyang, China PR) / Carsten Blawert (Helmholtz-Zentrum Geesthacht, Geesthacht) / Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht, Geesthacht)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.
Presentation time: 2:40:00 PM
Abstract ID and Title: 189839, Synthesis and Properties of Polyelectrolyte Multilayered Microcapsules Reinforced Smart Coatings
Presenting author: Abdul Shakoor
Authors: Abdul Shakoor (Qatar University, 2713, Qatar) / Adnan Khan (Qatar University, Doha, Qatar) / Fareeha Ubaid (Qatar University, Doha, Qatar) / Zubair Ahmad (Qatar University, Doha, Qatar) / Ramazan Kahraman (qatar University, Doha, Qatar) / Fatima Montemor (QATAR UNIVERSITY, Doha, Qatar)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.
Presentation time: 3:00:00 PM
Abstract ID and Title: 202280, Preparation and property study of smart protective coating
Presenting author: Ying Li
Authors: Ying Li (INSTITUTE OF METAL RESEARCH, SHENYANG, China PR) / Demian Njoku (INSTITUTE OF METAL RESEARCH,CAS, SHENYANG, China PR) / Miao Miao Cui (INSTITUTE OF METAL RESEARCH,CAS, SHENYANG, China PR)

15:20 - 15:50 - Coffee break
Inhibition of Corrosion Driven Coating Delamination on Iron Using Smart Release Hydrotalcite-Salicylaldoxime

Authors: Maria Serdechnova (Helmholtz Zentrum Geesthacht, Germany) / Tatsiana Shulha (Helmholtz Zentrum Geesthacht, Germany) / Sviatiana Lamaka (Helmholtz Zentrum Geesthacht, Germany) / Florian Wieland (Helmholtz Zentrum Geesthacht, Germany) / Konstantin Lapko (Belarusian State University, Belarus) / Carsten Blawert (Helmholtz Zentrum Geesthacht, Germany) / Elena Petrova (Belarusian State University, Belarus) / Mikhail Zheludkevich (Helmholtz Zentrum Geesthacht, Germany)

Abstract ID and Title: 208550, Chelating agent-assisted in situ LDH growth on bare and PEO treated magnesium alloy

Presenting author: Maria Serdechnova

Presenting author: Anelise Seniski

Authors: Anelise Seniski (Lactec-UFPR, Brazil) / Tassiane Oliveira (Lactec-UFPR, Brazil) / Mariana Bragança (Lactec-UFPR, Brazil) / Gilberto Carrera (Celpa, Brazil) / Kleber Portella (Lactec-UFPR, Brazil)

Abstract ID and Title: 195867, Environmental and Mechanical Effects Testing for an Aerospace Coating System

Presenting author: Fritz Friedersdorf

Authors: Fritz Friedersdorf (Luna Innovations Incorporated, United States of America) / Brandi Clark (Luna Innovations, United States of America) / Jacob Wright (Luna Innovations, United States of America) / Liam Agnew (Luna Innovations, United States of America) / Karen Schultz (Boeing Research and Technology, United States of America) / Kristen Williams (Boeing Research and Technology, United States of America)

Abstract ID and Title: 185449, Corrosion inhibition of AISI 1010 carbon steel coated with epoxy resin systems with 5% LDH-Zn-Al microcontainers

Presenting author: Gen Zhang

Authors: Gen Zhang (Chongqing University, China) / Liang Wu (Chongqing University, China) / Maria Serdechnova (Helmholtz-Zentrum Geesthacht, Germany) / Attao Tang (Chongqing University, China) / Carsten Blawert (Helmholtz-Zentrum Geesthacht, Germany) / Andrej Atrens (The University of Queensland, Australia) / Fusheng Pan (Chongqing University, China) / Mikhail L. Zheludkevich (Helmholtz-Zentrum Geesthacht, Germany)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 4:10:00 PM

Abstract ID and Title: 235885, Progress in chromate free replacements for aeronautical applications

Presenting author: Martin Beneke

Authors: Martin Beneke (Airbus Deutschland GmbH, Germany)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 5:10:00 PM

Abstract ID and Title: 180984, Smart self-healing coating additives for corrosion protection of magnesium alloys

Presenting author: Lélia Calado

Authors: Lélia Calado (Instituto Superior Técnico, Portugal) / Maryna Taryba (Instituto Superior Técnico, Portugal) / Yegor Morozov (Instituto Superior Técnico, Portugal) / Maria João Carmezim (Instituto Politécnico de Setúbal, Portugal) / F. Montemor (Instituto Superior Técnico, Portugal)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 10:15:00 AM

Abstract ID and Title: 223576, Inhibition of Corrosion Driven Coating Delamination on Iron Using Smart Release Hydrotalcite-Salicylaldoxime Exchanged Pigments

Presenting author: Philip Ansell

Authors: Philip Ansell (Swansea University, United Kingdom) / Natalie Wint (Swansea University, United Kingdom) / Hamilton McMurray (Swansea University, United Kingdom) / Geraint Williams (Swansea University, United Kingdom)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 4:50:00 PM

Abstract ID and Title: 129677, In-situ growth of MgAl-layered double hydroxide on PEO treated AZ31 Mg alloy towards active corrosion protection

Presenting author: Martin Beneke

Authors: Martin Beneke (Airbus Deutschland GmbH, Germany)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 10:35:00 AM

Abstract ID and Title: 221691, Corrosion inhibition of AISI 1010 carbon steel coated with epoxy resin systems with 5% LDH-Zn-Al microcontainers

Presenting author: Martin Beneke

Authors: Martin Beneke (Airbus Deutschland GmbH, Germany)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 10:55:00 AM

Abstract ID and Title: 225666, Corrosion behaviour and surface modifications of the AA2050-T8 aluminium alloy in mild and aggressive electrolytes

Presenting author: Meicheng Li

Authors: Meicheng Li (PSL Research University, France) / Antoine Seyeux (PSL Research University, France) / Sandrine Zanna (PSL Research University, France) / Philippe Marcus (PSL Research University, France) / Jean-Francois Lapko (Belarusian State University, Belarus)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 10:35:00 AM

Abstract ID and Title: 225666, Corrosion behaviour and surface modifications of the AA2050-T8 aluminium alloy in mild and aggressive electrolytes

Presenting author: Meicheng Li

Authors: Meicheng Li (PSL Research University, France) / Antoine Seyeux (PSL Research University, France) / Sandrine Zanna (PSL Research University, France) / Philippe Marcus (PSL Research University, France) / Jean-Francois Lapko (Belarusian State University, Belarus)

Room and situation: España 4+5, Floor -1 (Atrio III)

Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chairs: F. Montemor, M. Mohedano.

Presentation time: 10:55:00 AM

Abstract ID and Title: 195867, Environmental and Mechanical Effects Testing for an Aerospace Coating System

Presenting author: Fritz Friedersdorf

Authors: Fritz Friedersdorf (Luna Innovations Incorporated, United States of America) / Brandi Clark (Luna Innovations, United States of America) / Jacob Wright (Luna Innovations, United States of America) / Liam Agnew (Luna Innovations, United States of America) / Karen Schultz (Boeing Research and Technology, United States of America) / Kristen Williams (Boeing Research and Technology, United States of America)
11:15 - 11:45 Coffee break

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 11:45:00 AM
Abstract ID and Title: 211905, Li depletion monitoring to understand long-term active corrosion protection of aluminium alloys by lithium-leaching coatings
Presenting author: Peter Visser
Authors: Peter Visser (AkzoNobel, Sassenheim, Netherlands) / Jamie Laird (University of Melbourne, Melbourne, Australia) / Anthony Hughes (CSIRO, Clayton, Australia) / Tomas Verhallen (Delft University of Technology, Delft, Netherlands) / Marnix Wagemaeker (Delft University of Technology, Delft, Netherlands) / Herman Terryn (Vrije Universiteit Brussel, Brussel, Belgium) / Arjan Mol (Delft University of Technology, Delft, Netherlands)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 12:05:00 PM
Abstract ID and Title: 189245, The effect of polymeric matrix and inhibitor solubility on the leaching behaviour of anti-corrosion species for long-term active corrosion protection on AA2024-T3 alloy
Presenting author: Ander Cervellera-Dominguez
Authors: Ander Cervellera-Dominguez (University of Manchester, Manchester, United Kingdom) / Peter Visser (AkzoNobel, Sassenheim, Netherlands) / Xiaorong Zhou (University of Manchester, Manchester, United Kingdom) / Carlos Avendano (University of Manchester, Manchester, United Kingdom) / Simon Gibbon (AkzoNobel, Felling, United Kingdom)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 12:25:00 PM
Abstract ID and Title: 186253, The role of pH on the Kinetics and Mechanism of Lithium Salts Corrosion Inhibition on Al-Li Alloys
Presenting author: Emmanouela Michailidou
Authors: Emmanuella Michailidou (Delft University of Technology, Delft, Netherlands) / Peter Visser (AkzoNobel, Sassenheim, Netherlands) / J. M. C. Mol (Delft University of Technology, Delft, Netherlands) / Yaiza Gonzalez-Garcia (Delft University of Technology, Delft, Netherlands)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 12:45:00 PM
Abstract ID and Title: 207879, Towards long term corrosion protection: from nano- to micro- carriers
Presenting author: Santiago J. Garcia
Authors: Santiago J. Garcia (Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft, Netherlands) / Paul J. Denissen (Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft, Netherlands)

13:05 - 14:00 Lunchtime

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 2:00:00 PM
Abstract ID and Title: 193370, Flash-PEO coatings for corrosion protection of Mg alloys
Presenting author: Endzhe Matykina
Authors: Ewa Wierzbicka (Universidad Complutense de Madrid, Madrid, Spain) / Marta Mohedano (Universidad Complutense de Madrid, Madrid, Spain) / Bahram Vaghefinazari (Helmholtz-Zentrum Geesthacht, Geesthacht) / Swati L. Lamaka (Helmholtz-Zentrum Geesthacht, Geesthacht) / Raul Arrabal (Universidad Complutense de Madrid, Madrid, Spain) / Endzhe Matykina (Universidad Complutense de Madrid, Madrid, Spain)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 2:20:00 PM
Abstract ID and Title: 222553, Duplex anodised aluminium for aerospace applications
Presenting author: Brendan Duffy
Authors: Brendan Duffy (TU Dublin, Dublin, Ireland) / Rihana Moussa (CREST, TU Dublin, Dublin, Ireland) / Susan Warren (CREST, TU Dublin, Dublin, Ireland) / Daniela Romonti (CREST, TU Dublin, Dublin, Ireland) / Ann Hopper (CREST, TU Dublin, Dublin, Ireland) / Mohamed Oubaha (CREST, TU Dublin, Dublin, Ireland)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 2:40:00 PM
Abstract ID and Title: 194107, Ce-containing TSAA for corrosion protection of 2024-T3 aluminium alloy
Presenting author: Ruben del Olmo
Authors: Ruben del Olmo (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, 28040, Madrid, Madrid, Spain) / Raúl Arrabal (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, 28040, Madrid, Madrid, Spain) / Marta Mohedano (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, 28040, Madrid, Madrid, Spain) / Alicia Rodríguez (Fundación Cidaut, Parque Tecnológico de Boecillo, 47151 Boecillo, Valladolid, Valladolid, Spain) / Angel Pardo (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, 28040, Madrid, Madrid, Spain) / Peter Visser (AkzoNobel, Sassenheim, Sassenheim, Netherlands) / Endzhe Matykina (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, 28040, Madrid, Madrid, Spain)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 3:00:00 PM
Abstract ID and Title: 229747, Influence of the PSA process settings on the structure of anodic oxide and its durability performance
Presenting author: Yulia Meteleva
Authors: Yulia Meteleva (GKN Fokker Aerostructures, Papendrecht, Netherlands) / Vincent Van den Heuvel (GKN Fokker Aerostructures, Papendrecht, Netherlands) / Arnold Langeveld (GKN Fokker Aerostructures, Papendrecht, Netherlands) / John De Kok (GKN Fokker Aerostructures, Papendrecht, Netherlands)

15:20 - 15:50 - Coffee break

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 3:50:00 PM
Abstract ID and Title: 213280, Environment friendly surface preparation of aerospace aluminium alloys for application of functional polymer pretreatment
Presenting author: Ilya Ostrovsky
Authors: Ilya Ostrovsky (Chemetall GmbH, Frankfurt am Main) / Joerg Huebscher (Institut fuer Korrosionsschutz , Dresden)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 4:10:00 PM
Abstract ID and Title: 207219, Functional polymers as chromium-free pretreatment approach for aerospace specific anti-corrosion coatings on copper containing aluminium alloys
Presenting author: Jörg Hübscher
Authors: Jörg Hübscher (Institut für Korrosionsschutz Dresden GmbH, Dresden) / Frank Simon (Leibniz-Institut für Polymerforschung Dresden, Dresden) / Ralf Frenzel (Leibniz-Institut für Polymerforschung Dresden, Dresden)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 4:30:00 PM
Abstract ID and Title: 218791, Aluminium alloys surface preparation for new Chromate-Free Conversion Coatings
Presenting author: Camille Trinidad

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 4:50:00 PM
Abstract ID and Title: 214820, Local analysis of the Cu-rich coarse intermetallics reactivity to explain the protective properties of trivalent chromium conversion layer formed on 2024 aluminium alloy
Presenting author: Christine Blanc
Authors: Christine Blanc (CIRIMAT , Toulouse, France) / Romain Saillard (CIRIMAT, Toulouse, France) / Matthew Glenn (CSIRO, Victoria, Australia) / Bernard Viguier (CIRIMAT, Toulouse, France) / Grégory Odemer (CIRIMAT, Toulouse, France) / Benoît Fori (Mecaprotec Industries, Muret, France) / Anthony E. Hughes (CSIRO, Victoria, Australia)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Control in Aerospace (WP22)/Chairs: Hack, Zeludkevich.
Presentation time: 5:10:00 PM
Abstract ID and Title: 224137, Corrosion characterization of Al-Cu-Mg (AA2024) and Al-Cu-Mg-Li (AA2198) sheet alloys coated with a trivalent chromium conversion
Presenting author: Lionel Peguet
Authors: Lionel Peguet (Constellium, Voreppe, France) / Florian Monnier (Constellium, Voreppe, France) / Benoît Fori (Mecaprotec, Muret, France)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Prosek.
Presentation time: 10:15:00 AM
Abstract ID and Title: 184438, Atmospheric corrosion and environmental aspects of metals and alloys in outdoor architecture: a 25-year perspective
Presenting author: Inger Odnevall Wallinder
Authors: Inger Odnevall Wallinder (KTH, Royal Institute of Technology, Div. Surface and Corrosion Science, 100 44 Stockholm, Sweden) / Christofer Leygraf (KTH Royal Institute of Technology, Div. Surface and Corrosion Science, 100 44 Stockholm, Sweden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Prosek.
Presentation time: 10:55:00 AM
Abstract ID and Title: 225644, Progress to understanding the atmospheric corrosion of zinc and challenges to overcome.
Presenting author: Ivan Cole
Authors: Ivan Cole (RMIT university, Melbourne, Australia)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

11:15 - 11:45 Coffee break

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Wallinder.
**Presentation time:** 11:45:00 AM
**Abstract ID and Title:** 193905, Experimental validation of Dynamic Electrolyte Film Model for atmospheric corrosion modelling
**Presenting author:** Nils Van den Steen
**Authors:** Koushik Bangalore Gangadharacharya (Vrije Universiteit Brussel, Brussels, Belgium) / Nils Van den Steen (Vrije Universiteit Brussel, Brussels, Belgium) / Daan De Wilde (Vrije Universiteit Brussel, Brussels, Belgium) / Darja Pecko (Vrije Universiteit Brussel, Brussels, Belgium) / Raf Claessens (Vrije Universiteit Brussel, Brussels, Belgium) / Herman Terryn (Vrije Universiteit Brussel, Brussels, Belgium)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Wallinder.
**Presentation time:** 12:05:00 PM
**Abstract ID and Title:** 193282, Modelling atmospheric corrosion of ZnAlMg coated steels
**Presenting author:** Christian Allely
**Authors:** Christian Allely (ArcelorMittal Maizières Research (France), Maizières-les-Metz, France) / Tiago Machado Amorim (ArcelorMittal Maizières Research, Maizières-les-Metz, France)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Wallinder.
**Presentation time:** 12:25:00 PM
**Abstract ID and Title:** 196604, A Finite Element Model for Damaged Zinc Coatings Based on Real Time Corrosion Data Collected in the Tropical Marine Atmospheric of Singapore
**Presenting author:** Mohsen Saeedikhani
**Authors:** Mohsen Saeedikhani (National University of Singapore (NUS), Singapore, Singapore) / Sudesh Wijesinghe (Singapore Institute of Manufacturing Technology (SIMTech), Singapore, Singapore) / Daniel J. Blackwood (National University of Singapore (NUS), Singapore, Singapore)

13:05 - 14:00 Lunchtime

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Cole.
**Presentation time:** 2:00:00 PM
**Abstract ID and Title:** 202071, Using simulation to predict and understand corrosion during chamber tests
**Presenting author:** Siva Palani
**Authors:** Siva Palani (Corrdesa LLC, Tyrone, GA, United States of America) / Julio Mendez (Corrdesa LLC, Tyrone, GA, United States of America) / Keith Legg (Corrdesa LLC, Tyrone, GA, United States of America) / Alan Rose (Corrdesa LLC, Tyrone, GA, United States of America)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Cole.
**Presentation time:** 2:20:00 PM
**Abstract ID and Title:** 196428, Wet/Dry cyclic salt spray tests: reproducibility problems and solutions
**Presenting author:** Sean Fowler
**Authors:** Sean Fowler (Q-Lab Corporation, Westlake Ohio, United States of America)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Cole.
**Presentation time:** 2:40:00 PM
**Abstract ID and Title:** 188926, The Effect of Salt Spraying Condition on the Result of the Accelerated Cyclic Corrosion Test of Stainless Steel
**Presenting author:** Shuji Nishida
**Authors:** Shuji Nishida (JFE Steel Corporation, Chiba, Japan) / Tomohiro Ishii (JFE Steel Corporation, Chiba, Japan) / Mitsuyuki Fujisawa (JFE Steel Corporation, Chiba, Japan) / Reiko Sugihara (JFE Steel Corporation, Chiba, Japan)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion 
September 9-13, 2019 Seville, Spain

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Cole.
**Presentation time:** 3:00:00 PM
**Abstract ID and Title:** 203578, Atmospheric corrosion behaviour of carbon and galvanised steel: comparison between ISO standard and real exposure data
**Presenting author:** Fabio Maria Bolzoni
**Authors:** Fabio Maria Bolzoni (Politecnico di Milano, Milano, Italy) / Silvia Beretta (Politecnico di Milano, Dipartimento di Chimica, materiali e ingegneria chimica, 20131 Milano, Italy) / Omar Fusco (Maccafferri innovation center, 39100 Bolzano, Italy) / Nicola Mazzon (Maccafferri innovation center, 39100 Bolzano, Italy)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Engelberg.
**Presentation time:** 4:10:00 PM
**Abstract ID and Title:** 175642, Height Directional Distribution of Corrosion Rate, Deposited Sea Salt and Time of Wetness on Transmission Towers
**Presenting author:** Teruhisa Tatsuoka
**Authors:** Teruhisa Tatsuoka (Tokyo Electric Power Company Holdings, Inc., Yokohama, Japan) / Akikiyo Kurokawa (TEPCO Holdings, Inc. / TEPCO Research Institute, Yokohama, Japan) / Keiichi Yoshino (TEPCO Holdings, Inc. / TEPCO Research Institute, Yokohama, Japan) / Nobuhiro Kishigaki (TEPCO Holdings, Inc. / TEPCO Research Institute, Yokohama, Japan) / Tomoaki Saitou (TEPCO Power Grid, Inc., Tokyo, Japan) / Yoshihiko Saitou (TEPCO Power Grid, Inc., Tokyo, Japan) / Motoyuki Yamazaki (TEPCO Power Grid, Inc., Tokyo, Japan) / Tomoki Kitashima (TEPCO Power Grid, Inc., Tokyo, Japan)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Cole.
**Presentation time:** 3:00:00 PM
**Abstract ID and Title:** 173361, Field test validation of corrosivity environment analysis based on sensor monitoring in transmission towers
**Presenting author:** Norikazu Fuse
**Authors:** Atsushi Naganuma (Central Research Institute of Electric Power Industry, Yokosuka City, Japan) / Jun-ichi Tani (Central Research Institute of Electric Power Industry, Yokosuka City, Japan) / Yasuhiro Hori (Central Research Institute of Electric Power Industry, Yokosuka City, Japan) / Norikazu Fuse (Central Research Institute of Electric Power Industry, Yokosuka City, Japan) / Yoshiharu Shumuta (Central Research Institute of Electric Power Industry, Yokosuka City, Japan)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Engelberg.
**Presentation time:** 4:50:00 PM
**Abstract ID and Title:** 196208, Monitoring Systems and Electrochemical Sensors for Atmospheric Corrosion
**Presenting author:** Fritz Friedersdorf
**Authors:** Fritz Friedersdorf (Luna Innovations Incorporated, VA 22903, United States of America) / Jeff Demo (Luna Innovations, Charlottesville, United States of America) / Nate Brown (Luna Innovations, Charlottesville, United States of America) / Brandi Clark (Luna Innovations, Charlottesville, United States of America)

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** CO2 Corrosion in Industrial Applications (TF)/Chair: R. Bäßler.
**Presentation time:** 5:10:00 PM
**Abstract ID and Title:** 175044, Monitoring of atmospheric corrosion and dewing by comb-like copper sensor
**Presenting author:** Shan Wan
**Authors:** Shan Wan (Huazhong University of Science and Technology, Wuhan, China PR)

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
**Session and Chair(s):** CO2 Corrosion in Industrial Applications (TF)/Chair: R. Bäßler.
**Presentation time:** 10:15:00 AM
**Abstract ID and Title:** 196010, The effect of free, saturated, and dissolved water on carbon steel corrosion in dense phase CO2: a discussion
**Presenting author:** Bjorn Morland
**Authors:** Bjorn Morland (Institute for Energy Technology, Kjeller, Norway) / Gaute Svenningsen (Institute for Energy Technology, Kjeller, Norway)
Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): CO2 Corrosion in Industrial Applications (TF)/Chair: R. Bäßler.
Presentation time: 10:35:00 AM
Abstract ID and Title: 182348, Effect of Elemental Sulfur on the Corrosion Behavior of X80 Steel under a Supercritical CO2 Environment
Presenting author: Qingjun Gong
Authors: Qingjun Gong (China University of Petroleum (Beijing), Beijing, China PR) / Yong Xiang (China University of Petroleum (Beijing), Beijing, China PR) / Wenguan Li (China University of Petroleum (Beijing), Beijing, China PR) / Zhenlin Li (China University of Petroleum (Beijing), Beijing, China PR)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): CO2 Corrosion in Industrial Applications (TF)/Chair: R. Bäßler.
Presentation time: 10:55:00 AM
Abstract ID and Title: 190455, Performance of metallic coatings in supercritical CO2
Presenting author: Shiladitya Paul
Authors: Shiladitya Paul (TWI, Cambridge, United Kingdom)

11:15 - 11:45 Coffee break

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): CO2 Corrosion in Industrial Applications (TF)/Chair: R. Bäßler.
Presentation time: 11:45:00 AM
Abstract ID and Title: 200597, On the corrosion behaviour of CO2 injection pipe steels: role of cement
Presenting author: Quynh Hoa Le

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session: TF Business Meeting
Presentation time: 12:25:00 PM

13:05 - 14:00 Lunchtime

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chairs: Basseguy/Cristiani.
Presentation time: 2:00:00 PM
Abstract ID and Title: 196384, Use of Multiple Species of Microbes in Microbially Influenced Corrosion Studies: A Review
Presenting author: Scott Wade
Authors: Scott Wade (Swinburne University, Melbourne, Australia) / Hoang Phan (Swinburne University, Hawthorn, Australia) / Linda Blackall (Melbourne University, Melbourne, Australia)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chairs: Basseguy/Cristiani.
Presentation time: 2:40:00 PM
Abstract ID and Title: 235214, METABOLOMIC PROFILING AS A TOOL IN MANAGEMENT OF MICROBIALLY-INFLUENCED CORROSION IN OILFIELD INSTALLATIONS
Presenting author: iwona beech
Authors: iwona beech (Montana State University, Bozeman, United States of America) / Vincent Bonifay (University of Oklahoma, Norman, United States of America) / Turid Liengen (Equinor, Porsgrunn, Norway) / Roberta Amendola (Montana State University, Bozeman, United States of America) / Jan Sunner (CAMEC Ltd, Bozeman, United States of America)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chairs: Basseguy/Cristiani.
Presentation time: 3:00:00 PM
Abstract ID and Title: 191995, The effect of sulfate reducing bacteria and acetogenic bacteria on the corrosion of carbon steel in crystalline groundwater
Presenting author: Leena Carpén
Authors: Leena Carpén (VTT Technical Research Centre of Finland Ltd, Espoo, Finland) / Pauliina Rajala (VTT Technical Research Centre of Finland Ltd, Espoo, Finland) / Elisa Isotahdon (VTT Technical Research Centre of Finland Ltd, Tampere, Finland)

15:20 - 15:50 - Coffee break
Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 3:50:00 PM
Abstract ID and Title: 180148, A large-scale metagenomic analysis of microbial communities in corrosive and non-corrosive environmental and cultivated samples
Presenting author: Satoshi Wakai
Authors: Satoshi Wakai (Kobe University, Kobe, Japan)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 4:10:00 PM
Abstract ID and Title: 200355, MIC of Submarine Ballast Carbon Steel by SRB Consortium
Presenting author: Robert Moorcroft
Authors: Robert Moorcroft (University of Manchester, Manchester, United Kingdom) / Rafael Leiva Garcia (University of Manchester, Manchester, United Kingdom) / Robert Akid (University of Manchester, Manchester, United Kingdom) / Nicholas Stevens (University of Manchester, Manchester, United Kingdom)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 4:30:00 PM
Abstract ID and Title: 187023, Analysis of microbiologically influenced corrosion of carbon steel in soil
Presenting author: Kazuhiko Miyana
Authors: Kazuhiko Miyana (Tokyo Institute of Technology, Yokohama, Japan) / Ryoma Hayashi (Tokyo Institute of Technology, Yokohama, Japan) / Yasunori Tanji (Tokyo Institute of Technology, Yokohama, Japan)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 4:50:00 PM
Abstract ID and Title: 178751, Characterization of two sulfate-reducing bacteria Desulfotignum sp. and their involvement in biological souring
Presenting author: Yasunori Tanji
Authors: Yasunori Tanji (Tokyo Institute of Technology, Yokohama, Japan) / Kamarisima Kamarisima (Institut Teknologi Bandung, Bandung, Indonesia) / Kazuhiko Miyana (Tokyo Institute of Technology, Yokohama, Japan)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 5:10:00 PM
Abstract ID and Title: 181149, CORROSION BEHAVIOR OF 1.4313 STEEL IN THE PRESENCE OF MANGANESE OXIDIZING BACTERIUM ISOLATED FROM MURAT RIVER (TURKEY)
Presenting author: Polen YILMAZ
Authors: Polen YILMAZ (Istanbul University, Faculty of Science, Department of Biology, Istanbul, Turkey) / Nurhan CANSEVER (Yildiz Technical University, Faculty of Chemistry-Metallurgy, Metallurgical and Materials Engineering Department, Istanbul, Turkey) / Esra ILHAN-SUNGUR (Istanbul University, Faculty of Science, Department of Biology, Istanbul, Turkey)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: McMurray.
Presentation time: 10:15:00 AM
Abstract ID and Title: 210508, Scanning electrochemical microscopy investigation of the negative difference effect on magnesium using ion-selective microelectrode probes
Presenting author: Ricardo M. Souto
Authors: Dániel Filotás (University of Pécs, Pécs, Hungary) / Bibiana M. Fernández-Pérez (University of La Laguna, La Laguna, Spain) / Lívia Nagy (University of Pécs, Pécs, Hungary) / Géza Nagy (University of Pécs, Pécs, Hungary) / Ricardo M. Souto (University of La Laguna, La Laguna, Spain)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: McMurray.
Presentation time: 10:35:00 AM
Abstract ID and Title: 224764, Surface film evolution on pure magnesium: case of aqueous corrosion inhibition by selected carboxylates
Presenting author: Alina Maltseva
Authors: Alina Maltseva (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Siwatiana Lamaka (Magnesium Innovations Centre (MagIC), Helmholtz-Zentrum Geesthacht, Geesthacht) / Grégoire Lefèvre (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Polina Volovitch (Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), Paris, France)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: McMurray.
Presentation time: 10:55:00 AM
Abstract ID and Title: 217196, Control of corrosion behavior of MgZn alloy via micro-alloying with Ge and wrought processing
Presenting author: Mikhail Zheludkevich
Authors: Pingli Jiang (Helmholtz-Zentrum Geesthacht, Geesthacht) / Carsten Blawert (Helmholtz-Zentrum Geesthacht, Geesthacht) / Jan Bohlen (Helmholtz-Zentrum Geesthacht, Geesthacht) / Ruiqing Hou (Helmholtz-Zentrum Geesthacht, Geesthacht) / Nico Scharnagl (Helmholtz-Zentrum Geesthacht, Geesthacht) / Mikhail Zheludkevich (Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Geesthacht)

11:15 - 11:45 Coffee break
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion September 9-13, 2019 Seville, Spain

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Lamaka.
Presentation time: 11:45:00 AM
Abstract ID and Title: 195702, Effect of heat treatment on the corrosion behaviour of Mg-10Gd alloy in 0.5% NaCl solution
Presenting author: Carsten Blawert
Authors: Maria del Rosario Silva Campos (1 Helmhotz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht) / Carsten Blawert (1 Helmhotz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht) / Chamini L. Mendis (BCAST, Brunel University London, Uxbridge, United Kingdom) / Marta Mohedano (Department of Chemical and Materials Engineering, Universidad Complutense de Madrid, Madrid, Spain) / Mikhail Zheludkevich (Helmhotz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht) / Karl Ulrich Kainer (Helmhotz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht) / Tristan Zimmermann (Institute of Coastal Research, Helmhotz-Zentrum Geesthacht, Max-Planck-Straße 1, Geesthacht 21502, Germany, Geesthacht) / Daniel Proefrock (Institute of Coastal Research, Helmhotz-Zentrum Geesthacht, Max-Planck-Straße 1, Geesthacht 21502, Germany, Geesthacht)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Lamaka.
Presentation time: 12:05:00 PM
Abstract ID and Title: 179510, Influence of ultrasound parameters on corrosion properties of ultrasound enhanced friction stir welded hybrid joints
Presenting author: Sigrid Benfer
Authors: Sigrid Benfer (DEHEMA-Forschungsinstitut, Frankfurt am Main) / Darshan Kare Gowda (DEHEMA-Forschungsinstitut, Frankfurt am Main) / Marco Thomá (TU Chemnitz, Chemnitz) / Guntram Wagner (TU Chemnitz, Chemnitz) / Wolfram Fürbeth (DEHEMA-Forschungsinstitut, Frankfurt am Main)

13:05 - 14:00 Lunchtime

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Williams.
Presentation time: 2:00:00 PM
Abstract ID and Title: 195801, Quasi in-situ and in-situ liquid TEM studies of corrosion initiation in aluminium alloys
Presenting author: Ali Kosari
Authors: Ali Kosari (Department of Materials Science and Engineering, Delft University of Technology, Mekelweg 2, 2628 CD Delft, The Netherlands, Delf, Netherlands) / Henny Zandbergen (Kavli Institute of Nanoscience, Delft University of Technology, Lorentzweg 1, 2628 CJ Delft, The Netherlands, Delf, Netherlands) / Frans Tichelaar (Kavli Institute of Nanoscience, Delft University of Technology, Lorentzweg 1, 2628 CJ Delft, The Netherlands, Delf, Netherlands) / Peter Visser (Research Development and Innovation, AkzoNobel, 2171 AJ Sassenheim, The Netherlands, Sassenheim, Netherlands) / Herman Terryn (Department of Materials and Chemistry, Research Group Electrochemical and Surface Engineering (SURF), Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, Brussels, Belgium) / Arjan Mol (Department of Materials Science and Engineering, Delft University of Technology, Mekelweg 2, 2628 CD Delft, The Netherlands, Delf, Netherlands)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Williams.
Presentation time: 2:20:00 PM
Abstract ID and Title: 223587, Application of atomic force microscopy (AFM) for in situ corrosion studies of thin film covered AA2024-T3 aluminium alloy surface
Presenting author: Ozlem Ozcan
Authors: Julia Witt (Federal Institute for Materials Research and Testing (BAM), Berlin) / Ahed Almall (Federal Institute for Materials Research and Testing (BAM), Berlin) / Ozlem Ozcan (Federal Institute for Materials Research and Testing (BAM), Berlin)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Williams.
Presentation time: 2:40:00 PM
Abstract ID and Title: 174230, In situ microscopic study of the initiation of the crystallographic pitting corrosion on 1050 aluminium
Presenting author: Hiroshi Kakinuma
Authors: Hiroshi Kakinuma (Department of Materials Science, Tohoku University, Miyagi, Japan) / Izumi Muto (Department of Materials Science, Tohoku University, Miyagi, Japan) / Yu Sugawara (Department of Materials Science, Tohoku University, Miyagi, Japan) / Yoshiyuki Oya (UACJ Corporation Research & Development Division, Aichi, Japan) / Nobuyoshi Hara (Department of Materials Science, Tohoku University, Miyagi, Japan)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Williams.
Presentation time: 3:00:00 PM
Abstract ID and Title: 184174, Monitoring in situ the repassivation of Al in air using SKPFM
Presenting author: Reynier Revilla
Authors: Reynier Revilla (Vrije Universiteit Brussel, Brussels, Belgium) / Herman Terryn (Vrije Universiteit Brussel, Brussels, Belgium) / Iris De Grave (Vrije Universiteit Brussel, Brussels, Belgium)

15:20 - 15:50 - Coffee break
Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Zheludevitch.
Presentation time: 3:50:00 PM
Abstract ID and Title: 197979, Evaluation of Intermetallics related to Localized Corrosion of AA5083 via Scanning Kelvin Probe Force Microscopy
Presenting author: Yan Han Liew
Authors: Yan Han Liew (NUS Graduate School for Integrative Sciences and Engineering, National University of Singapore, Singapore, Singapore) / Daniel J Blackwood (Department of Materials Science and Engineering, National University of Singapore, Singapore, Singapore) / Sudesh Wijesinghe (Singapore Institute of Manufacturing Technology (SIMTech) and National University of Singapore , Singapore, Singapore)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Zheludevitch.
Presentation time: 4:10:00 PM
Abstract ID and Title: 211333, Corrosion response of ultrafine-grained aluminium alloy processed by ECAP
Presenting author: Annamaria Viceré
Authors: Annamaria Viceré (Università Politecnica delle Marche, Ancona, Italy) / Marcello Cabibbo (Università Politecnica delle Marche, Ancona, Italy) / Gabriella Roventi (Università Politecnica delle Marche, Ancona, Italy) / Tiziano Bellezze (Università Politecnica delle Marche, Ancona, Italy)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Zheludevitch.
Presentation time: 4:30:00 PM
Abstract ID and Title: 184383, Corrosion and corrosion protection of 3D printed Al-Si alloys
Presenting author: Iris De Graeve
Authors: Reynier Revilla (Vrije Universiteit Brussel, Brussels, Belgium) / Tim Rubben (Vrije Universiteit Brussel, Brussels, Belgium) / Donovan Verkens (Vrije Universiteit Brussel, Brussels, Belgium) / Iris De Graeve (Vrije Universiteit Brussel, Brussels, Belgium)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Zheludevitch.
Presentation time: 4:50:00 PM
Abstract ID and Title: 222366, Trace elements influence on filiform corrosion resistance in recycled 6060 aluminum alloys
Presenting author: Jan-Olov Nilsson
Authors: Jan-Olov Nilsson (Hydro Extruded Solutions, 61281, Sweden)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Zheludevitch.
Presentation time: 5:10:00 PM
Abstract ID and Title: 190961, The effect of microstructure on the localized aqueous corrosion of a model Zn-Al-Mg alloy
Presenting author: NATALIE Wint
Authors: NATALIE Wint (Swansea University, SWANSEA, United Kingdom) / James Sullivan (Swansea University, Swansea, United Kingdom) / Nathan Cooze (Swansea University, Swansea, United Kingdom) / Geraint Williams (Swansea University, Swansea, United Kingdom) / Hamilton Neil McMurray (Swansea University, Swansea, United Kingdom)
WEDNESDAY, SEPTEMBER 11, 2019: LECTURES

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
Presentation time: 09:00:00 AM
Plenary Session: Plenary Lecture: Prof. Oscar R. Mattos - "New trends for testing materials for oil and gas industry: Results and Discussion"

09:45 – 10:15 Break to visit Exhibitors

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: J. Vogelsang, I. De Graeve.
Presentation time: 10:15:00 AM
Abstract ID and Title: 203490, Steel corrosion protection using post-consumer polyethylene terephthalate coatings
Presenting author: Michele Fedel
Authors: Flavio Deflorian (University of Trento, Trento, Italy) / Elisangela Silva (University of Minas Gerais, Department of Chemical Engineering, Belo Horizonte , Brazil) / Michele Fedel (University of Trento DII, Trento, Italy) / Fernando Cotting (University of Minas Gerais, Department of Chemical Engineering, Belo Horizonte, Brazil) / Vanessa Lins (University of Minas Gerais, Department of Chemical Engineering, Belo Horizonte, Brazil)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: J. Vogelsang, I. De Graeve.
Presentation time: 10:35:00 AM
Abstract ID and Title: 218043, The influence of Length of Alkyl Chain on Chemical Structure and Corrosion Resistance of Hybrid Acrylic Sol-Gel Coatings
Presenting author: Damir Hamulić
Authors: Damir Hamulić (Institute Jožef Stefan, Ljubljana, Slovenia) / Ingrid Milošev (Institute Jožef Stefan, Ljubljana, Slovenia)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: J. Vogelsang, I. De Graeve.
Presentation time: 10:55:00 AM
Abstract ID and Title: 176309, Studies of Sulfosalicylic Acid Doped Polyaniline Incorporated into Epoxy Organic coatings on Al Alloy
Presenting author: Li Liu
Authors: Li Liu (Northeastern University, Shenyang, China PR)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: J. Vogelsang, I. De Graeve.
Presentation time: 11:45:00 AM
Abstract ID and Title: 178036, OWEA coating systems: Corrosion protection performance after compression and impact
Presenting author: Michael Irmer
Authors: Michael Irmer (Fraunhofer-Einrichtung für Großstrukturen in der Produktionstechnik IGP, Rostock) / Tom Marquardt (Muehlhan AG, Hamburg) / Andreas Mømber (Muehlhan AG, Hamburg) / Nikolai Glück (Fraunhofer-Einrichtung für Großstrukturen in der Produktionstechnik IGP, Rostock) / Wilko Flügge (Fraunhofer-Einrichtung für Großstrukturen in der Produktionstechnik IGP, Rostock)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: J. Vogelsang, I. De Graeve.
Presentation time: 12:05:00 PM
Abstract ID and Title: 193315, Characteristic of chitosan composite coatings deposited on magnesium alloys
Presenting author: Halina Krawiec
Authors: Halina Krawiec (AGH University of Science and Technology, Krakow, Poland) / Iryna Kozina (A, K, Poland) / Maria Starowicz (AGH University of Science and Technology, K, Poland) / Magdalena Kawałec (AGH University of Science and Technology, Krakow, Poland)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: J. Vogelsang, I. De Graeve.
Presentation time: 12:25:00 PM
Abstract ID and Title: 217141, Self-assembled layer’s for the temporary corrosion protection of Magnesium-AZ31 Alloy
Presenting author: Vinodh Kumar Korrapati
Authors: Vinodh Kumar Korrapati (Helmholtz Zentrum Geesthacht, Geesthacht) / Nico Scharnagl (Helmholtz Zentrum Geesthacht, Geesthacht) / Dietmar Letzig (Helmholtz Zentrum Geesthacht, Geesthacht) / Mikhail Zheludkevich (Helmholtz Zentrum Geesthacht, Geesthacht)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: J. Vogelsang, I. De Graeve.
Presentation time: 12:45:00 PM
Abstract ID and Title: 223004, Creating Correlation between Accelerated and Live Testing of Fluoropolymer Coatings in a Marine Environment
Presenting author: Gareth Berry
Authors: Gareth Berry (Whitford Ltd, Runcorn Cheshire, United Kingdom)

13:05 - 14:00 Lunchtime
Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: M. Ferreira, P. Keil.
Presentation time: 2:00:00 PM
Abstract ID and Title: 218186, Investigation of corrosion protection effect new anisotropic manganese-hydrogen-phosphate particles in Nano-mer® powder coatings on mild steel
Presenting author: Carsten Becker-Willinger
Authors: Carsten Becker-Willinger (INM - Leibniz Institute for New Materials, Saarbrücken) / Sener Albayrak (INM - Leibniz Institute for New Materials, Saarbrücken) / Marek Twardoch (INM - Leibniz Institute for New Materials, Saarbrücken)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: M. Ferreira, P. Keil.
Presentation time: 3:00:00 PM
Abstract ID and Title: 205734, Zn containing polymer coatings for AA7475: localized study of anti-corrosion performance
Presenting author: Maryna Taryba
Authors: J.V. Nardeli (Universidade Estadual Paulista-UNESP, Instituto de Química, Araraquara/SP, Brazil 14800-060, Araraquara, Brazil) / C.S. Fusigara (Universidade Estadual Paulista-UNESP, Instituto de Química, Araraquara/SP, Brazil 14800-060, Araraquara, Brazil) / Maryna Taryba (Centro de Química Estrutural - CQE, DEQ, Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisboa, Portugal, Lisboa, Portugal) / M.F. Monte (Centro de Química Estrutural - CQE, DEQ, Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisboa, Portugal, Lisboa, Portugal) / A.V. Benedetti (Universidade Estadual Paulista-UNESP, Instituto de Química, Araraquara/SP, Brazil 14800-060, Araraquara, Brazil)

15:20 - 15:50 - Coffee break

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings/Chair: M. Ferreira, P. Keil.
Presentation time: 3:50:00 PM
Abstract ID and Title: 183712, Blistering of coatings - a broad ion beam study
Presenting author: Ville Saarimaa
Authors: Ville Saarimaa (Top Analytika Ltd., Turku, Finland) / Antti Markkula (SSAB Europe Oy, Hämeenlinna, Finland) / Jere Manni (Top Analytica Oy, Turku, Finland)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings/Chair: M. Ferreira, P. Keil.
Presentation time: 4:10:00 PM
Abstract ID and Title: 194459, Calcium carbonate particles as natural oil carriers in polyurethane primers
Presenting author: Shyama Ranade
Authors: Shyama Ranade (Indian Institute of Technology Madras, Chennai, India) / Lakshman Neelakantan (Indian Institute of Technology Madras, Chennai, India) / Meet Sagar (Indian Institute of Technology Madras, Chennai, India)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings/Chair: M. Ferreira, P. Keil.
Presentation time: 4:30:00 PM
Abstract ID and Title: 230099, Novel Inorganic, Layered Aluminum tri-polyphosphate (ATP) Intercalated with N-containing inhibitors for Anti-corrosion Applications
Presenting author: Chaymae Hejjaj
Authors: Chaymae Hejjaj (Mohamed VI polytechnic university, Benguerir, Morocco) / Ahmed Ait Aghzaf (LASAD, Ecole Normale Supérieure-Abdelmalek Essaadi University, Martil, Morocco, Martil, Morocco) / Mouad dahbi (Materials Science and Nano-engineering Department, University Mohammed VI Polytechnic, Benguerir, Morocco, Benguerir, Morocco) / Rachid Hakkou (LCME, Faculty of Science and Technology - Cadi Ayyad University, Marrakesh, Morocco, Marrakech, Morocco) / Christian Fischer (Department of Physics, University Koblenz- Landau, Koblenz, Germany, Koblenz)
A new XPS deconvolution approach applied to study the corrosion behaviour of an equiatomic CoCrFeMnNi high-entropy alloy

Authors: Junlei Tang (Southwest Petroleum University, Chengdu, China PR)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings/Chair: M. Ferreira, P. Keil.
Presentation time: 4:50:00 PM
Abstract ID and Title: 214215, Corrosion Prevention Properties of TiO2/PVB–PANI/PVB Hybrid Coating on Stainless Steel
Presenting author: Junlei Tang

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings/Chair: M. Ferreira, P. Keil.
Presentation time: 5:10:00 PM
Abstract ID and Title: 176408, Smart Combination of electrochemical (EIS, SKP), spectroscopic and mechanical methods to investigate the diffusion/migration of electrolyte and/or water along the metal/water-borne organic coating interface
Presenting author: Shima Khazraee Sheidae Mehr
Authors: Shima Khazraee Sheidae Mehr (Niederrhein University of Applied Sciences, Krefeld) / Michael Dornbusch (Niederrhein University of Applied Sciences, Krefeld) / Wolfgang Bremser (Paderborn University, Paderborn)
Passive Film Characterization of Austenite/Ferrite Phases of Duplex Stainless Steel using Synchrotron HAXPEEM

Authors: Marie Längberg

Presenting author: Marie Längberg

Abstract ID and Title: 213753, Passive Film Characterization of Austenite/Ferrite Phases of Duplex Stainless Steel using Synchrotron HAXPEEM

Session and Chair(s): C. Mechanisms, Methods & Modelling [WP6+8]/Chair: Normand.

Presentation time: 12:05:00 PM

Room and situation: Sevilla 2, Floor 0 (foyer)

WEDNESDAY, SEPTEMBER 11

EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

EUROCORR 2019 Seville, Spain

37
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

15:20 - 15:50 - Coffee break

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Fushimi.
Presentation time: 3:50:00 PM
Abstract ID and Title: 219528, Exploring Oilfield Corrosion: A Surface Science Approach
Presenting author: Marek Nikiel
Authors: Marek Nikiel (University of Manchester, Manchester, United Kingdom) / David Ruiz-Izuriga (University of Manchester, Manchester, United Kingdom) / Hadeel Hussain (University of Manchester, Manchester, United Kingdom) / Matthew Acres (University of Manchester, Manchester, United Kingdom) / Christopher Muryn (University of Manchester, Manchester, United Kingdom) / Robert Lindsay (University of Manchester, Manchester, United Kingdom) / Ehsan Ahmad (Imperial College, London, United Kingdom) / Carlos Rafols-i-Belles (Imperial College, London, United Kingdom) / Nicholas Harrison (Imperial College, London, United Kingdom)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Fushimi.
Presentation time: 4:10:00 PM
Abstract ID and Title: 213313, A combined interpretation of thermal desorption spectra of Fe-C-X alloys: Part I - experimental approach
Presenting author: Tom Depover
Authors: Tom Depover (Ghent University, Zwijnaarde, Belgium) / Andreas Drexler (Materials Center Leoben, Leoben, Austria) / Werner Ecker (Materials Center Leoben, Leoben, Austria) / Kim Verbeken (Ghent University, Zwijnaarde, Belgium)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Fushimi.
Presentation time: 4:50:00 PM
Abstract ID and Title: 182271, Effect of metal cations on hydrogen permeation behavior of steel during wet and dry corrosion tests
Presenting author: Masatoshi Sakairi
Authors: Masatoshi Sakairi (Faculty of Engineering, Hokkaido University, Sapporo, Japan) / Yusuke Togashi (Graduate School of Engineering, Hokkaido University, Sapporo, Japan)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Fushimi.
Presentation time: 5:10:00 PM
Abstract ID and Title: 203094, Corrosion behavior of iron in alkaline-deaerated solutions
Presenting author: Federico Martineelli-Orlando
Authors: Federico Martineelli-Orlando (ETH Zürich, Zürich, Switzerland) / Wei Shi (ETH Zürich, Zürich, Switzerland) / Ueli Angst (ETH Zürich, Zürich, Switzerland)

17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. In Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 10:15:00 AM
Abstract ID and Title: 201939, Calculation of mass transfer coefficients for corrosion prediction in two-phase gas-liquid pipe flow
Presenting author: Luciano Paolinelli
Authors: Luciano Paolinelli (Ohio University, Institute for Corrosion and Multiphase Technology, Athens OH, United States of America) / Srdjan Nestic (Ohio University, Institute for Corrosion and Multiphase Technology, Athens OH, United States of America)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. In Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 10:35:00 AM
Abstract ID and Title: 176067, The effect of partitioning on effective corrosion mitigation in Oil and Gas production systems
Presenting author: Johannes Sonke
Authors: Johannes Sonke (Shell, Amersfoort, Netherlands)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. In Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 10:55:00 AM
Abstract ID and Title: 221728, Highly Biodegradable Oxygen Corrosion Inhibitors for Hydro-Testing and Long Term Storage Application
Presenting author: Nihal Obeyesekere
Authors: Nihal Obeyesekere (Clariant Oil and Mining Services, The Woodlands Texas, United States of America) / Thenuka Ariyaratna (Clariant Oil and Mining Services, The Woodlands, United States of America) / Vivien Reichert (Clariant Oil and Mining Services, The Woodlands) / Jonathan Wyldie (Clariant Oil and Mining Services, The Woodlands, United States of America)

11:15 - 11:45 Coffee break
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion  
September 9-13, 2019 Seville, Spain

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 11:45:00 AM
Abstract ID and Title: 181688, Corrosion inhibition of Bis(2-ethylhexyl) phosphate in a CO2-O2 containing environment  
Presenting author: Xiankang Zhong  
Authors: Junying Hu (Southwest Petroleum University, Chengdu, China PR) / Xiankang Zhong (Southwest Petroleum University, Chengdu, China PR)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 12:05:00 PM
Abstract ID and Title: 225479, The Impact of an Incompatible Carrier Solvent on a Batch Corrosion Inhibitor  
Presenting author: Lisa Ferris  
Authors: Lisa Ferris (Baker Hughes, Kirkby, United Kingdom) / Wai Mok (Baker Hughes, Kirkby, United Kingdom) / Tracey Jackson (Baker Hughes, Sugar Land, TX, United States of America) / Zhengwei Liu (Baker Hughes, Sugar Land, TX, United States of America)  

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 12:25:00 PM
Abstract ID and Title: 218967, Investigation of the behavior of Amine based corrosion inhibitors in the presence of Mono Ethylene Glycol on API SL-X65 in a glass cell with rotating cylinder electrode setup  
Presenting author: Askar Soltani  
Authors: Askar Soltani (MSc. Student in Materials Science and Engineering (Science and Research Branch, Islamic Azad University, Tehran, IRAN), Tehran, Iran) / Alireza Abbasi (University Professor, Tehran, Iran)  

13:05 - 14:00 Lunchtime

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 2:00:00 PM
Abstract ID and Title: 187573, Effect of Hydrogen on SSC Susceptibility of Sour Resistant Linepipe  
Presenting author: Taishi Fujishiro  
Authors: 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, Kashima, Japan) / Masahiko Hamada (Nippon Steel & Sumitomo Metal Corporation, Tokyo, Japan)  

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 2:20:00 PM
Abstract ID and Title: 196450, Effect of Microstructure on SSC Resistant Property in Grade X65 UOE Sour Linepipe Steels  
Presenting author: Junji Shimamura  
Authors: Daichi Izumi (JFE Steel Corporation, Fukuyama, Japan) / Junji Shimamura (JFE Steel Corporation, Fukuyama, Japan) / Satoshi Igi (JFE Steel Corporation, Fukuyama, Japan) / Nobuyuki Ishikawa (JFE Steel Corporation, Kawasaki, Japan) / Satoshi Ueoka (JFE Steel Corporation, Fukuyama, Japan) / Koichi Ibara (JFE Steel Corporation, Fukuyama, Japan) / Joe Kondo (JFE Steel Corporation, Tokyo, Japan)  

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 2:40:00 PM
Abstract ID and Title: 188101, Electrolytic and autoclave testing and characterisation of hydrogen cracking in pipeline steels  
Presenting author: Thomas Britton  
Authors: Thomas Britton (Imperial College London, London, United Kingdom) / Jim Hickey (Imperial College London, London, United Kingdom) / Mary Ryan (Imperial, London, United Kingdom) / Ron van Tol (Shell Technology Centre, Amsterdam, Netherlands) / John Wijenberg (Shell Technology Centre, Amsterdam, Netherlands)  

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 3:00:00 PM
Abstract ID and Title: 205558, Corrosion and hydrogen permeation of low alloy steel in H2S-containing environments: the effect of test buffer solution chemistry  
Presenting author: Jean Kittel  
Authors: Jean Kittel (IFP Energies nouvelles, Solaize, France) / Martien Duvall Deffo Ayagou (IFPEN, Solaize, France) / Gaurav Joshi (IFPEN, Solaize, France) / Bernard Tribollet (CNRS, Paris, France) / Thi Tuyet Mai Tran (CNRS, Paris, France) / Christophe Mendibide (Institut de la Corrosion, Fraissés, France)  

15:20 - 15:50 - Coffee break

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production/Chair: Winning.
Presentation time: 3:50:00 PM
Abstract ID and Title: 206636, Sulfide Stress Corrosion Cracking of high strength wire grades used in flexible pipes: YS x SSCC susceptibility  
Presenting author: Merlin C E Bandeira  
Authors: Merlin C E Bandeira (LNDC/COPPE/UFRI, Rio De Janeiro, Brazil) / Pedro V. G. da Silva (LNDC/COPPE/UFRI, Rio De Janeiro, Brazil) / Fawzi V. de Sousa (LNDC/COPPE/UFRI, Rio De Janeiro, Brazil) / Cesar G. Camerini (LNDC/COPPE/UFRI, Rio De Janeiro, Brazil) / Rogaciano M. Moreira (LNDC/COPPE/UFRI, Rio De Janeiro, Brazil) / Fabricio P. dos Santos (Cenpes - Petrobras, Rio De Janeiro, Brazil) / Oscar R. Mattos (LNDC/COPPE/UFRI, Rio De Janeiro, Brazil)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion September 9-13, 2019 Seville, Spain

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production/Chair: Winning.
Presentation time: 4:10:00 PM
Abstract ID and Title: 210134, Hydrogen Uptake of Steels at H2 Partial Pressures up to 100 bar
Presenting author: Anton Trautmann
Authors: Anton Trautmann (Montanuniversitaet Leoben, Leoben, Austria) / Gregor Mori (Montanuniversitaet Leoben, Leoben, Austria) / Wolfgang Siegl (Montanuniversitaet Leoben, Leoben, Austria) / Mathias Truschnner (Montanuniversitaet Leoben, Leoben, Austria) / Josefine Pfeiffer (Montanuniversitaet Leoben, Leoben, Austria) / Markus Oberndorfer (RAG Austria AG, Vienna, Austria) / Stephan Bauer (RAG Austria AG, Vienna, Austria) / Marianne Kapp (voestalpine BOEHLER Edelstahl GmbH & Co KG, Kapfenberg, Austria) / Andreas Keplinger (voestalpine BOEHLER Edelstahl GmbH & Co KG, Kapfenberg, Austria)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production/Chair: Winning.
Presentation time: 4:30:00 PM
Abstract ID and Title: 191610, On the influence of non-metallic inclusions on HIC susceptibility of low carbon bainitic steels
Presenting author: Markus Schürmann
Authors: Markus Schürmann (Hüttenwerke Krupp Mannesmann GmbH, Duisburg) / Rosa Peter (Hüttenwerke Krupp Mannesmann GmbH, Duisburg) / Georgi Genchev (Salzgitter Mannesmann Forschung GmbH, Duisburg) / Thomas Haase (Salzgitter Mannesmann Forschung GmbH, Duisburg)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production/Chair: Winning.
Presentation time: 4:50:00 PM
Abstract ID and Title: 198023, Effect of oxygen contamination on the SSC/HIC resistance of low alloyed steels
Presenting author: Christophe Mendibide
Authors: Christophe Mendibide (institut de la corrosion, fraisses, France) / jean kittel (IFPEN, Solaize, France) / Claude Duret-Thual (I, Fraisses, France) / Martien Deffo Ayagou (Ins, Fraisses, France)

17:30 - 19:00 Poster Party / Poster Discussion

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 10:15:00 AM
Abstract ID and Title: 198804, Corrosion Damage Effects on the Structural Integrity Assessment of Offshore Structures
Presenting author: Sabina Aghasibayli
Authors: Sabina Aghasibayli (University of Strathclyde, Glasgow, United Kingdom) / Feargal Brennan (University of Strathclyde, Glasgow, United Kingdom)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 10:35:00 AM
Abstract ID and Title: 234037, The impact of the revision of ISO 12944 on the design consideration of offshore wind farms – The certifier’s overview
Presenting author: Lars Lichtenstein
Authors: Lars Lichtenstein (DNV GL SE, Hamburg)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 10:55:00 AM
Abstract ID and Title: 205217, Improving Structural Integrity Assessment of Well Conductors Using Various Inspection Techniques
Presenting author: Payam Jamshidi
Authors: Payam Jamshidi (TWI Limited, Cambridge, United Kingdom) / Hadi Khalili (NSIRC, Cambridge, United Kingdom)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 11:45:00 AM
Abstract ID and Title: 231914, Development of an Evaluation Method for Corrosion Prevention Effect in Petrolatum Lining System
Presenting author: Ema Kato
Authors: Ema Kato (Port and Airport Research Institute, Yokosuka, Japan) / Masahiko Hoshino (Nakabohtec Corrosion Protecting Co., Ltd, Tokyo, Japan) / Hiroto Tado (Port and Airport Research Institute, Yokosuka, Japan) / Toru Yamaji (Port and Airport Research Institute, Yokosuka, Japan)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 12:05:00 PM
Abstract ID and Title: 191885, Properties of chromophore-incorporated commercial epoxy coatings
Presenting author: Craig Melton
Authors: Craig Melton (University of Leicester, Leicester United Kingdom, United Kingdom) / Simon Gill (University of Leicester, Leicester, United Kingdom) / Shiladitya Paul (Technology Welding Institute, Cambridge, United Kingdom)
Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 12:25:00 PM
Abstract ID and Title: 178839, Synergetic effect between fluid flow and hydrostatic pressure on the failure behaviour of epoxy coating under deep ocean hydrodynamic environment
Presenting author: Fandi Meng
Authors: Fandi Meng (Northeastern University, Shenyang, China PR) / Li Liu (Northeastern University, Shenyang, China PR) / Yu Cui (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / Rui Liu (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / Fuhui Wang (Northeastern University, Shenyang, China PR)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 12:45:00 PM
Abstract ID and Title: 231276, Improvement of the carbon steel steel corrosion resistance in seawater by a Ceria/ Magnesium hydroxide coating
Presenting author: Marc Jeannin
Authors: Marc Jeannin (University of La Rochelle / LaSIE, La Rochelle Cedex 1, France) / Kahina AGGOUN (University of La Rochelle / LaSIE, La Rochelle, France) / Juan CREUS (University of La Rochelle / LaSIE, La Rochelle, France) / Boualem SAIDANI (University of Bejaia, BEJAIA, Algeria) / Lila CHAAL (University of Bejaia, BEJAIA, Algeria)

13:05 - 14:00 Lunchtime

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 2:00:00 PM
Abstract ID and Title: 194679, Thermally sprayed metallic coatings for protection of steel operating in marine environments
Presenting author: Berenika Syrek-Gerstenkorn
Authors: Berenika Syrek-Gerstenkorn (University of Birmingham, Birmingham, United Kingdom) / Philaditya Paul (TWI, Cambridge, United Kingdom) / Alison Davenport (University of Birmingham, Birmingham, United Kingdom)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 2:20:00 PM
Abstract ID and Title: 194723, Influence of mechanical loads on the corrosion behaviour of thermally sprayed ZnAl15
Presenting author: Martin Andreas Knoch
Authors: Kirsten Bobzin (RWTH Aachen University, Aachen) / Mehmet Öte (RWTH Aachen University, Aachen) / Martin Andreas Knoch (RWTH Aachen University, Aachen)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 2:40:00 PM
Abstract ID and Title: 236644, Graphene based coatings for Marine applications
Presenting author: Karanveer Aneja
Authors: Karanveer Aneja (Talga Technologies Ltd., Cambridge, United Kingdom)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session: WP9 Meeting
Presentation time: 3:00:00 PM

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 3:50:00 PM
Abstract ID and Title: 226689, CORROSION OF WELDED JOINTS AT AN ANGLE OF FACADE ENCLOSURES
Presenting author: Leire Solaberrieta
Authors: Leire Solaberrieta (Lortek SCOOP, Ordicia, Spain) / Aitziber Pedrozo (Lortek SCOOP, Ordicia, Spain)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Marine Corrosion (WP9)/Chair: Refait, Paul.
Presentation time: 4:10:00 PM
Abstract ID and Title: 175286, Corrosion rate variation of mooring chain steels with different copper contents and its relationship with the disparity in microbial communities
Presenting author: Dun Zhang
Authors: Dun Zhang (Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China PR)
17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: M. Galetz.
Presentation time: 10:15:00 AM
Abstract ID and Title: 206460, High-Temperature Corrosion Behavior of Alloys in Mixed-Gas Environments
Presenting author: Brian Gleeson
Authors: Brian Gleeson (University of Pittsburgh, Pittsburgh, United States of America) / Satia Soltanattar (University of Pittsburgh, Pittsburgh, United States of America)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: M. Galetz.
Presentation time: 10:35:00 AM
Abstract ID and Title: 200894, Chemical, structural and electronic properties of oxide scale formed at high temperature under synthetic air on stainless steels
Presenting author: Thibault Roy
Authors: Thibault Roy (SIMaP, Saint-Martin d'Hères, France) / Yves Wouters (SIMaP, Saint-Martin d'Hères, France) / Laurence Latu-Romain (SIMaP, Saint-Martin d'Hères, France) / Ismaël Guillotte (Aperam, Isbergues, France) / Baptiste Latouche (Aperam, Isbergues, France)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: M. Galetz.
Presentation time: 10:55:00 AM
Abstract ID and Title: 215293, Comparison of oxidation of chromium steels in air with 10 vol.% water vapor between 500-650°C at atmospheric and elevated pressures
Presenting author: Clara Schlereth
Authors: Clara Schlereth (DEHEMA-Forschungsinstitut, Frankfurt am Main) / Mathias C. Galetz (DEHEMA-Forschungsinstitut, Frankfurt am Main)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: M. Galetz.
Presentation time: 11:45:00 AM
Abstract ID and Title: 216217, Corrosion behaviour of Hastelloy C-276 in the reactor atmosphere of a thermal utilization process for post-consumer plastics
Presenting author: Gregor Mori
Authors: Gregor Mori (Montanuniversität Leoben, Leoben, Austria) / Alexander Schmid (Montanuniversitaet Leoben, Leoben, Austria) / Stefan Höning (OMV E & P GmbH, Gänserndorf, Austria) / Roland Haubner (Technical University of Vienna, Vienna, Austria)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: M. Galetz.
Presentation time: 12:05:00 PM
Abstract ID and Title: 181831, DEGRADATION OF SIMPLE AND Si-MODIFIED ALUMINIDE COATINGS IN TYPE II HOT CORROSION CONDITIONS
Presenting author: Christiane Stephan-Scherb
Authors: Christiane Stephan-Scherb (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Juho Lehmusto (Abo Akademi University, Turku, Finland) / Florian Falk (Bundesanstalt für Materialforschung und -prüfung, Berlin) / Bruce A. Pint (Oak Ridge National Laboratory, Oak Ridge)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: M. Galetz.
Presentation time: 12:25:00 PM
Abstract ID and Title: 199882, Spallation study of chromia scales thermally grown on pure chromium at low and high p(O2)
Presenting author: Yves Wouters
Authors: Yves Wouters (Université Grenoble Alpes, Saint Martin d'Heres, France) / Laurence Latu-Romain (Université Grenoble Alpes, Saint Martin d'Heres, France) / Stéphane Mathieu (University of Lorraine, Nancy, France) / Michel Vilasi (University of Lorraine, Nancy, France)

13:05 - 14:00 Lunchtime
Room and session: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.
Presentation time: 2:20:00 PM
Abstract ID and Title: 212928, Effect of water vapor content on oxidation resistance of martensitic stainless steels at austenitization temperature
Presenting author: Mohammed Al-Ali
Authors: Mohammed Al-Ali (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Bruno GILLES (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Céline PASCAL (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Muriel BRACCINI (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Valérie PARRY (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France)

Room and session: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.
Presentation time: 2:40:00 PM
Abstract ID and Title: 222938, Influence of a chromium deposit on the short time oxidation behavior of AISI 441 ferric stainless steels at 850°C
Presenting author: Mohammed Al-Ali
Authors: Mohammed Al-Ali (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Bruno GILLES (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Céline PASCAL (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Muriel BRACCINI (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France) / Valérie PARRY (Université Grenoble Alpes, Grenoble INP, CNRS, SIMaP, Saint-Martin-d’Hères, France)

Room and session: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.
Presentation time: 3:00:00 PM
Abstract ID and Title: 192886, Internal oxidation of iron-silicon model alloys during simulated annealing after hot rolling
Presenting author: Cauê Corrêa Da Silva
Authors: Cauê Corrêa Da Silva (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf) / Michael Rohwerder (Max-Planck-Institut für Eisenforschung, Düsseldorf)

15:20 - 15:50 - Coffee break

Room and session: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.
Presentation time: 3:50:00 PM
Abstract ID and Title: 177035, The impact of process dust composition on the SO2-to-SO3 conversion in flash smelting heat recovery boilers
Presenting author: Juho Lehmusto
Authors: Juho Lehmusto (Abo Akademi University, Turku, Finland) / Tor Laureen (Abo Akademi University, Turku, Finland) / Mari Lindgren (Outotec Research Center, Pori, Finland)

Room and session: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.
Presentation time: 4:10:00 PM
Abstract ID and Title: 177651, Corrosion behavior of Ti60 alloy under NaCl solution spray at 600 degrees C
Presenting author: Rui Li
Authors: Rui Li (Northeastern University, Shenyang, China PR) / Li Liu (Northeastern University, Shenyang, China PR) / Zhongfen Yu (Northeastern University, Shenyang, China PR) / Fandi Meng (Northeastern University, Shenyang, China PR) / Fuhui Wang (Northeastern University, Shenyang, China PR)

Room and session: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.
Presentation time: 4:30:00 PM
Abstract ID and Title: 206317, Corrosion characterization of 304L stainless steel and 5754 aluminum in chloride atmospheres
Presenting author: Maria Planells Valencia
Authors: Maria Planells Valencia (CEA Grenoble, Grenoble, France) / Romain Soulas (CEA Grenoble, Grenoble, France) / Gilles Meresse (EMT5 Sauvetage, Saint-Victoret, France) / Eric De Vito (CEA Grenoble, Grenoble, France)

Room and session: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.
Presentation time: 4:50:00 PM
Abstract ID and Title: 212015, Comparison of roles of water vapor and oxygen during the reaction behavior of Si3N4 fibers
Presenting author: Xinmei Hou
Authors: Hang Ye (University of Science and Technology Beijing, Beijing, China PR) / Enxia Xu (Zhengzhou University, Zhengzhou, China PR) / Enhui Wang (University of Science and Technology Beijing, Beijing, China PR) / Xinmei Hou (University of Science and Technology Beijing, Beijing, China PR) / Kuochih Chou (University of Science and Technology Beijing, Beijing, China PR)
Room and situation: Andalucia 3, Floor 0 (above Atrio III)  
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: J. Lehmusto.  
Presentation time: 5:10:00 PM  
Abstract ID and Title: 215634, Performance of aluminium and chromium diffusion coatings under molten salt corrosion in CSP plants  
Presenting author: Pauline Audigié  
Authors: Pauline Audigié (National Institute for Aerospace Technology INTA, Torrejón de Ardoz, Spain) / Alina Agüero (National Institute for Aerospace Technology INTA, Torrejón de Ardoz, Spain) / Ceyhun Oskay (DECHEMA Forschungsinstitut, Frankfurt) / Mathias Galetz (DECHEMA Forschungsinstitut, Frankfurt)  

17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral

Room and situation: Andalucia 4, Floor 0 (above Atrio III)  
Session and Chair(s): Polymers and Advanced Materials (WP19)/Chair: J. Heinemann.  
Presentation time: 11:45:00 AM  
Abstract ID and Title: 176760, Compatibility of polymers with heating oil with 20 % biodiesel at different temperatures under static and compressed conditions  
Presenting author: Margit Weltschev  
Authors: Margit Weltschev (BAM - Bundesanstalt für Materialforschung und -prüfung, Berlin) / Sina Poetzsch (BAM, Berlin) / Ralph Baessler (BAM, Berlin)  

Room and situation: Andalucia 4, Floor 0 (above Atrio III)  
Session and Chair(s): Polymers and Advanced Materials (WP19)/Chair: J. Heinemann.  
Presentation time: 12:05:00 PM  
Abstract ID and Title: 212532, Testing and Certification of Pressure Pipes for Alternative Installation Techniques made from PE 100-RC with Enhanced Resistance to Slow Crack Growth  
Presenting author: Jürgen Heinemann  

Room and situation: Andalucia 4, Floor 0 (above Atrio III)  
Session and Chair(s): Polymers and Advanced Materials (WP19)/Chair: J. Heinemann.  
Presentation time: 12:25:00 PM  
Abstract ID and Title: 202401, Liner Materials for Corrosion Challenges  
Presenting author: Achim Litzenburger  
Authors: Achim Litzenburger (Simona AG, Kirn)  

Room and situation: Andalucia 4, Floor 0 (above Atrio III)  
Session and Chair(s): JS: Pitting C. of Copper in Drinking Water Installations (WP20 + CEOCOR)/Chair: .  
Presentation time: 2:00:00 PM  
Abstract ID and Title: 216822, Pitting Corrosion of Copper in Drinking Water Systems: An Update of the current Situation in Germany and an Outlook on further Investigations  
Presenting author: Timo Jentzsch  
Authors: Timo Jentzsch (IWW Water Centre, Mülheim an der Ruhr) / Angelika Becker (IWW Water Centre, Mülheim an der Ruhr) / Ute Ruhrberg (IWW Water Centre, Mülheim an der Ruhr)  

Room and situation: Andalucia 4, Floor 0 (above Atrio III)  
Session and Chair(s): JS: Pitting C. of Copper in Drinking Water Installations (WP20 + CEOCOR)/Chair: .  
Presentation time: 2:40:00 PM  
Abstract ID and Title: 174208, Pitting of Copper Pipes in Domestic Water Systems in the UK  
Presenting author: Phillip Munn  
Authors: Phillip Munn (Midland Corrosion Services Ltd, Darley Dale Derbyshire, United Kingdom)  

Room and situation: Andalucia 4, Floor 0 (above Atrio III)  
Session and Chair(s): JS: Pitting C. of Copper in Drinking Water Installations (WP20 + CEOCOR)/Chair: .  
Presentation time: 3:00:00 PM  
Abstract ID and Title: 189498, Observations of copper pitting corrosion in german tap waters  
Presenting author: Johann-Wilhelm Erning  
Authors: Johann-Wilhelm Erning (Federal Institute for Material Research and Testing, Berlin)  

15:20 - 15:50 - Coffee break
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. & Protection of Drinking Water Systems (WP20)/Chair: .
Presentation time: 3:50:00 PM
Abstract ID and Title: 231507, Analysis of type I pitting corrosion of copper piping by drinking water
Presenting author: Alfonso Cristóbal Carcel
Authors: Alfonso Cristóbal Carcel (Universitat Politècnica de València, Valencia, Spain) / Paloma Arrué (Universitat Politècnica de València, Valencia, Spain) / Bernabé Cárcel (Universitat Politècnica de València, Valencia, Spain) / Antonio Manuel Romero (Universitat Politècnica de València, Valencia, Spain)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. & Protection of Drinking Water Systems (WP20)/Chair: .
Presentation time: 4:10:00 PM
Abstract ID and Title: 230165, Influence of production route and heat treatments on the corrosion of brass products for water applications
Presenting author: Olivier Rod
Authors: Olivier Rod (RISE KIMAB, Kista, Sweden) / Charlotte Obit (RISE KIMAB, Kista, Sweden)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. & Protection of Drinking Water Systems (WP20)/Chair: .
Presentation time: 4:30:00 PM
Abstract ID and Title: 230369, Impact of electrolyte contamination on surface finishing and pitting corrosion of electropolished 304 stainless steel
Presenting author: Pawel Lochynski
Authors: Pawel Lochynski (Wrocław University of Environmental and Life Sciences, Wroclaw, Poland) / Sylwia Charazinska (Wrocław University of Environmental and Life Sciences, Wroclaw, Poland) / Paweł Wiernick (Wrocław University of Environmental and Life Sciences, Wroclaw, Poland) / Paulina Niewczasnka (Wrocław University of Environmental and Life Sciences, Wroclaw, Poland) / Edyta Łyczkowska-Widlak (Wrocław University of Environmental and Life Sciences, Wroclaw, Poland)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 10:15:00 AM
Abstract ID and Title: 230319, Steel properties influence in the durability of reinforced concrete
Presenting author: M. João Correia
Authors: M. João Correia (LNEC - Laboratorio Nacional de Engenharia Civil, Lisbon, Portugal) / Elsa Vaz Pereira (LNEC, Lisbon, Portugal) / Manuela Salta (LNEC, Lisbon, Portugal)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 10:35:00 AM
Abstract ID and Title: 201631, Inhibitors for sulphate-induced corrosion of carbon steel in calcium sulphaolaminate binders
Presenting author: Yegor Morozov
Authors: Yegor Morozov (Instituto Superior Técnico, Universidade de Lisboa, Lisbon, Portugal) / Simone Pellegrini (Security Building Service S.R.L., Via Santi Filippo e Giacomo, Covo (Bergamo), Italy) / Sergio Lorenzi (Department of Engineering, University of Bergamo, Bergamo, Italy) / Fátima Montemor (Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Lisbon, Portugal)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 10:55:00 AM
Abstract ID and Title: 228174, A test method to determine the corrosion resistance of different types of concrete.
Presenting author: Johan Ahlstrom
Authors: Johan Ahlstrom (Rise KIMAB, Kista, Sweden) / Bror Sederholm (Rise KIMAB, Kista, Sweden) / Jan Trägårdh (Rise CBI, Stockholm, Sweden) / Dimitrios Boubitas (Rise CBI, Borås, Sweden) / Laping Tang (Chalmers, Gothenborg, Sweden)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 11:15:00 AM
Abstract ID and Title: 233333, Non-contact corrosion monitoring of steel reinforcement
Presenting author: Simen Kaasa Hellner
Authors: Simen Kaasa Hellner (University of Bergen, Bergen, Norway) / Bodil Holst (University of Bergen, Bergen, Norway) / Eugen Florin Turcu (Norse Research, Bergen, Norway)

17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral
WEDNESDAY, SEPTEMBER 11

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 12:05:00 PM
Abstract ID and Title: 223675, A Bayesian Network for the deduction of corrosion level based on NDT inspection data
Presenting author: Sam Ang KEO
Authors: Sam Ang KEO (LMDC, INSA Toulouse-UPS, France, Toulouse Cedex 4, France) / Thomas DE LARRARD (LMDC, INSA Toulouse-UPS, France, Toulouse Cedex 4, France) / Frédéric DUPRAT (LMDC, INSA Toulouse-UPS, France, Toulouse Cedex 4, France) / Sandrine GEOFFROY (LMDC, INSA Toulouse-UPS, France, Toulouse Cedex 4, France)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 12:25:00 PM
Abstract ID and Title: 230440, Evaluation of online systems for monitoring the degradation of concrete structures in WWTPs, subject to sulfate environments, for inclusion in BIM-Maintenance
Presenting author: Pedro Romano
Authors: Pedro Romano (Instituto Politécnico de Portalegre, Portalegre, Portugal) / Paulo Brito (Instituto Politécnico de Portalegre, Portalegre, Portugal)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 12:45:00 PM
Abstract ID and Title: 192501, A database of critical chloride contents for fundamental understanding of corrosion initiation and service life modelling
Presenting author: Carolina Boschmann Käthler
Authors: Carolina Boschmann Käthler (ETH Zürich, Zurich, Switzerland) / Ueli M. Angst (ETH Zürich, Zurich, Switzerland) / Bernhard Elsener (ETH Zürich, Zurich, Switzerland)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 2:00:00 PM
Abstract ID and Title: 231023, Melting gels as protective coatings of steel rebars in concrete
Presenting author: Mercedes Sánchez-Moreno
Authors: Mercedes Sánchez-Moreno (Universidad de Cordoba, Cordoba, Spain) / Jadr Mosa (Instituto de Cerámica y Vidrio (CSIC), Kelsen 5, 28049 Madrid, Spain , Madrid, Spain) / Mario Aparicio (Instituto de Cerámica y Vidrio (CSIC), Kelsen 5, 28049 Madrid, Spain , Madrid, Spain) / Andrei Jitianu (Department of Chemistry, Lehman College, City University New York, Bronx, New York 10468, US, New York, United States of America) / Lisa Klein (Department of Materials Science and Engineering, Rutgers University 607 Taylor Road, Piscataway, NJ 08854, US, Piscataway, United States of America)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 2:20:00 PM
Abstract ID and Title: 214699, Insights on the use of layered double hydroxides (LDH) to extend the durability of reinforced concrete
Presenting author: Joao Tedim
Authors: Mário Ferreira (University of Aveiro, Aveiro, Portugal) / Celestino Gomes (Universidade de Aveiro, Aveiro, Portugal) / Rui Sampaio (Universidade de Aveiro, Aveiro, Portugal) / Alexandre Bastos (Universidade de Aveiro, Aveiro, Portugal) / Joao Tedim (Universidade de Aveiro, Aveiro, Portugal) / Zhaid Mir (Institute of Materials Research, Helmholtz-Zentrum Geesthacht, Geesthacht) / Mikhail Zheludkevich (Institute of Materials Research, Helmholtz-Zentrum Geesthacht, Geesthacht) / Frederico Maia (Smallmatek, Aveiro, Portugal) / Claudia Rocha (Smallmatek, Aveiro, Portugal)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 2:40:00 PM
Abstract ID and Title: 177079, Investigations of corrosion due to calcium leaching
Presenting author: Yves Schiegg
Authors: Yves Schiegg (TFB AG, Wildegg, Switzerland) / Stefanie Von Greve-dierfeld (TFB AG, Wildegg, Switzerland)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. of Steel in Concrete (WP11)/Chair: Raupach, Bastidas.
Presentation time: 3:00:00 PM
Abstract ID and Title: 237007, Chloride induced corrosion of steel reinforcement in alkali-activated fly ash mortars
Presenting author: Gino Ebell
Authors: Gino Ebell (Bundesanstalt für Material- forschung und -prüfung (BAM), Berlin) / Petr Hlaváček (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Steffi Reinemann (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Gregor J. G. Gluth (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Jürgen Mietz (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion  
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)  
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.  
Presentation time: 12:25:00 PM  
Abstract ID and Title: A comparison of synthesized corrosion inhibitors with commercial oilfield inhibitor in 15% hydrochloric acid solution for N80 tubing steel  
Presenting author: AMBRISH Singh  
Authors: AMBRISH Singh (Southwest Petroleum University, Chengdu, China PR)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)  
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.  
Presentation time: 3:00:00 PM  
Abstract ID and Title: Amorphous Silica: An Idiosyncratic, Water-Born Precipitate/Deposit That Requires Exotic Mitigation Approaches  
Presenting author: Kostas Demadis  
Authors: Kostas Demadis (University of Crete, Heraklion, Greece) / ARGYRO Spinthaki (University of Crete, Heraklion, Greece) / Georgia Skordalou (University of Crete, Heraklion, Greece)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)  
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.  
Presentation time: 3:20:00 PM  
Abstract ID and Title: Zeolite Film for Metal Protection against Acidic and Salt Corrosion  
Presenting author: Tseng-Chang Tsai  
Authors: Tseng-Chang Tsai (University of Kaohsiung, Kaohsiung, Taiwan) / Shang-Tien Tsai (Hawing GemS Technology Corporation, Taichung, Taiwan) / WenChyuan ChangJean (Hawing GemS Technology Corporation, Taichung, Taiwan) / Shang-Bin Liu (Hawing GemS Technology Corporation, Taichung, Taiwan)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)  
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.  
Presentation time: 3:40:00 PM  
Abstract ID and Title: Aluminium Silicate Characterization and its Inhibition by Anionic Macromolecules: Relevance to Geothermal Systems  
Presenting author: ARGYRO Spinthaki  
Authors: ARGYRO Spinthaki (University of Crete, Heraklion Crete, Greece) / Konstantinos Demadis (University of Crete, Heraklion Crete, Greece) / Duygu Disci-Zayed (Kurita Europe GmbH, Dusseldorf) / Jurgen Matheis (Kurita Europe GmbH, Dusseldorf) / Wolfgang Hater (Kurita Europe GmbH, Dusseldorf) / Michaela Kamaratou (University of Crete, Heraklion Crete, Greece)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)  
Session and Chair(s): C. & Scale Inhibition (WP1)/Chair: Schmitt, Hater.  
Presentation time: 4:00:00 PM  
Abstract ID and Title: The assessment of cationic gemini surfactants as corrosion inhibitors for carbon steel in sodium chloride solution  
Presenting author: Olga Kaczerewska  
Authors: Olga Kaczerewska (CICECO-Aveiro Institute of Materials and Department of Materials and Ceramic Engineering, University of Aveiro, Aveiro, Portugal) / Isabel Sousa (CICECO-Aveiro Institute of Materials and Department of Materials and Ceramic Engineering, University of Aveiro, Aveiro, Portugal) / Joao Tedim (CICECO-Aveiro Institute of Materials and Department of Materials and Ceramic Engineering, University of Aveiro, Aveiro, Portugal)
Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): C & Scale Inhibition (WP1)/Chair: Schmitt, Hater.
Presentation time: 4:10:00 PM
Abstract ID and Title: 214985, Study on the corrosion inhibitor and the injected technology at the top of atmospheric tower in a refinery plant
Presenting author: Lei Fan
Authors: Lei Fan (CNPC Tubular Goods Research Institute, Xi’an, China PR)

17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Espallargas, Mazzonello.
Presentation time: 10:15:00 AM
Abstract ID and Title: 202357, Electrochemical and Tribo-electrochemical evaluation of W-doped DLC coatings in glycerol media containing ionic liquid additives
Presenting author: Hamid Khomhohmamadi
Authors: Hamid Khomhohmamadi (Norwegian University of Science and Engineering (NTNU), Trondheim, Norway) / Wahyu Wijanarko (Norwegian University of Science and Technology (NTNU), Trondheim, Norway) / Nuria Espallargas (Norwegian University of Science and Technology (NTNU), Trondheim, Norway) / Jose da Silva (Unesp, Sao Paulo, Brazil) / Carlos Grandini (Unesp, Sao Paulo, Brazil) / Paulo Lisboa-Filho (Unesp, Sao Paulo, Brazil) / Fatih Toptan (Universidade do Minho, Guimaraes, Portugal)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Espallargas, Mazzonello.
Presentation time: 10:35:00 AM
Abstract ID and Title: 228988, Tribocorrosion performance of nitride coatings in artificial seawater: A benchmark against DLC
Presenting author: Manel Rodriguez Ripoll
Authors: Manel Rodriguez Ripoll (AC2T research GmbH, Wiener Neustadt, Austria) / Vladimir Pejakovic (AC2T research GmbH, Wiener Neustadt, Austria) / Bernhard Kohlhauser (Institute of Materials Science and Technology, TU Wien, Vienna, Austria) / Paul H. Mayrhofer (Institute of Materials Science and Technology, TU Wien, Vienna, Austria)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Espallargas, Mazzonello.
Presentation time: 10:55:00 AM
Abstract ID and Title: 206163, TRIBOCORROSION BEHAVIOUR OF A MODIFIED TSA COATING EMPLOYED IN OFFSHORE SUBMERGED COMPONENTS
Presenting author: Ainara Lopez-Ortega
Authors: Ainara Lopez-Ortega (IK4-TEKNIKER, Eibar, Spain) / Gemma Mendoza (IK4-TEKNIKER, Eibar, Spain) / Raquel Bayón (IK4-TEKNIKER, Eibar, Spain)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Espallargas, Mazzonello.
Presentation time: 12:05:00 PM
Abstract ID and Title: 206807, Development of functionalized oxide films on Al-Si alloys by plasma electrolytic oxidation and study of their tribocorrosion behavior
Presenting author: Sofia Alves
Authors: Sofia Alves (IK4-TEKNIKER, Eibar, Spain) / Patricia Fernández (IK4-TEKNIKER, Eibar, Spain) / Ainara López-Ortega (IK4-TEKNIKER, Eibar, Spain) / Gemma Mendoza (IK4-TEKNIKER, Eibar, Spain) / Raquel Bayón (IK4-TEKNIKER, Eibar, Spain)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Espallargas, Mazzonello.
Presentation time: 12:25:00 PM
Abstract ID and Title: 217922, Effect of Electrochemical Reduced Graphene Oxide on the wear corrosion behaviour of CoCr alloy
Presenting author: Belén Chico González
Authors: Belén Chico González (CENIM-CSIC, Madrid, Spain) / Maria Lorena Escudero Rincón (CENIM-CSIC, Madrid, Spain) / Maria Cristina Garcia-Alonso (CENIM-CSIC, Madrid, Spain)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Espallargas, Mazzonello.
Presentation time: 12:45:00 PM
Abstract ID and Title: 186143, Corrosion and tribocorrosion behavior of TiN coating film on Ti-Nb alloys for biomedical implant applications
Presenting author: Ihsan Caha
Authors: Ihsan Caha (Universidade do Minho, Guimarães, Portugal) / Alexandra Alves (Universidade do Minho, Guimarães, Portugal) / Lucas Afonso (UNESP, Sao paulo, Brazil) / Paulo Lisboa-Filho (UNESP, Sao paulo, Brazil) / Jose da Silva (UNESP, Sao paulo, Brazil) / Luis Rocha (UNESP, Sao paulo, Brazil) / Ana Pinto (Universidade do Minho, Guimarães, Portugal) / Fatih Toptan (Universidade do Minho, Guimarães, Portugal)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

13:05 - 14:00 Lunchtime

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Ripoll, Mischler.
Presentation time: 2:00:00 PM
Abstract ID and Title: 217702, The effect of binder content on tribocorrosion of hardmetals exposed to an acidic environment
Presenting author: Josias Van Der Merwe
Authors: Josias Van Der Merwe (University of the Witwatersrand, Johannesburg, South Africa) / Ndiluwo Nelwalani (University of the Witwatersrand, Johannesburg, South Africa)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Ripoll, Mischler.
Presentation time: 2:20:00 PM
Abstract ID and Title: 225578, Three-body Tribocorrosion Behaviour of Additively Manufactured 316L Stainless Steel
Presenting author: Mobin Salasi
Authors: Mobin Salasi (Curtin Corrosion Centre and School of Civil & Mechanical Engineering, Curtin University, Perth Australia, Perth, Australia) / John Sanders (Curtin Corrosion Centre and School of Civil & Mechanical Engineering, Curtin University, Perth Australia, Perth, Australia) / Thuy-naluk Pojtanabuntoeng (Curtin Corrosion Centre, Curtin University, Perth, Australia, Perth, Australia) / William Rickard (John de Laeter Centre, Curtin University, Perth, Australia, Perth, Australia) / Zakaria Quadir (John de Laeter Centre, Curtin University, Perth, Australia, Perth, Australia)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Tribocorrosion (WP18)/Chair: Ripoll, Mischler.
Presentation time: 3:00:00 PM
Abstract ID and Title: 200718, Tribo-electrochemical behaviour of surface-modified metallic biomaterials by plasma-assisted ion implantation
Presenting author: Amadeu Concustell Fargas
Authors: Amadeu Concustell Fargas (Eurecat, Centre Tecnològic de Catalunya, Manresa, Spain) / Silvia Molas (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Jaume Caro (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Montserrat Vilaseca (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Giselle Ramirez (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Raul Bonet (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Jordi Orrit (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Josep Maria Bassas (Universitat de Barcelona, Barcelona, Spain) / Daniel Casellas (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: K. Wolski, H. Sarmiento-Klapper.
Presentation time: 3:50:00 PM
Abstract ID and Title: 208099, Toward Understanding the Effect of Hydrogen in Duplex Stainless Steel Microstructure
Presenting author: Cem Örnek
Authors: Cem Örnek (KTH Royal Institute of Technology, Stockholm, Sweden) / Ulf Kiwisäkk (Sandvik Materials Technology, Sandviken, Sweden) / Jinshan Pan (KTH Royal Institute of Technology, Stockholm, Sweden)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: K. Wolski, H. Sarmiento-Klapper.
Presentation time: 4:10:00 PM
Abstract ID and Title: 209287, Multi-scale study of the hydrogen embrittlement susceptibility of nickel-based superalloys
Presenting author: Xu Lu
Authors: Xu Lu (NTNU University, Trondheim, Norway) / Dong Wang (NTNU University, Trondheim, Norway) / Afroz Barnoush (NTNU University, Trondheim, Norway)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: K. Wolski, H. Sarmiento-Klapper.
Presentation time: 4:30:00 PM
Abstract ID and Title: 233135, Studying the impacts of hydrogen on the properties of passive layer and local mechanical properties
Presenting author: Mohammad Zamanzade
Authors: Mohammad Zamanzade (Mines Saint-Etienne, Univ Lyon, CNRS, UMR 5307LGF, Centre SMS, Saint-Etienne, France) / Christian Müller (Department of Materials Science, Saarland University, Bldg. D2.2, Saarbrücken) / Christian Motz (Department of Materials Science, Saarland University, Bldg. D2.2, Saarbrücken) / Frederic Christien (Mines Saint-Etienne, Univ Lyon, CNRS, UMR 5307LGF, Centre SMS, Saint-Etienne, France)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session: WP5 meeting
Presentation time: 4:50:00 PM
17:30 - 18:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: T. Prosek, F. Legendre.
Presentation time: 2:00:00 PM
Abstract ID and Title: 216283, Multiscale analyses of carbon steel corrosion in cement grout for radioactive waste disposal

Presenting author: Charlotte Carré
Authors: Charlotte Carré (CEA Saclay - LAPA, NIMBE, Gif sur Yvette, France) / Philippe Dillman (CEA Saclay - LAPA, NIMBE, Gif sur Yvette, France) / Delphine Neff (CEA Saclay - LAPA, NIMBE, Gif sur Yvette, France) / Valérie Deydier (Andra, Châtenay-Malabry, France) / Yannick Linard (Andra - Meuse/Haute Marne Center, Bure, France) / Sophia Necib (Andra - Meuse/Haute Marne Center, Bure, France) / Michel Schlegel (CEA Saclay - Den - SEARS, Gif sur Yvette, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: T. Prosek, F. Legendre.
Presentation time: 2:20:00 PM
Abstract ID and Title: 191027, Optimization of ZrO2 coating deposited on carbon steel by Physical vapor Deposition (PVD) for protection in mildly saline environments.

Presenting author: Michel Schlegel
Authors: Angélique Chaibaron (DEN, Service d’Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, Gif-sur-Yvette, France) / Michaël Ougier (DEN, Service d’Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, Gif-sur-Yvette, France) / Alexandre Michau (DEN, Service d’Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, Gif-sur-Yvette, France) / Jérôme Varlet (DEN, Service d’Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, Gif-sur-Yvette, France) / Michel Schlegel (DEN, Service d’Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, Gif sur Yvette, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: T. Prosek, F. Legendre.
Presentation time: 2:40:00 PM
Abstract ID and Title: 209067, Corrosion kinetics of an API SL X65 in contact with cement/bentonite at 40°C

Presenting author: Mathieu ROBINEAU
Authors: Sophia Necib (ANDRA, Bure, France) / Mathieu ROBINEAU (LaSIE, La Rochelle, France) / Christian BATAILLON (CEA, Gif sur Yvette, France) / Yannick LINARD (Andra, Bure, France) / Valérie Deydier (Andra, Châtenay-Malabry, France) / Didier Crusset (Andra, Châtenay-Malabry, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: T. Prosek, F. Legendre.
Presentation time: 3:00:00 PM
Abstract ID and Title: 183272, Corrosion of ductile iron under saline and elevated temperature conditions.

Presenting author: Nikoleta Vozarova

15:20 - 15:50 - Coffee break

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: R. Rebak, S. Gossé.
Presentation time: 3:50:00 PM
Abstract ID and Title: 218241, Development of an innovative corrosion monitoring methodology for the French radioactive waste disposal application

Presenting author: Gouenou Girardin
Authors: José Bolivar (CETIM, NANTES, France) / Sophia Necib (ANDRA, Bure, France) / Chloé Comas (INSA de Lyon, Lyon, France) / Marion Forgione (INSA de Lyon, Lyon, France) / Thomas Monnier (INSA de Lyon, Lyon, France) / Nicolas Bulidon (Institut de la Corrosion, Fraisses, France) / Maxime Valay (Origalys, Rillieux-La-Pape, France) / Abdelkrim Saidoun (CETIM, Senlis, France) / Gouenou Girardin (CETIM, NANTES, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: R. Rebak, S. Gossé.
Presentation time: 4:10:00 PM
Abstract ID and Title: 183536, Corrosion behaviour of aluminum alloy 5754 in cement-based matrix simulating nuclear waste disposal conditions

Presenting author: Christophe Mendibide
Authors: Christophe Mendibide (Institut de la corrosion, fraisses, France) / Valerie Deydier (ANDRA, Châtenay-Malabry, France) / Xavier Bourbon (ANDRA, Châtenay-Malabry, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: R. Rebak, S. Gossé.
Presentation time: 4:30:00 PM
Abstract ID and Title: 182491, Chloride-Induced Stress Corrosion Cracking of Austenitic Stainless Steels Used in Dry Cask Storage Systems in A Simulated Marine Environment

Presenting author: Ya-yun Cheng
Authors: Ya-yun Cheng (National Tsing Hua University, Hsinchu, Taiwan) / Yu-hsuan Li (Institute of Nuclear Engineering and Science, National Tsing-Hua University, Hsinchu City, Taiwan) / Mei-ya Wang (Nuclear Science and Technology Development Center, National Tsing-Hua University, Hsinchu City, Taiwan) / Tsung-kuang Yeh (Dept. of Engineering and System Science, National Tsing Hua University, Hsinchu City, Taiwan)
Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: R. Rebak, S. Gossé.
Presentation time: 4:50:00 PM
Abstract ID and Title: 207912, Alpha radiolysis impact on magnesium alloy corrosion in model alkaline solutions
Presenting author: Benoist Meuzue
Authors: Benoist Meuzue (Den-Service d'Etude du Comportement des Radionucléides (SECUR), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Eric Smuckler (Den-Service de Corrosion et détu de Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Aurélien Canizarès (CEMHTI - UPR3079 CNRS, 1D avenue de la Recherche Scientifique, F-45071 Orléans Cedex 2, Orléans, France) / Patrick Simon (CEMHTI - UPR3079 CNRS, 1D avenue de la Recherche Scientifique, F-45071 Orléans Cedex 2, Orléans, France) / Thierry Sauvage (CEMHTI - UPR3079 CNRS, 1D avenue de la Recherche Scientifique, F-45071 Orléans Cedex 2, Orléans, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: R. Rebak, S. Gossé.
Presentation time: 5:10:00 PM
Abstract ID and Title: 205470, Conditioning of Mg-Zr alloy: corrosion in Na-geopolymer and its synthetic pore solution
Presenting author: Eric Schmucker
Authors: Eric Schmucker (Den-Service de Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, France) / Christian Bataillon (Den-Service de Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, France) / Christain Bataillon (Den-Service de Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, France) / Thierry Sauvage (CEMHTI - UPR3079 CNRS, 1D avenue de la Recherche Scientifique, F-45071 Orléans Cedex 2, Orléans, France)

17:30 - 19:00 Poster Party / Poster Discussion

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Swiatowska.
Presentation time: 10:15:00 AM
Abstract ID and Title: 191093, Effect of brazing on the microstructure and corrosion behaviour of a twin roll cast Al-Mn-Fe-Si alloy system
Presenting author: Donovan Verkens
Authors: Donovan Verkens (Vrije Universiteit Brussel (VUB), Brussels, Belgium) / Reynier Revilla (Vrije Universiteit Brussel (VUB), Brussels, Belgium) / Ali Kosari (Technische Universität Delft (TU Delft), Delft, Netherlands) / Mert Günyüz (Assan Alüminyum A.Ş., İstanbul, Turkey) / Cemil Işiksaçan (Assan Alüminyum A.Ş., İstanbul, Turkey) / Arjan Mol (Technische Universität Delft (TU Delft), Delft, Netherlands) / Iris De Graeve (Vrije Universiteit Brussel (VUB), Brussels, Belgium) / Herman Terryn (Vrije Universiteit Brussel (VUB), Brussels, Belgium)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Swiatowska.
Presentation time: 10:35:00 AM
Abstract ID and Title: 196043, Corrosion Properties of Recycled Al-Mg-Si alloys
Presenting author: Alexander Lutz
Authors: Alexander Lutz (Vrije Universiteit Brussel, Brussels, Belgium) / Iris De Graeve (Vrije Universiteit Brussel, Brussels, Belgium)

11:15 - 11:45 Coffee break

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Milosev, Kokali.
Presentation time: 11:45:00 AM
Abstract ID and Title: 215392, Corrosion inhibitors for aluminium investigated using integrative experimental-modeling approach: Fabrication and electrochemical study
Presenting author: Ingrid Milosev
Authors: Ingrid Milosev (Jožef Stefan Institute, Ljubljana, Slovenia) / Dolores Zimerl (Jožef Stefan Institute, Ljubljana, Slovenia) / Balint Menczing (Eotvos Loránd University, Budapest, Hungary) / Aniko Nemes (Eotvos Loránd University, Budapest, Hungary) / Joszef Rabai (Eotvos Loránd University, Budapest, Hungary) / Antun Kokalj (Jožef Stefan Institute, Ljubljana, Slovenia) / Philip Marcus (CNRS, Chimie ParisTech, PSL University, Paris, France)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Milosev, Kokali.
Presentation time: 12:05:00 PM
Abstract ID and Title: 209177, Corrosion inhibitors for aluminium investigated using integrative experimental-modeling approach: Surface analytical study.
Presenting author: Philippe Marcus
Authors: Philippe Marcus (École Nationale Supérieure de Chimie de Paris, Paris Cedex 05, France) / Charly Carrière (CNRS, Paris, France) / Sandrine Zanna (CNRS, Paris, France) / Antoine Seyeux (CNRS, Paris, France) / Dolores Zimerl (Jožef Stefan Institute, Ljubljana, Slovenia) / Aniko Nemes (Eotvos Loránd University, Budapest, Hungary) / Joszef Rabai (Eotvos Loránd University, Budapest, Hungary) / Antun Kokalj (Jožef Stefan Institute, Ljubljana, Slovenia) / Ingrid Milosev (Jožef Stefan Institute, Ljubljana, Slovenia)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Milosev, Kokalj.
Presentation time: 12:25:00 PM
Abstract ID and Title: 218109, Corrosion inhibitors for aluminium investigated using integrative experimental-modeling approach: A DFT modeling study
Presenting author: Matic Poberžnik
Authors: Matic Poberžnik (Department of Physical and Organic Chemistry, Jožef Stefan Institute, 1000 Ljubljana, Slovenia) / Fatah Chiter (Chimie ParisTech, PSL University, CNRS, Institut de Recherche de Chimie Paris, Equipe Physico-Chimie des Surfaces, Paris, France) / Dominique Costa (Chimie ParisTech, PSL University, CNRS, Institut de Recherche de Chimie Paris, Equipe Physico-Chimie des Surfaces, 75005 Paris, France) / Philippe Marcus (Chimie ParisTech, PSL University, CNRS, Institut de Recherche de Chimie Paris, Equipe Physico-Chimie des Surfaces, 75005 Paris, France) / Ingrid Milošev (Department of Physical and Organic Chemistry, Jožef Stefan Institute, Ljubljana, Slovenia) / Anton Kokalj (Department of Physical and Organic Chemistry, Jožef Stefan Institute, Ljubljana, Slovenia)

13:05 - 14:00 Lunchtime

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Milosev, Kokalj.
Presentation time: 2:00:00 PM
Abstract ID and Title: 220518, How silanol headgroups bond to oxidized aluminum surfaces: A DFT modeling study
Presenting author: Anton Kokalj
Authors: Dževad K. Kozlica (Jozef Stefan Institute, Ljubljana, Slovenia) / Anton Kokalj (Jozef Stefan Institute, Ljubljana, Slovenia) / Ingrid Milošev (JSI, Ljubljana, Slovenia) / Philippe Marcus (Chimie ParisTech, PSL University, CNRS, Institut de Recherche de Chimie Paris, Equipe Physico-Chimie des Surfaces, Paris, France) / Matic Poberžnik (JSI, Ljubljana, Slovenia) / Dominique Costa (CNRS, Paris, France) / Fatah Chiter (Jozef Stefan Institute, Ljubljana, Slovenia) / Anton Kokalj (Jozef Stefan Institute, Ljubljana, Slovenia) / Ingrid Milošev (JSI, Ljubljana, Slovenia) / Philippe Marcus (CNRS, Paris, France)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Milosev, Kokalj.
Presentation time: 2:40:00 PM
Abstract ID and Title: 209650, Inhibitors for copper in chloride solution with different functional and side groups studied by electrochemical methods and XPS
Presenting author: Ingrid Milošev
Authors: Ingrid Milosev (Jozef Stefan Institute, Ljubljana, Slovenia) / Barbara Kapun (Jozef Stefan Institute, Ljubljana, Slovenia) / Peyman Taheri (Delft University of Technology, Delft, Netherlands) / Anton Kokalj (Jozef Stefan Institute, Ljubljana, Slovenia) / J.M.C. Mol (Delft University of Technology, Delft, Netherlands)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling/Chair: Milosev, Kokalj.
Presentation time: 3:00:00 PM
Abstract ID and Title: 220694, An integrative modeling and experimental approach toward corrosion inhibition: heterocyclic organic molecules as potential corrosion inhibitors for Cu and Zn
Presenting author: Anton Kokalj
Authors: Anton Kokalj (Department of Physical and Organic Chemistry, Jožef Stefan Institute, 1000 Ljubljana, Slovenia) / Matic Lozinšek (Department of Physical and Organic Chemistry, Jožef Stefan Institute, 1000 Ljubljana, Slovenia) / Barbara Kapun (Department of Physical and Organic Chemistry, Jožef Stefan Institute, 1000 Ljubljana, Slovenia) / Urša Tiringer (Department of Physical and Organic Chemistry, Jožef Stefan Institute, 1000 Ljubljana, Slovenia) / Damir Hamulič (Department of Physical and Organic Chemistry, Jožef Stefan Institute, 1000 Ljubljana, Slovenia) / Peyman Taheri (Department of Materials Science and Engineering, Delft University of Technology, 2628 CD Delft, Netherlands) / Shova Neupane (Instituto de Materiales de Construcción, Universidad de Huelva, Spain) / Ante Mršić (University of Zagreb, Faculty of Chemical Engineering and Technology, Zagreb, Croatia) / Dominique Costa (CNRS, Paris, France) / Philippe Marcus (Chimie ParisTech, PSL University, CNRS, Institut de Recherche de Chimie Paris, Equipe Physico-Chimie des Surfaces, 75005 Paris, France) / Fatah Chiter (Jozef Stefan Institute, Ljubljana, Slovenia) / Anton Kokalj (Jozef Stefan Institute, Ljubljana, Slovenia) / Ingrid Milošev (JSI, Ljubljana, Slovenia) / Philippe Marcus (CNRS, Paris, France) / Dominique Costa (CNRS, Paris, France)
Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Milosev, Kokalj.
Presentation time: 3:50:00 PM
Abstract ID and Title: 177849, Inhibition properties of imidazole-based compounds on brass
Presenting author: Peyman Taheri
Authors: Peyman Taheri (Delft University of Technology, Delft, Netherlands) / Ch Xie (Universitat Politècnica de Catalunya, Barcelona, Spain) / D. Cresp (Universitat Politècnica de Catalunya, Barcelona, Spain) / I. Milošev (Jožef Stefan Institute, Ljubljana, Slovenia) / A. Kokalj (Jožef Stefan Institute, Ljubljana, Slovenia) / JMC Mol (Delft University of Technology, Delft, Netherlands)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Milosev, Kokalj.
Presentation time: 4:10:00 PM
Abstract ID and Title: 200663, Inhibition of copper corrosion by mercapto-benzimidazole derivates on the molecular scale
Presenting author: Frank Uwe Renner
Authors: Shova Neupane (Hasselt University, Diepenbeek, Belgium) / Patricia Losada-Pérez (Université Libre de Bruxelles, Brussels, Belgium) / Anton Kokalj (Jožef Stefan Institute, Ljubljana, Slovenia) / Frank Uwe Renner (Hasselt University, Diepenbeek, Belgium)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Milosev, Kokalj.
Presentation time: 4:30:00 PM
Abstract ID and Title: 207593, Inhibition properties of benzimidazole-based compounds on crystalline and amorphous CuZr alloys
Presenting author: Chenyang Xie
Authors: Chenyang Xie (Universitat Politècnica de Catalunya, Barcelona, Spain) / Pere Bruna (Universitat Politècnica de Catalunya, Barcelona, Spain) / Frank U. Renner (University of Hasselt, Hasselt, Belgium) / Ingrid Milosev (Jožef Stefan Institute, Ljubljana, Slovenia) / Anton Kokalj (Jožef Stefan Institute, Ljubljana, Slovenia) / Daniel Crespo (Universitat Politècnica de Catalunya, Barcelona, Spain)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Milosev, Kokalj.
Presentation time: 4:50:00 PM
Abstract ID and Title: 215755, Spectroscopic Characterisation of Inhibited Interfaces
Presenting author: Robert Lindsay
Authors: Robert Lindsay (University of Manchester, Manchester, United Kingdom) / Kiran Kousar (University of Manchester, Manchester, United Kingdom) / Michael Dowhyj (University of Manchester, Manchester, United Kingdom) / Monika Walczak (University of Manchester, Manchester, United Kingdom)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Milosev, Kokalj.
Presentation time: 5:10:00 PM
Abstract ID and Title: 210464, Contributions of scanning electrochemical microscopy to the characterization of a metal-inhibitor system
Presenting author: Ricardo M. Souto
Authors: Ricardo M. Souto (Universidad de La Laguna, Tenerife, La Laguna, Spain) / Javier Izquierdo (University of La Laguna, La Laguna, Spain) / Juan J. Santana (University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain)

17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Hannour.
Presentation time: 10:15:00 AM
Abstract ID and Title: 231342, Simulation of galvanic effects in automotive structures
Presenting author: Tim Froome
Authors: Tim Froome (CM BEASY, Ashurst, United Kingdom) / Andres Peratta (CM BEASY, Ashurst, United Kingdom) / John Baynham (CM BEASY, Ashurst, United Kingdom)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Hannour.
Presentation time: 10:35:00 AM
Abstract ID and Title: 188475, Atmospheric corrosion of a new martensitic stainless steel for automotive applications - Study of the galvanic coupling
Presenting author: Clément Boissy
Authors: Clément Boissy (Aperam, Isbergues, France) / Sagli Saedlou (Aperam, Isbergues, France) / Jesse Paegle (Aperam, Saint-Denis, France)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Hannour.
Presentation time: 10:55:00 AM
Abstract ID and Title: 186517, Evaluation of the galvanic pair 7075-T6 Al alloy/dual-phase steel for automotive purposes
Presenting author: Vianey Torres
Authors: Vianey Torres (Universidad Nacional Autónoma de México, 04510, Mexico) / Juan Genescá (Universidad Nacional Autónoma de México, Mexico City, Mexico) / Francisco J. Rodríguez (Universidad Nacional Autónoma de México, Mexico City, Mexico)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion September 9-13, 2019 Seville, Spain

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Hannour.
Presentation time: 11:45:00 AM
Abstract ID and Title: 174186, The Influence of Scribing and Evaluation on the Repeatability and Reproducibility of the new Standardized Corrosion Test E DIN 55635 (Statistical Analysis of an Interlaboratory Study)
Presenting author: Josef Hagler
Authors: Heike Rudolph (Daimler AG, Sindelfingen) / Josef Hagler (voestalpine Stahl GmbH, Linz, Austria)

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Hannour.
Presentation time: 12:05:00 PM
Abstract ID and Title: 223873, Hydrogen detection in high strength dual phase steel using scanning Kelvin probe technique coupled with XPS analyses of the surface oxide film
Presenting author: Flavien Vucko
Authors: Flavien Vucko (Institut de la Corrosion, Brest, France) / Shini Ootsuka (JFE Steel Corporation, Kawasaki, Japan) / Erwan Diler (Institut de la Corrosion, Brest, France) / Andrej Nazarov (Institut de la Corrosion, Brest, France) / Stéphane Rioual (Univ Brest, Lab-STICC, CNRS, UMR 6285, Brest, France) / Dominique Thierry (Institut de la Corrosion, Brest, France)

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Hannour.
Presentation time: 12:25:00 PM
Abstract ID and Title: 179906, Acceleration corrosion test results of Al and Zn coated steel after hot press forming heat treatment
Presenting author: Yonkyun Song
Authors: Yonkyun Song (POSCO, Gwang Yang, Korea, South) / Yunha Yoo (POSCO, Incheon, Korea, South)

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Hannour.
Presentation time: 12:45:00 PM
Abstract ID and Title: 190829, Investigation of electrochemical behaviour of 22MnB5 steel coated with hot-dip Al-Si before and after hot stamping process by means of SKPFM measurements
Presenting author: Camila Pucci Couto
Authors: Camila Pucci Couto (IPEN - Nuclear and Energy Research Institute, São Paulo, Brazil) / Reynier Revilla (VUB - Vrije Universiteit Brussel, Brussels, Belgium) / Herman Teyrin (VUB - Vrije Universiteit Brussel, Brussels, Belgium) / Iris De Graeve (VUB - Vrije Universiteit Brussel, Brussels, Belgium) / Isolda Costa (IPEN - Nuclear and Energy Research Institute, Sao Paulo, Brazil) / Zehbour Panossian (IPT - Institute for Technological Research, Sao Paulo, Brazil) / Juselaldo Rossi (IPEN - Nuclear and Energy Research Institute, Sao Paulo, Brazil)

13:05 - 14:00 Lunchtime

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.
Presentation time: 2:00:00 PM
Abstract ID and Title: 204755, Mechanistic Study of Model Zr-Based Pre-Treatment for 6111 Aluminium Alloys
Presenting author: Niamh Hosking
Authors: Niamh Hosking (Ford Motor Company, Dearborn, United States of America) / Steven Simko (Ford Motor Company, Dearborn, United States of America) / Daniel Freiberg (Ford Motor Company, Dearborn, United States of America) / Mary Lyn Lim (PPG Coatings and Innovation Center, Allison Park, United States of America) / Brian Okerberg (PPG Coatings and Innovation Center, Allison Park, United States of America) / Reza Rock (PPG Coatings and Innovation Center, Allison Park, United States of America) / Mark Nichols (Ford Motor Company, Dearborn, United States of America)

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.
Presentation time: 2:20:00 PM
Abstract ID and Title: 178960, Influence of Processing Parameters on the IGC Susceptibility of Al-Mg-Si-Cu Alloys
Presenting author: Roland Müller-jena
Authors: Roland Müller-jena (RWTH Aachen University, Chair of Corrosion and Corrosion Protection, Aachen) / Joachim Becker (Otto Fuchs KG, Meinerzhagen) / Tobias Beyer (TRIMET Aluminium SE , Essen) / Thomas Hentschel (Hydro Aluminium Rolled Products GmbH, Bonn) / Robert Krakow (Otto Fuchs KG, Meinerzhagen) / Marcel Rosefort (TRIMET Aluminium SE , Essen) / Daniela Zander (RWTH Aachen University, Chair of Corrosion and Corrosion Protection, Aachen)

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.
Presentation time: 2:40:00 PM
Abstract ID and Title: 223114, Time-resolved model experiments using atmospheric corrosion sensors in programmable corrosion chambers
Presenting author: Bo Rendahl
Authors: Bo Rendahl (Rise KIMAB, Kista, Sweden) / Mats Ström (Volvo Car Group, Gothenburg, Sweden)

Room and situation: Giraldla, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.
Presentation time: 3:00:00 PM
Abstract ID and Title: 226139, Corrosion Monitoring of High Strength Steel with Electrical Resistance Sensors
Presenting author: Andrej Kranc
Authors: Andrej Kranc (Slovenian National Building And Civil Engineering Institute, Ljubljana, Slovenia) / Tadeja Kosec (Slovenian National Building And Civil Engineering Institute, Ljubljana, Slovenia) / Viljem Kuhar (Slovenian National Building And Civil Engineering Institute, Ljubljana, Slovenia) / Branko Belingar (DMS Data merilni sistemi, d.o.o., Golišnik, Slovenia) / Vili Malnarič (TPV d.o.o., Novo Mesto, Slovenia) / Andraž Legat (Slovenian National Building And Civil Engineering Institute, Ljubljana, Slovenia)
201336, Assessment of the flow induced corrosion behaviour in generic pipe conduits used in modern engine cooling systems

Presenting author: Daniel Hornauer

Authors: Daniel Hornauer (Faurecia Emissions Control Technologies, Augsburg, Bay) / Muhammad Yasir (Faurecia Emissions Control Technologies, Augsburg) / Simon Burger (Faurecia Emissions Control Technologies, Augsburg)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.

Presentation time: 3:50:00 PM

Abstract ID and Title: 217581, Intergranular corrosion behaviour of different stainless steels in automotive exhaust systems

Presenting author: Zdenek Bartak

Authors: Zdenek Bartak (SVUOM Ltd., Praha, Czech Republic) / Jan Stoulil (University of Chemistry and Technology, Prague, Czech Republic) / Jiri Dominique Thierry (Institut de la Corrosion Technopole de Brest Iroise, Brest, France) / Dan Persson (Rise KIMAB, Stockholm, Sweden)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.

Presentation time: 4:00:00 PM

Abstract ID and Title: 181259, Urea related Corrosion Phenomena of Stainless Steels in Automotive Applications

Presenting author: Tassilo Arndt

Authors: Tassilo Arndt (Augsburg University of Applied Sciences, Augsburg, Bay) / Helmut Wieser (Augsburg University of Applied Sciences, Augsburg) / Simon Burger (Faurecia Emissions Control Technologies, Augsburg)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.

Presentation time: 4:30:00 PM

Abstract ID and Title: 203336, Assessment of the flow induced corrosion behaviour in generic pipe conduits used in modern engine cooling systems

Presenting author: Artur Klink

Authors: Artur Klink (Technische Universität Darmstadt, Center for Structural Materials (MPA-IfW), Darmstadt) / Rüdiger Reitz (Technische Universität Darmstadt, Center for Structural Materials (MPA-IfW), Darmstadt) / Tom Engler (Technische Universität Darmstadt, Center for Structural Materials (MPA-IfW), Deutschland) / Matthias Oechsner (Technische Universität Darmstadt, Center for Structural Materials (MPA-IfW), Darmstadt)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.

Presentation time: 4:50:00 PM

Abstract ID and Title: 197319, Galvanic corrosion behavior at crevice between Al and Zn in Cl- environment

Presenting author: Takahiro Momii

Authors: Takahiro Momii (UACJ Corporation, Nagoya, Japan) / Takatoshi Shimada (UACJ North America, Inc., Ludington, MI, United States of America) / Yoshiyuki Oya (UACJ Corporation, Nagoya, Japan) / Yoichi Kojima (UACJ Corporation, Nagoya, Japan)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.

Presentation time: 5:10:00 PM

Abstract ID and Title: 204711, Selection of corrosion inhibitors for a hot-dip galvanised steel/mild steel galvanic couple exposed to NaCl solution

Presenting author: Leonardo Bertolucci Coelho

Authors: Leonardo Bertolucci Coelho (Materials Science Department, Faculty of Engineering, University of Mons, 20 Place du Parc, Mons, Belgium) / Enrico B. Fava (Science and Engineering Graduate Program, Federal University of Santa Catarina, P.O. Box 476, Florianópolis, Brazil) / Marie-Georges Olivier (Materials Science Department, Faculty of Engineering, University of Mons, 20 Place du Parc, Mons, Belgium)

17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Leygraf.

Presentation time: 10:15:00 AM

Abstract ID and Title: 224280, A comprehensive approach to the atmospheric corrosion of zinc and zinc (alloy) coated steel based on the surface chemistry in non-equilibrium gradient conditions

Presenting author: Mats Ström

Authors: Mats Ström (Volvo Car Group, Göteborg, Sweden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Leygraf.

Presentation time: 10:35:00 AM

Abstract ID and Title: 179708, Long-term Atmospheric Corrosion of Hot-Dip Galvanized Steel and Zn-Al Coated Steel

Presenting author: Dominique Thierry

Authors: Dominique Thierry (Institut de la Corrosion Technopole de Brest Iroise, Brest, France) / Dan Persson (Rise KIMAB, Stockholm, Sweden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Leygraf.

Presentation time: 10:55:00 AM

Abstract ID and Title: 210090, Conductivity of Zn-Al-Mg Corrosion Products

Presenting author: Zdenek Bartak

Authors: Zdenek Bartak (SVUOM Ltd., Praha, Czech Republic) / Jan Stoulil (University of Chemistry and Technology, Prague, Czech Republic) / Jiri Oswald (Institute of Physics, Czech Academy of Science, Prague, Czech Republic)

11:15 - 11:45 Coffee break
Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Thierry.
Presentation time: 11:45:00 AM
Abstract ID and Title: 199365, Galvanized Steel Protective System Assessing: Comparison of Neutral Salt Spray Test and Customized Accelerated Ageing Atmospheric Test
Presenting author: Sophie Bosonnet
Authors: Sophie Bosonnet (CEA/SACLAY, Gif-sur-Yvette, France) / Kevin GINESTAR (CEA Saclay, Gif sur Yvette, France) / Lucile BRUN (CORRODYS, CHERBOURG-OCTEVILLE, France) / Stephane HEURTAULT (RTE FRANCE, Courbevoie, France)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Thierry.
Presentation time: 12:00:00 PM
Abstract ID and Title: 223213, Inclusion of cut edges and bending in technical life time assessment of inorganic coatings on carbon steel sheet
Presenting author: Johan B Lindén
Authors: Johan B Lindén (RISE Research Institutes of Sweden, Borås, Sweden) / Lena Lindman (RISE Research Institutes of Sweden, Borås, Sweden) / Konrad Tarka (RISE Research Institutes of Sweden, Borås, Sweden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Thierry.
Presentation time: 12:25:00 PM
Abstract ID and Title: 182436, FT-IR spectroscopy of corrosion products formed on titanium-zinc under atmospheric conditions
Presenting author: Ulrike Langklotz
Authors: Ulrike Langklotz (TU Dresden, Dresden) / Martin Babutzka (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Andreas Burkert (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Michael Schneider (Fraunhofer Institute for Ceramic Technologies and Systems, Dresden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Thierry.
Presentation time: 12:45:00 PM
Abstract ID and Title: 229681, A scanning Kelvin probe investigation of the factors influencing secondary cathodic spreading of chloride-containing water droplets on metallic surfaces
Presenting author: Geraint Williams
Authors: Geraint Williams (Swansea University, Swansea, United Kingdom) / Alex Nielsen (Swansea University, Swansea, United Kingdom) / Rebecca Waldram (Swansea University, Swansea, United Kingdom) / Nathan Cooze (Swansea University, Swansea, United Kingdom) / Neil McMurray (Swansea University, Swansea, United Kingdom)

13:05 - 14:00 Lunchtime

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Williams.
Presentation time: 2:00:00 PM
Abstract ID and Title: 176089, A Systematic Exploration of Copper Patina Colour
Presenting author: Christofer Leygraf
Authors: Christofer Leygraf (KTH - Royal Institute of Technology, Stockholm, Sweden) / Gunilla Herting (KTH Roya Institute of Technology, Stockholm, Sweden) / Tingru Chang (KTH Royal Institute of Technology, Stockholm, Sweden) / Inger Odnevall Wallinder (KTH Royal Institute of Technology, Stockholm, Sweden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Williams.
Presentation time: 2:20:00 PM
Abstract ID and Title: 177101, Atmospheric corrosion behavior of copper exposed to various simulated atmospheres
Presenting author: Chen Pan
Authors: Chen Pan (Institute of Metal Research,, Shenyang, China PR)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Williams.
Presentation time: 2:40:00 PM
Abstract ID and Title: 182975, A mechanistic study of the role of Sn on atmospheric corrosion of Sn-bronze at chloride-rich conditions
Presenting author: Tingru Chang
Authors: Tingru Chang (KTH Royal Institute of Technology, Stockholm, Sweden) / Christofer Leygraf (KTH Royal Institute of Technology, Stockholm, Sweden) / Inger Odnevall Wallinder (KTH Royal Institute of Technology, Stockholm, Sweden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Williams.
Presentation time: 3:00:00 PM
Abstract ID and Title: 203138, On the Corrosion Mechanism of Aluminium Alloy 6063-T5 with Exposure to Marine Deposits Containing FeCl3 Corrosion Product Simulants
Presenting author: Sultan Mahmood
Authors: Sultan Mahmood (University Of Manchester, Manchester, United Kingdom) / Dirk Engelberg (University of Manchester, Manchester, United Kingdom)

15:20 - 15:50 - Coffee break
**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Allely.

**Presentation time:** 4:30:00 PM

**Abstract ID and Title:** 173526, Experience of duplex stainless steels as structural materials for bridges: Results of seven inspections in European environment

**Presenting author:** Sukanya Hägg Mameng

**Authors:** Sukanya Hägg Mameng (Outokumpu Stainless AB, Avesta, Sweden) / Andrew BACKHOUSE (Outokumpu Stainless Ltd, Sheffield, United Kingdom) / Graham Gedge (Arup, London, United Kingdom)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Allely.

**Presentation time:** 4:50:00 PM

**Abstract ID and Title:** 199332, Atmospheric corrosion study of stainless steel with different contamination and surface finishes

**Presenting author:** Briony Holmes

**Authors:** Briony Holmes (TWI Ltd, Cambridge, United Kingdom) / Chi Lee (TWI Ltd, Cambridge, United Kingdom)

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Atmospheric Corrosion (TF)/Chair: Allely.

**Presentation time:** 5:10:00 PM

**Abstract ID and Title:** 199563, The Impact of Environmental Excursion on Pitting of Turbine Blade Steel

**Presenting author:** Philip Aldhous

**Authors:** Philip Aldhous (The University of Manchester, Manchester, United Kingdom) / Shengqi Zhou (National Physical Laboratory, Teddington, United Kingdom) / Alan Turnbull (National Physical Laboratory, Teddington, United Kingdom) / Robert Akid (The University of Manchester, Manchester, United Kingdom)

**17:30 - 19:00 Poster Party / Poster Discussion**

**20:30 - 21:30 - Social event: Organ concert at Seville Cathedral**

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Microbial Corrosion (WP10)/Chair: Cristiani.

**Presentation time:** 10:15:00 AM

**Abstract ID and Title:** 187452, Corrosion of X80 pipeline steel influenced by nitrate-reducing bacterium Bacillus licheniformis in neutral anaerobic soil solution

**Presenting author:** Jun Li

**Authors:** Jun Li (Institute of Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR) / Zhiyong Liu (Institute of Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR) / Cuiwei Du (Beijing Advanced Innovation Center for Materials Genome Engineering, Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR) / Xiaogang Li (Beijing Advanced Innovation Center for Materials Genome Engineering, Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR)

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Microbial Corrosion (WP10)/Chair: Cristiani.

**Presentation time:** 10:35:00 AM

**Abstract ID and Title:** 201180, Microbial destabilization of magnetite and siderite in the context of iron corrosion

**Presenting author:** Marjorie ETIQUE

**Authors:** Frederic P. A. JORAND (Université de Lorraine - CNRS, Nancy, France) / Marjorie ETIQUE (Université de Lorraine, Nancy, France)

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Microbial Corrosion (WP10)/Chair: Cristiani.

**Presentation time:** 10:55:00 AM

**Abstract ID and Title:** 197418, Microbial influenced corrosion (MIC) of lean duplex stainless steel under various conditions related to waste water treatment

**Presenting author:** Nanni Noël

**Authors:** Nanni Noël (Endures B.V., Den Helder, Netherlands) / Job Klijnstra (Endures B.V., Den Helder, Netherlands)

11:15 - 11:45 Coffee break
The property of sulfate-reducing bacteria influenced crevice corrosion of Q235 carbon steel in artificial oilfield produced water.

**Presenting author:** Javiiera Anguita

**Authors:** Javiiera Anguita (Marine Energy Research and Innovation Center (MERIC) / Pontificia Universidad Católica de Chile, Santiago, Chile) / Magdalena Walczak (Marine Energy Research and Innovation Center (MERIC) / Pontificia Universidad Católica de Chile, Santiago, Chile) / Rodrigo De la Iglesia (Marine Energy Research and Innovation Center (MERIC) / Pontificia Universidad Católica de Chile, Santiago, Chile) / Gonzalo Pizarro (Marine Energy Research and Innovation Center (MERIC) / Pontificia Universidad Católica de Chile, Santiago, Chile) / Francisco Armijo (Marine Energy Research and Innovation Center (MERIC) / Pontificia Universidad Católica de Chile, Santiago, Chile) / Ignacio Vargas (Marine Energy Research and Innovation Center (MERIC) / Pontificia Universidad Católica de Chile, Santiago, Chile)

---

The influence of Bacillus aerius on initial pitting corrosion of 6061 aluminum alloy in aqueous environment containing organic nitrogen source.

**Presenting author:** Ziheng Bai

**Authors:** Ziheng Bai (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR) / Xueming Li (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR) / Yali Feng (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR) / Chaofang Dong (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR) / Dawei Zhang (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR) / Kui Xiao (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR) / Xiaogang Li (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR)

---

The property of sulfate-reducing bacteria influenced crevice corrosion of Q235 carbon steel in artificial oilfield produced water.

**Presenting author:** Tiansui Zhang

**Authors:** Tiansui Zhang (Key Laboratory of Material Chemistry for Energy Conversion and Storage, Ministry of Education, Hubei Key Laboratory of Material Chemistry and Service Failure, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, P. R. China, WuHan, China PR) / Junlei Wang (Key Laboratory of Material Chemistry for Energy Conversion and Storage, Ministry of Education, Hubei Key Laboratory of Material Chemistry and Service Failure, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, P. R. China, WuHan, China PR) / Hongfang Liu (Key Laboratory of Material Chemistry and Service Failure, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, P. R. China, WuHan, China PR) / Junlei Wang (Key Laboratory of Material Chemistry and Service Failure, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, P. R. China, WuHan, China PR) / Xiaogang Li (Corrosion and Protection Center, University of Science and Technology Beijing, Beijing, China PR)

---

Effect of cultivation conditions on the electrochemical activity of metal reducing bacteria (MRB) on stainless steel surfaces.

**Presenting author:** Ozlem Ozcan

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 2:40:00 PM
Abstract ID and Title: 203424, Effect of surface topography and chemistry on the attachment of bacteria on solid surfaces
Presenting author: Jan Schuettter

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 3:00:00 PM
Abstract ID and Title: 180115, A novel method for controlling microbial induced sewer corrosion using nitrite
Presenting author: Xuan Li
Authors: Xuan Li (Advanced Water Management Centre, Brisbane, Australia) / Guangming Jiang (AWMC, Brisbane, Australia) / Zhiguo Yuan (The University of Queensland, Brisbane, Australia)

15:20 - 15:50 - Coffee break

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 3:50:00 PM
Abstract ID and Title: 194393, Silver-Epoxy nanocomposites for microbial corrosion protection
Presenting author: Leonardo Iannucci
Authors: Leonardo Iannucci (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), Torino, Italy, Torino, Italy) / Pierangela Cristiani (Ricerca sul Sistema Energetico (RSE SpA), Milano, Italy) / Marco Sangermano (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy) / 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)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 4:10:00 PM
Abstract ID and Title: 195614, Towards a better understanding of corrosion on copper surface in antibacterial efficiency tests
Presenting author: Jiaqi Luo
Authors: Jiaqi Luo (Saarland University, Saarbruecken) / Christina Hein (Saarland University, Saarbruecken) / Jean-François Pierson (University of Lorraine, Nancy, France) / Frank Mücklich (Saarland University, Saarbruecken)

Room and situation: Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Microbial Corrosion (WP10)/Chair: Cristiani.
Presentation time: 4:30:00 PM
Abstract ID and Title: 181985, On-site assessment of the risk for MIC in hydropower projects: Results, experiences and new developments.
Presenting author: Paul Linhardt
Authors: Paul Linhardt (Technische Universität Wien, Inst. f. Chemical Technologies and Analytics, Wien, Austria)

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session: WP16 business meeting
Presentation time: 10:15:00 AM

13:05 - 14:00 Lunchtime

Room and situation: Triana 4, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session: WP15 business meeting
Presentation time: 2:00:00 PM

17:30 - 19:00 Poster Party / Poster Discussion

20:30 - 21:30 - Social event: Organ concert at Seville Cathedral
THURSDAY, SEPTEMBER 12, 2019: LECTURES

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
Presentation time: 08:45:00 AM
Plenary Session: Plenary Lecture: Prof. Alicia Valero - "Materials for Circular Economy: facts and limits"

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
Presentation time: 09:30:00 AM
Plenary Session: Young Scientist Grant Ceremony

09:45 – 10:15 Break to visit Exhibitors

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Pretreatments (WP14)/Chair: M. Olivier, M. Fedel.
Presentation time: 10:15:00 AM
Abstract ID and Title: 206999, Zinc phosphate automotive conversion of MAX1.2HY, a newly developed group of stainless steel
Presenting author: Mohaddese Nabizadeh
Authors: Mohaddese Nabizadeh (Vrije Universiteit Brussel, Ixelles, Belgium) / Clément BOISSY (Aperam, Isbergues, France) / Herman Terryn (Vrije Universiteit Brussel, Brussels, Belgium) / Tom Hauffman (Vrije Universiteit Brussel, Brussels, Belgium)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Pretreatments (WP14)/Chair: M. Olivier, M. Fedel.
Presentation time: 09:45 – 10:15 Break to visit Exhibitors

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Pretreatments (WP14)/Chair: M. Olivier, M. Fedel.
Presentation time: 10:00:00 AM
Abstract ID and Title: 218516, Self-sealing of zirconium based conversion coatings applied on aluminium alloy AlSi7Mg0.3
Presenting author: Gavrilo Šekularac
Authors: Gavrilo Šekularac (Institute Jožef Stefan, Ljubljana, Slovenia) / Janez Kovač (Institute Jožef Stefan, Ljubljana, Slovenia) / Ingrid Milošev (Institute Jožef Stefan, Ljubljana, Slovenia)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Pretreatments (WP14)/Chair: M. Olivier, M. Fedel.
Presentation time: 10:15:00 AM
Abstract ID and Title: 184713, Corrosion protection performance and in-depth composition analysis of hybrid sol-gel coatings based on CeO2 nanoparticles applied on AA7075
Presenting author: Ursa Tiringer
Authors: Ursa Tiringer (Delft University of Technology, Delft, Netherlands) / Gavrilo Šekularac (Jožef Stefan Institute, Ljubljana, Slovenia) / Janez Kovač (Jožef Stefan Institute, Ljubljana, Slovenia) / J.M.C (Arjan) Mol (Delft University and Technology, Delft, Netherlands) / Ingrid Milošev (Jožef Stefan Institute, Ljubljana, Slovenia)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Pretreatments (WP14)/Chair: M. Olivier, M. Fedel.
Presentation time: 11:45:00 AM
Abstract ID and Title: 174417, Effect of surface chemistry on the bonding mechanisms, strength and durability in steel-epoxy adhesive bonds
Presenting author: Joost van Dam
Authors: Joost van Dam (Delft University of Technology, Delft, Netherlands) / Herman Terryn (Vrije Universiteit Brussel, Brussels, Belgium) / Arjan Mol (Delft University of Technology, Delft, Netherlands)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Pretreatments (WP14)/Chair: M. Olivier, M. Fedel.
Presentation time: 12:05:00 PM
Abstract ID and Title: 197363, The effect of VpCI chemical pre-treatment on adhesion of organic coatings
Presenting author: Ivan Stojanovic
Authors: Ivan Stojanovic (University of Zagreb, Zagreb, Croatia) / Vesna Alar (University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia) / Boris A. Miksic (FNACE, Corteccs d.o.o., Zagreb, Croatia) / Ivana Radic Borsic (Ecocortec d.o.o., Beli Manastir, Croatia)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: H. Terryn, L. Fedrizzi.
Presentation time: 2:00:00 PM
Abstract ID and Title: 186044, Parallel EIS and IR measurements to study formation and destruction of interfacial bonds between polymers and metal oxides
Presenting author: Herman Terryn
Authors: Herman Terryn (Vrije Universiteit Brussel, Brussels, Belgium) / Sven Pletinck (Vrije Universiteit Brussel, Brussels, Belgium) / Mats Meeusen (TU Delft, Delft, Netherlands) / Kristof Marcon (Vrije Universiteit Brussel, Brussels, Belgium) / Francesca Cavezza (Vrije Universiteit Brussel, Brussels, Belgium) / Laura Lynn Fockaert (TU Delft, Delft, Netherlands) / Arjan Mol (TU Delft, Delft, Netherlands) / Tom Hauffman (Vrije Universiteit Brussel, Brussels, Belgium)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: H. Terryn, L. Fedrizzi.
Presentation time: 2:20:00 PM
Abstract ID and Title: 226073, Water Uptake in Anti-Corrosion Polymer Coating: Development of Capacitance Measurement Methods
Presenting author: Lucas Ollivier-Lamarque
Authors: Lucas Ollivier-Lamarque (Graduate School of Engineering, Tohoku University, Sendai, Japan) / Tetsuya Uchimoto (Institute of Fluid Science, Tohoku University, Sendai, Japan) / Nicolas Mary (ElyTMAX UM1375 CNRS, Université de Lyon, Lyon, France) / Sébastien Livi (IMP@INSA Lyon, Université de Lyon, Villeurbanne, France) / Sabrina Marcelin (Mateis, INSA Lyon, Villeurbanne, France) / Bernard Normand (Mateis, INSA Lyon, Villeurbanne, France) / Benoît Ter-Ovanessian (Mateis, INSA Lyon, Villeurbanne, France)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: H. Terryn, L. Fedrizzi.
Presentation time: 2:40:00 PM
Abstract ID and Title: 199838, Investigating water transport processes and stability of a steel-methacrylate based adhesive interface
Presenting author: Mehrdad Hoseinoorpoor
Authors: Mehrdad Hoseinoorpoor (University of chemistry and technology, Prague, Czech Republic) / Tomáš Prošek (University of Chemistry and Technology, Prague, Czech Republic) / Jacky Mallegol (AC&CS – CRM GROUP, Liege, Belgium) / Ludovic Babusiaux (AC&CS – CRM GROUP, Liege, Belgium)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: H. Terryn, L. Fedrizzi.
Presentation time: 2:00:00 PM
Abstract ID and Title: 221189, Investigating water transport processes and stability of a steel-methacrylate based adhesive interface
Presenting author: Prakash Venkatesan
Authors: Prakash Venkatesan (TU Delft, Delft, Netherlands) / J.M.C Mol (TU Delft, Delft, Netherlands)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: H. Terryn, L. Fedrizzi.
Presentation time: 3:50:00 PM
Abstract ID and Title: 221519, New approach to assess water uptake in protective organic coatings
Presenting author: Mehrdad Hoseinoorpoor
Authors: Mehrdad Hoseinoorpoor (University of chemistry and technology, Prague, Czech Republic) / Tomáš Prošek (University of Chemistry and Technology, Prague, Czech Republic) / Jacky Mallegol (AC&CS – CRM GROUP, Liege, Belgium) / Ludovic Babusiaux (AC&CS – CRM GROUP, Liege, Belgium)

15:20 - 15:50 - Coffee break
**Room and session details:**

**Thursday, September 12th**

### Room and situation:
Sevilla 1, Floor 0 (foyer)

### Session and Chair(s):** Organic Coatings (WP14)/Chair: H. Terryn, L. Fedrizzi.

### Presentation time:
4:30:00 PM

### Abstract ID and Title:
189311, Mapping the Transport Channels in an Epoxy Coating with AFM-IR

### Presenting author:
Simon Gibbon

**Authors:** Suzanne Morsch (University of Manchester, Manchester, United Kingdom) / Stuart Lyon (University of Manchester, Manchester, United Kingdom) / Simon Gibbon (AkzoNobel, Felling, United Kingdom)

---

**Room and situation:**
Sevilla 2, Floor 0 (foyer)

**Session and Chair(s):** C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.

**Presentation time:**
10:15:00 AM

**Abstract ID and Title:**
179983, Passivity of pearlite of carbon steel in borate buffer

**Presenting author:** Koji Fushimi

**Authors:** Koji Fushimi (Hokkaido University, Sapporo, Japan) / Ryogo Nakagawa (Hokkaido University, Sapporo, Japan) / Yuichi Kitagawa (Hokkaido University, Sapporo, Japan) / Yasuchika Hasegawa (Hokkaido University, Sapporo, Japan)

---

**Room and situation:**
Sevilla 2, Floor 0 (foyer)

**Session and Chair(s):** C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.

**Presentation time:**
10:35:00 AM

**Abstract ID and Title:**
228724, Microstructural and local electrochemical characterization of gr. 91 steel welded joints as a function of Post Weld Heat Treatments.

**Presenting author:** Alex Lanzutti

**Authors:** Alex Lanzutti (Università di Udine, Udine, Italy) / Francesco Andreatt (Università di Udine, Udine, Italy) / Michele Magnan (Università Udine, Udine, Italy) / Lorenzo Fedrizzi (Università Udine, Udine, Italy)

---

**Room and situation:**
Sevilla 2, Floor 0 (foyer)

**Session and Chair(s):** C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.

**Presentation time:**
10:55:00 AM

**Abstract ID and Title:**
182513, EIS characteristics of zinc covered with native oxides under solution films of various thickness

**Presenting author:** Atushi Nishihata

**Authors:** Atushi Nishihata (Tokyo Institute of Technology, Tokyo, Japan) / Chulaluk Somphotch (Tokyo Institute of Technology, Tokyo, Japan) / Azusa Ooi (Tokyo Institute of Technology, Tokyo, Japan) / Eiji Tada (Tokyo Institute of Technology, Tokyo, Japan)

---

**Room and situation:**
Sevilla 2, Floor 0 (foyer)

**Session and Chair(s):** C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.

**Presentation time:**
11:45:00 AM

**Abstract ID and Title:**
179367, Correlative Nanoscale Scanning Electrochemical Cell Microscopy Combined with DFT to Understand Polycrystalline Zn Dissolution in Acid Media

**Presenting author:** Viacheslav Shkirskiy

**Authors:** Viacheslav Shkirskiy (University of Warwick, Coventry, United Kingdom) / Lewis Yule (University of Warwick, Coventry, United Kingdom) / Enrico Daviddi (University of Warwick, Coventry, United Kingdom) / Cameron Bentley (University of Warwick, Coventry, United Kingdom) / Jolyon Aarons (University of Warwick, Coventry, United Kingdom) / Patrick Unwin (University of Warwick, Coventry, United Kingdom)

---

**Room and situation:**
Sevilla 2, Floor 0 (foyer)

**Session and Chair(s):** C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Souto.

**Presentation time:**
12:05:00 PM

**Abstract ID and Title:**
229802, Revealing the Formation Dynamics of the Electrochemical Double Layer by means of in-situ Rutherford Backscattering Spectrometry

**Presenting author:** Ute Bergmann

**Authors:** Ute Bergmann (TU Dresden, Dresden) / Sabine Apelt (TU Dresden, Dresden) / Nasrin Khojasteh (Helmholtz-Zentrum Dresden-Rossendorf HZDR, Dresden) / René Keller (Helmholtz-Zentrum Dresden-Rossendorf HZDR, Dresden)
13:05 - 14:00 Lunchtime

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Mol.
Presentation time: 12:45:00 PM
Abstract ID and Title: 191665, Applications of quantitative measurement of gas evolution associated to electrochemical and corrosion processes. Presenting author: Michele Curioni
Authors: Michele Curioni (University of Manchester, Manchester, United Kingdom) / Fabio Scenini (University of Manchester, Manchester, United Kingdom) / Jeanette Torreancano-Alvarez (University of Manchester, Manchester, United Kingdom) / Peter Skeldon (University of Manchester, Manchester, United Kingdom)

15:20 - 15:50 - Coffee break

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Mol.
Presentation time: 2:00:00 PM
Abstract ID and Title: 178366, Electrochemical techniques to detect intermetallic phases in duplex stainless steels microstructure
Presenting author: Martin Monnot
Authors: Martin Monnot (Industeel (ArcelorMittal Group), Le Creusot cedex, France) / Emilie Robin (Industeel (ArcelorMittal Group), Le Creusot, France) / Sandra Le Manchet (Industeel (ArcelorMittal Group), Le Creusot, France)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Mol.
Presentation time: 2:00:00 PM
Abstract ID and Title: 188167, Improvement of Sensitivity in Detection System of Hydrogen Absorbed into Pure Iron using WO3 Thin Film by Optimization of thickness of WO3 and Pd films
Presenting author: Yiqi Zhou
Authors: Yiqi Zhou (University of Manchester, Manchester, United Kingdom) / Dirk Engelberg (University of Manchester, Manchester, United Kingdom) / Andrea Brenna (Politecnico di Milano, Milano, Italy) / Silvia Beretta (Politecnico di Milano, Milano, Italy) / Fabio Bolzoni (Politecnico di Milano, Milano, Italy) / Marta Melocchi (Politecnico di Milano, Milano, Italy) / Marco Ormellese (Politecnico di Milano, Milano, Italy)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion September 9-13, 2019 Seville, Spain

Room and session: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation title: 10:15:00 AM
Abstract and Title: 217427, Effects of flow velocity and pH on the degradation of protective corrosion films
Presenting author: Ricardo Rizzo
Authors: Ricardo Rizzo (Technical University of Denmark, Kgs Lyngby, Denmark) / Shivangi Gupta (Technical University of Denmark, Lyngby, Denmark) / Magdalena Rogowska (Technical University of Denmark, Kgs Lyngby, Denmark) / Rajan Ambat (Technical University of Denmark, Kgs Lyngby, Denmark)

Room and session: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation title: 10:35:00 AM
Abstract and Title: 1900565, Effect of CaCO3 precipitation on the corrosion resistance of pseudo-passivated mild carbon steel
Presenting author: Adriana Matamoros-Veloza
Authors: Adriana Matamoros-Veloza (Institute of Functional Surfaces, School of Mechanical Engineering, University of Leeds, Leeds, LS2 9JT, United Kingdom) / Richard Barker (Institute of Functional Surfaces, School of Mechanical Engineering, University of Leeds, Leeds, United Kingdom) / Silvia M. Vargas (BP America, Inc., Houston, TX 77079, United States of America) / Anne Neville (Institute of Functional Surfaces, School of Mechanical Engineering, University of Leeds, Leeds, United Kingdom)

Room and session: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation title: 10:55:00 AM
Abstract and Title: 226546, The Influence of Ionic Strength on CO2 Corrosion of Mild Steel
Presenting author: Tatiana C. Almeida
Authors: Tatiana C. Almeida (LNDC / COPPE / UFRJ, Rio de Janeiro, Brazil) / Rafael F. Garcia (LNDC / COPPE / UFRJ, Rio de Janeiro, Brazil) / Merlin C.E. Bandeira (LNDC / COPPE / UFRJ, Rio de Janeiro, Brazil) / Rogaciano M. Moreira (LNDC / COPPE / UFRJ, Rio de Janeiro, Brazil) / Oscar R. Mattos (LNDC / COPPE / UFRJ, Rio de Janeiro, Brazil)

Room and session: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation title: 11:15:00 AM
Abstract and Title: 202126, 3D X-ray tomographic analysis of the nature and morphology of corrosion scales formed on X65 as a function of environment
Presenting author: Rafael Leiva Garcia
Authors: Rafael Leiva Garcia (University of Manchester, Manchester, United Kingdom) / Adam Anders (University of Manchester, Manchester, United Kingdom) / Tony Cook (University of Manchester, Manchester, United Kingdom) / Grace Burke (University of Manchester, Manchester, United Kingdom) / Christopher Muryn (University of Manchester, Manchester, United Kingdom) / Mary Ryan (Imperial College London, London, United Kingdom) / Malte Storm (Diamond light source, Ditcot, United Kingdom) / James Carr (University of Manchester, Manchester, United Kingdom) / Silvia Vargas (BP Exploration Operating Company Limited, Sundbury, United Kingdom) / Sheetal Handa (BP Exploration Operating Company Limited, Sundbury, United Kingdom) / Philip Withers (University of Manchester, Manchester, United Kingdom) / Brian Connolly (University of Manchester, Manchester, United Kingdom)
THURSDAY, SEPTEMBER 12

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): JS: Cathodic Protection in Marine Environment (WP9 + WP16)/Chair: Crouzillac, Refait.
Presentation time: 10:55:00 AM
Abstract ID and Title: 185714, HOW TO FIGHT AGAINST GALVANIC COUPLING BETWEEN BURIED AND SUBMERGED SIDE OF A STEEL PILE IN SEAWATER

Presenting author: Xavier Hallopeau
Authors: Xavier Hallopeau (Freyssinet International & Cie, Rueil Malmaison Cedex, France)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): JS: Cathodic Protection in Marine Environment (WP9 + WP16)/Chair: Crouzillac, Refait.
Presentation time: 11:45:00 AM
Abstract ID and Title: 195526, Corrosion Protection of Steel Using Al-Based Alloys

Presenting author: Maria del Rosario Silva Campos
Authors: Maria del Rosario Silva Campos (Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research, Geesthacht) / Carsten Blawert (Helmholtz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht) / Michael Stoermer (Helmholtz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht) / Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J.Crouzillac, M. Roche.
Presentation time: 12:05:00 PM
Abstract ID and Title: 183426, Corrosion Due to Direct Electrical Heating of Cathodically-Protected Offshore Oil Pipelines

Presenting author: Kemal Nisancioglu
Authors: Kemal Nisancioglu (Norwegian University of Science and Technology, Trondheim, Norway) / Kari Forthun (Norwegian University of Science and Technology, Trondheim, Norway) / Sven-Morten Hesjevik (Statoil Research Centre, Trondheim, Norway) / Martin Hoyer-Hansen (SINTEF, Trondheim, Norway)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J.Crouzillac, M. Roche.
Presentation time: 12:25:00 PM
Abstract ID and Title: 179136, Practical application of telluric modelling for pipelines

Presenting author: Ken Lax
Authors: Ken Lax (Corroconsult UK Ltd, Telford, United Kingdom) / David Boteler (Geomagnetic Laboratory, Natural Resources Canada, Ottawa, Canada) / Charalampos Charalambous (Dept. of Electrical and Computer Engineering, University of Cyprus, Nicosia, Cyprus) / Risto Juhani Pirjola (Geomagnetic Laboratory, Natural Resources Canada, Ottawa, Canada)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J.Crouzillac, M. Roche.
Presentation time: 12:45:00 PM
Abstract ID and Title: 203160, Estimation of the cumulative effects of telluric currents on cathodically protected pipeline

Presenting author: Larisa Trichtchenko
Authors: Larisa Trichtchenko (Natural Resources Canada, Ottawa, Canada) / Lidia Nikitina (Natural Resources Canada, Ottawa, Canada) / Joyrles Moraes (Universidade de Campina Grande, Campina Grande-Paraiba, Brazil)

13:05 - 14:00 Lunchtime

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J.Crouzillac, M. Roche.
Presentation time: 2:00:00 PM
Abstract ID and Title: 176232, HIGHLY EFFICIENT CATHODIC CORROSION PROTECTION SYSTEM

Presenting author: Efim Lyublinski
Authors: Efim Lyublinski (COR/SCI LLC, Solon, United States of America) / Yakov Roitman (Y&B Delicacies, New York, United States of America) / Valgelm Kosov (Technical University, Kishinev, Moldova) / Sergey Bogatii (Technical University, Kishinev, Moldova)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J.Crouzillac, M. Roche.
Presentation time: 2:20:00 PM
Abstract ID and Title: 175385, Increase and Stabilization of Magnesium Sacrificial Anodic Alloys Performance Characteristics

Presenting author: Efim Lyublinski
Authors: Efim Lyublinski (Retired, Solon, United States of America) / Vladimir Kechin (Vladimir State University, Vladimir, Russia) / Nikolay Ivanov (Energofinishy, Vladimir, Russia)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J.Crouzillac, M. Roche.
Presentation time: 2:40:00 PM
Abstract ID and Title: 186308, Integration of intelligent a.c. mitigation device VCSD in online monitoring and management systems for cathodic protection.

Presenting author: Tobias Braun
Authors: Tobias Braun (DEHN + SÖHNE GmbH + Co.KG., Neumarkt i.d.OPf.)
THURSDAY, SEPTEMBER 12

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Buchler.
Presentation time: 3:00:00 PM
Abstract ID and Title: 195361, An algorithm for CP effectiveness evaluation: the Italian KT and its possible application in other countries
Presenting author: Ivano Magnifico
Authors: Ivano Magnifico (AUTOMA srl, Ancona, Italy)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Buchler.
Presentation time: 3:50:00 PM
Abstract ID and Title: 179345, Pipeline corrosion monitoring system
Presenting author: Alexey Makarenko
Authors: Pavel Revin (The Pipeline Transport Institute (Transneft R&D, LLC), Moscow, Russia) / Alexey Makarenko (The Pipeline Transport Institute (Transneft R&D, LLC), Moscow, Russia)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Buchler.
Presentation time: 4:10:00 PM
Abstract ID and Title: 178234, Assessing the corrosion risk caused by DC interference on cathodically protected pipelines
Presenting author: Markus Büchler
Authors: Markus Büchler (Schweizerische Gesellschaft für Korrosionsschutz - SGK, Zürich, Switzerland) / David Joos (SGK, Zürich, Switzerland)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Buchler.
Presentation time: 4:30:00 PM
Abstract ID and Title: 184471, Cathodic protection and DC non-stationary anodic interference: criteria and electrochemical processes
Presenting author: Mehdi Attarchi
Authors: Mehdi Attarchi (Politecnico di Milano, Milan, Italy) / Andrea Brenna (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)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Buchler.
Presentation time: 4:50:00 PM
Abstract ID and Title: 212675, Methodological evaluation of hydrogen diffusion in steel by electrochemical permeation
Presenting author: Kim Verbeken
Authors: Emiel Van den Eeckhout (Ghent University, Ghent, Belgium) / Tom Depover (Ghent University, Ghent, Belgium) / Kim Verbeken (Ghent University, Ghent, Belgium)

20:30 Conference dinner

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair:
Presentation time: 10:15:00 AM
Abstract ID and Title: 228658, Corrosion behavior of commercial Fe- and Ni-based alloys in molten nitrate salt at 600°C
Presenting author: Ceyhun Oskay
Authors: Ceyhun Oskay (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Tobias M. Meissner (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Ali Solimani (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Alexander Bonk (Deutsches Zentrum fuer Luft- und Raumfahrt (DLR), Stuttgart) / Mathias C. Galetz (DECHEMA-Forschungsinstitut, Frankfurt am Main)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair:
Presentation time: 10:35:00 AM
Abstract ID and Title: 221398, A study of the corrosion of YSZ coatings in molten salts prepared by flame spray synthesis
Presenting author: Melquisedec Vicente Mendoza
Authors: Melquisedec Vicente Mendoza (CIITEC IPN, Ciudad de México, Mexico) / Fernando Juárez López (CIITEC, Ciudad de Mexico, Mexico) / Ricardo Cuenca-Álvarez (CIITEC, Ciudad de Mexico, Mexico)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair:
Presentation time: 10:55:00 AM
Abstract ID and Title: 220045, High temperature oxidation behavior of wrought Co-base alloys Haynes 25 and Haynes 188
Presenting author: Timur Galulin
Authors: Timur Galulin (Forschungszentrum Juelich GmbH, Juelich) / Rishi Pillai (Oak Ridge National Laboratory, Oak Ridge (TN), United States of America) / Egbert Wessel (Forschungszentrum Juelich GmbH, Juelich) / Willem Joe Quadakkers (Forschungszentrum Juelich GmbH, Juelich) / Dmitry Naumenko (Forschungszentrum Juelich GmbH, Juelich)

11:15 - 11:45 Coffee break
THURSDAY, SEPTEMBER 12

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: .
Presentation time: 11:45:00 AM
Abstract ID and Title: 234345, Reactivity of CO2 and H2O molecules on 9-12Cr steel surface: impact on the corrosion behaviour
Presenting author: FABIEN Rouillard
Authors: FABIEN Rouillard (CEA, GIF SUR YVETTE, France) / FREDERIC MISERQUE (CEA, GIF SUR YVETTE, France)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: .
Presentation time: 12:05:00 PM
Abstract ID and Title: 187188, The Effect of Molybdenum on High Temperature Oxidation and the Oxide Scale of Chromia-forming Alloy
Presenting author: Dae Won Yun
Authors: Dae Won Yun (Korea Institute of Materials Science, Changwon, Korea, South) / Y. S. Yoo (Korea Institute of Materials Science, Changwon, Korea, South) / H. W. Jeong (Korea Institute of Materials Science, Changwon, Korea, South) / S. M. Seo (Korea Institute of Materials Science, Changwon, Korea, South)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: .
Presentation time: 12:25:00 PM
Abstract ID and Title: 225952, Modelling the oxidation transitory regime of Ni-Cr alloys: thermo-kinetic coupling with EKINOX-Open Calphad codes
Presenting author: Laure Martinelli
Authors: Laure Martinelli (CEA Saclay, Gif-sur-Yvette, France) / Clara Desgranges (Safran, Châteaufort, France) / Daniel Monceau (CIRIMAT, Université de Toulouse, CNRS, Toulouse, France) / Florence Lequien (CEA, Gif sur Yvette, France) / Bosse Sundman (OpenCalphad, Gif sur Yvette, France)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): C. by Hot Gases and Combustion Products (WP3)/Chair: .
Presentation time: 12:45:00 PM
Abstract ID and Title: 224720, Diffusion transport and Oxidation kinetics of FeCr and FeCrCo model alloys
Presenting author: Roman Simkin
Authors: Roman Simkin (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Axel Kranzmann (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Anja Pfennig (Hochschule für Technik und Wirtschaft (HTW Berlin), Berlin)

13:05 - 14:00 Lunchtime

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session: WP 3 meeting
Presentation time: 2:00:00 PM

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): JS: Coatings for High Temperatures (WP3 + WP14)/Chair: .
Presentation time: 3:50:00 PM
Abstract ID and Title: 196263, Innovative diffusion aluminide coating obtained via electroless pure nickel approach: synthesis, characterization and long term oxidation tests
Presenting author: Virgilio Genova
Authors: Virgilio Genova (Sapienza University of Rome, Rome, Italy) / Laura Paglia (Sapienza University of Rome, Rome, Italy) / Cecilia Bartuli (Sapienza University of Rome, Rome, Italy) / Giovanni Pulci (Sapienza University of Rome, Rome, Italy) / Francesco Marra (Sapienza University of Rome, Rome, Italy)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): JS: Coatings for High Temperatures (WP3 + WP14)/Chair: .
Presentation time: 4:10:00 PM
Abstract ID and Title: 213654, Improving the Oxidation Resistance of Cr and its Alloys at Ultra High Temperatures by Applying New Coating Systems Promoting SiO2 Formation
Presenting author: Anke Silvia Ulrich
Authors: Anke Silvia Ulrich (DECHEMA-Forschungsinstitut, Frankfurt am Main) / Timo Kaiser (DECHEMA-Forschungsinstitut, 60486 Frankfurt a. M.) / Emanuel Ionescu (TU Darmstadt, 64287 Darmstadt) / Chad Harris (University of Wisconsin-Madison, Madison, WI 53706, United States of America) / Mike Niezgoda (University of Wisconsin-Madison, Madison, WI 53706, United States of America) / Ralf Riedel (TU Darmstadt, 64287 Darmstadt) / John H. Perepezko (University of Wisconsin-Madison, Madison, WI 53706, United States of America) / Mathias Christian Galetz (DECHEMA-Forschungsinstitut, 60486 Frankfurt a.M. )

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): JS: Coatings for High Temperatures (WP3 + WP14)/Chair: .
Presentation time: 4:30:00 PM
Abstract ID and Title: 219308, High-temperature oxidation behavior of T92 steel pipes coated with Ni-based alloy by HVOF
Presenting author: Najib Abu-warda Pérez
Authors: Najib Abu-warda Pérez (University Rey Juan Carlos, Móstoles, Spain) / Antonio Julio López (University Rey Juan Carlos, Móstoles, Spain) / María Dolores López (University Rey Juan Carlos, Móstoles, Spain) / María Victoria Utrilla (University Rey Juan Carlos, Móstoles, Spain)
Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): JS: Corrosion for High Temperatures (WP3 + WP14)/Chair: .
Presentation time: 4:50:00 PM
Abstract ID and Title: 197704, The oxidation behavior of SiAlOC glasses coated ferritic stainless steel in thermal shocks conditions
Presenting author: Maciej Bik
Authors: Maciej Bik (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Lukasz Mazur (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland) / Piotr Jeleń (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Miroslaw Styrag (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Juliusz Dąbrowa (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Elżbieta Dlugor (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Jan Wyrywa (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Ewelina Bak (Faculty of Chemistry, Jagiellonian University, Cracow, Cracow, Poland) / Tomasz Brylewski (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Maciej Sitarz (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland)

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): JS: Coatings for High Temperatures (WP3 + WP14)/Chair: .
Presentation time: 5:10:00 PM
Abstract ID and Title: 183668, Thermal shock behavior of the AIP NiCrAlY and metal-enamel nano-composite coatings
Presenting author: Minghui Chen
Authors: Minghui Chen (Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang, China PR) / Shenglong Zhu (Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / Fuhui Wang (Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang, China PR)

20:30 Conference dinner

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 10:15:00 AM
Abstract ID and Title: 233938, New Approach for Sulphidation Prediction in Crude Oil Refineries
Presenting author: Philipp Schempff
Authors: Philipp Schempff (Shell Deutschland Oil GmbH, Köln) / Silvio Köhler (Shell Deutschland Oil GmbH, Cologne) / Karsten Preuß (Shell Deutschland Oil GmbH, Cologne) / Micha Tröger (Shell Deutschland Oil GmbH, Cologne)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 10:35:00 AM
Abstract ID and Title: 203776, Preventing the Replacement of Critical Process Vessels Suffering from SSC & HIC
Presenting author: Colin Bateman
Authors: Colin Bateman (IGS (Integrated Global Services) Inc., Coddington, United Kingdom) / Iain Hall (IGS (Integrated Global Services) Inc., Richmond, United States of America)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 10:55:00 AM
Abstract ID and Title: 172514, Corrosion Under Insulation on industrial piping - a holistic approach to insulation system design.
Presenting author: Mark Swift
Authors: Mark Swift (Armacell Engineered Systems, Oldham, United Kingdom)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 11:45:00 AM
Abstract ID and Title: 175099, Preservation Strategy for Storage Tanks in Capital Projects
Presenting author: Sami Al-Ghamdi
Authors: Sami Al-Ghamdi (Saudi Aramco Oil Company, Dhahran, Saudi Arabia) / Hendrik Debruyn (Saudi Aramco Oil Company, Dhahran, Saudi Arabia) / Yousef Aldossary (Saudi Aramco Oil Company, Dhahran, Saudi Arabia) / Michael Mottern (Saudi Aramco Oil Company, Dhahran, Saudi Arabia)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 12:05:00 PM
Abstract ID and Title: 191720, Recommended practice for corrosion management on Power Boilers of medium and high pressure
Presenting author: Carlos Lasarte
Authors: Carlos Lasarte (Combustión, Energía & Ambiente, C.A., Panama, Panama)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 12:25:00 PM
Abstract ID and Title: 177618, An Experimental Investigation into the Application of Bipolar Electrochemistry for Acid Corrosion Studies
Presenting author: Yiqi Zhou
Authors: Yiqi Zhou (University of Manchester, Manchester, United Kingdom) / Dirk Engelberg (University of Manchester, Manchester, United Kingdom)
Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 2:00:00 PM
Abstract ID and Title: 181380, Developing Corrosion Resistant Alloys Using Big Data
Presenting author: James Vecchio
Authors: James Vecchio (Oerlikon Metco, San Diego, United States of America) / Adolfo Castells (Oerlikon Metco, San Diego, United States of America) / Fred van Rodijnen (Oerlikon Metco, Kelsterbach) / Justin Cheney (Oerlikon Metco, San Diego, United States of America)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 2:40:00 PM
Abstract ID and Title: 178410, Influence of ferrite content in Heat Affected Zone of duplex stainless steels in sour environment
Presenting author: Martin Monnot
Authors: Martin Monnot (Induststeel (ArcelorMittal Group), Le Creusot , France) / Bastien Chareyre (Induststeel (ArcelorMittal Group), Le Creusot, France) / Gilles Passot (Induststeel (ArcelorMittal Group), Le Creusot, France) / Sandra Le Manchet (Induststeel (ArcelorMittal Group), Le Creusot, France)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 3:00:00 PM
Abstract ID and Title: 190169, Corrosion of High Pressure Steam Turbines in a Coal-Fired Power Plant
Presenting author: Seonyeob Li
Authors: Seonyeob Li (Hyundai Engineering & Construction Co., Seoul, Korea, South) / Taek-ki Kang (Hyundai Engineering & Construction Co., Seoul, Korea, South) / Suho Cha (Hyundai Engineering & Construction Co., Seoul, Korea, South)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 3:50:00 PM
Abstract ID and Title: 205118, Failure analysis of an aluminide coating on alloy 800 exposed to metal dusting condition on an industrial hydrogen production
Presenting author: Alina Agüero
Authors: Alina Agüero (INTA, Torrejón de Ardoz, Spain) / Raúl Muelas (ISDEFE, Madrid, Spain) / Ignacio Baraibar (INTA, Torrejón de Ardoz, Spain) / Ceyhum Oskay (Dechema, Frankfurt) / Mathias Galetz (Dechema, Frankfurt)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 4:10:00 PM
Abstract ID and Title: 192391, Resistance of metallic materials exposed to heating oil blends with 10 % and 20 % biodiesel (FAME)
Presenting author: Sina Pötzsch

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 4:30:00 PM
Abstract ID and Title: 225237, Detection and Location of Coating Defects on Buried Pipelines with Reflectometry Technology
Presenting author: Tristan de Servins
Authors: Tristan de Servins (Heuristech, Paris, France) / Homero Castaneda (Texas A&M University, College Station, United States of America)
THURSDAY, SEPTEMBER 12

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 4:50:00 PM
Abstract ID and Title: 231870, Cracking of SS347H Weldment in Process Plant Root Cause and Mitigation Methods
Presenting author: Mabruk Suleiman
Authors: Mabruk Suleiman (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / Mohamed Al Musharfy (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates) / Aya Shiraz Al-Masri (ADNOC Refining Research Centre, Abu Dhabi, United Arab Emirates)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 5:10:00 PM
Abstract ID and Title: 221024, Effect of the molecular structure of reactive sulfur compounds on AISI–317L steel sulfidic corrosion
Presenting author: Dionisio Laverde-Cataño
Authors: Gerson Conde-Rodríguez (Universidad Industrial de Santander, Bucaramanga, Colombia) / Javier Sanabria-Cala (Universidad Industrial de Santander, Bucaramanga, Colombia) / Dionisio Laverde-Cataño (Universidad Industrial de Santander, Bucaramanga, Colombia) / Dario Peña-Ballesteros (Universidad Industrial de Santander, Bucaramanga, Colombia)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 5:30:00 PM
Abstract ID and Title: 173273, Experience with 1st generation Permasense non-intrusive wireless corrosion monitoring system at Equinor Refining Denmark A/S
Presenting author: Peter Fischbacher
Authors: Anni Visgaard Nielsen (Equinor Kalundborg Refinery, Kalundborg, Denmark) / Jake Davies (Emerson Permasense, Crawley, United Kingdom) / Peter Fischbacher (Emerson, Milan, Italy)

20:30 Conference dinner

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Ambat, Jellesen.
Presentation time: 10:15:00 AM
Abstract ID and Title: 179268, Electrochemical Corrosion and Thermal Effects at Voltages 12 V in Electronic Systems
Presenting author: Hans-jürgen Schreiber
Authors: Hans-jürgen Schreiber (Robert Bosch GmbH, Reutlingen) / Sabine Knopke (Robert Bosch GmbH, Reutlingen)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Ambat, Jellesen.
Presentation time: 10:35:00 AM
Abstract ID and Title: 194833, Investigations of electrochemically formed dendrites on micro-alloyed lead-free SAC alloys
Presenting author: Bálint Medgyes
Authors: Bálint Medgyes (UNIPCB Ltd., Budapest, Hungary) / László Gál (UNIPCB Ltd., Budapest, Hungary) / Gábor Harsányi (BME, Budapest, Hungary)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Ambat, Jellesen.
Presentation time: 10:55:00 AM
Abstract ID and Title: 181666, The roles of Ag and Cu in the electrochemical migration of Sn-3Ag-0.5Cu alloy
Presenting author: Xiankang Zhong
Authors: Xiankang Zhong (Southwest Petroleum University, Chengdu, China PR)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Schweigart, Medgyes.
Presentation time: 11:45:00 AM
Abstract ID and Title: 191390, Process cleanliness and climate-related effects on reliability issues of electronic devices
Presenting author: Rajan Ambat
Authors: Kamila Piotrowska (Technical University of Denmark, Kgs. Lyngby, Denmark) / Simone Lagana (Technical University of Denmark, Kgs. Lyngby, Denmark) / Morten Jellesen (Technical University of Denmark, Kgs. Lyngby, Denmark) / Rajan Ambat (Technical University of Denmark, Kgs. Lyngby, Denmark)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Schweigart, Medgyes.
Presentation time: 12:05:00 PM
Abstract ID and Title: 235104, Climatic reliability of electronic devices: Failure risk prediction on PCBA using a probabilistic model
Presenting author: Sajjad Bahrebar
Authors: Sajjad Bahrebar (Center for Electronic Corrosion, Section of Materials and Surface Engineering, Department of Mechanical Engineering, 2800 Lyngby, Denmark) / Rajan Ambat (Center for Electronic Corrosion, Section of Materials and Surface Engineering, Department of Mechanical Engineering, 2800 Lyngby, Denmark)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Schweigart, Medgyes.
Presentation time: 12:25:00 PM
Abstract ID and Title: 193502, Iodine Vapor Quality Test for Harmful Gas Resistant Electronics
Presenting author: Markus Rainer Meier
Authors: Markus Rainer Meier (ZESTRON Europe, Ingolstadt, Donau) / Helmut Schweigart (ZESTRON Europe, Ingolstadt)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Schweigart, Medgyes.
Presentation time: 12:45:00 PM
Abstract ID and Title: 223312, Study of the degradation of different thermoelectric modules at Teide National Park
Presenting author: Leyre Catalán
Authors: Leyre Catalán (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Gurutzet Pérez (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Carlos Berlanga (Public University of Navarre. Institute for Advanced Materials, Pamplona, Spain) / David Astrain (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Amaia Garacochea (Public University of Navarre, Pamplona, Spain) / Patricia Aranguren (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Miguel Araz (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Vidal Domínguez (Instituto Volcanolóxico de Canarias (INVOLCAN), La Laguna, Spain) / Ana Carolina Montañez (Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain) / Germán D. Padilla (Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain)

13:05 - 14:00 Lunchtime

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Medgyes, Ambat.
Presentation time: 2:00:00 PM
Abstract ID and Title: 190620, Test Methods for Understanding the Corrosion Mechanisms of Hearing Aids Subjected to High Humidity and Polluted Environments
Presenting author: Abhijeet Yadav
Authors: Abhijeet Yadav (Technical University of Denmark, Lyngby, Denmark) / Rajan Ambat (Technical University of Denmark, Lyngby, Denmark)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Medgyes, Ambat.
Presentation time: 2:20:00 PM
Abstract ID and Title: 173460, Complementary EIS / FTIR study of the degradation of adhesives in electronic packaging
Presenting author: Michael Schneider
Authors: Michael Schneider (Fraunhofer-Institut für Keramische Technologien und Systeme, Dresden) / Uta Gierth (Fraunhofer-Institut für Keramische Technologien und Systeme, Dresden) / Ulrike Langklotz (Fraunhofer-Institut für Keramische Technologien und Systeme, Dresden) / Paul Gierth (Fraunhofer-Institut für Keramische Technologien und Systeme, Dresden) / Lars Rebenklau (Fraunhofer-Institut für Keramische Technologien und Systeme, Dresden)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Medgyes, Ambat.
Presentation time: 2:40:00 PM
Abstract ID and Title: 209441, Electrochemical study on etching ability and humidity robustness of organic amines used in the solder flux systems
Presenting author: Feng Li
Authors: Feng Li (Centre for Electronics Corrosion, Department of Mechanical Engineering, Technical University of Denmark, Kongens Lyngby, Denmark) / Kamila Piotrowska (Centre for Electronics Corrosion, Department of Mechanical Engineering, Technical University of Denmark, Kongens Lyngby, Denmark) / Morten Stendahl Jellesen (Centre for Electronics Corrosion, Department of Mechanical Engineering, Technical University of Denmark, Kongens Lyngby, Denmark) / Rajan Ambat (Centre for Electronics Corrosion, Department of Mechanical Engineering, Technical University of Denmark, Kongens Lyngby, Denmark)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Medgyes, Ambat.
Presentation time: 3:00:00 PM
Abstract ID and Title: 207087, Study of plasma polymer films for the corrosion protection of Printed Circuit Boards
Presenting author: iris De Graeve
Authors: iris De Graeve (Vrije Universiteit Brussel, Brussels, Belgium) / Aliakbar Khangholi (Vrije Universiteit Brussel, Brussels, Belgium) / Li Feng (Technical University of Denmark, Lyngby, Denmark) / Kamila Piotrowska (Technical University of Denmark, Lyngby, Denmark) / Kristof Marcone (Vrije Universiteit Brussel, Brussels, Belgium) / Samir Loulidi (Europlasma, Oudenaarde, Belgium) / Filip Legein (Europlasma, Oudenaarde, Belgium) / Rajan Ambat (Technical University of Denmark, Kongens Lyngby, Denmark) / Guy Van Assche (Vrije Universiteit Brussel, Brussels, Belgium) / Annick Hubin (Vrije Universiteit Brussel, Brussels, Belgium) / Iris De Graeve (Research group of Electrochemical and Surface Engineering (SURF), Research group of Physical Chemistry and Polymers (FYSC), Department of Materials and Chemistry, Vrije Universiteit Brussel, Brussels, Belgium)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): C. Reliability of Electronic Materials and Devices (WP23)/Chair: Schweigart, Jellesen.
Presentation time: 3:50:00 PM
Abstract ID and Title: 218615, Humidity barrier properties of coatings used to protect electronics against corrosion
Presenting author: Morten Stendahl Jellesen
Authors: Morten Stendahl Jellesen (Technical University of Denmark, Kongens Lyngby, Denmark) / Feng Li (DTU, DK, Denmark) / simone laguna (dkt, kgs lyngby, Denmark) / Rajan Ambat (DTU, Lyngby, Cyprus) / Vidal Gisbert (Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain) / Germán D. Padilla (Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain)
Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Presentation time: 4:10:00 PM
Abstract ID and Title: 208396, LA-ICP-MS and LIBS: Analytical Techniques for Lateral Resolved Elemental Analysis applied to Corrosion Studies in Semiconductor Devices

Presenting author: Lukas Brunnbauer
Authors: Lukas Brunnbauer (TU Vienna, Vienna, Austria) / Maximilian Mayr (KAI Kompetenzzentrum Automobil- und Industrielektronik GmbH, Villach, Austria) / Maximilian Bonta (TU Vienna, Vienna, Austria) / Walter Mack (Infineon Regensburg, Regensburg) / Harald Preu (Infineon Regensburg, Regensburg) / Carsten Schäffer (Infineon Villach, Villach, Austria) / Silvia Larisegger (KAI Kompetenzzentrum Automobil- und Industrielektronik GmbH, Villach, Austria) / Michael Neßiebel (KAI Kompetenzzentrum Automobil- und Industrielektronik GmbH, Villach, Austria) / Andreas Limbeck (TU Vienna, Vienna, Austria)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Presentation time: 4:30:00 PM
Abstract ID and Title: 235082, Corrosion of Electronics in Oil-filled submersible pumps
Presenting author: Jesper Konge
Authors: Jesper Konge (Grundfos A/S, Bjerringbro, Denmark)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Presentation time: 4:50:00 PM
Abstract ID and Title: 205327, Practical pitfalls when designing humidity resistant electronic products
Presenting author: Kim Albert Schmidt
Authors: Kim Albert Schmidt (FORCE Technology, Hoersholm, Denmark)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Presentation time: 5:10:00 PM
20:30 Conference dinner

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Presentation time: 10:15:00 AM
Abstract ID and Title: 229263, Corrosion resistance and cell proliferation of Ti6Al4V alloy manufactured by Selective Laser Melting and processed through High-Pressure Torsion
Presenting author: Mengyan Nie
Authors: Mengyan Nie (Institute for Materials Discovery, University College London, London, United Kingdom) / Haowen Wang (Institute for Materials Discovery, University College London, London, United Kingdom) / Kwang-Leong Choy (Institute for Materials Discovery, University College London, London, United Kingdom) / Yeol Jin Seong (Institute for Materials Discovery, University College London, London, United Kingdom) / Shahir Mohd Yusuf (Faculty of Engineering and Physical Sciences, University of Southampton, Southampton, United Kingdom) / Chaozong Liu (Institute of Orthopaedics and Musculoskeletal Science, University College London, London, United Kingdom) / Mengyan Nie (Institute for Materials Discovery, University College London, London, United Kingdom) / Chaozong Liu (Institute of Orthopaedics and Musculoskeletal Science, University College London, London, United Kingdom)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Presentation time: 10:35:00 AM
Abstract ID and Title: 230671, Tailored Organic-Inorganic Nanocomposite Coatings for Biomedical Applications
Presenting author: Federico R. García-Galván
Authors: Federico R. García-Galván (Centro Nacional de Investigaciones Metalúrgicas, CENIM (CSIC), Madrid, Spain, Madrid, Spain) / Amir A. El-Hadad (McGill University, Faculty of Dentistry, Montreal, QC, , Canada) / Rodrigo Montoya (Universidad Nacional Autónoma de México (UNAM), Facultad de Química, Polo Universitario de Tecnología Avanzada, Apodaca, N.L., Mexico) / Violeta Barranco (Centro Nacional de Investigaciones Metalúrgicas, CENIM (CSIC), Madrid, Spain) / Antonia Jiménez-Morales (Universidad Carlos III de Madrid, Departamento de Ciencia e Ingeniería de Materiales e e Ingeniería Química, Leganés, Madrid, Spain) / Juan Carlos Galván (Centro Nacional de Investigaciones Metalúrgicas, CENIM (CSIC), Madrid, Spain)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Presentation time: 10:55:00 AM
Abstract ID and Title: 216855, An Investigation on Corrosion Behaviour of Colour Anodized Ti6Al4V Alloys
Presenting author: Emine Feray Aydin
Authors: Emine Feray Aydin (Selcuk University, Konya, Turkey) / Mustafa Kocabas (Konya Technical University, Konya, Turkey)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Presentation time: 11:45:00 AM
Abstract ID and Title: 201873, Production and Characterization of nanotubes on Titanium Alloy Ti6Al4V surface
Presenting author: Stefano Rossi
Authors: Stefano Rossi (Department of Industrial Engineering, University of Trento, Trento, Italy) / Marielle Eyraud (Aix-Marseille Université, CNRS, MADIREL UMR 7246, Marseille, France) / Luciana Volgare (Department of Industrial Engineering, University of Trento, Trento, Italy)
THURSDAY, SEPTEMBER 12

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: S. García-Vergara.
Presentation time: 12:05:00 PM
Abstract ID and Title: 230979, Investigation of TiO2 Nanotubes Formation on the Surface of Pure Ti and Ti6Al4V Alloy
Presenting author: İrem Çemre TURU
Authors: İrem Çemre TURU (Yildiz Technical University, Istanbul, Turkey) / Murat DANISMAN (Istanbul Gedik University, Istanbul, Turkey) / Nurhan CANSEVER (Yildiz Technical University, Istanbul, Turkey)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: S. García-Vergara.
Presentation time: 12:25:00 PM
Abstract ID and Title: 211663, Effect of anodizing conditions on the micro-structure and corrosion resistance of commercially pure Ti and Ti6Al4V alloy
Presenting author: Maria Lekka
Authors: Maria Lekka (University of Udine, Udine, Italy) / Bruno Filipe Gomes Ribeiro (University of Udine, Udine, Italy) / Ruben Offioachi (University of Udine, Udine, Italy) / Elisa Salatin (LimaCorporate, Villanova di San Daniele del Friuli, Italy) / Lorenzo Fedrizzi (University of Udine, Udine, Italy)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: S. García-Vergara.
Presentation time: 12:45:00 PM
Abstract ID and Title: 219913, Influence of the sterilization process on the surface state of biomedical alloys
Presenting author: Anna Igual Munoz
Authors: Jean Ludovic Genilloud (EPFL, Lausanne, Switzerland) / Anna Igual Munoz (EPFL, Lausanne, Switzerland) / Stefano Mischler (EPFL, Lausanne, Switzerland)

13:05 - 14:00 Lunchtime

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: E. Matykina.
Presentation time: 2:00:00 PM
Abstract ID and Title: 231188, Anodized AZ91 magnesium alloy for temporary implants.
Presenting author: Silvia Cere
Authors: Silvia Cere (INTEMA- University of Mar del Plata-CONICET, Mar del Plata, Argentina) / Andrea Gomez Sanchez (CITVM – CONICET - National University of Villa Maria, Villa Maria., Villa Maria. Cordoba, Argentina) / Josefin Ballarre (INTEMA- CONICET- National University of Mar del Plata, Mar del Plata, Argentina) / Julieta Merlo (INTEMA- CONICET- National University of Mar del Plata , Mar del Plata, Argentina)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: E. Matykina.
Presentation time: 2:20:00 PM
Abstract ID and Title: 191247, The effect of small-molecule bio-relevant organic components at low concentration on the corrosion of commercially pure Mg and Mg-0.8Ca alloy: An overall perspective
Presenting author: Di Mei
Authors: Di Mei (Helmholtz-Zentrum Geesthacht, Geesthacht) / Svitalana Lamaka (Helmholtz-Zentrum Geesthacht, Geesthacht) / Switlana Amaka (Helmholtz-Zentrum Geesthacht, Geesthacht) / Christian Feiler (Helmholtz-Zentrum Geesthacht, Geesthacht) / Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht, Geestacht)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: E. Matykina.
Presentation time: 2:40:00 PM
Abstract ID and Title: 227184, Microstructure Modification by Electron Beam Processing in Magnesium Alloys to Control the Degradation Rate
Presenting author: Fatemeh Iranshahi
Authors: Fatemeh Iranshahi (Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria) / Ricardo Henrique buzzolin (Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria) / Fernando Gustavo Warchomik (Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria) / Christof Sommitsch (Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria)

Room and situation: Andalucia 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: E. Matykina.
Presentation time: 3:00:00 PM
Abstract ID and Title: 220331, Corrosion behavior of Mg1Zn1Ca and Mg3Zn0.3Ca for biomedical applications
Presenting author: Nuria Pulido González
Authors: Nuria Pulido González (University Rey Juan Carlos, Móstoles - Madrid, Spain) / Belén Torres Barreiro (University Rey Juan Carlos, Móstoles - Madrid, Spain) / Joaquín Rams Ramos (University Rey Juan Carlos, Móstoles - Madrid, Spain)
THURSDAY, SEPTEMBER 12

Room and situation: Andalucia 4+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: M.A. Arenas.
Presentation time: 10:10:00 AM
Abstract ID and Title: 193447, Corrosion study of Mg-Ca and Mg-Zn biomedical alloys in the Hanks solution
Presenting author: Iryna Kozina
Authors: Iryna Kozina (AGH University of Science and Technology, Krakow, Poland) / Maria Starowicz (AGH University of Science and Technology, Krakow, Poland) / Magdalena Kawalczak (AGH University of Science and Technology, Krakow, Poland) / Halina Krawiec (AGH University of Science and Technology, Krakow, Poland)

Room and situation: Andalucia 4+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: M.A. Arenas.
Presentation time: 10:30:00 AM
Abstract ID and Title: 220947, Study of the electrochemical behaviour of SLM and traditional CoCrMo alloys in simulated body fluids
Presenting author: Mahla Seyedi
Authors: Mahla Seyedi (Corrosion and Metallurgy Study Centre, Department of Engineering, University of Ferrara, Ferrara, Italy) / Andrea Balbo (Corrosion and Metallurgy Study Centre, Department of Engineering, University of Ferrara, Ferrara, Italy) / Federica Zanotto (Corrosion and Metallurgy Study Centre, Department of Engineering, University of Ferrara, Ferrara, Italy) / Erica Liverani (Department of Industrial Engineering, University of Bologna, Bologna, Italy) / Alessandro Fortunato (Department of Industrial Engineering, University of Bologna, Bologna, Italy) / Cecilia Monticelli (Corrosion and Metallurgy Study Centre, Department of Engineering, University of Ferrara, Ferrara, Italy)

Room and situation: Andalucia 4+7, Floor 0 (above Atrio III)
Session and Chair(s): Corrosion of Biomaterials (SOCIEMAT)/Chair: M.A. Arenas.
Presentation time: 10:50:00 AM
Abstract ID and Title: 223190, PEO coating on AZ31 magnesium alloy for bone implant applications
Presenting author: Joao Fernandes
Authors: Joao Fernandes (IST - University of Lisbon, Lisboa, Portugal) / Francisco Albuquerque (IST - University of Lisbon, Lisboa, Portugal)

20:30 Conference dinner
Effect of the presence of a controlled oxide on the hydrogen steel interaction assessed by an electrochemical

Authors: Feng huang (Wuhan university of science and technology , Wuhan, China PR) / YangYang Dong (Wuhan University of science and technology, Wuhan, China PR) / Pan Cheng (State Key Laboratory of Refractories and Metallurgy, Wuhan University of Science and Technology, Wuhan, China PR) / Xiaoyu Zhao (State Key Laboratory of Refractories and Metallurgy, Wuhan University of Science and Technology, Wuhan, China PR) / Jing Liu (State Key Laboratory of Refractories and Metallurgy, Wuhan University of Science and Technology, Wuhan, China PR)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WP5)/Chair: C. Bosch, D. Engelberg.
Presentation time: 10:55:00 AM
Abstract ID and Title: 177211, Effect of sulfide films formed on X65 steel surface on hydrogen permeation in H2S environments

Authors: Dong Wang (Norwegian University of Science and Technology, Trondheim, Norway) / Xu Lu (Norwegian University of Science and Technology, Trondheim, Norway) / Afrooz Barnoush (Norwegian University of Science and Technology, Trondheim, Norway)
Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: A. Oudriss, W. Siegl.
Presentation time: 2:20:00 PM
Abstract ID and Title: 211080, The effect of strain rate on the interaction between hydrogen and deformation-induced martensite in 304 austenitic stainless steel
Presenting author: Lisa Claey's
Authors: Lisa Claey's (Ghent University, Zwijnaarde, Belgium) / Amber Coone (Ghent University, Zwijnaarde, Belgium) / Tom Depover (Ghent University, Zwijnaarde, Belgium) / Iris De Graeve (Vrije Universiteit Brussel, Brussels, Belgium) / Kim Verbeken (Ghent University, Zwijnaarde, Belgium)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: A. Oudriss, W. Siegl.
Presentation time: 2:40:00 PM
Abstract ID and Title: 211234, The hydrogen trapping ability of Ti- and V-based carbides in tempered martensitic steels evaluated by gaseous hydrogen charging at elevated temperature
Presenting author: Liese Vandewalle
Authors: Liese Vandewalle (Department of Materials, Textiles and Chemical Engineering, Ghent University, Ghent, Belgium) / Vincent Cnockaert (Department of Materials, Textiles and Chemical Engineering, Ghent University, Ghent, Belgium) / Tom Depover (Department of Materials, Textiles and Chemical Engineering, Ghent University, Ghent, Belgium) / Kim Verbeken (Department of Materials, Textiles and Chemical Engineering, Ghent University, Ghent, Belgium)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: C. Ornek, F. Christien.
Presentation time: 3:00:00 PM
Abstract ID and Title: 193172, Effects of Mo and V on the Hydrogen Assisted Cracking of Tempered Martensitic Steels
Presenting author: Livia Cupertino-Malheiros
Authors: Livia Cupertino-Malheiros (Laboratoire des Sciences de l’Ingénieur pour l’Environnement (LaSIE) / Vallourec Research Center France, La Rochelle, France) / Daniella Guedes (Vallourec Research Center France, Aulnoye-Aymeries, France) / Abdelali Oudriss (Laboratoire des Sciences de l’Ingénieur pour l’Environnement, UMR CNRS 7356, La Rochelle, France) / Stéphane Cohendoz (Laboratoire des Sciences de l’Ingénieur pour l’Environnement, UMR CNRS 7356, La Rochelle, France) / Michel Piette (Vallourec Research Center France, Aulnoye-Aymeries, France) / Florian Thébault (Vallourec Research Center France, Aulnoye-Aymeries, France) / Jumaa Bouhattatte (Laboratoire des Sciences de l’Ingénieur pour l’Environnement, UMR CNRS 7356, La Rochelle, France) / Juan Creus (Laboratoire des Sciences de l’Ingénieur pour l’Environnement, UMR CNRS 7356, La Rochelle, France) / Xavier Feaugas (Laboratoire des Sciences de l’Ingénieur pour l’Environnement, UMR CNRS 7356, La Rochelle, France)

15:20 - 15:50 - Coffee break

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: C. Ornek, F. Christien.
Presentation time: 3:50:00 PM
Abstract ID and Title: 188981, Effect of interface characteristics of high Mn-TWIP/TRIP steels during hydrogen-induced delayed cracking
Presenting author: Hao Fu
Authors: Hao Fu (University of Science and Technology Beijing, Beijing, China PR) / Juxing Xu (University of Science and Technology Beijing, Beijing, China PR) / Jinxu Li (University of Science and Technology Beijing, Beijing, China PR) / Houdong Zhang (University of Science and Technology Beijing, Beijing, China PR) / Yingjie Yu (University of Science and Technology Beijing, Beijing, China PR)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: C. Ornek, F. Christien.
Presentation time: 4:10:00 PM
Abstract ID and Title: 230748, Contribution to the understanding of hydrogen-induced cracking of maraging steel 350
Presenting author: Cédric Bosch
Authors: Cédric Bosch (Mines Saint-Etienne, Saint-Etienne, Cedex 02, France) / Elia Tohme (Mines Saint-Etienne, Saint-Etienne, Cedex 02, France) / Vincent Barnier (Mines Saint-Etienne, Saint-Etienne, France) / Vincent Christien (Mines Saint-Etienne, Saint-Etienne, France) / Frédéric Christien (Mines Saint-Etienne, Saint-Etienne, France) / Virginie Coignard (Vallourec Research Center France, Aulnoye-Aymeries, France) / Krzysztof Wolski (Mines Saint-Etienne, Saint-Etienne, France)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: C. Ornek, F. Christien.
Presentation time: 4:30:00 PM
Abstract ID and Title: 191566, Effect of alloying elements and microstructure on the susceptibility to hydrogen embrittlement of martensitic high strength steels
Presenting author: Sören Trollst
Authors: Sören Trollst (TU Darmstadt, Center for Structural Materials, Darmstadt) / Holger Hoche (TU Darmstadt, Center for Structural Materials, Darmstadt) / Matthias Oechsner (TU Darmstadt, Center for Structural Materials, Darmstadt)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: C. Ornek, F. Christien.
Presentation time: 4:50:00 PM
Abstract ID and Title: 173306, Corrosion resistance of 17-4 PH stainless steel fabricated by selective laser melting
Presenting author: Michella Alnajjar
Authors: Michella Alnajjar (Mines Saint-Etienne, Univ Lyon, CNRS, UMR 5307 LGF, Centre SMS, Saint-Etienne, France) / Frédéric Christien (Mines Saint-Etienne, Univ Lyon, CNRS, UMR 5307 LGF, Centre SMS, Saint-Etienne, France) / Krzysztof Wolski (Mines Saint-Etienne, Univ Lyon, CNRS, UMR 5307 LGF, Centre SMS, Saint-Etienne, France) / Vincent Barnier (Mines Saint-Etienne, Univ Lyon, CNRS, UMR 5307 LGF, Centre SMS, Saint-Etienne, France)

EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain
Room and situation: Andalucía 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WPS)/Chair: C. Ornek, F. Christien.
Presentation time: 5:10:00 PM
Abstract ID and Title: 208242, Corrosion and stress corrosion cracking susceptibility of 17-4PH parts obtained by additive manufacturing
Presenting author: Nizar Guennouni
Authors: Nizar Guennouni (CETIM - CIRIMAT, Toulouse, France) / Dominique Poquill (CIRIMAT, Toulouse, France) / Daniel Maisonnette (CETIM, Saint-Etienne, France) / Jose Bolivar (CETIM, Nantes, France) / Christine Blanc (CIRIMAT, Toulouse, France)

20:30 Conference dinner

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: A. Sáez-Maderuelo.
Presentation time: 10:15:00 AM
Abstract ID and Title: 226403, Characterization of the corrosion and tribology under irradiation behaviour of a stainless steel
Presenting author: Bernard Normand
Authors: Philippe Martinet (INSA Lyon, Villeurbanne, France) / Sabrina Marcelin (INSA Lyon, Villeurbanne, France) / Nicolas Bererd (Université Lyon1, Villeurbanne, France) / Nathalie Moncoffre (IN2P3 - CNRS, Villeurbanne, France) / Benoit Ter-Ovanesian (INSA Lyon, Villeurbanne, France) / Dominique Baux (CNRS-CEMTHI, Orléans, France) / Bernard Normand (INSA Lyon, Villeurbanne, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: A. Sáez-Maderuelo.
Presentation time: 10:35:00 AM
Abstract ID and Title: 192842, Proton irradiation effects on the electron work function of austenitic stainless steel weld metal
Presenting author: Baolong Jiang
Authors: Baolong Jiang (University of Science and Technology Beijing, Beijing, China PR) / Lijie Qiao (University of Science and Technology Beijing, Beijing, China PR) / Qunjia Peng (Suzhou Nuclear Power Research Institute, Suzhou, China PR)

11:15 - 11:45 Coffee break

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: A. Sáez-Maderuelo.
Presentation time: 11:45:00 AM
Abstract ID and Title: 202852, A Study of Stress Corrosion Cracking by High-Speed Atomic Force Microscopy
Presenting author: Stacy Moore
Authors: Stacy Moore (University of Bristol, Bristol, United Kingdom) / Robert Burrows (National Nuclear Laboratory, Stonehouse, United Kingdom) / Tomas Martin (University of Bristol, Bristol, United Kingdom) / Loren Pico (Virginia Commonwealth University, Richmond, United States of America) / Thomas Scott (University of Bristol, Bristol, United Kingdom) / Oliver Payton (University of Bristol, Bristol, United Kingdom)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: D. Engelberg, A. Treichel.
Presentation time: 12:05:00 PM
Abstract ID and Title: 215480, Effect of surface preparation on oxidation of austenitic SS 304L in high temperature water
Presenting author: Annesha Das
Authors: Annesha Das (Homi Bhabha National Institute, Bhabha Atomic Research Centre, Mumbai, India) / Supratik Roychowdhury (Bhabha Atomic Research Centre, Mumbai, India) / Vivekanand Kain (Bhabha Atomic Research Centre, Mumbai, India)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: D. Engelberg, A. Treichel.
Presentation time: 12:25:00 PM
Abstract ID and Title: 206372, Corrosion protection of a carbon steel in nuclear power plant secondary circuit conditions by film-forming amines: an impedance study
Presenting author: Nadine Pèbère
Authors: Jordan Baux (University Toulouse, CIRIMAT - ENSIACET, Toulouse, France) / Nicolas Caussé (University Toulouse, CIRIMAT - ENSIACET, Toulouse, France) / Sophie Delaunay (EDF, Moret-sur-Loing, France) / Jonathan Tireau (EDF, Moret-sur-Loing, France) / Marion Roy (DEN - CEA, University Paris-Saclay, Gif-sur-Yvette, France) / Dominique You (DEN - CEA, University Paris-Saclay, Gif-sur-Yvette, France) / Nadine Pèbère (University Toulouse, CIRIMAT - ENSIACET, Toulouse, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: D. Engelberg, A. Treichel.
Presentation time: 12:45:00 PM
Abstract ID and Title: 214369, STUDY OF THE INFLUENCE OF MICROSTRUCTURE AND INTERGRANULAR CARBIDES ON THE CRACKING BEHAVIOR OF A NICKEL BASE ALLOY 690 TT BY MEANS OF IN SITU TESTS
Presenting author: Alberto Sáez-Maderuelo
Authors: Alberto Sáez-Maderuelo (CIEMAT, Madrid, Spain) / Hygreeva Nambari (CVR, Rez, Czech Republic) / Patricie Halodova (CVR, Rez, Czech Republic) / Ondrej Libera (CVR, Rez, Czech Republic) / Michal Chocholousek (CVR, Pilsen, Czech Republic) / Jan Prochazka (CVR, Rez, Czech Republic) / Francisco Javier Perosanz (CIEMAT, Madrid, Spain) / Dolores Gómez-Briceño (CIEMAT, Madrid, Spain)
13:05 - 14:00 Lunchtime

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: B. Zajec, S. Moore.
Presentation time: 2:00:00 PM
Abstract ID and Title: 209375, Intergranular corrosion of austenitic stainless steels in oxidizing nitric media
Presenting author: Adrien Emery
Authors: Adrien Emery (CEA Saclay, Gif-sur-Yvette, France) / Cecile Duhamel (Mines ParisTech, Evry, France) / Vladimir Esin (Mines ParisTech, Evry, France) / Jerome Crepin (Mines ParisTech, Evry, France) / Pierre Laghoutaris (CEA, Saclay, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: B. Zajec, S. Moore.
Presentation time: 2:20:00 PM
Abstract ID and Title: 187936, Kinetics and mechanisms of Plutonium oxidation at different temperatures
Presenting author: Nicolas Favart
Authors: Nicolas Favart (CEA, Is-sur-Tille, France) / Brice Ravat (CEA, Is sur Tille, France) / Lionel Jolly (CEA, Is sur Tille, France) / Lilian Berlu (CEA, Is sur Tille, France) / Benoit Oudot (CEA, Is sur Tille, France) / Francois Delaunay (CEA, Is sur Tille, France) / Ioana Popa (ICB UMR, Dijon, France) / Sebastien Chevalier (ICB UMR, Dijon, France)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: B. Zajec, S. Moore.
Presentation time: 2:40:00 PM
Abstract ID and Title: 176540, The accelerated corrosion of carbon steel in air-solution alternating condition
Presenting author: Kyohoi Otani
Authors: Kyohoi Otani (Japan Atomic Energy Agency, Ibaraki, Japan) / Takashi Tsukada (Japan Atomic Energy Agency, Tokai-mura, Ibaraki, Japan) / Hiroshi Terakado (Japan Atomic Energy Agency, Tokai-mura, Ibaraki, Japan) / Koei Ebata (Japan Atomic Energy Agency, Tokai-mura, Ibaraki, Japan) / Fumiyoshi Ueno (Japan Atomic Energy Agency, Tokai-mura, Ibaraki, Japan)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: B. Zajec, S. Moore.
Presentation time: 3:00:00 PM
Abstract ID and Title: 180720, Passivity breakdown of Ni-Cr-Fe alloys in chloride plus thiosulfate solutions at the open circuit potential
Presenting author: Abraham A. Becerra Araneda

15:20 - 15:50 - Coffee break

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: L. Martinelli, S. Ritter.
Presentation time: 3:50:00 PM
Abstract ID and Title: 211201, Corrosion evaluation by electrochemical techniques of the liner structure in nuclear power plants: A case study
Presenting author: Isabel Martinez Sierra
Authors: Isabel Martinez Sierra (CSIC, MADRID, Spain) / ANGEL CASTILLO TALAVERA (CSIC, MADRID, Spain)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: L. Martinelli, S. Ritter.
Presentation time: 4:10:00 PM
Abstract ID and Title: 198771, Evaluation of Corrosion Attack at homogeneous weld joint of austenitic pipe and flange
Presenting author: Dana Tonomova
Authors: Dana Tonomova (UJV Rez, a. s., Husinec-Rez, Czech Republic) / Petr Brabec (UJV Rez, a. s., Husinec-Rez, Czech Republic)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): Nuclear Corrosion (WP4)/Chair: L. Martinelli, S. Ritter.
Presentation time: 4:30:00 PM
Abstract ID and Title: 219638, Corrosion Mechanisms of T91 (Fe-9Cr) Steel in Pb-Bi Eutectic Alloy aided by Thermodynamic Calculations: Effect of Oxygen
Presenting author: Stéphane Gossé
Authors: Stéphane Gossé (CEA, Gif-sur-Yvette, France) / Laure Martinelli (CEA Saclay, Gif-sur-Yvette, France) / Kevin Ginestar (CEA Saclay, Gif-sur-Yvette, France)

20:30 Conference dinner
Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Leygraf.
Presentation time: 2:40:00 PM
Abstract ID and Title: 223730, In situ atomic force microscopy (AFM) analysis of materials under combined corrosive and mechanical load
Presenting author: Ozlem Ozcan
Authors: Julia Witt (Federal Institute for Materials Research and Testing (BAM), Berlin) / Marina Fernandes Jamar (CEFET-MG - Centro Federal de Educação Tecnológica de Minas Gerais, Belo Horizonte, Brazil) / Daniel Stepień (University of Warsaw, Warsaw, Poland) / Ozlem Ozcan (Federal Institute for Materials Research and Testing (BAM), Berlin)

15:20 - 15:50 - Coffee break

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Rohwerder.
Presentation time: 3:50:00 PM
Abstract ID and Title: 178795, Study of the effect of the addition of Bis[2-hydroxyethyl]ammonium salicylate ionic liquid on the corrosion of Magnesium alloys in saline solutions
Presenting author: Ana Eva Jiménez Ballesta
Authors: Ana Eva Jiménez Ballesta (Universidad Politécnica de Cartagena, Cartagena, Spain) / Joaquín Arias Pardilla (Universidad Politécnica de Cartagena, Cartagena, Spain) / María Dolores Bermúdez Olivares (Universidad Politécnica de Cartagena, Cartagena, Spain)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Rohwerder.
Presentation time: 4:10:00 PM
Abstract ID and Title: 209331, Mechanisms by Which Zinc Phosphate Inhibits Cathodic Disbondment in Organically Coated Zinc
Presenting author: Hamilton Neil McMurray
Authors: Hamilton Neil McMurray (Swansea University, Swansea, United Kingdom) / Geraint Williams (Swansea University, Swansea, United Kingdom) / Christian Griffiths (Swansea University, Swansea, United Kingdom)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Rohwerder.
Presentation time: 4:30:00 PM
Abstract ID and Title: 195020, Protection of cut edge steel by zinc-55wt. % aluminium coating-influence of magnesium aluminium polyphosphate inhibitor
Presenting author: Yanwen Liu
Authors: Yanwen Liu (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) / Michele Curioni (Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester, United Kingdom) / Simon Gibbon (AkzoNobel, AkzoNobel, Gateshead, United Kingdom) / Derek Graham (AkzoNobel, Gateshead, United Kingdom) / Viktoria Slattery (AkzoNobel, Strongsville, United States of America) / Lauren Vilt (AkzoNobel, Strongsville, United States of America) / Jerry Mach (AkzoNobel, Victoria, Australia)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Rohwerder.
Presentation time: 5:10:00 PM
Abstract ID and Title: 197143, EIS analysis of oxygen reduction on sputtered ZnO films
Presenting author: Bernard Tribollet
Authors: Bernard Tribollet (UMR8235 CNRS UPMC, Paris Cedex 05, France) / Josiane Soares Costa (French Corrosion Institute, Brest, France) / Michel Prestat (French Corrosion Institute, Brest, France) / Dominique Thierry (French Corrosion Institute, Brest, France) / Benoit Lescop (Bretagne Occidentale Université, Brest, France) / Stephane Rioual (Bretagne Occidentale Université, Brest, France) / Lorenz Holzer (Zurich University of Applied Sciences, Winterthur, Switzerland)

20:30 Conference dinner

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szała, Nilsson.
Presentation time: 10:15:00 AM
Abstract ID and Title: 179741, Fatigue Corrosion of Multimaterial Concepts
Presenting author: Nathalie LeBozec
Authors: Nathalie LeBozec (French Corrosion Institute, Brest, France) / Flavien Vucko (French Corrosion Institute, Brest, France) / Dominique Thierry (French Corrosion Institute, Brest, France)

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szała, Nilsson.
Presentation time: 10:35:00 AM
Abstract ID and Title: 218703, The impact of corrosion on adhesive bonded aluminium for use within the automotive Industry
Presenting author: Carolina Schneiker
Authors: Carolina Schneiker (Rise Kimab AB, Kista, Sweden) / Bo Rendahl (Rise Kimab AB, Kista, Sweden)


**EUROCORR 2019 The Annual Congress of the European Federation of Corrosion September 9-13, 2019 Seville, Spain**

**Room and situation:** Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
**Session and Chair(s):** Automotive Corrosion (WP17)/Chair: Szala, Nilsson.  
**Presentation time:** 10:55:00 AM  
**Abstract ID and Title:** 204062, Comparison of Test Methods used to Analyze Stress Corrosion Cracking of Differently Tempered 7075 Aluminium Alloy  
**Presenting author:** Neeta Magaji  
**Authors:** Neeta Magaji (Daimler AG, Sindelfingen) / Robert Mayrhofer (Daimler AG, Sindelfingen) / Benjamin Kröger (Steinbeis-Transferzentrum Werkstoffe Korrosion und Korrosionsschutz GmbH, Friedrichshafen) / Christian Schnatterer (RWTH Aachen University, Aachen) / Dr. Daniela Zander (RWTH Aachen University, Aachen)  

11:15 - 11:45 Coffee break

**Room and situation:** Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
**Session and Chair(s):** Automotive Corrosion (WP17)/Chair: Szala, Nilsson.  
**Presentation time:** 11:45:00 AM  
**Abstract ID and Title:** 193964, Corrosion Behavior of Embossed Aluminium Surfaces in Inner Grooved tubes  
**Presenting author:** Giorgio Zaffaroni  
**Authors:** Giorgio Zaffaroni (Technical University of Denmark, Kgs. Lyngby, Denmark) / Rajan Ambat (Technical University of Denmark, Kgs. Lyngby, Denmark) / Simone Laganà (Technical University of Denmark, Kgs. Lyngby, Denmark) / Carsten Gundlach (Technical University of Denmark, Kgs. Lyngby, Denmark) / Visweswara Chakravarthy Gudla (Technical University of Denmark, Kgs. Lyngby, Denmark) / Jan Halvor Nordlien (Norsk Hydro, Håvik, Norway)

**Room and situation:** Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
**Session and Chair(s):** Automotive Corrosion (WP17)/Chair: Szala, Nilsson.  
**Presentation time:** 12:05:00 PM  
**Abstract ID and Title:** 230044, Intergranular corrosion susceptibility for Al–Mn–Cu alloys heat treated after brazing  
**Presenting author:** Yoshiyuki Oya  
**Authors:** Yoshiyuki Oya (UACJ Corporation, Nagoya, Japan)

**Room and situation:** Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
**Session and Chair(s):** Automotive Corrosion (WP17)/Chair: Szala, Nilsson.  
**Presentation time:** 12:25:00 PM  
**Abstract ID and Title:** 188409, Reliability corrosion test development for air conditioning condenser  
**Presenting author:** MARYSE Philippe  
**Authors:** MARYSE Philippe (VALEO, La suze sur sarthe, France) / Christian Casenave (VALEO, La Suze sur Sarthe, France) / Alfy Bele Zata (va lemon, La verriere, France) / Anne- Gaelle Noumet Villemiane (VALEO, La Verriere, France) / Vincent Renault (VALEO, La Verriere, France)

13:05 - 14:00 Lunchtime

**Room and situation:** Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
**Session and Chair(s):** Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
**Presentation time:** 2:00:00 PM  
**Abstract ID and Title:** 222256, Zn flake coatings as high performance corrosion protection in the Automotive Industry  
**Presenting author:** Arthur Boidot  
**Authors:** Arthur Boidot (NOF METALCOATINGS EUROPE, Creil, France) / Benoit Millet (NOF METALCOATINGS EUROPE, Creil, France) / Pascal Nicolas (NOF METALCOATINGS EUROPE, Creil, France) / Takahiko Ohtani (NOF METALCOATINGS ASIA PACIFIC, YOKOHAMA, Japan)

**Room and situation:** Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
**Session and Chair(s):** Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
**Presentation time:** 2:20:00 PM  
**Abstract ID and Title:** 184834, Control of stiction phenomena in brake systems  
**Presenting author:** Francesco Andreatta  
**Authors:** Francesco Andreatta (University of Udine, Udine, Italy) / Andrea Isoardi (ITT Motion Technology, Barge, Italy) / Agusti Sin (ITT Motion Technology, Barge, Italy) / Lorenzo Fedrizzi (University of Udine, Udine, Italy)

**Room and situation:** Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
**Session and Chair(s):** Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
**Presentation time:** 2:40:00 PM  
**Abstract ID and Title:** 175638, Generalized Mechanism of pseudo Hydrogen peak often appearing at around 300 to 400 degree Celsius in steel measured by Thermal Desorption Spectroscopy  
**Presenting author:** Yasuhide Ishiguro  
**Authors:** Yasuhide Ishiguro (JFE Steel Corporation, Handa, Aichi, Japan) / Katsuya Hoshino (JFE Steel Corporation, Fukuyama, Hiroshima, Japan)
THURSDAY, SEPTEMBER 12

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
Presentation time: 3:00:00 PM  
Abstract ID and Title: 216943, The effect of thermomechanical treatments on the corrosion resistance of AA 6082 alloy. EIS characterization  
Presenting author: Sara Valverde Pérez  
Authors: Sara Valverde Pérez (Universidade de Vigo, Vigo, Spain) / David Álvarez González (Universidade de Vigo, Vigo, Spain) / X. Ramón Nóvoa (Universidade de Vigo, Vigo, Spain) / Salvador Pérez Betanzos (Cie GALFOR, Ourense, Spain) / Manuel Román Caldelas (Cie GALFOR, Ourense, Spain)  

15:20 - 15:50 - Coffee break

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
Presentation time: 3:00:00 PM  
Abstract ID and Title: 215810, The effect of quench cracks on the interaction between hydrogen and martensitic steels  
Presenting author: Margot Pinson  
Authors: Margot Pinson (Ghent University, Ghent, Belgium) / Tom Depover (Ghent University, Ghent, Belgium) / Kim Verbeken (Ghent University, Ghent, Belgium) / Hauke springer (Max Planck Institut für Eisenforschung, Düsseldorf)  

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
Presentation time: 3:50:00 PM  
Abstract ID and Title: 191785, Galvanic Corrosion Investigation of Aluminum Steel Interference on Automotive Application  
Presenting author: Ozak Durmus  
Authors: Ozak Durmus (Ford Otosan, Istanbul, Turkey) / Arda Kucuksari (Ford Otosan, Istanbul, Turkey) / Mustafa Basaran (Ford Otosan, Istanbul, Turkey)  

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
Presentation time: 4:10:00 PM  
Abstract ID and Title: 185362, Investigation of Corrosion property and Dross formation behavior of ZnMgAl Hot-dip galvanized steel sheet  
Presenting author: Tae Chul Kim  
Authors: Tae Chul Kim (POSCO, Gwangyang, Korea, South) / li-young Sohn (Posco, Gwangyang, Korea, South) / Jong Sang Kim (Posco, Gwangyang, Korea, South) / Ho Jong Lee (Sunchon National University, Sunchon, Korea, South)  

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Automotive Corrosion (WP17)/Chair: Szala, Rougier.  
Presentation time: 4:30:00 PM  
Abstract ID and Title: 193535, Atmospheric corrosion behavior of carbon steel in snowy cold region  
Presenting author: Hideki Katayama  
Authors: Hideki Katayama (National Institute for Materials Science, Tsukuba, Japan)  

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Kreislova.  
Presentation time: 10:15:00 AM  
Abstract ID and Title: 204975, Influence of Holding time on the corrosion behavior of Hot Rolled Strip in Beijing natural environment  
Presenting author: Feifan Xu  
Authors: Feifan Xu (Shougang Research Institute of Technology, Beijing, China PR)  

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Kreislova.  
Presentation time: 10:35:00 AM  
Abstract ID and Title: 181897, Effect of alloy elements on the corrosion resistance of weathering steel using support vector regression  
Presenting author: Luchun Yan  
Authors: Luchun Yan (University of Science and Technology Beijing, Beijing, China PR) / Keweii Gao (University of Science and Technology Beijing, Beijing, China PR)  

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Friedersdorf.  
Presentation time: 11:15:00 AM  
Abstract ID and Title: 214160, Influence of the artificial patination on the atmospheric corrosion of Weathering Steel  
Presenting author: Ana Crespo  
Authors: Ana Crespo (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Delphine Neff (Commissariat à l’énergie atomique et aux énergies alternatives, Saclay, France) / Iván Díaz (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Emilio Cano (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain)  

11:15 - 11:45 Coffee break

Room and situation: Giralda, Floor -1 / Floor 0 (between Atrio III and Atrio I)  
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Friedersdorf.  
Presentation time: 11:45:00 AM  
Abstract ID and Title: 214160, Influence of the artificial patination on the atmospheric corrosion of Weathering Steel  
Presenting author: Ana Crespo  
Authors: Ana Crespo (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Delphine Neff (Commissariat à l’énergie atomique et aux énergies alternatives, Saclay, France) / Iván Díaz (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Emilio Cano (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019, Seville, Spain

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Friedersdorf.
Presentation time: 12:05:00 PM
Abstract and Title: 179576, Synchrotron X-ray tomography observation of rust layer on weathering steel exposed for 9 years at a seaside industrial area
Presenting author: Shunichi Tachibana
Authors: Shunichi Tachibana (JFE Steel Corporation, Kurashiki, Japan) / Biao Cai (University of Birmingham, Birmingham, United Kingdom) / Alison Davenport (University of Birmingham, Birmingham, United Kingdom) / Shinichi Miura (JFE Steel Corporation, Kurashiki, Japan) / Hongchang Wang (Diamond Light Source Ltd., Didcot, United Kingdom) / Igor Dolbnya (Diamond Light Source Ltd., Didcot, United Kingdom)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Friedersdorf.
Presentation time: 12:25:00 PM
Abstract and Title: 178619, Further corrosion behavior of weathering steels after their rust layers damaged
Presenting author: Shanwu Yang
Authors: Shanwu Yang (University of Science and Technology Beijing, Beijing, China PR) / Lujun Zhou (University of Science and Technology Beijing, Beijing, China PR)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): Atmospheric Corrosion (TF)/Chair: Friedersdorf.
Presentation time: 12:45:00 PM
Abstract and Title: 206493, Accelerated corrosion test and long-term exposure test results of steel for painting
Presenting author: Fumio Yuse
Authors: Fumio Yuse (Materials Research Laboratory, Kobe Steel, LTD., Kobe, HYOGO, , Japan) / Masahiro MATSUSHITA (Steel development section Kakogawa works, Kobe Steel, LTD., Osaka, Osaka, Japan)

13:05 - 14:00 Lunchtime

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair: .
Presentation time: 2:00:00 PM
Abstract and Title: 212587, Classification of atmospheric stress corrosion cracking and general corrosion resistance of climbing anchors
Presenting author: Tomas Prosek
Authors: Tomas Prosek (University of Chemistry and Technology, Prague, Czech Republic) / Lionel Kiener (International Climbing and Mountaineering Federation (UIAA), Bern, Switzerland)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair:.
Presentation time: 2:20:00 PM
Abstract and Title: 221442, Accelerated AISCC Testing - From Pit Nucleation, Pit-to-Crack Transition, to In-situ Crack Growth Rate Measurements
Presenting author: Dirk Engelberg
Authors: Dirk Engelberg (The University of Manchester, Manchester, United Kingdom) / Cem Oernek (KTH Royal Institute of Technology, Stockholm, Sweden)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair:.
Presentation time: 2:40:00 PM
Abstract and Title: 203061, Atmospheric Corrosion and Stress Corrosion Cracking of Stainless Steels Understanding the Evolution of Corrosion/ Cracking and Threshold Parameters
Presenting author: Cem Örnek
Authors: Cem Örnek (KTH Royal Institute of Technology, Stockholm, Sweden) / Dirk Lars Engelberg (University of Manchester, Manchester, United Kingdom)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair:.
Presentation time: 3:00:00 PM
Abstract and Title: 222410, Small Crack Growth from Pits in 316L Stainless Steel in Simulated Atmospheric Exposure
Presenting author: Yue Zhang
Authors: Yue Zhang (National Physical Laboratory, Teddington, United Kingdom) / Cristiano Padovani (Wood, Harwell Campus, Oxfordshire, OX11 OQB, United Kingdom) / Angus Cook (Wood, Harwell Campus, Oxfordshire, OX11 OQB, United Kingdom) / Zhengai Zhou (National Physical Laboratory, Teddington, TW11 0LW, United Kingdom) / Alan Turnbull (National Physical Laboratory, Teddington, TW11 0LW, United Kingdom)

15:20 - 15:50 - Coffee break

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session and Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair:.
Presentation time: 3:50:00 PM
Abstract and Title: 199079, Towards Understanding the Effect of Residual Stress on Atmospheric Chloride-Induced Stress Corrosion Cracking of Austenitic Stainless Steels
Presenting author: Carlos Sanchez
Authors: Carlos Sanchez (The Health and Safety Executive (HSE), Buxton , United Kingdom) / Marianne Loo-Morrey (The Health and Safety Executive (HSE), Buxton, United Kingdom) / Dirk Engelberg (The University of Manchester, Manchester, United Kingdom)
Quantitative analysis of Prolixibacter, which accommodating with iron-corroding nitrate-reducing bacteria, in microbial mats, brines and seawater.

**Presenting author:** Takao lino

**Authors:** Takao lino (RIKEN BioResource Research Center, 3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan) / Kimio Ito (Advanced Technology Research Laboratories, Nippon Steel & Sumitomo Metal Corporation, 20-1 Shintomi, Futsutsu, Chiba 293-8511, Japan) / Chol Gyu Lee (Japan Collection of Microorganisms, RIKEN BioResource Research Center, 3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan) / Toshiyuki Sunaba (Materials & Corrosion Group, Technical Research Center, INPEX Corporation, 9-23-30 Kitakarasuyama, Setagaya, Tokyo 157-0061, Japan) / Moriya Ohkuma (Japan Collection of Microorganisms, RIKEN BioResource Research Center, 3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan)

**11:15 - 11:45 Coffee break**

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Microbial Corrosion (WP10)/Chair: Basseguy.

**Presentation time:** 11:45:00 AM

**Abstract ID and Title:** 204370, Microbially Induced Corrosion Phenomena in Danube Cooling Water System

**Presenting author:** Elke Ludwig

**Authors:** Elke Ludwig (Borealis Agrolinz Melamine, Linz, Austria) / Matthias Gierlinger (Borealis Polyolefine, Linz, Austria) / Markus Grossalber (Borealis Polyolefine, Linz, Austria) / Lubomir Krabac (Borealis Polyolefine, Linz, Austria) / Michael Baak (Borealis Agrolinz Melamine, Linz, Austria)

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Microbial Corrosion (WP10)/Chair: Basseguy.

**Presentation time:** 12:05:00 PM

**Abstract ID and Title:** 184086, Relevance of galvanic corrosion for biohydrometallurgical processing

**Presenting author:** Christoph Tanne

**Authors:** Christoph Tanne (Federal Institute for Geosciences and Natural Resources (BGR), Hannover) / Axel Schippers (Federal Institute for Geosciences and Natural Resources (BGR), Hannover)

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Microbial Corrosion (WP10)/Chair: Basseguy.

**Presentation time:** 12:25:00 PM

**Abstract ID and Title:** 225732, Premature Failure of 316L Stainless Steel Pipes Due to MIC

**Presenting author:** Mohammed Al Muaisub

**Authors:** Mohammed Al Muaisub (Saudi Aramco, Dhahran, Saudi Arabia) / Akram Alfantazi (Khalifa University of Science and Technology, Abu Dhabi, United Arab Emirates) / Edouard Asselin (The University of British Columbia, Vancouver, Canada)

**Room and situation:** Cartuja, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** Microbial Corrosion (WP10)/Chair: Basseguy.

**Presentation time:** 12:45:00 PM

**Abstract ID and Title:** 233751, Application of ToF-SIMS for sulfur isotopic fractionation in sulfide phases of iron corrosion layers: determination of bacterial impact on the formation of these phases

**Presenting author:** Florence Mercier-Bion

**Authors:** Florence Mercier-Bion (Laboratoire Archéomatériaux et Prévision de l’Altération/NIMBE-UMR 3685 CEA-CNRS, CEA Saclay, 91191 Gif-sur-Yvette, France) / Nicolas NUNS (Univ. Lille, CNRS, INRA, Centrale Lille, ENSCL, Univ. Artois, FR 2638 - IMEC - Institut Michel-Eugène Chevreul, Lille, France) / Delphine NEFF (Laboratoire Archéomatériaux et Prévision de l’Altération/NIMBE-UMR 3685 CEA-CNRS, CEA Saclay, 91191 Gif-sur-Yvette, France) / Laurent URIOS (IPREM, Univ. de Pau et des Pays de l’Adour, 64000 Pau, France) / Jean-Paul GALLIEN (Laboratoire Archéomatériaux et Prévision de l’Altération/NIMBE-UMR 3685 CEA-CNRS, CEA Saclay, 91191 Gif-sur-Yvette, France) / Philippe DILLMANN (Laboratoire Archéomatériaux et Prévision de l’Altération/NIMBE-UMR 3685 CEA-CNRS, CEA Saclay, 91191 Gif-sur-Yvette, France) / Delphine NEFF (Laboratoire Archéomatériaux et Prévision de l’Altération/NIMBE-UMR 3685 CEA-CNRS, CEA Saclay, 91191 Gif-sur-Yvette, France)
FRIDAY, SEPTEMBER 13, 2019: LECTURES

FRIDAY, SEPTEMBER 13, 2019: LECTURES

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
Presentation time: 09:00:00 AM
Plenary Session: Plenary Lecture: Prof. Xose Ramón Novoa- “Durable reinforced concrete structures. Some electrochemical aspects”

09:45 – 10:15 Break to visit Exhibitors

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 10:15:00 AM
Abstract ID and Title: 203556, Temperature dependent corrosion resistance of water based coatings
Presenting author: Bob Luigjes
Authors: Bob Luigjes (AkzoNobel, Sassenheim, Netherlands)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 10:35:00 AM
Abstract ID and Title: 231969, Evaluating the Corrosion protection performance of Epoxy Nanocomposite Coatings through Micro Electrochemical Methods
Presenting author: Arumugam Madhan Kumar
Authors: Arumugam Madhan Kumar (King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Organic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 10:55:00 AM
Abstract ID and Title: 218736, Life cycle cost calculation of high durability coating systems considering the ISO 12944 standard
Presenting author: Kenichiro Yamauchi
Authors: Kenichiro Yamauchi (DNT, Ohtawara, Japan) / Tsuyoshi Miyashita (DNT, Ohtawara, Japan) / Hiroyuki Tanabe (DNT, Ohtawara, Japan) / Svend Johnsen (Johnsen Global Consultant, Copenhagen, Denmark)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Inorganic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 11:45:00 AM
Abstract ID and Title: 179653, Sealing of anodized aluminium by ZrO2 nanoparticles for increased alkali resistance
Presenting author: Adrian Anthes
Authors: Adrian Anthes (DEHEMA-Forschungsinstitut, Frankfurt am Main) / Wolfram Fürbeth (DEHEMA-Forschungsinstitut, Frankfurt am Main) / Christoph Lämmel (Fraunhofer IKTS, Dresden) / Michael Schneider (Fraunhofer IKTS, Dresden)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Inorganic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 12:05:00 PM
Abstract ID and Title: 222751, Assessment of hybrid silica coatings (SiO2) doped with nano charges used as protective multifunctional barriers against corrosion and wear processes in AZ31B Magnesium alloy
Presenting author: Juan Pablo Fernández-Hernán
Authors: Juan Pablo Fernández-Hernán (Universidad Rey Juan Carlos, Móstoles, Spain) / Antonio Julio López (Universidad Rey Juan Carlos, Móstoles, Spain) / Belén Torres (Universidad Rey Juan Carlos, Móstoles, Spain) / Joaquín Rams (Universidad Rey Juan Carlos, Móstoles, Spain)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Inorganic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 12:25:00 PM
Abstract ID and Title: 223994, Corrosion Resistance of Nanostructured Zinc Oxide Films at Adhesive/Zinc Alloy Interfaces
Presenting author: Richard Grothe
Authors: Richard Grothe (Phd Graduate / Technical and Macromolecular Chemistry, University of Paderborn, Paderborn) / Dennis Meinderink (Phd Graduate / Technical and Macromolecular Chemistry, University of Paderborn, Paderborn) / Jan Striewe (Phd Graduate / Automotive Lightweight Design, University of Paderborn, Paderborn) / Jannik Kowitz (Phd Graduate / Material and Joining Technology, University of Paderborn, Paderborn) / Thomas Tröster (Head of Automotive Lightweight Design, University of Paderborn, Paderborn) / Gerson Meschut (Head of Material and Joining Technology, University of Paderborn, Paderborn) / Guido Grundmeier (Head of Technical and Macromolecular Chemistry, University of Paderborn, Paderborn)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Inorganic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 12:45:00 PM
Abstract ID and Title: 229043, Shipbuilding: Welding Aspects in the Presence of Shop Primer
Presenting author: Isabel Margarit-Mattos
Authors: Alexandre Marinho (UFRJ, Rio de Janeiro, Brazil) / Isabel Margarit-Mattos (UFRJ, Rio de Janeiro, Brazil) / Kioshy Assis (UFRJ, Rio de Janeiro, Brazil) / Sebastião Alves (Tintas Vinci, Rio de Janeiro, Brazil)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Inorganic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 1:05:00 PM
Abstract ID and Title: 227668, ALD films deposited on metallic substrates for corrosion protection
Presenting author: Marco Oliveira
Authors: Marco Oliveira (University of Aveiro, Aveiro, Portugal) / Tiago Silva (University of Aveiro, Aveiro, Portugal) / Ricardo Silva (University of Aveiro, Aveiro, Portugal) / Kyril Yasakau (University of Aveiro, Aveiro, Portugal) / Alexandre Bastos (University of Aveiro, University of Aveiro, Portugal) / Silvar Kallip (University of Tartu, Estonia) / Augusto Lopes (University of Aveiro, Aveiro, Portugal) / Rui Silva (University of Aveiro, Aveiro, Portugal) / Mikhail Zheludkevic (Helmholtz-Zentrum Geesthacht, Geesthacht) / Mário Ferreira (University of Aveiro, Aveiro, Portugal)

Room and situation: Sevilla 1, Floor 0 (foyer)
Session and Chair(s): Inorganic Coatings (WP14)/Chair: W. Fürbeth, R. Novoa.
Presentation time: 1:25:00 PM
Abstract ID and Title: 192435, FUNDAMENTAL MECHANISM OF METAL DEPOSITION MEDIATED BY POLYAMIDES
Presenting author: Gastelle F. Tiétcha
Authors: Gastelle F. Tiétcha (Dörken MKS-Systeme GmbH & Co. KG, Herdecke, Ruhr) / Laura Mears (Technische Universität Wien, Institute of Applied Physics, Vienna, Austria) / Ingo Küppel (Dörken MKS-Systeme GmbH & Co. KG, Herdecke) / Marcel Roth (Dörken MKS-Systeme GmbH & Co. KG, Herdecke) / Markus Valtiner (Technische Universität Wien, Institute of Applied Physics, Vienna, Austria)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: De Graeve.
Presentation time: 10:15:00 AM
Abstract ID and Title: 207703, Correlation between microstructure and corrosion behaviour of power bed laser beam melting 17-4PH stainless steel
Presenting author: Adrien Barroux
Authors: Adrien Barroux (CIRIMAT, Université de Toulouse, CNRS, INSAET, Toulouse, France) / Nadège Ducommun (CETIM, Pôle Matériaux Métalliques et Surfaces, Nantes, France) / Eric Nivet (CETIM, Pôle Matériaux Métalliques et Surfaces, Nantes, France) / Lydia Laffont (CIRIMAT, Université de Toulouse, CNRS, INSAET, Toulouse, France) / Christine Blanc (CIRIMAT, Université de Toulouse, CNRS, INSAET, Toulouse, France)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: De Graeve.
Presentation time: 10:35:00 AM
Abstract ID and Title: 230374, Corrosion behaviour of stainless steel 420 manufactured by Selective Laser Melting
Presenting author: Mengyan Nie
Authors: Mengyan Nie (Institute for Materials Discovery, University College London, London, United Kingdom) / Xiao Zhao (Faculty of Engineering and Physical Sciences, University of Southampton, Southampton, United Kingdom) / Kwang-Leong Choy (Institute for Materials Discovery, University College London, London, United Kingdom) / Muhammed Shariq Enver (Institute for Materials Discovery, University College London, London, United Kingdom) / Shijie Zhang (Institute for Materials Discovery, University College London, London, United Kingdom)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: De Graeve.
Presentation time: 10:55:00 AM
Abstract ID and Title: 184273, Effect of heat treatment on microstructure, mechanical properties and corrosion behavior of selective laser melted 15-5PH steel
Presenting author: Li Wang
Authors: Li Wang (University of Science and Technology Beijing, Beijing, China PR) / Chaofang Dong (University of Science and Technology Beijing, Beijing, China PR) / Xiaogang Li (University of Science and Technology Beijing, Beijing, China PR) / Xiaogang Li (University of Science and Technology Beijing, Beijing, China PR)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Vignal.
Presentation time: 11:45:00 AM
Abstract ID and Title: 185098, Effect of thermal treatment on microstructure and corrosion behaviour of 316L stainless steel manufactured by selective laser melting
Presenting author: Lorenzo Fedrizzi
Authors: Francesco Andreatta (University of Udine, Udine, Italy) / Reynier Inocente Revilla Castillo (Vrije Universiteit Brussel, Brussel, Belgium) / Alex Lanzutti (University of Udine, Udine, Italy) / Emanuele Vaglio (University of Udine, Udine, Italy) / Luca Clocchiatti (University of Udine, Udine, Italy) / Giovanni Totis (University of Udine, Udine, Italy) / Marco Sortino (University of Udine, Udine, Italy) / Iris De Graeve (Vrije Universiteit Brussel, Brussel, Belgium) / Lorenzo Fedrizzi (University of Udine, Udine, Italy)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Vignal.
Presentation time: 12:05:00 PM
Abstract ID and Title: 181083, Influence of additive manufacturing on corrosion resistance of 316L stainless steel
Presenting author: Françoise Liautaud
Authors: Tiphaine Schott (Cetim Grand Est, Mulhouse, France) / Romaric Maillard (Cetim Grand Est, Mulhouse, France) / Christophe Grosjean (Cetim, Saint-Étienne, France) / Jérôme Thabourey (Cetim Grand Est, Mulhouse, France) / Françoise Liautaud (Cetim Grand Est, Mulhouse, France)
FRIDAY, SEPTEMBER 13

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Vignal.
Presentation time: 12:25:00 PM
Abstract ID and Title: 210673, Corrosion study of 3D printed maraging steel
Presenting author: Caterina Zanella
Authors: Donya Ahmadkhania (Jönköping University, Jönköping, Sweden) / Heinrich Möller (University of Pretoria, Pretoria, South Africa) / Caterina Zanella (Jönköping University, Jönköping, Sweden)

Room and situation: Sevilla 2, Floor 0 (foyer)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Vignal.
Presentation time: 12:45:00 PM
Abstract ID and Title: 221860, Microstructure and Corrosion performance of Inconel 718 manufactured by selective laser melting
Presenting author: Mengyan Nie
Authors: Mengyan Nie (Institute for Materials Discovery, University College London, London, United Kingdom) / Xiao Zhao (Faculty of Engineering and Physical Sciences, University of Southampton, Southampton, United Kingdom) / Kwang-jeong Choy (Institute for Materials Discovery, University College London, London, United Kingdom) / Sirapat Wattanamanont (Institute for Materials Discovery, University College London, London, United Kingdom) / Kaize Teng (Institute for Materials Discovery, University College London, London, United Kingdom)

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 10:15:00 AM
Abstract ID and Title: 191302, Ultrasound solutions for monitoring of advanced corrosion processes in the oil and gas industry
Presenting author: Turcu Florin
Authors: Turcu Florin (Olympus Europa, Rungis, France) / Victor Chumillas (Olympus Iberia, Madrid, Spain)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 10:35:00 AM
Abstract ID and Title: 202929, Utilizing Different ILI Technologies to Predict Corrosion Growth Rates
Presenting author: Dian Adisty
Authors: Dian Adisty (DNV GL, Oslo, Norway) / Michelle Havlock (DNV GL, Columbus, Ohio, United States of America) / Eric Graf (DNV GL, Columbus, Ohio, United States of America) / Anne Britt Høydal (DNV GL, Oslo, Norway) / Pamela Moreno (DNV GL, Katy, Texas, United States of America) / Thomas Bubenik (DNV GL, Columbus, Ohio, United States of America)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Winning.
Presentation time: 10:55:00 AM
Abstract ID and Title: 186649, APPLICATION EXPERIENCE OF NEW CONTACTLESS METHOD FOR DIAGNOSTIC THE CORROSION CONDITION OF OIL AND GAS PIPELINES INTERNAL AND EXTERNAL SURFACES
Presenting author: Efim Lyublinski
Authors: Efim Lyublinski (COR/SCI, LLC, Solon, United States of America) / Michael Getmansky (Intercor, Inc, Boston, United States of America) / Boris Verbysitsky (Interco, Inc, Boston, United States of America) / Sergey Nosihin (Interco, Inc, Boston, United States of America)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 11:45:00 AM
Abstract ID and Title: 195383, Case study: Polyethylene internal coating failure
Presenting author: Monica Da Cunha Marroig
Authors: Monica Da Cunha Marroig (PETROBRAS, Rio de janeiro, Brazil) / Daniela Gomes Schmidt (PETROBRAS, Rio de Janeiro, Brazil) / Alexandre Esteves e Cunha (PETROBRAS, Rio de Janeiro, Brazil)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 12:05:00 PM
Abstract ID and Title: 194624, CORROSION ASSESSMENT OF CRUDE OIL STORAGE TANKS
Presenting author: Vittorio Colombo
Authors: Vittorio Colombo (Cescor, Milano, Italy) / Claudio Vailati (Cescor srl, Milan, Italy) / Bruno Bazzoni (Cescor srl, Milan, Italy) / Lucia Torri (ENI SpA, Milan, Italy)

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 12:25:00 PM
Abstract ID and Title: 214336, Causes and prevention of corrosion in crude oil storage and distribution systems
Presenting author: Vaclav Sefl
Authors: Vaclav Sefl (Technopark Kralupy with UCT Prague, Kralupy nad Vltavou, Czech Republic) / Tomas Prosek (Technopark Kralupy UCT Prague, Kralupy nad Vltavou, Czech Republic)
FRIDAY, SEPTEMBER 13

Room and situation: Sevilla 3+4, Floor 0 (foyer)
Session and Chair(s): C. in Oil & Gas Production (WP13)/Chair: Wilms.
Presentation time: 12:45:00 PM
Abstract ID and Title: 172305, GC Fingerprinting to Assist Oil Wells Downhole Corrosion
Presenting author: Talal Alghamdi
Authors: Talal Alghamdi (Saudi Aramco, Abqaiq, Saudi Arabia)

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
13:55 – 14:15 Closing Remarks

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Ormellese.
Presentation time: 10:15:00 AM
Abstract ID and Title: 190752, New portable temporary coupon in comparison to standard on-site gravimetric coupon in regard to a.c. corrosion risk assessment according to EN ISO 18086 criteria.
Presenting author: Alexandre Perrot
Authors: Alexandre Perrot (GRTgaz, Saint Denis, France) / Elisabeth Fleury (GRTgaz, Saint-Denis, France) / Romuald Bouaffre (GRTgaz, Saint-Denis, France) / Sylvain Fontaine (GRTgaz, Compiègne, France) / Bernard Masson (GRTgaz, Compiègne, France) / David Sellam (GRTgaz, Compiègne, France)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Ormellese.
Presentation time: 10:35:00 AM
Abstract ID and Title: 174340, Towards a better understanding of alternating current induced corrosion
Presenting author: Mario Markić
Authors: Mario Markić (DECHEMA-Forschungsinstitut, Frankfurt)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Ormellese.
Presentation time: 10:55:00 AM
Abstract ID and Title: 187133, A Design Case of Cathodic Protection for Pipelines Inside Subsea Tunnel
Presenting author: Song HongSeok
Authors: Song HongSeok (Korea Gas Corporation, Ansan, Korea, South) / YoungGeun Kim (Korea Gas Corporation, Ansan, Korea, South) / HongKyun Sohn (Hongik University, Sejong, Korea, South) / HeeSan Kim (Hongik University, Sejong, Korea, South)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Ormellese.
Presentation time: 11:45:00 AM
Abstract ID and Title: 188882, A complete picture and comparison of successes and failures of two continuous cathodic protection system in two mega complex structured gas refinery
Presenting author: Shahabaddin Feghahati
Authors: Hamed Aldaghi (POGC, Tehran, Iran) / M. Javad Jafari (POGC, Tehran, Iran) / Shahabaddin Feghahati (Trust Quality Control Engineering Company, Tehran, Iran)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Ormellese.
Presentation time: 12:05:00 PM
Abstract ID and Title: 207516, Effect of survey conditions on the reliability of coating flaw detection of buried pipe
Presenting author: Young Sik Kim
Authors: Bu-Taek Lim (Andong National University(KEPCO-E&C), Andong, Korea, South) / Ki Tae Kim (Andong National University, Andong, Korea, South) / Hyun Young Chang (KEPCO-E&C, Gimcheon, Korea, South) / Young Sik Kim (Andong National University(Materials Research Center for Energy and Green Technology), Andong, Korea, South) / Min Ki Kim (Andong National University, Andong, Korea, South) / Young Ran Yoo (Andong National University, Andong, Korea, South)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Ormellese.
Presentation time: 12:25:00 PM
Abstract ID and Title: 185692, FEEDBACK ON GALVANIC PROTECTION APPLIED TO BURIED LNG TANKS
Presenting author: Xavier Hallopeau
Authors: Xavier Hallopeau (Freyssinet International & Cie, Rueil Malmaison Cedex, France)

Room and situation: Andalucia 1+2, Floor 0 (above Atrio III)
Session and Chair(s): Cathodic Protection (WP16)/Chair: J. Crouzillac, Ormellese.
Presentation time: 12:45:00 PM
Abstract ID and Title: 198881, Upgradation of Cathodic Protection system for aboveground storage tanks
Presenting author: Mohammed Alotaibi
Authors: Mohammed Alotaibi (Saudi Aramco, Jeddah, Saudi Arabia)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 3, Floor 0 (above Atrio III)
Session and Chair(s): Modelling of C. using Cellular Automata/Chair: D. Di Caprio and K. Jahnns.
Presentation time: 1:05:00 PM
Abstract ID and Title: 23568, Cellular automata modelling of localised corrosion.
Presenting author: Dung Di Caprio
Authors: Dung Di Caprio (CNRS, Chimie ParisTech, Paris, France) / Damien Féron (CEA, Université Paris-Saclay, Saclay, France) / Jacques de Lamare (CEA, Université Paris-Saclay, Saclay, France)

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
13:55 – 14:15 Closing Remarks

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 10:15:00 AM
Abstract ID and Title: 195669, Corrosiveness analysis of nafta and dilution steam condensate mixture, a case study of corrosion at a petrochemical industry process stream
Presenting author: Rodrigo Moraes Kunrath
Authors: Rodrigo Moraes Kunrath (Braskem, Novo Hamburgo, Brazil) / Jane Zoppas Ferreira (UFRGS, Porto Alegre, Brazil)

Room and situation: Andalucia 4, Floor 0 (above Atrio III)
Session and Chair(s): C. in the Refinery & Petrochemistry Industry (WP15)/Chair: Ropital, Van Roij.
Presentation time: 10:35:00 AM
Abstract ID and Title: 173427, Stress Relaxation Cracking of TP 347H SS Flange Weld Joints on Reactor Charge Heater Manifold in Propane De-Hydrogenation Unit.
Presenting author: Sudharsanan Soundararajan
Authors: Sudharsanan Soundararajan (ADNOC-Refining, Al Ruwais, United Arab Emirates) / Tahier Ramadan Hamad (ADNOC-Refining, Al Ruwais, United Arab Emirates)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Volovitch, Guillelmoles.
Presentation time: 10:55:00 AM
Abstract ID and Title: 208308, Grape peel extracts as eco-friendly Corrosion Inhibitors
Presenting author: Janaina C. Rocha
Authors: Janaina C. Rocha (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil) / Luana B. Furtado (Departamento de Processos Orgânicos, UFRJ, Rio de Janeiro, Brazil) / José Antônio da Cunha Ponciano Gomes (Departamento de Engenharia Metalúrgica e de Materiais, COPPE-UFRJ, Rio de Janeiro, Brazil) / Rafaela C. Nascimento (Universidade de Évora-Portugal, Évora, Portugal) / Renata Valeriano Tonon (Embrapa Agroindústria de Alimentos, Rio de Janeiro, Brazil) / Lourdes Maria  C. Cabral (Embrapa Agroindústria de Alimentos, Rio de Janeiro, Brazil) / Gabriela Nunes Mattos (Programa de Pós-Graduação em Ciência de Alimentos (Instituto de Química) da UFRJ, Rio de Janeiro, Brazil) / Peter R. Seidl (Departamento de Processos Orgânicos, UFRJ, Rio de Janeiro, Brazil) / Renata Valeriano Tonon (Embrapa Agroindústria de Alimentos, Rio de Janeiro, Brazil) / Maria Jose  De Oliveira C. Guimaraes (Departamento de Processos Orgânicos, UFRJ, Rio de Janeiro, Brazil) / José Antônio  da Cunha Ponciano Gomes (Departamento de Engenharia Metalúrgica e de Materiais, COPPE-UFRJ, Rio de Janeiro, Brazil)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Volovitch, Guillelmoles.
Presentation time: 10:15:00 AM
Abstract ID and Title: 190345, Unveiling Modern Convergencies Between Photovoltaics and Corrosion Science
Presenting author: Daniel LINCOT
Authors: Daniel LINCOT (Institut Photovoltaïque Ile de France (IPVF), Palaiseau, France) / Arnaud Etcheberry (Institut Lavoisier de Versailles (ILV), Université Paris-Saclay, CNRS - UVSQ, Versailles, France)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Volovitch, Guillelmoles.
Presentation time: 10:45:00 AM
Abstract ID and Title: 173086, Atmospheric Corrosion. A Summary of Important Physicochemical Processes.
Presenting author: Christofer Leygraf
Authors: Christofer Leygraf (KTH - Royal Institute of Technology, Stockholm, Sweden)

11:15 - 11:45 Coffee break

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Volovitch, Guillelmoles.
Presentation time: 11:45:00 AM
Abstract ID and Title: 210420, Photocorrosion of oxide-covered metals in aqueous electrolytes studied for titanium
Presenting author: Håvard Wilson
Authors: Håvard Wilson (NTNU, Trondheim, Norway) / Arnoul Van Rooij (NTNU, Trondheim, Norway) / Andreas Erbe (NTNU, Trondheim, Norway)

Room and situation: Andalucia 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Volovitch, Guillelmoles.
Presentation time: 12:05:00 PM
Abstract ID and Title: 194195, Ambient degradation of photovoltaic absorbers: the specific case of Cu(In,Ga)Se2
Presenting author: Arnaud Etcheberry
Authors: Solene Bechu (IPVF, Palaiseau, France) / Anais Loubat (ILV, Versailles, France) / Jackie Vigneron (ILV, Versailles, France) / Daniel Lincot (CNRS-IPVF, Palaiseau, France) / Jean-Francois Guillelmoles (CNRS-IPVF, Palaiseau, France) / Muriel Boutemy (ILV, Versailles, France) / Arnaud Etcheberry (ILV, Versailles, France)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion September 9-13, 2019 Seville, Spain

Room and situation: Andalucía 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Lincot, Volovitch.
Presentation time: 12:25:00 PM
Abstract ID and Title: 206933, Innovative hybrid encapsulation solutions for industrial flexible Cu(In,Ga)Se2 photovoltaic technology
Presenting author: Shan-Ting Zhang
Authors: Shan-Ting Zhang (CNRS, Institut Photovoltaïque dîle-de-France (IPVF), UMR 9006, 30 route départementale 128, 91120, Palaiseau, France) / Nathanaëlle Schneider (CNRS, Institut Photovoltaïque dîle-de-France (IPVF), UMR 9006, 30 route départementale 128, 91120, Palaiseau, France) / Thibaud Hildebrandt (EDF R&D, Institut Photovoltaïque dîle-de-France (IPVF), 30 route départementale 128, 91120, Palaiseau, France) / Roland Wuerz (Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW), Meitnerstraße 1, 70565, Stuttgart) / Oliver Salomon (Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW), Meitnerstraße 1, 70565, Stuttgart)

Room and situation: Andalucía 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Lincot, Volovitch.
Presentation time: 12:45:00 PM
Abstract ID and Title: 214908, Stability and Interfaces in Perovskite Solar Cells
Presenting author: Philip Schulz
Authors: Philip Schulz (CNRS-IPVF, Palaiseau, France)

Room and situation: Andalucía 5, Floor 0 (above Atrio III)
Session and Chair(s): WS: Durability of Photovoltaic Modules/Chair: Lincot, Volovitch.
Presentation time: 1:05:00 PM
Abstract ID and Title: 236270, Defect evolution in ZnO followed by spectroscopic methods
Presenting author: Andreas Erbe
Authors: Andreas Erbe (NTNU, Norwegian University of Science and Technology, Trondheim, Norway) / Stefanie Tecklenburg (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf)

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
13:55 – 14:15 Closing Remarks

Room and situation: Andalucía 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chair: S. Garcia, R. Souto.
Presentation time: 10:15:00 AM
Abstract ID and Title: 218351, Smart release of corrosion inhibitor from mesoporous and hollow mesoporous silica nanoparticles
Presenting author: Daniel de la Fuente
Authors: Daniel de la Fuente (CENIM/CSIC, Madrid, Spain) / Cristina Zea (CENIM/CSIC, Madrid, Spain) / Jenifer Alcántara (CENIM/CSIC, Madrid, Spain) / Rosa Barranco-García (ICTP/CSIC, Madrid, Spain)

Room and situation: Andalucía 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chair: S. Garcia, R. Souto.
Presentation time: 10:35:00 AM
Abstract ID and Title: 213940, A smart anti-corrosion ethyl cellulose based coating with the CO2-responsive property
Presenting author: Junlei Tang
Authors: Junlei Tang (Southwest Petroleum University, Chengdu, China PR)

Room and situation: Andalucía 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chair: S. Garcia, R. Souto.
Presentation time: 10:55:00 AM
Abstract ID and Title: 227041, Preparation of spheroidal capsules containing healing agents for self-healing coating
Presenting author: Makoto Chiba
Authors: Makoto Chiba (National Institute of Technology, Asahikawa College, Asahikawa city, Hokkaido, Japan) / Yuki Tsuji (National Institute of Technology, Asahikawa College, Asahikawa city, Hokkaido, Japan) / Haruka Okuyama (National Institute of Technology, Asahikawa College, Asahikawa city, Hokkaido, Japan) / Atsushi Hyono (National Institute of Technology, Asahikawa College, Asahikawa city, Hokkaido, Japan) / Hideaki Takahashi (National Institute of Technology, Asahikawa College, Asahikawa city, Hokkaido, Japan)

11:15 - 11:45 Coffee break

Room and situation: Andalucía 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chair: S. Garcia, R. Souto.
Presentation time: 11:45:00 AM
Abstract ID and Title: 230473, Localised Electrochemical Techniques for Studying Corrosion of Mg and Mg Alloys / coating systems: Opportunities and Challenges
Presenting author: Violeta Barranco
Authors: Violeta Barranco (National Centre for Metallurgical Research -CENIM-CSIC, Madrid, Spain) / Federico R. Garcia-Galvan (National Centre for Metallurgical Research (CENIM), Madrid, Spain) / Juan Carlos Galvan (National Centre for Metallurgical Research (CENIM), Madrid, Spain)

Room and situation: Andalucía 6+7, Floor 0 (above Atrio III)
Session and Chair(s): Self-healing and Smart Coatings (WP14)/Chair: S. Garcia, R. Souto.
Presentation time: 12:05:00 PM
Abstract ID and Title: 188561, Self-healing abilities of coated steel doped with synthetized silica by one stage process containing encapsulated dodecylamine
Presenting author: Brunela Pereira Da Silva
Authors: Brunela Pereira Da Silva (Polytechnic School of the University of São Paulo - USP, São Paulo, Brazil) / Idalina Aoki (Polytechnic School of the University of São Paulo - USP, São Paulo, Brazil)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WP5)/Chair: C. Bosch, A. Oudriss.
Presentation time: 12:45:00 PM
Abstract ID and Title: 175737, Insight into corrosion fatigue initiation and cracking mechanism of E690 steel in SO2-polluted marine atmosphere
Presenting author: Ma Hongchi
Authors: Ma Hongchi (University of Science & Technology Beijing, Beijing, China PR) / Cuimei Du (University of Science & Technology Beijing, Beijing, China PR) / Xiaogang Li (University of Science & Technology Beijing, Beijing, China PR)

Room and situation: Andalucia 8, Floor 0 (above Atrio III)
Session and Chair(s): Environment Sensitive Fracture (WP5)/Chair: C. Bosch, A. Oudriss.
Presentation time: 1:05:00 PM
Abstract ID and Title: 206207, On the corrosion fatigue mechanism in welded and unwelded duplex stainless steels during very high numbers of load cycles
Presenting author: Jan-Stefan Peters
Authors: Jan-Stefan Peters (Institute of Materials Design and Structural Integtry, University of Applied Sciences Osnabrück, Osnabrück) / Alexander Giertler (Institute of Materials Design and Structural Integtry, University of Applied Sciences Osnabrück, Osnabrück) / Javad Mola (Institute of Materials Design and Structural Integtry, University of Applied Sciences Osnabrück, Osnabrück) / Rainer Peters (Institute of Materials Design and Structural Integtry, University of Applied Sciences Osnabrück, Osnabrück) / Angela Hamann-Steinmeier (Institute of Process Engineering, University of Applied Sciences Osnabrück, Osnabrück) / Ulrich Krupp (Steel Institute (IEHK), RWTH Aachen University, Aachen)

10:55:00 AM Closing Remarks

Room and situation: España 1+2+3+4, Floor 0 (foyer)
13:55 – 14:15 Closing Remarks

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): JS: Management of Corrosion (WP4, WP9 + WP16)/Chair: Ph. Refait, S. Ritter.
Presentation time: 10:15:00 AM
Abstract ID and Title: 207395, Establishment of an international guide standard for corrosion management in industry.
Presenting author: Agatha Swierczynski
Authors: Agatha Swierczynski (DIN CERTCO GmbH, Berlin)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): JS: Management of Corrosion (WP4, WP9 + WP16)/Chair: Ph. Refait, S. Ritter.
Presentation time: 10:35:00 AM
Abstract ID and Title: 197022, Effective corrosion monitoring recommended parameters and analytical approach
Presenting author: Rituraj Mishra
Authors: Rituraj Mishra (BHARAT PETROLEUM CORPORATION LIMITED, Mumbai, India)

Room and situation: España 1+2, Floor -1 (Atrio III)
Session and Chair(s): JS: Management of Corrosion (WP4, WP9 + WP16)/Chair: Ph. Refait, S. Ritter.
Presentation time: 10:55:00 AM
Abstract ID and Title: 206592, Understanding and mitigating corrosion of carbon steel in aggressive geothermal brines
Presenting author: Troels Mathiesen
Authors: Troels Mathiesen (FORCE Technology, Brondby, Denmark) / Jakob Mølholm (FORCE Technology, Esbjerg, Denmark) / Johan Braüner Nielsen (FORCE Technology, Brøndby, Denmark)

11:15 - 11:45 Coffee break

Room and situation: Sevilla 1+2+3+4, Floor 0 (foyer)
13:55 – 14:15 Closing Remarks

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.
Presentation time: 10:15:00 AM
Abstract ID and Title: 229582, Visualizing Corrosion Mechanisms on Galvanized Steel
Presenting author: Markus Nadlinger
Authors: Markus Nadlinger (CEST, Wiener Neustadt, Austria) / Martin Fleischanderl (voestalpine Stahl GmbH, Linz, Austria) / Martin Rosner (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria) / Karl-heinz Stellnberger (voestalpine Stahl GmbH, Linz, Austria) / Christian Paulik (JKU Linz, Linz, Austria)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.
Presentation time: 10:35:00 AM
Abstract ID and Title: 189652, Analysis of corrosion with electrochemical techniques applied to geothermal power plants in Switzerland
Presenting author: Ana Vallejo Vitaller
Authors: Ana Vallejo Vitaller (ETH Zurich, Institute for Building Materials, Zurich, Switzerland) / Ueli Angst (ETH Zurich, Institute for Building Materials, Zurich, Switzerland) / Bernhard Elsener (ETH Zurich, Institute for Building Materials, Zurich, Switzerland)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.
Presentation time: 10:55:00 AM
Abstract ID and Title: 197022, Effective corrosion monitoring recommended parameters and analytical approach
Presenting author: Rituraj Mishra
Authors: Rituraj Mishra (BHARAT PETROLEUM CORPORATION LIMITED, Mumbai, India) / Ma Hongchi (University of Science & Technology Beijing, Beijing, China PR) / Cuiwei Du (University of Science & Technology Beijing, Beijing, China PR) / Xiaogang Li (University of Science & Technology Beijing, Beijing, China PR)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.
Presentation time: 10:15:00 AM
Abstract ID and Title: 229582, Visualizing Corrosion Mechanisms on Galvanized Steel
Presenting author: Markus Nadlinger
Authors: Markus Nadlinger (CEST, Wiener Neustadt, Austria) / Martin Fleischanderl (voestalpine Stahl GmbH, Linz, Austria) / Martin Rosner (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria) / Karl-heinz Stellnberger (voestalpine Stahl GmbH, Linz, Austria) / Christian Paulik (JKU Linz, Linz, Austria)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.
Presentation time: 10:35:00 AM
Abstract ID and Title: 189652, Analysis of corrosion with electrochemical techniques applied to geothermal power plants in Switzerland
Presenting author: Ana Vallejo Vitaller
Authors: Ana Vallejo Vitaller (ETH Zurich, Institute for Building Materials, Zurich, Switzerland) / Ueli Angst (ETH Zurich, Institute for Building Materials, Zurich, Switzerland) / Bernhard Elsener (ETH Zurich, Institute for Building Materials, Zurich, Switzerland)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Ogle.
Presentation time: 10:55:00 AM
Abstract ID and Title: 193777, Statistical analysis and artificial pit studies of hot-dip galvanized steel in simulated soil solution
Presenting author: Davood Nakhaie
Authors: Davood Nakhaie (The University of British Columbia, Vancouver, Canada) / Edouard Asselin (The University of British Columbia, Vancouver, Canada)
EUROCORR 2019 The Annual Congress of the European Federation of Corrosion
September 9-13, 2019 Seville, Spain

11:15 - 11:45 Coffee break

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 11:45:00 AM
Abstract ID and Title: 229615, First-principles study explaining the mechanism responsible for the enhanced rates of hydrogen evolution on dissolving magnesium in aqueous environments
Presenting author: Santiago Fajardo
Authors: Santiago Fajardo (CENIM-CSIC, Madrid, Spain) / Jodie Adrian Yuwono (School of Photovoltaics and Renewable Engineering, University of New South Wales, Sidney, Australia) / Christopher Taylor (The Ohio State University, Columbus, United States of America) / Gerald S. Frankel (The Ohio State University, Columbus, United States of America) / Nick Birbilis (Australian National University, Acton, Australia)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 12:05:00 PM
Abstract ID and Title: 185043, Use of FEM simulation to study corrosion phenomena under macrocell mechanism
Presenting author: Marco Ormelise
Authors: Marco Ormelise (Politecnico di Milano, Milano, Italy) / Mehdi Attaarchi (Politecnico di Milano, Milano, Italy) / Andrea Brenna (Politecnico di Milano, Milano, Italy) / Fabio Bolzoni (Politecnico di Milano, Milano, Italy)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 12:25:00 PM
Abstract ID and Title: 219110, In silico Discovery of Modulators of Magnesium Dissolution
Presenting author: Christian Feiler
Authors: Christian Feiler (Helmholtz-Zentrum Geesthacht, Geesthacht) / Sviatlana Lamaka (Helmholtz-Zentrum Geesthacht, Geesthacht) / Di Mei (Helmholtz-Zentrum Geesthacht, Geesthacht) / Tim Würger (Helmholtz-Zentrum Geesthacht, Geesthacht) / Robert Meißner (Helmholtz-Zentrum Geesthacht, Geesthacht) / David Winkler (La Trobe University, Bundoora, Australia) / Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht, Geesthacht)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 12:45:00 PM
Abstract ID and Title: 225061, Computational and data guided approaches to understand corrosion inhibitors
Presenting author: Tiago Galvão
Authors: Tiago Galvão (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / Gerard Novell Leruth (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / Stanley Udochukwu Ofoegbu (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / Mikhail L. Zheludkevich (MagIC, Institute of Materials Research, Helmholtz-Zentrum Geesthacht, Geesthacht) / Maria G. S. Ferreira (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / João Tedim (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / José R. B. Gomes (CICECO-Aveiro Institute of Materials, Aveiro, Portugal)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 13:05:00 PM
Abstract ID and Title: 185043, What is PosPVD
Presenting author: Young Jin Kwak
Authors: Young Jin Kwak (POSCO, Gwangyang-si, Korea, South) / T.Y. Kim (POSCO, gwangyang, Korea, South) / S.H Lee (POSCO, Gwangyang, Korea, South)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 13:25:00 PM
Abstract ID and Title: 191742, Heat Treatment Effect on Corrosion Resistance of Grain Refined AlSi3Cu Cast Alloy
Presenting author: Mustafa Kocabas
Authors: Mustafa Kocabas (Bursa Technical University, Bursa, Turkey) / Mustafa Kocabas (Konya Technical University, Konya, Turkey) / Muhammet Uludag (Bursa Technical University, Bursa, Turkey)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 13:45:00 PM
Abstract ID and Title: 236358, Graphene tuned coatings for automotive applications
Presenting author: Karanveer Aneja
Authors: Karanveer Aneja (Talga Technologies Ltd., Cambridge, United Kingdom)

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 14:05:00 PM
Abstract ID and Title: 225061, Computational and data guided approaches to understand corrosion inhibitors
Presenting author: Tiago Galvão
Authors: Tiago Galvão (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / Gerard Novell Leruth (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / Stanley Udochukwu Ofoegbu (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / Mikhail L. Zheludkevich (MagIC, Institute of Materials Research, Helmholtz-Zentrum Geesthacht, Geesthacht) / Maria G. S. Ferreira (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / João Tedim (CICECO-Aveiro Institute of Materials, Aveiro, Portugal) / José R. B. Gomes (CICECO-Aveiro Institute of Materials, Aveiro, Portugal)

11:15 - 11:45 Coffee break

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 11:45:00 AM
Abstract ID and Title: 207769, Experimental Assessment of Electrochemical Cyclic Corrosion Test Method For Automotive Organic-Coated Steels
Presenting author: Seung Ho Ahn
Authors: Seung Ho Ahn (Hyundai Motor Group, R&D Center, Hwaseong, Korea, South) / Won Seog Yang (Hyundai Steel Company, Dangjin-Si, Korea, South) / Byung Su Kim (Hyundai Motor Group R&D Center, Hwaseong-Si, Korea, South) / Hye Rim Choi (Hyundai Steel Company, Dangjin-Si, Korea, South) / Jin Hwan Park (Pukyong National University, Busan, Korea, South)

11:15 - 11:45 Coffee break

Room and situation: España 4+5, Floor -1 (Atrio III)
Session and Chair(s): C. Mechanisms, Methods & Modelling (WP6+8)/Chair: Costa.
Presentation time: 11:45:00 AM
Abstract ID and Title: 207769, Experimental Assessment of Electrochemical Cyclic Corrosion Test Method For Automotive Organic-Coated Steels
Presenting author: Seung Ho Ahn
Authors: Seung Ho Ahn (Hyundai Motor Group, R&D Center, Hwaseong, Korea, South) / Won Seog Yang (Hyundai Steel Company, Dangjin-Si, Korea, South) / Byung Su Kim (Hyundai Motor Group R&D Center, Hwaseong-Si, Korea, South) / Hye Rim Choi (Hyundai Steel Company, Dangjin-Si, Korea, South) / Jin Hwan Park (Pukyong National University, Busan, Korea, South)
11:15 - 11:45 Coffee break

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair: .
Presentation time: 11:45:00 AM
Abstract ID and Title: 172877, Determination of hydrogen in zinc coated high strength steels using Scanning Kelvin Probe Force Microscopy
Presenting author: Ines Traxler
Authors: Ines Traxler (CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH, Linz, Austria) / Gabriela Schimo-Aichhorn (CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH, Linz, Austria) / Andreas Muhr (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckener (voestalpine Stahl GmbH, Linz, Austria) / Hubert Ducharce (voestalpine Stahl GmbH, Linz, Austria) / Karl-Heinz Stellinberger (voestalpine Stahl GmbH, Linz, Austria) / Josef Faderl (voestalpine Stahl GmbH, Linz, Austria) / Darya Rudomilova (University of Chemistry and Technology Prague, Kralupy nad Vltavou, Czech Republic) / Tomáš Prošek (University of Chemistry and Technology Prague, Kralupy nad Vltavou, Czech Republic) / Sabine Hild (Johannes Kepler Universität, Linz, Austria) / David Stifter (Johannes Kepler Universität, Linz, Austria)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair: .
Presentation time: 12:05:00 PM
Abstract ID and Title: 202775, Effect of cutting-edge condition on stress-corrosion cracking susceptibility of Advanced High Strength Steels
Presenting author: Silvia Molas
Authors: Silvia Molas (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Amadeu Concustell (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Antoni Lara (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Giselle Ramírez (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / David Frómeta (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain) / Daniel Casellas (EURECAT, Centre Tecnològic de Catalunya, Manresa, Spain)

Room and situation: Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)
Session Chair(s): JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair: .
Presentation time: 12:25:00 PM
Abstract ID and Title: 204100, Comparison of environmentally assisted cracking in high zinc content 7xxx Al alloys imaged by time-lapse synchrotron computed tomography (CT)
Presenting author: Tim Burnett
Authors: Tim Burnett (The University of Manchester, Manchester, United Kingdom) / Visweswara Gudla (The University of Manchester, Manchester, United Kingdom) / Zak Barrett (Airbus, Bristol, United Kingdom) / Al Garner (The University of Manchester, Manchester, United Kingdom) / Henry Holroyd (The University of Manchester, Manchester, United Kingdom) / Christian Engel (Airbus, Munich) / Phil Prangnell (The University of Manchester, Manchester, United Kingdom) / Malte Storm (Diamond Light Source, Oxford, United Kingdom) / John Lewandowski (Case Western Reserve University, Cleveland, United States of America) / Ben Palmer (Case Western Reserve University, Cleveland, United States of America) / Philip Withers (The University of Manchester, Manchester, United Kingdom)
**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair: .

**Presentation time:** 12:45:00 PM

**Abstract ID and Title:** 198925, Multiscale Correlative Characterization of Environmentally Assisted Crack Initiation, Propagation and Failure in a High Strength Aluminium Alloy

**Presenting author:** Visweswara Gudla

**Authors:** Visweswara Gudla (The University of Manchester, Manchester, United Kingdom) / Timothy Burnett (The University of Manchester, Manchester, United Kingdom) / N J Henry Holroyd (The University of Manchester, Manchester, United Kingdom) / Malte Storm (Diamond Light Source, Didcot, United Kingdom) / Alistair Garner (The University of Manchester, Manchester, United Kingdom) / Benjamin Palmer (Case Western Reserve University, Cleveland, United States of America) / Philip Withers (The University of Manchester, Manchester, United Kingdom)

---

**Room and situation:** Triana 1+2+3, Floor -1 / Floor 0 (between Atrio III and Atrio I)

**Session and Chair(s):** JS Atmospheric EAC (WP5, WP17, WP22 + TF)/Chair: .

**Presentation time:** 1:05:00 PM

**Abstract ID and Title:** 193645, Factors Influencing Atmospheric Environment Assisted Cracking of a High Strength Aluminum Alloy

**Presenting author:** Fritz Friedersdorf

**Authors:** Fritz Friedersdorf (Luna Innovations Incorporated, CHARLOTTESVILLE, United States of America) / Brandi Clark (Luna Innovations, Charlottesville, United States of America) / Jacob Wright (Luna Innovations, Charlottesville, United States of America) / Nathan Brown (Luna Innovations, Charlottesville, United States of America)

---

**Room and situation:** Sevilla 1+2+3+4, Floor 0 (foyer)

**Presentation time:** 13:55 – 14:15

**Closing Remarks**