

EUROCORR 2019

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EFC Event number 445

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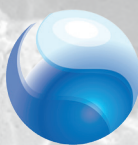


POSTER PROGRAMME

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DECHEMA



WEDNESDAY, SEPTEMBER 11, 2019: POSTER SESSION

LOCATION: ATRIO III (Pool access)

Poster number: P-001

Session: Atmospheric corrosion (TF)

Abstract ID and Title: 184218, Influence of Sn on corrosion behavior of CrMoSn steel in the simulated tropical marine atmosphere environment

Presenting author: Meihui Sun

Authors: Meihui Sun (University of Science and Technology Beijing, Beijing, China PR) / Cuiwei Du (University of Science and Technology Beijing, Beijing, China PR) / Xiaogang Li (University of Science and Technology Beijing, Beijing, China PR) / Zhiyong Liu (University of Science and Technology Beijing, Beijing, China PR)

Poster number: P-002

Session: Atmospheric corrosion (TF)

Abstract ID and Title: 217317, PREDICTION OF ATMOSPHERIC CORROSION FOR IMPROVING MAINTENANCE PROCEEDINGS IN NETWORKS OF ELECTRICITY DISTRIBUTION TOWERS

Presenting author: Ivan Diaz

Authors: Ivan Diaz (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Belen Chico (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Daniel De la Fuente (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Rafael Mínguez (VIESGO S.A., Santander, Spain) / Antonio González (VIESGO S.A., Santander, Spain) / Santiago Gundín (IMEDEXA S.A., Cáceres, Spain) / Josep Palasi (Pinturas HEMPEL S.A., Barcelona, Spain) / Verónica González de Lena (Centro Tecnológico CTC, Santander, Spain) / Álvaro Rodríguez (Centro Tecnológico CTC, Santander, Spain)

Poster number: P-003

Session: Atmospheric corrosion (TF)

Abstract ID and Title: 232717, Tandem LA-ICP-MS/LIBS Analysis of Polymer Coatings: Investigating Degradation Under Exposure to UV-Radiation and SO₂

Presenting author: Lukas Brunnbauer

Authors: Lukas Brunnbauer (TU Vienna, Vienna, Austria) / Maximilian Mayr (KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Villach, Austria) / Silvia Larisegger (KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Villach, Austria) / Michael Nelhiebel (KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Villach, Austria) / Andreas Limbeck (TU Vienna, Vienna, Austria)

Poster number: P-004

Session: Atmospheric corrosion (TF)

Abstract ID and Title: 237964, Drone based detection of corrosion

Presenting author: Lars Johann Wacker

Authors: Lars Johann Wacker (Danish National Metrology Institute, Hørsholm, Denmark)

Poster number: P-005

Session: Atmospheric Environmentally Assisted Cracking in Automotive and Aerospace Industries

Abstract ID and Title: 216074, Effect of zinc coating on hydrogen entry into high strength steels

Presenting author: Darya Rudomilova

Authors: Vaclav Sefl (University of Chemistry and Technology Prague, Prague, Czech Republic) / Darya Rudomilova (University of Chemistry and Technology Prague, Prague, Czech Republic) / Tomas Prosek (University of Chemistry and Technology Prague, Prague, Czech Republic) / Gabriela Schimo-Aichhorn (CEST Competence Center for Electrochemical Surface Technology, Linz, Austria) / Ines Traxler (CEST Competence Center for Electrochemical Surface Technology, Linz, Austria) / Andreas Muhr (voestalpine Stahl GmbH, Linz, Austria) / Hubert Duchaczek (voestalpine Stahl GmbH, Linz, Austria) / Gerald Luckeneder (voestalpine Stahl GmbH, Linz, Austria)

Poster number: P-006

Session: Automotive Corrosion (WP17)

Abstract ID and Title: 175671, Likely-misinterpreted pseudo Hydrogen peak as diffusible hydrogen 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)

Poster number: P-007

Session: Automotive Corrosion (WP17)

Abstract ID and Title: 176606, Comparison of Corrosion for GMAW and FSW Weldments in aluminum alloy AA6061-T6

Presenting author: HEUNGJU KIM

Authors: HEUNGJU KIM (RIST, 37673, Korea, South) / JONGWON PARK (RIST, Pohang, Korea, South) / KWNAGSOO PARK (RIST, Pohang, Korea, South) / MOKYOUNG LEE (RIST, Pohang, Korea, South)

Poster number: P-008

Session: Automotive Corrosion (WP17)

Abstract ID and Title: 177332, Effect of C contents on hydrogen diffusion and embrittlement behaviors of high strength automotive steels

Presenting author: Si-On Kim

Authors: Sung Jin Kim (Suncheon National University, Suncheon, Korea, South) / Eun Hye Hwang (Suncheon National University, Suncheon, Korea, South) / Jin-seong Park (Suncheon National University, Suncheon, Korea, South) / Man Jae Lee (Research Institute of Industrial Science and Technology (RIST), Pohang, Korea, South) / Si-On Kim (Suncheon National University, Suncheon, Korea, South)

Poster number: P-009

Session: Automotive Corrosion (WP17)

Abstract ID and Title: 184889, Investigation of stiction phenomena in brake systems by electrochemical methods

Presenting author: Andrea Isoardi

Authors: Andrea Isoardi (ITT Motion Technology, Barge, Italy) / Francesco Andreatta (University of Udine, Udine, Italy) / Agusti Sin (ITT Motion Technology, Barge, Italy) / Lorenzo Fedrizzi (University of Udine, Udine, Italy)

Poster number: P-010

Session: Automotive Corrosion (WP17)

Abstract ID and Title: 190653, Corrosion behaviour of the secondary Al-Si-Mg alloys with various iron content

Presenting author: Tatiana Liptakova

Authors: Tatiana Liptakova (University of Zilina, Zilina, Slovakia) / Lenka Kucharikova (University of Zilina, Zilina, Slovakia) / Eva Tillova (University of Zilina, Zilina, Slovakia)

Poster number: P-011

Session: Automotive Corrosion (WP17)

Abstract ID and Title: 215106, A Study on Galvanic Corrosion Simulation Method for Predicting Corrosion Lifetime in Dissimilar Materials Joints of Automotive Parts

Presenting author: Seung Ho Ahn

Authors: Seung Ho Ahn (Hyundai Motor Group, R&D Center, Hwaseong, Korea, South) / Ji Eyun Jung (Hyundai Motor Company R&D Center, Hwaseong-Si, Korea, South) / Sang Pil Kim (Hyundai Motor Company R&D Center, Hwaseong-Si, Korea, South) / Won Seog Yang (Hyundai Steel R&D Division, Dangjin-Si, Korea, South)

Poster number: P-012

Session: Automotive Corrosion (WP17)

Abstract ID and Title: 226018, Understanding the different corrosion mechanism of microporous nickel-chromium coatings due to the presence of cupric ions in a chloride based electrolyte

Presenting author: Eva García-Lecina

Authors: Eva García-Lecina (Fundación CIDETEC, San Sebastián, Spain) / Larraitz Ganborena (Fundación Cidetec, San Sebastián, Spain) / Hans-Jürgen Grande (Fundación Cidetec, San Sebastián, Spain) / Jesús Manuel Vega (Fundación Cidetec, San Sebastián, Spain)

Poster number: P-013

Session: Cathodic Protection (WP16)

Abstract ID and Title: 235962, Cathodic Protection

Presenting author: Ahmed Butt

Authors: Ahmed Butt (Oil & Gas Development Company Ltd., Lahore, Pakistan)

Poster number: P-014

Session: Cathodic protection in marine environments (WP9 & WP16)

Abstract ID and Title: 228779, Analysis of galvanic anodes consumption rate according to anode/cathode area ratio

Presenting author: SIMONE LOUISE BRASIL

Authors: JOSÉ VICTOR GOUDAR (Federal University of Rio de Janeiro, Rio de Janeiro RJ, Brazil) / SIMONE LOUISE BRASIL (FEDERAL UNIVERSITY OF RIO DE JANEIRO, RIO DE JANEIRO, Brazil)

Poster number: P-015

Session: Coatings (WP14)

Abstract ID and Title: 173900, Combining electrochemical impedance spectroscopy and technological testing to assess anticorrosion performance of organic coatings

Presenting author: Raul Davalos Monteiro

Authors: Raul Davalos Monteiro (The University of Manchester, Como, Italy) / Gianfranco D'Ambrosio (AkzoNobel, como, Italy) / Xiaorong Zhou (The University of Manchester, Manchester, United Kingdom) / Simon Gibbon (Akzonobel, Felling, United Kingdom) / Michele Curioni (The University of Manchester, Manchester, United Kingdom)

Poster number: P-016

Session: Coatings (WP14)

Abstract ID and Title: 176331, Finite element analysis of the effects of water diffusion and alternating hydrostatic pressure on pigmented epoxy coatings

Presenting author: Rui Liu

Authors: Rui Liu (Institute of Metal Research, Shenyang, China PR) / Li Liu (Northeastern University, Shenyang, China PR) / Yu Cui (Institute of Metal Research, Shenyang, China PR) / Fandi Meng (Northeastern University, Shenyang, China PR) / Ying Li (Institute of Metal Research, Shenyang, China PR) / Fuhui Wang (Northeastern University, Shenyang, China PR)

Poster number: P-017

Session: Coatings (WP14)

Abstract ID and Title: 176716, A study on corrosion inhibition enhancement of epoxy powder coatings

Presenting author: Bora Park

Authors: Bora Park (POMIA (Pohang Institute of Metal Industry Advancement), Pohang, Korea, South) / Jae-Won Lee (POMIA (Pohang Institute of Metal Industry Advancement), Pohang, Korea, South) / Se-Young Oh (POMIA (Pohang Institute of Metal Industry Advancement), Pohang, Korea, South)

Poster number: P-019

Session: Coatings (WP14)

Abstract ID and Title: 181600, Integration of plasmonic photothermal effect and durable superhydrophobicity for excellent anti-icing/deicing and anti-corrosion performances using TiN-PTFE nanostructures

Presenting author: Lingwei Ma

Authors: Lingwei Ma (University of Science and Technology Beijing, BEIJING, China PR)

Poster number: P-020

Session: Coatings (WP14)

Abstract ID and Title: 181721, Study of the variables that influence the coulometric determination of tin oxides in tinplate

Presenting author: Olga Conejero

Authors: Olga Conejero (Fundacion IDONIAL, Aviles-Asturias, Spain) / Ines Perez (Fundacion IDONIAL, Aviles, Spain)

Poster number: P-021

Session: Coatings (WP14)

Abstract ID and Title: 187067, Preparation and regulation of Fe₃O₄/rGO/PANI anticorrosive and absorbing nano-fillers

Presenting author: Yu Cui

Authors: Yu Cui (Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China PR) / Ruijuan Zhou (Northeastern University, Shenyang, China PR) / Rui Liu (Institute of Metal Research, Shenyang, China PR) / Fandi Meng (Northeastern University, Shenyang, China PR) / Li Liu (Northeastern University, Shenyang, China PR)

Poster number: P-022

Session: Coatings (WP14)

Abstract ID and Title: 188739, The Establishment of Correlation Model between the Surface Aging of Organic Protective Coatings and Environmental Factors

Presenting author: Jin Gao

Authors: Jin Gao (Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing 100083, Peoples Republic of China, Beijing, China PR) / Chao Li (Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing 100083, Peoples Republic of China, Beijing, China PR) / Zhen Lv (Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing 100083, Peoples Republic of China, Beijing, China PR) / Rui Wang (Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing 100083, Peoples Republic of China, Beijing, China PR) / Dequan Wu (Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing 100083, Peoples Republic of China, Beijing, China PR) / Xiaogang Li (Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing 100083, Peoples Republic of China, Beijing, China PR)

Poster number: P-023

Session: Coatings (WP14)

Abstract ID and Title: 190488, Influence of shot peening on corrosion behaviour of AZ31 magnesium alloy coated by plasma electrolytic oxidation (PEO)

Presenting author: Daniel Kajánek

Authors: Daniel Kajánek (Research Centre, University of Zilina, Zilina, Slovakia) / Branislav Hadzima (Research Centre, University of Zilina, Zilina, Slovakia) / Sara Bagherifard (Department of Mechanical Engineering, Politecnico di Milano, Milan, Italy) / Joseph Buhagiar (Department of Metallurgy and Materials Engineering, Faculty of Engineering, University of Malta, Msida, Malta) / Stanislava Fintová (Faculty of Chemistry, Brno University of Technology, Brno, Czech Republic) / Filip Pastorek (Research Centre, University of Zilina, Zilina, Slovakia)

Poster number: P-024

Session: Coatings (WP14)

Abstract ID and Title: 191951, Development of Self-Healing Coating Systems for Mitigating Corrosion of Offshore Wind Turbines

Presenting author: Adamantini Loukodimou

Authors: Adamantini Loukodimou (University of Leicester, Leicester, United Kingdom) / David Weston (University of Leicester, Leicester, United Kingdom) / Shiladitya Paul (TWI Ltd/University of Leicester, Cambridge, United Kingdom)

Poster number: P-025

Session: Coatings (WP14)

Abstract ID and Title: 197286, Multi-criteria evaluation of self-protecting waterborne coating based on mesoporous silica nanoparticles in corrosion environment

Presenting author: Ivan Stojanovic

Authors: Ivan Stojanovic (University of Zagreb, Zagreb, Croatia) / Bruno Zidov (Energy Institute Hrvoje Požar, Zagreb, Croatia) / Vesna Alar (Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia) / Vinko Simunovic (Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia)

Poster number: P-026

Session: Coatings (WP14)

Abstract ID and Title: 202511, Storage of Green inhibitors in pH sensitive carriers for corrosion protection of epoxy coated steel for marine applications

Presenting author: Roma Raj

Authors: Roma Raj (Instituto Superior Técnico, Lisbon, Portugal) / Yegor Morozov (Centro de Química Estrutural, Instituto Superior Técnico, Lisbon, Portugal) / Ramazan Kahraman (Center for Advanced Materials, Qatar University, Doha, Qatar) / Abdul Shakoor (Center for Advanced Materials, Qatar University, Doha, Qatar) / Fatima Montemor (Centro de Química Estrutural, Instituto Superior Técnico, Lisbon, Portugal)

Poster number: P-027

Session: Coatings (WP14)

Abstract ID and Title: 203248, New Generation of High-Performance PEEK-Coatings Laser-Applied and Selectively Parametrized

Presenting author: Jörg Zerrer

Authors: Anna Buling (ELB Eloxaalwerk Ludwigsburg Helmut Zerrer GmbH, Ludwigsburg) / Jörg Zerrer (ELB Eloxaalwerk Ludwigsburg Helmut Zerrer GmbH, Ludwigsburg)

Poster number: P-028

Session: Coatings (WP14)

Abstract ID and Title: 207494, Performance Evaluation of Al Based Coatings Replacing Cadmium on High Strength Steels

Presenting author: Zhihua Sun

Authors: Zhihua Sun (AECC Beijing Institute of Aeronautical Materials, Beijing, China PR)

Poster number: P-029

Session: Coatings (WP14)

Abstract ID and Title: 210244, Study of phosphating time and its effect on corrosion behaviour of ground and shot-peened HSLA steel

Presenting author: Michal Jambor

Authors: Michal Jambor (University of Žilina, Žilina, Slovakia) / Jana Pastorková (University of Žilina, Žilina, Slovakia) / František Nový (University of Žilina, Žilina, Slovakia) / Martina Jacková (University of Žilina, Žilina, Slovakia) / Filip Pastorek (University of Žilina, Žilina, Slovakia)

Poster number: P-030

Session: Coatings (WP14)

Abstract ID and Title: 211289, Corrosion resistance of Zn-Ni coatings containing ZrO₂ nanoparticles

Presenting author: Gabriella Roventi

Authors: Gabriella Roventi (Università Politecnica delle Marche, Ancona, Italy) / Annamaria Viceré (Università Politecnica delle Marche, Ancona, Italy) / Tiziano Bellezze (Università Politecnica delle Marche, Ancona, Italy)

Poster number: P-031

Session: Coatings (WP14)

Abstract ID and Title: 215062, Effects of TiB and Si addition on microstructure and corrosion resistance of Zn-Al-Mg coated steel

Presenting author: Jaemin Lee

Authors: Jaemin Lee (Hyundai Steel, Dangjin-Si, Korea, South) / Hyunyeong Jung (Hyundai Steel, Dangjin-Si, Korea, South) / Wonseog Yang (Hyundai Steel, Dangjin-Si, Korea, South)

Poster number: P-032

Session: Coatings (WP14)

Abstract ID and Title: 216888, Electrochemical studies of cold sprayed steels coatings

Presenting author: Irene G. Cano

Authors: Ana M. Martos (Thermal Spray Centre (CPT) - University of Barcelona, Barcelona, Spain) / Sergi Dosta (Thermal Spray Centre (CPT) - University of Barcelona, Barcelona, Spain) / Maria Sarret (Thermal Spray Centre (CPT) - University of Barcelona, Barcelona, Spain) / Irene G. Cano (Thermal Spray Centre (CPT) - University of Barcelona, Barcelona, Spain)

Poster number: P-033

Session: Coatings (WP14)

Abstract ID and Title: 217075, Evaluation of weld cladding quality used for restoration shape molds inserts for high-pressure die casting of aluminum alloy

Presenting author: Anna Guzanova

Authors: Janette Brezinová (Technical University of Košice, Faculty of Mechanical Engineering, Košice, Slovakia) / Miroslav Džupon (Institute of Materials Research, Slovak Academy of Sciences, Košice, Slovakia) / Miriam Kupková (Institute of Materials Research, Slovak Academy of Sciences, Košice, Slovakia) / Anna Guzanova (Technical University of Kosice, Kosice, Slovakia) / Dagmar Draganovská (Technical University of Košice, Faculty of Mechanical Engineering, Košice, Slovakia)

Poster number: P-034

Session: Coatings (WP14)

Abstract ID and Title: 217273, Influence of abrasive blasting on quality of coating system with cathodic protection

Presenting author: Anna Guzanova

Authors: Anna Guzanova (Technical University of Kosice, Kosice, Slovakia) / Janette Brezinová (Technical University of Košice, Faculty of Mechanical Engineering, Košice, Slovakia) / Dagmar Draganovská (Technical University of Košice, Faculty of Mechanical Engineering, Košice, Slovakia)

Poster number: P-035

Session: Coatings (WP14)

Abstract ID and Title: 219462, Anodizing of 304L stainless steel using fluoride-free organic electrolytes.

Presenting author: Maria Angeles Arenas Vara

Authors: Maria Angeles Arenas Vara (National Center for Metallurgical Research, CENIM-CSIC, Madrid, Spain) / Laura P. Domínguez Jaimes (Facultad de Ciencias Químicas/Universidad Autónoma de Nuevo León, Nuevo León, Mexico) / Ana Conde (National Center for Metallurgical Research, CENIM/CSIC, Madrid, Spain) / Juan José de Damborenea (National Center for Metallurgical Research, CENIM/CSIC, Madrid, Spain) / Juan Manuel Hernández-López (Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, Nuevo León, Mexico)

Poster number: P-036

Session: Coatings (WP14)

Abstract ID and Title: 221937, Corrosion resistance improvement of stainless steel AISI 204 using hydrophobic coatings based on stearic acid

Presenting author: Jane Zoppas - Ferreira

Authors: Daiana Sacilotto (Federal University of Rio Grande do Sul - UFRGS, Porto Alegre, Brazil) / Rodolfo Suaki (Federal University of Rio Grande do Sul - UFRGS, Porto Alegre, Brazil) / Jane Zoppas - Ferreira (Federal University of Rio Grande do Sul - UFRGS, Porto Alegre, Brazil)

Poster number: P-037

Session: Coatings (WP14)

Abstract ID and Title: 222806, Bending of inorganic coated steel sheets - evaluation of corrosion protection capability

Presenting author: Lena Lindman

Authors: Lena Lindman (RISE Research Institutes of Sweden, Borås, Sweden) / Johan B Lindén (RISE Research Institutes of Sweden, Borås, Sweden) / Konrad Tarka (RISE Research Institutes of Sweden, Borås, Sweden)

Poster number: P-038

Session: Coatings (WP14)

Abstract ID and Title: 224401, Performance of coatings developed for protecting steel pipes in geothermal power plants: in-situ corrosion monitoring by EIS-based sensor

Presenting author: Lorena Freire Pineiro

Authors: Lorena Freire Pineiro (Asociacion de Investigacion Metalurgica del Noroeste, Torneiros-Porrino, Spain) / Julio Sánchez (AIMEN Technology Centre, O Porriño, Spain) / Rubén Castro (AIMEN Technology Centre, O Porriño, Spain) / Alberto Fernández (AIMEN Technology Centre, O Porriño, Spain) / Ricardo Losada (Danish Technological Institute, Aarhus, Denmark) / Stefan Holberg (University of Wyoming, Laramie, United States of America) / Johan Van Bael (VITO Flemish Institute for Technological Research, Mol, Belgium)

Poster number: P-039

Session: Coatings (WP14)

Abstract ID and Title: 227437, Influence of alloying elements in the electro-assisted deposition of zirconium conversion coating on aluminum

Presenting author: Vitor Bonamigo Moreira

Authors: Vitor Bonamigo Moreira (Universitat Politècnica de Catalunya, Barcelona, Spain) / Georgina Fabregat (Universitat Politècnica de Catalunya, Barcelona, Spain) / Jane Zoppas Ferreira (Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil) / Carlos Aleman (Universitat Politècnica de Catalunya, Barcelona, Spain) / Alvaro Meneguzzi (Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil) / Elaine Armelin (Universitat Politècnica de Catalunya, Barcelona, Spain)

Poster number: P-040

Session: Coatings (WP14)

Abstract ID and Title: 228911, Corrosion resistance study of AA7075-T6 anodized in TSA covered with Zr nanometric oxide

Presenting author: Jéssica Salles Pinheiro

Authors: Jéssica Salles Pinheiro (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil) / Henrique Piaggio Cardoso (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil) / Claudia Trindade Oliveira (FEEVALE, Novo Hamburgo, Brazil) / Gabriel Regio (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil) / Nicolle Goi (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil) / Jane Zoppas Ferreira (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil)

Poster number: P-041

Session: Coatings (WP14)

Abstract ID and Title: 229109, Ni-Sn alloy/ rGO composite coatings involving deep eutectic solvents – Evaluation of corrosion behavior

Presenting author: Sabrina Patricia Rosoiu

Authors: Sabrina Patricia Rosoiu (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucuresti, Romania) / Aida Ghiulnare Pantazi (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania) / Aurora Petica (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania) / Anca Cojocar (Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, 132 Calea Grivitei, Bucharest, Romania, 010737, Bucharest, Romania, Bucharest, Romania) / Stefania Costovici (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania) / Teodor Visan (Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, 132 Calea Grivitei, Bucharest, Romania, 010737, Bucharest, Romania, Bucharest, Romania) / Liana Anicai (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania) / Marius Enachescu (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania)

Poster number: P-042

Session: Coatings (WP14)

Abstract ID and Title: 229373, Evaluation of metallic bipolar plates for PEMFC coated with Zr and Ti

Presenting author: Sabrina Patricia Rosoiu

Authors: Aida Ghiulnare Pantazi (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania) / Sabrina Patricia Rosoiu (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucuresti, Romania) / Eduard Grigore (Plasma Physics and Nuclear Fusion Department, National Institute for Laser, Plasma and Radiation Physics, P.O.Box MG-36, Magurele, Bucharest, Romania, Bucharest, Romania) / Marius Enachescu (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania) / Liana Anicai (Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Bucharest, Romania)

Poster number: P-043

Session: Coatings (WP14)

Abstract ID and Title: 229439, Corrosion protection of galvanized steel by vinyltrimetoxysilane film modified with cocoa bark powder

Presenting author: Leonardo Bertolucci Coelho

Authors: Regivaldo Santos Silva Filho (State University of Santa Cruz, Ilhéus, Brazil) / Maria Eduarda Santos de Jesus (State University of Santa Cruz, Ilhéus, Brazil) / Iago Magella Fernandes Costa Rossi e Silva (State University of Santa Cruz, Ilhéus, Brazil) / Leonardo Bertolucci Coelho (University of Mons, Mons, Belgium) / Marie-Georges Olivier (University of Mons, Mons, Belgium) / Vera Rosa Capelossi (State University of Santa Cruz, Ilhéus, Brazil)

Poster number: P-044

Session: Coatings (WP14)

Abstract ID and Title: 230539, Surface Characterization of Anodized and Bare AA7075-T6 Treated with Fluorozirconic Acid

Presenting author: Jéssica Salles Pinheiro

Authors: Jéssica Salles Pinheiro (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil) / Henrique Piaggio Cardoso (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil) / Claudia Trindade Oliveira (FEEVALE, Novo Hamburgo, Brazil) / Jane Zoppas Ferreira (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre, Brazil)

Poster number: P-045

Session: Coatings (WP14)

Abstract ID and Title: 232860, Effects of thermochemical surface treatments on the surface properties of 316L austenitic stainless steel

Presenting author: Dorina Kovács

Authors: Dorina Kovács (Budapest University of Technology and Economics, Budapest, Hungary) / János Endre Maróti (Budapest University of Technology and Economics, Budapest, Hungary) / János Dobránszky (MTA-BME Research Group for Composite Science and Technology, Budapest, Hungary)

Poster number: P-046

Session: Coatings (WP14)

Abstract ID and Title: 233377, Balance between low corrosion rate and convenient conductivity for anodic applications

Presenting author: Díaz Cristina

Authors: Díaz Cristina (Asociacion de la Industria Navarra, Pamplona, Spain) / Simone Visigalli (Politecnico di Milano, Milan, Italy) / Giuseppe Di Florio (X2 Solutions, Mirandola, Italy)

Poster number: P-047

Session: Coatings (WP14)

Abstract ID and Title: 234059, Influence of the diamond-like carbon coating adherence in the corrosion properties of TiAlV and CoCrMo

Presenting author: Díaz Cristina

Authors: Díaz Cristina (Asociacion de la Industria Navarra, Pamplona, Spain)

Poster number: P-048

Session: Coatings (WP14)

Abstract ID and Title: 238030, 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) / libin liu (Shougang Group Co., Ltd, Research Institute of Technology, beijing, China PR) / jiajie chen (The Pan Asia Technical Automotive Center Co., Ltd., shanghai, China PR)

Poster number: P-049

Session: Coatings (WP14)

Abstract ID and Title: 238591, Corrosion protection of cellulose nanocrystals reinforced acrylate-based composite coating

Presenting author: Yunjuan He

Authors: Yunjuan He (KTH Royal Institute of Technology, Stockholm, Sweden) / Yaman Boluk (University of Alberta, Department of Civil and Environmental Engineering,, T6G 1H9 Edmonton, Alberta, Canada) / Jinshan Pan (KTH Royal Institute of Technology, Stockholm, Sweden) / Anwar Ahniyaz (RISE Research Institutes of Sweden, Stockholm, Sweden) / Tomas Deltin (PTE Coatings AB, Gamleby, Sweden) / Per Claesson (KTH Royal Institute of Technology, Stockholm, Sweden)

Poster number: P-050

Session: Coatings for High Temperatures (WP3 + WP14)

Abstract ID and Title: 175704, Sputtered FeCoNi metallic coating on solid oxide fuel cell steel interconnect

Presenting author: Shujiang Geng

Authors: Shujiang Geng (Northeastern University, Shenyang, China PR) / Fuhui Wang (Northeastern University, Shenyang, China PR)

Poster number: P-051

Session: Coatings for High Temperatures (WP3 + WP14)

Abstract ID and Title: 184658, High temperature oxidation properties of C doped Al₂O₃ coating prepared by cathode plasma electrolytic deposition

Presenting author: Shuguang Zhang

Authors: Shuguang Zhang (Institute of Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR) / Jin Zhang (Institute of Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR) / Yong Lian (Institute of Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR) / Yedong He (Institute of Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China PR)

Poster number: P-052

Session: Coatings for High Temperatures (WP3 + WP14)

Abstract ID and Title: 198265, Isothermal oxidation of black glasses in the form of protective coatings on FeAl based alloy

Presenting author: Maciej Bik

Authors: Maciej Bik (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Janusz Cebulski (Silesian University of Technology, Materials Science Institute, Gliwice, Gliwice, Poland) / Dorota Pasek (Silesian University of Technology, Materials Science Institute, Gliwice, Gliwice, Poland) / Piotr Jeleń (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Mirosław Stygar (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 Długoń (AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Cracow, Poland) / Krzysztof Mrocza (Pedagogical University of Cracow, Institute of Technology, Cracow, Cracow, Poland) / Jan Wyrwa (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)

Poster number: P-053

Session: Coatings for High Temperatures (WP3 + WP14)

Abstract ID and Title: 210882, Oxidation performance of a grain oriented electrical steel

Presenting author: Francisco Velasco

Authors: Francisco Velasco (Universidad Carlos III de Madrid, Leganés Madrid, Spain) / Belen Enciso (Universidad Carlos III de Madrid, Leganes, Spain) / Mariola Pantoja (Universidad Carlos III de Madrid, Leganes, Spain) / Asuncion Bautista (Universidad Carlos III de Madrid, Leganes, Spain)

Poster number: P-054

Session: Coatings for High Temperatures (WP3 + WP14)

Abstract ID and Title: 232695, A Sputtered Nanocrystalline Coating for High Temperature Applications on the Single Crystal Superalloy N5

Presenting author: Jinlong Wang

Authors: Jinlong Wang (Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang, China PR)

Poster number: P-055

Session: Corrosion &; Corrosion Protection of Drinking Water Systems (WP20)

Abstract ID and Title: 190290, CORROSION STUDY OF TWO WATER FILTERS

Presenting author: María García-Martínez

Authors: María Pilar Valles González (National Institute of Aerospace Technology (INTA), Torrejón de Ardoz, Spain) / Ana Pastor Muro (National Institute of Aerospace Technology (INTA), Torrejón de Ardoz, Spain) / María García-Martínez (National Institute of Aerospace Technology (INTA), Torrejón de Ardoz, Spain)

Poster number: P-056

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 174626, Universalism of inhibitors against hydrogen sulfide and carbon dioxide corrosion of steel

Presenting author: Evgeniia Shel

Authors: Evgeniia Shel (Tambov State Technical University, Tambov, Russia) / Liudmila Tsygankova (Derzhavin State University, Tambov, Russia) / Vladimir Vigdorovich (All-Russian Scientific Research Institute of Use of Machinery and Oil Products, Tambov, Russia) / Natalia Shel (Tambov State Technical University, Tambov, Russia)

Poster number: P-057

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 182612, Deposition of Cerium(III)-chloride heptahydrate on Aluminium Alloy 2024-T3 in Chloride Solution

Presenting author: Marin Kurtela

Authors: Marin Kurtela (Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, Zagreb, Croatia) / Vesna Alar (Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, Zagreb, Croatia) / Vinko Šimunović (Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, Zagreb, Croatia) / Suzana Jakovljević (Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, Zagreb, Croatia)

Poster number: P-058

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 186451, Electrochemical and Quantum Chemical Studies on Inhibition of Carbon Steel Corrosion by a new Diphenyl imidazole

Presenting author: MOHAMED OUBAAQA

Authors: MOHAMED OUBAAQA (FACULTY OF SCIENCES KENITRA, KENITRA, Morocco) / MOHAMED EBN TOUHAMI (Laboratory of Materials Engineering and Environment: Modeling and Application, Faculty of Science Kénitra, KENITRA, Morocco) / Adil Belhajjamia (Faculty of Sciences Kénitra, Kénitra, Morocco) / Mohamed MAATALLAH (Faculty of Sceinces Semlalia Marrakech, Marrakech, Morocco) / Abdellah JARID (Faculty of Sciences Semlalia Marrakech, Marrakech, Morocco)

Poster number: P-059

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 201807, Study of amino acids as green corrosion inhibitors for stainless steel in NaCl 3%

Presenting author: Greta de Monserrat Tavarez Martínez

Authors: Juan Pablo León González (Instituto Politécnico Nacional, CICATA-Altamira, Altamira, Mexico) / Edgar Onofre Bustamante (Instituto Politécnico Nacional, CICATA-Altamira, Altamira, Mexico) / Francisco Javier Rodríguez Gómez (Universidad Nacional Autónoma de México, Facultad de Química, Departamento de Metalurgia, Cd. México, Mexico) / Greta de Monserrat Tavarez Martínez (Instituto Politécnico Nacional, CICATA-Altamira, Altamira, Mexico) / Adriana Montiel García (Instituto Politécnico Nacional, CICATA-Altamira, Altamira, Mexico)

Poster number: P-060

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 222300, Electrochemical Noise Analysis for Screening of Potential “Green” Corrosion Inhibitors for Mild Steel in Acid

Presenting author: K.T. Voisey

Authors: K.T. Voisey (University of Nottingham, Nottingham, United Kingdom) / Douglas Mills (The University of Northampton, Northampton, United Kingdom) / O. Ajayi (The University of Nottingham, Nottingham, United Kingdom) / Nicola Everitt (The University of Nottingham, Nottingham, United Kingdom) / Eleanor Binner (The University of Nottingham, Nottingham, United Kingdom)

Poster number: P-061

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 223257, Investigation on the efficiency of corrosion inhibitor in CO₂ and CO₂-H₂S environments.

Presenting author: Roberta Vasques

Authors: Roberta Vasques (Universidade Federal do Ceará, Fortaleza, Brazil) / Walney Araújo (Universidade Federal do Ceará, Fortaleza, Brazil) / Gustavo Vaz (Centro de Pesquisa da Petrobrás, Rio de Janeiro, Brazil) / Alvaro Magalhães (Centro de Pesquisa da Petrobrás, Rio de Janeiro, Brazil) / Marcellus Nascimento (Universidade Federal do Ceará, Fortaleza, Brazil) / Lucas Gomes (Universidade Federal do Ceará, Fortaleza, Brazil)

Poster number: P-062

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 227855, Inhibition of galvanic corrosion by use of mixtures containing RE trivalent ions and organic compounds.

Presenting author: Marco Oliveira

Authors: Marco Oliveira (University of Aveiro, Aveiro, Portugal) / Silvar Kallip (University of Tartu, Tartu, Estonia) / Alexandre Bastos (University of Aveiro, Aveiro, Portugal) / Theodor Hack (Airbus Central R&T, München) / Mikhail Zheludkevich (Helmholtz-Zentrum Geesthacht, Geesthacht) / Mário Ferreira (University of Aveiro, Aveiro, Portugal)

Poster number: P-063

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 233421, Effect of Surface Roughness on the Corrosion Behavior of Pure Iron in Acidic Solutions

Presenting author: Ahmed Alshamsi

Authors: Ahmed Alshamsi (UAE University, Al Ain, United Arab Emirates)

Poster number: P-065

Session: Corrosion and Scale Inhibition (WP1)

Abstract ID and Title: 238096, Aqueous extract of Annona muricata L. fruit peels as natural corrosion inhibitor for carbon steel in acid medium

Presenting author: Abel Vergara

Authors: Abel Vergara (Universidad Nacional de Ingeniería, Lima, Peru) / Pedro Pizarro (Universidad Nacional de Ingeniería, Lima, Peru) / Karin Paucar (Universidad Nacional de Ingeniería, Lima, Peru)

Poster number: P-067

Session: Corrosion by Hot Gases and Combustion Products (WP3)

Abstract ID and Title: 179785, A novel approach to study gas-phase reactions during high-temperature corrosion

Presenting author: Juho Lehmusto

Authors: Juho Lehmusto (Abo Akademi University, Turku, Finland) / Jan Viljanen (Tampere University, Tampere, Finland) / Miska Olin (Tampere University, Tampere, Finland) / Joni Kalliokoski (Tampere University, Tampere, Finland) / Fanni Mylläri (Tampere University, Tampere, Finland) / Juha Toivonen (Tampere University, Tampere, Finland) / Miikka Dal Maso (Tampere University, Tampere, Finland) / Leena Hupa (Abo Akademi University, Turku, Finland)

Poster number: P-068

Session: Corrosion by Hot Gases and Combustion Products (WP3)

Abstract ID and Title: 198903, High Velocity Thermal Spray at NATURGY CT Narcea

Presenting author: Cyril Narjoz

Authors: Cyril Narjoz (IGS Europe, Holasice, Czech Republic)

Poster number: P-069

Session: Corrosion by Hot Gases and Combustion Products (WP3)

Abstract ID and Title: 237711, Heat resistance of type 09G2S steel at temperatures above 450 C

Presenting author: Dmitry Marchenkov

Authors: Dmitry Marchenkov (NIKIET, Moscow, Russia) / Kirill Shutko (NIKIET, Moscow, Russia)

Poster number: P-070

Session: Corrosion by Hot Gases and Combustion Products (WP3)

Abstract ID and Title: 239075, ANALYSIS OF ELECTROCHEMICAL BEHAVIOR AND HIGH TEMPERATURE OXIDATION OF DUCTILE CAST IRONS WITH HIGH SILICON CONTENTS AND ANTIMONY ADDITION.

Presenting author: Sylvia Nathalie Orduz Pérez

Authors: María Ángeles Arenas Vara (Centro Nacional de Investigaciones Metalúrgicas(CENIM-CSIC), Madrid, Spain) / Susana Méndez (IK4-AZTERLAN, Durango(Bizkaia), Spain) / Sandra Judith García Vergara (Universidad Industrial de Santander(UIS), Bucaramanga, Colombia) / Sylvia Nathalie Orduz Pérez (Universidad Industrial de Santander(UIS), Bucaramanga, Colombia) / Andrea Niklas (IK4-AZTERLAN, Durango(Bizkaia), Spain) / Rodolfo González (IK4-AZTERLAN, Durango(Bizkaia), Spain) / Ana Conde del Campo (Centro Nacional de Investigaciones Metalúrgicas(CENIM-CSIC), Madrid, Spain) / Jon Sertucha (IK4-AZTERLAN, Durango(Bizkaia), Spain) / Juan José de Damborenea González (Centro Nacional de Investigaciones Metalúrgicas(CENIM-CSIC), Madrid, Spain)

Poster number: P-071

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 181787, Corrosion protection of AA2024-T3 aluminium alloy by sealed anodic layers using two alditols as corrosion inhibitors

Presenting author: Carla Sofia Proença

Authors: Carla Sofia Proença (Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal) / Jorge Correia (Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal) / Maria Eduarda Araújo (Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal)

Poster number: P-072

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 186770, Study on corrosion behavior of two aluminum coatings in marine environment

Presenting author: Zhongwei Zhan

Authors: Zhongwei Zhan (BIAM, Beijing, China PR) / Zhihua SUN (BIAM, Beijing, China PR) / Chen Luo (AECC Beijing Institute of Aeronautical Materials, Beijing, China PR) / Zhihui Tang (AECC Beijing Institute of Aeronautical Materials, Beijing, China PR) / Qi Zhang (AECC Beijing Institute of Aeronautical Materials, Beijing, China PR)

Poster number: P-073

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 192281, Stripping of aluminium oxide layers for aeronautical application

Presenting author: Norica Carmen Godja

Authors: Norica Carmen Godja (CEST GmbH, Wiener Neustadt, Austria) / Ioana Carmen Vladu (Cest GmbH, Wiener Neustadt, Austria) / Michael Sinnabell (CEST GmbH, Wiener Neustadt, Austria) / Andreas Schindel (CEST GmbH, Wiener Neustadt, Austria) / Andje Stankovic (CEST GmbH, Wiener Neustadt, Austria)

Poster number: P-074

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 193557, Flash-PEO coatings on 2024 aluminium alloy

Presenting author: Marta Mohedano

Authors: Ruben Del Olmo (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Marta Mohedano (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Raul Arrabal (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Angel Pardo (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Peter Visser (AkzoNobel, Sassenheim, Netherlands) / Endzhe Matykina (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain)

Poster number: P-075

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 193821, Phosphate conversion coatings for Mg alloys and Mg alloy-steel assemblies

Presenting author: Borja Pillado

Authors: Borja Pillado (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Ewa Wierzbicka (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Pedro Sanchez-Egido (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Bahram Vaghefiazari (Magnesium Innovation Center, Helmholtz-Zentrum Geesthacht, Geesthacht) / Sviatlana Lamaka (Magnesium Innovation Center, Helmholtz-Zentrum Geesthacht, Geesthacht) / Peter Visser (AkzoNobel, Sassenheim, Netherlands) / Raúl Arrabal (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain) / Endzhe Matykina (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Madrid, Spain)

Poster number: P-076

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 208836, Evaluation of the corrosion protection imparted by trivalent chromium process coatings on aluminium alloys 6061-T6 and 7075-T73 used in aeronautical and aerospace industry

Presenting author: Carla Sofia Proença

Authors: Carla Sofia Proença (Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal) / A. Marisa Pereira (ISQ Instituto de Soldadura e Qualidade, Oeiras, Portugal) / A. Maria Cabral (ISQ Instituto de Soldadura e Qualidade, Oeiras, Portugal) / Maria Araújo (FCUL, Lisboa, Portugal) / Jorge Correia (FCUL, Lisboa, Portugal) / Lucia Pigliaru (ESA, Noordwijk, Netherlands)

Poster number: P-077

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 221134, Characterization of anodic oxide film formed on Ti6Al4V in alkaline NaTESi electrolyte

Presenting author: Sandra Judith Garcia-vergara

Authors: Sandra Judith Garcia-vergara (UNIVERSIDAD INDUSTRIAL DE SANTANDER, BUCARAMANGA, Colombia) / Maria Angeles Arenas Vara (Centro Nacional de Investigaciones Metalúrgicas (CENIM), Madrid, Spain) / Diana Isabel Naranjo-Zuluaga (Universidad Industrial de Santander, Bucaramanga, Colombia) / Ignacio García Diego (Centro Nacional de Investigaciones Metalúrgicas (CENIM), Madrid, Spain)

Poster number: P-078

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 221222, Development of corrosion resistant PEO coatings on AA 2024-T3

Presenting author: Sandra Judith Garcia-vergara

Authors: Sandra Judith Garcia-vergara (UNIVERSIDAD INDUSTRIAL DE SANTANDER, BUCARAMANGA, Colombia) / Maria Angeles Arenas Vara (Centro Nacional de Investigaciones Metalúrgicas (CENIM), Madrid, Spain)

Poster number: P-079

Session: Corrosion Control in Aerospace (WP22)

Abstract ID and Title: 233575, Microcapsules as a self healing layer on corrosion of magnesium alloy with MAO

Presenting author: Monika Ostapiuk

Authors: Monika Ostapiuk (LUBLIN UNIVERSITY OF TECHNOLOGY, LUBLIN, Poland) / Ana C. Marques (CERENA, DEQ, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal) / Jarosław Bieniasz (Lublin University of Technology, Lublin, Poland) / Monica V. Loureiro (CERENA, DEQ, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal) / Barbara Surowska (Lublin University of Technology, Lublin, Poland)

Poster number: P-080

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 173724, Relationship between corrosion resistance of heat shrinkable sleeves (HSS) and different degrees of polyethylenes electron beam crosslinking-A case study

Presenting author: Saied Akhondnasab

Authors: Saied Akhondnasab (National Iranian Gas Company, Tehran, Iran) / Parvin Pourvosoughi Sarcheshmeh (Metaco Metallurgical Center (Chemical Engineer), Tehran, Iran)

Poster number: P-081

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 173966, A Case Study on Applying of FBE On the internal of a natural gas pipeline as a Flow efficiency coating

Presenting author: Saied Akhondnasab

Authors: Saied Akhondnasab (National Iranian Gas Company, Tehran, Iran) / Parvin Pourvosoughi Sarcheshmeh (Chemical engineer, Tehran, Iran)

Poster number: P-082

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 175066, A case study on corrosion control of sour gas pipeline and relevant pigging schedule

Presenting author: Saied Akhondnasab

Authors: Saied Akhondnasab (National Iranian Gas Company, Tehran, Iran) / PARVIN pourvosoughi sarcheshmeh (chemical engineer, Tehran, Iran)

Poster number: P-083

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 175572, An Introduction on the Application of ZnO Thin Film for in situ Monitoring of Steel Sour Corrosion

Presenting author: Seyed Omid Razavi Zadeh

Authors: Seyed Omid Razavi Zadeh (Sharif University of Technology, Tehran, Iran) / Mohammad Ghorbani (Sharif University of Technology, Tehran, Iran) / Azizollah Shafiekhani (Institute for Research in Fundamental Sciences (IPM), Tehran, Iran)

Poster number: P-084

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 178652, Crevice Corrosion Experience of 22Cr DSS Tubing in HT/HP CO₂ containing well

Presenting author: Toshiyuki Sunaba

Authors: Toshiyuki Sunaba (INPEX CORPORATION, Tokyo, Japan) / Hirokazu Yorozu (INPEX, Tokyo, Japan) / Susumu Hirano (INPEX, Tokyo, Japan)

Poster number: P-086

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 181930, Multi-Electrode-Zero-Resistance-Amperometry: Instrumentation and its Application to Corrosion Testing of Longitudinally Welded ERW-Linepipes

Presenting author: Paul Linhardt

Authors: Robert Muggleton (OMV Exploration & Production, Gänserndorf, Austria) / Paul Linhardt (Technische Universität Wien, Inst. for Chemical Technologies and Analytics, Wien, Austria) / Gerald Zehethofer (OMV Exploration & Production, Gänserndorf, Austria) / Maria Victoria Biezma (University of Cantabria, Earth&Materials Science and Engineering Dpt., Santander, Spain)

Poster number: P-087

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 189520, FAILURE ANALYSIS OF A STEEL ELBOW PIPE FROM A GAS WELL

Presenting author: María García-Martínez

Authors: María Pilar Valles González (National Institute of Aerospace Technology (INTA), Torrejón de Ardoz, Spain) / Alejandro González Meije (National Institute of Aerospace Technology (INTA), Torrejón de Ardoz, Spain) / María García-Martínez (National Institute of Aerospace Technology (INTA), Torrejón de Ardoz, Spain) / Ana Pastor Muro (National Institute of Aerospace Technology (INTA), Torrejón de Ardoz, Spain)

Poster number: P-088

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 193029, Cathodic Reduction of Hydrogen from CO₂ Aqueous Solution in Different Pressures

Presenting author: Flávio V. V. De Sousa

Authors: Flávio V. V. De Sousa (LNDC/COPPE/UFRJ, Rio de Janeiro, Brazil) / Pedro R. P. Viana (LNDC/COPPE/UFRJ, Rio de Janeiro, Brazil) / Nathália A. Leite (IFRJ, Rio de Janeiro, Brazil) / Oswaldo E. Barcia (IQ/UFRJ, Rio de Janeiro, Brazil) / Oscar R. Mattos (LNDC/COPPE/UFRJ, Rio de Janeiro, Brazil)

Poster number: P-089

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 205283, Electrochemical investigation of corrosion behavior of 13 mass% Cr martensitic stainless steels in simulated oil and gas environments

Presenting author: Satoshi Sakanoue

Authors: Satoshi Sakanoue (Graduate School of Engineering, Hokkaido University, Sapporo Hokkaido, Japan) / Masatoshi Sakairi (Faculty of Engineering, Hokkaido University, Sapporo Hokkaido, Japan) / Shuji Hashizume (TenarisNKK Tubes, Kawasaki Kanagawa, Japan)

Poster number: P-090

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 208000, Hydrogen permeation studies in sour media using the hollow sensor technique

Presenting author: Jean Kittel

Authors: Gaurav Joshi (IFP Energies Nouvelles, Solaize, France) / Alexandre Bonneau (IFP Energies Nouvelles, Solaize, France) / Jean Kittel (IFP Energies Nouvelles, Solaize, France) / Christophe Mendibide (Institut de la Corrosion, Saint Etienne, France)

Poster number: P-091

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 212169, Sulfide Stress Cracking Resistance of High-Strength Low-Carbon Pipeline Steels

Presenting author: Radmir Mukhamejanov

Authors: Igor Pyshmintsev (The Russian Scientific Research Institute of the Pipe and Tube Industry (RosNITI), Chelyabinsk, Russia) / Anna Maltseva (The Russian Scientific Research Institute of the Pipe and Tube Industry (RosNITI), Chelyabinsk, Russia) / Mikhail Smirnov (The Russian Scientific Research Institute of the Pipe and Tube Industry (RosNITI), Chelyabinsk, Russia) / Radmir Mukhamejanov (The Russian Scientific Research Institute of the Pipe and Tube Industry (RosNITI), Chelyabinsk, Russia)

Poster number: P-092

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 212224, Microstructure and Properties of Steels Used for High-Strength Casings and Tubings Manufacturing

Presenting author: Anna Maltseva

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Poster number: P-093

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 212620, Characterization of corrosion scales formed in the production tubes used in the oil and gas

Presenting author: Magdalena Rogowska

Authors: Magdalena Rogowska (Technical University of Denmark, Kongens Lyngby, Denmark) / Yan Yang (Technical University of Denmark, Kgs. Lyngby, Denmark) / Abhijeet Yadav (Technical University of Denmark, Kgs. Lyngby, Denmark) / Rajan Ambat (Technical University of Denmark, Kgs. Lyngby, Denmark)

Poster number: P-094

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 215931, Hydrogen Charging of Armco Iron and L80 Steel in various Electrolytes

Presenting author: Mathias Truschnner

Authors: Mathias Truschnner (Montanuniversitaet Leoben, Leoben, Austria) / Anton Trautmann (Montanuniversitaet Leoben, Leoben, Austria) / Wolfgang Siegl (Montanuniversitaet Leoben, Leoben, Austria) / Gregor Mori (Montanuniversitaet Leoben, Leoben, Austria)

Poster number: P-095

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 221673, Corrosion Inhibitor Study for Steam Flood Application under Sour Environment

Presenting author: Haitao Fang

Authors: Haitao Fang (Baker Hughes, Sugar Land, United States of America) / Tracey Jackson (Baker Hughes, A GE Company, Sugar Land, United States of America) / Johnathon Brooks (Baker Hughes, A GE Company, Sugar Land, United States of America)

Poster number: P-096

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 225270, Evaluation of the influence of intermetallic phase precipitation on corrosion resistance the superferritic stainless steel

Presenting author: ursula pereira

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Poster number: P-097

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 225435, Corrosion Inhibitor Study with Carbon Steel in a Wet Supercritical CO₂ Environment

Presenting author: Tracey Jackson

Authors: Tracey Jackson (Baker Hughes, Sugar Land, United States of America) / Zhengwei Liu (Baker Hughes, Sugar Land, TX, United States of America) / Jonathan Stewart-Ayala (Baker Hughes, Sugar Land, TX, United States of America)

Poster number: P-098

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 225776, Hydrogen embrittlement in quenched and tempered 9%Ni steel

Presenting author: Jonas Sá

Authors: Jonas Sá (UFRJ, Rio de Janeiro, Brazil) / José Gomes (UFRJ, Petrópolis, Brazil)

Poster number: P-099

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 227646, Can Thin Film Coatings Really Protect Base Substrates in the Acidic and Alkaline Environments ?

Presenting author: Gareth Berry

Authors: Gareth Berry (Whitford Ltd, Runcorn Cheshire, United Kingdom)

Poster number: P-100

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 228284, On the kinetic of formation and degradation of CO₂ corrosion products on carbon steel: influencing of CO₂ pressure and O₂ presence

Presenting author: Tiago Falcade

Authors: Mariana dos Reis Tagliari (LAMEF - Physical Metallurgy Laboratory, Post-Graduation Program in Mining, Metallurgical and Materials Engineering, Federal University of Rio Grande do Sul, Brazil, Porto Alegre, Brazil) / Derek Fonseca de Souza (LAMEF - Physical Metallurgy Laboratory, Post-Graduation Program in Mining, Metallurgical and Materials Engineering, Federal University of Rio Grande do Sul, Brazil, Porto Alegre, Brazil) / Adriana Lopes Barros (LAMEF - Physical Metallurgy Laboratory, Post-Graduation Program in Mining, Metallurgical and Materials Engineering, Federal University of Rio Grande do Sul, Brazil, Porto Alegre, Brazil) / Ricardo Feyh Ribeiro (LAMEF - Physical Metallurgy Laboratory, Post-Graduation Program in Mining, Metallurgical and Materials Engineering, Federal University of Rio Grande do Sul, Brazil, Porto Alegre, Brazil) / Marcelo Favaro Borges (LAMEF - Physical Metallurgy Laboratory, Post-Graduation Program in Mining, Metallurgical and Materials Engineering, Federal University of Rio Grande do Sul, Brazil, Porto Alegre, Brazil) / Tiago Falcade (LAMEF - Physical Metallurgy Laboratory, Post-Graduation Program in Mining, Metallurgical and Materials Engineering, Federal University of Rio Grande do Sul, Brazil, Porto Alegre, Brazil)

Poster number: P-101

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 233025, Effect of ion chloride on corrosion behaviour of high strength carbon steel in CO₂ systems at near neutral pH

Presenting author: Jonas Sá

Authors: Tatiane Campos (UFRJ, Rio de Janeiro - RJ, Brazil) / Emanuel Campos (UFRJ, Rio de Janeiro, Brazil) / José Antônio Gomes (UFRJ, Rio de Janeiro, Brazil) / Jonas Sá (UFRJ, Rio de Janeiro, Brazil) / Jonas Sá (UFRJ, RIO DE JANEIRO, Brazil)

Poster number: P-102

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 233300, Pyrazolone derivatives as novel acidizing corrosion inhibitor for N80 steel useful for petroleum industry

Presenting author: Dheeraj Chauhan

Authors: Dheeraj Chauhan (Center of Research Excellence in Corrosion, Research Institute, King Fahd, Dhahran , Saudi Arabia) / M. A. Quraishi (Center of Research Excellence in Corrosion, Research Institute, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia., Dhahran , Saudi Arabia)

Poster number: P-103

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 234466, Dominant corrosive impurities and prevailing threats in upstream gas handling facility

Presenting author: Adel Al-Mutairi

Authors: Abdulwahab Al-Ahmad (Kuwait Oil Company, Ahmadi, Kuwait) / Adel Al-Mutairi (Kuwait Oil Company, Ahmadi, Kuwait) / Samudraga Suryaprakash (Kuwait Oil Company, Ahmadi, Kuwait) / Mathusoothanan Subramanian (Kuwait Oil Company, Ahmadi, Kuwait) / Hamza Ajmerwala (Kuwait Oil Company, Ahmadi, Kuwait) / Ashok Mathew (Kuwait Oil Company, Kuwait, Kuwait)

Poster number: P-104

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 235280, Features of technology of calcium and cerium modification of pipe steels with the requirement for resistance to H₂S-environments

Presenting author: Evgeniy Mursenkov

Authors: Evgeniy Mursenkov (Vyksa Steel Works (VSW), Vyksa, Russia) / Dmitry Kudashov (Vyksa Steel Works, Vyksa, Russia) / Vitaly Naumenko (Vyksa Steel Works, Vyksa, Russia)

Poster number: P-105

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 235555, Corrosion in Oil & Gas Production

Presenting author: Ahmed Butt

Authors: Ahmed Butt (Oil & Gas Development Company Ltd., Lahore, Pakistan)

Poster number: P-106

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 236028, Introducing the MSE-SRK Model: A Thermodynamic Framework to Maximize the Accuracy of Predicting Phase Equilibria in Systems Containing Sour Gases, Electrolytes and Hydrocarbons

Presenting author: Diana Miller

Authors: Diana Miller (OLI Systems, Inc., Cedar Knolls, United States of America) / Andre Anderko (OLI Systems, Inc., Cedar Knolls, United States of America) / Ron Springer (OLI Systems, Inc., Cedar Knolls, United States of America)

Poster number: P-107

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 236182, Selection of the inhibitor protection technology for wet sour gas pipelines

Presenting author: Irina Kostitsyna

Authors: Irina Kostitsyna (RN-BashNIPIneft, Ufa, Russia) / Rustam Valiakhmetov (RN-BashNIPIneft, Ufa, Russia) / Ilnur Khusnullin (RN-BashNIPIneft, Ufa, Russia) / Vyasheslav Lunev (Bashneft Production, Ufa, Russia)

Poster number: P-108

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 236666, Experimental investigation of crevice corrosion of tensile armour wires in simulated annulus environments

Presenting author: Pedro Netto da Silva

Authors: Pedro Netto da Silva (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil) / Érica Vidaurre Senatore (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil) / José Antônio da Cunha Ponciano Gomes (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil)

Poster number: P-109

Session: Corrosion in Oil & Gas Production (WP13)

Abstract ID and Title: 237843, EFFECT OF POLYSACCHARIDES ON CORROSION OF CARBON STEEL

Presenting author: Ilya Valekzhanin

Authors: Ilya Valekzhanin ("RN-BashNIPIneft" LLC, Ufa, Russia) / Alexander Voloshin ("RN-BashNIPIneft" LLC, Ufa, Russia) / Vladimir Dokichev ("RN-BashNIPIneft" LLC, Ufa, Russia) / Victor Gusakov ("RN-BashNIPIneft" LLC, Ufa, Russia)

Poster number: P-110

Session: Corrosion in the Refinery and Petrochemistry Industry (WP15)

Abstract ID and Title: 227316, Amine Corrosion in H₂S removal units : HSAS or poor operating conditions, Which one is more responsible ?

Presenting author: Askar Soltani

Authors: Askar Soltani (Senior Corrosion Engineer, SPGC (South Pars Gas Complex), Tehran, Iran) / Reza Zareie (Head of Inspection Department, 9th Refinery of South Pars Gas Complex, Assalauyeh, Iran) / Farzanfar Koorosh (Head of Mechanical Inspection Dept., 9th Refinery of South Pars Gas Complex, Assaluyeh, Iran) / Mojtaba Zamani (Head of Corrosion Inspection Dept., 9th refinery of South Pars Gas Complex, Assaluyeh, Iran)

Poster number: P-111

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 175154, Corrosion behavior of LDX2101 and 2304 duplex stainless steel for weld parts in aqueous chloride solution

Presenting author: Kazuhiro Shigyo

Authors: Kazuhiro Shigyo (Mitsubishi electric corporation, Amagasaki, Hyogo, Japan) / Seiji Noda (Mitsubishi electric corporation, Amagasaki, Hyogo, Japan) / Georgeanna Kawaley (Mitsubishi Electric R&D Centre Europe , Livingston, United Kingdom)

Poster number: P-112

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 177981, Parameters for ranking pitting resistance of materials

Presenting author: Yongsun Yi

Authors: Yongsun Yi (Khalifa University, Abu Dhabi, United Arab Emirates) / Pyungyeon Cho (Khalifa University, Abu Dhabi, United Arab Emirates) / Sara Al Saadi (Federal Authority for Nuclear Regulation, Abu Dhabi, United Arab Emirates) / Changheui Jang (Korea Advanced Institute of Science & Technology, Daejeon, Korea, South)

Poster number: P-113

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 180280, Temperature effect in highly alloyed stainless steels behaviour

Presenting author: Tamara Cordoba

Authors: Tamara Cordoba (ACERINOX EUROPA S.A.U., Los Barrios, Spain) / Victoria Matres (ACERINOX EUROPA S.A.U., Los Barrios, Spain)

Poster number: P-114

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 180588, Corrosion rates of 1020 carbon steel anchor rods in soil by electrochemical frequency modulation (EFM)

Presenting author: Tiago Scheffer de Matos

Authors: Tiago Scheffer de Matos (Lactec/Universidade Federal do Paraná, Curitiba, Brazil) / Kleber Franke Portella (Lactec/Universidade Federal do Paraná, Curitiba, Brazil) / Sérgio Luiz Henke (Universidade Federal do Paraná, Curitiba, Brazil) / Mariana D'Orey Gaivão Portella Bragança (Lactec, Curitiba, Brazil) / Alessandro Cesar de Sousa Berrêdo (Transmissora Aliança de Energia Elétrica S.A. TAESA, Rio de Janeiro, Brazil)

Poster number: P-115

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 181644, Electrochemical behavior of hierarchically nanostructured copper dendrites in alkaline media

Presenting author: Bowei Zhang

Authors: Bowei Zhang (University of Science and Technology Beijing, BEIJING, China PR)

Poster number: P-116

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 181754, Effects of pH on the inhibition performance of Al³⁺ on mild steel corrosion in NaCl aqueous solution

Presenting author: Masatoshi Sakairi

Authors: Md. Saiful Islam (Graduate School of Engineering, Hokkaido University, Sapporo, Japan) / Masatoshi Sakairi (Faculty of Engineering, Hokkaido University, Sapporo, Japan)

Poster number: P-117

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 183976, CORROSION OF TITANIUM ALLOYS IN PRESSURISED WATER AT 300 °C AND 350 °C

Presenting author: Sabrina Selva

Authors: Sabrina Selva (Den-SERVICE de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Quentin Bignon (Den-SERVICE de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Quentin Auzoux (Den-SERVICE de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Frantz Martin (Den-SERVICE de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Amandine Raynal (Den-SERVICE de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Frédéric Miserque (Den-SERVICE de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Michel Tabarant (Den-SERVICE d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France) / Laurence Latu-romain (Université Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000 Grenoble, France) / Yves Wouters (Université Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000 Grenoble, France)

Poster number: P-118

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 186330, Influence of the cation force diffusion on thermal oxidation of metals

Presenting author: Zohra HALEM

Authors: Nacer Halem (University, TIZI OUZOU, Algeria) / Zohra HALEM (University, Bouira, Algeria) / Mariora ABRUDEANU (University, Pitesti, Romania) / Georgette Petot-Ervias (CNRS-CEA, Gif sur Yvette, France)

Poster number: P-119

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 188585, ENA study of different properties of interface between fillers and binder on the delamination kinetics of Zn and MIO pigmented epoxy coatings

Presenting author: Boleslav Eremias

Authors: Boleslav Eremias (SVUOM Ltd., Praha 7 - Holesovice, Czech Republic) / Lubomir Mindos (SVUOM Ltd., Prague, Czech Republic) / Libor Turek (SVUOM Ltd., Prague, Czech Republic) / Libuse Hochmannova (SYNPO Inc., Pardubice, Czech Republic)

Poster number: P-120

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 195581, The factors influencing on aluminum anodic behavior at the elevated temperatures

Presenting author: Svetlana Kaluzhina

Authors: Svetlana Kaluzhina (Voronezh State University, Voronezh, Russia) / Tatiana Minakova (Voronezh State University, Voronezh, Russia)

Poster number: P-121

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 196791, Influence of Cu Contents on Electrochemical Behavior of Flux-Cored Arc-Welded Metal with 10CrNi3MoV Steel

Presenting author: Yi Jianglong

Authors: Yi Jianglong (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Ben Niu (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Yu Wang (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Kai Wang (Foshan University, Guangzhou, China PR) / Yaoyong Yi (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Miao Shu (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR)

Poster number: P-122

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 201587, Local activation of the iron at non-isothermal conditions in hydrocarbonate media

Presenting author: Maria Sanina

Authors: Maria Sanina (Voronezh State Pedagogical University, Voronezh, Russia) / Natalia Nafikova (Voronezh State University, Voronezh, Russia) / Svetlana Kaluzhina (Voronezh State University, Voronezh, Russia)

Poster number: P-123

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 203897, Non-destructive corrosion monitoring using portable gels with agar-glycerol electrolyte

Presenting author: Asuncion Bautista

Authors: Asuncion Bautista (Carlos III University of Madrid, Leganés, Spain) / Gleidys Monrrabal (Centro Nacional de Investigaciones Metalúrgicas, Madrid, Spain) / Susana Guzman (Universidad Carlos III de Madrid, Leganes, Spain) / Francisco Velasco (Universidad Carlos III de Madrid, Leganes, Spain)

Poster number: P-124

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 204194, Results of 1 and 3 years of metallic coupons exposure in soil

Presenting author: Katerina Kreislova

Authors: Katerina Kreislova (SVUOM Ltd., Praha 7, Czech Republic) / Dusan Majtas (CET ITAM CAS, Telc, Czech Republic) / Pavlina Fialova (SVUOM Ltd., Prague, Czech Republic)

Poster number: P-125

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 205250, The Influence of Dissolved Gas on the Anodic Passivation of Copper in Seawater: The Role of Gases as Surfactants

Presenting author: Amelia Langley

Authors: Amelia Langley (University of Bath, Bath, United Kingdom) / Frank Marken (University of Bath, Bath, United Kingdom)

Poster number: P-127

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 206020, Corrosion and degradation behaviour of Mg-Nd alloys as potential bioresorbable implants

Presenting author: Alessio Gullino

Authors: Alessio Gullino (Politecnico di Torino Dipartimento di Elettronica e Telecomunicazioni, Torino, Italy) / Nick Birbilis (Australian National University, College of Engineering and Computer Science, Canberra, Australia) / Mohsen Esmaily (Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA, Melbourne, Australia) / Laurence Meagher (Monash University Department of Materials Science and Engineering, Melbourne, Australia) / Sabrina Grassini (Politecnico di Torino Dipartimento di Scienza Applicata e Tecnologia, Torino, Italy) / Emma Angelini (Politecnico di Torino Dipartimento di Scienza Applicata e Tecnologia, Torino, Italy)

Poster number: P-128

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 211146, Electrochemical Investigation of Ion Diffusion through Polymer Membranes in Combination with FEM Modelling

Presenting author: Lars Varain

Authors: Lars Varain (TU Wien, Wien, Austria) / Silvia Larisegger (KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Villach, Austria) / Michael Nelhiebel (KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Villach, Austria) / Günter Fafilek (TU Wien, Vienna, Austria)

Poster number: P-129

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 212081, The effect of crystal form and crystal face on the oxidation behavior of monocrystalline SiC platelet

Presenting author: Enhui Wang

Authors: Enhui Wang (University of Science and Technology Beijing, Beijing, China PR) / Hang Ye (University of Science and Technology Beijing, Beijing, China PR) / Enxia Xu (Zhengzhou University, Zhengzhou, China PR) / Xinmei Hou (University of Science and Technology Beijing, Beijing, China PR) / Kuochih Chou (University of Science and Technology Beijing, Beijing, China PR)

Poster number: P-130

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 213082, Selective laser melting of Inconel 718 and Hastelloy-X alloys: microstructure and corrosion properties

Presenting author: Juan Jose Damborenea Gonzalez

Authors: Juan Jose Damborenea Gonzalez (CENIM (C.S.I.C.), Madrid, Spain) / Maria Angeles Arenas (CENIM-CSIC, Madrid, Spain) / Rudymilla Septimio (University of Campinas, Campinas, Brazil) / Ana Conde (CENIM-CSIC, Madrid, Spain) / Ignacio Garcia (CENIM-CSIC, Madrid, Spain) / Javier Diaz (ITP, Zamudio, Spain) / Marc Gardon (Renishaw Iberica SAU, Barcelona, Spain)

Poster number: P-131

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 214534, Scaffolds of Ti6Al4V alloy: Influence of the geometry –induced dispersion on EIS spectra

Presenting author: A. Conde

Authors: A. Conde (National Centre for Metallurgical Research (CENIM-CSIC), Av. Gregorio del Amo 8, Madrid, Spain) / G. A. Longhitano (National Institute of Biofabrication (INCT-BIOFABRIS), Albert Einstein Avenue 500 // School of Mechanical Engineering, State University of Campinas, Mendeleyev Street 200, Campinas, Brazil) / M. A. Arenas (National Centre for Metallurgical Research (CENIM-CSIC), Av. Gregorio del Amo 8, Madrid, Spain) / A. L. Jardini (National Institute of Biofabrication (INCT-BIOFABRIS), Albert Einstein Avenue 500 // School of Chemical Engineering, State University of Campinas, Albert Einstein Avenue 500, Campinas, Brazil) / C. A. de Carvalho Zavaglia (National Institute of Biofabrication (INCT-BIOFABRIS), Albert Einstein Avenue 500 // School of Mechanical Engineering, State University of Campinas, Mendeleyev Street 200, Campinas, Brazil) / J. J. de Damborenea (National Centre for Metallurgical Research (CENIM-CSIC), Av. Gregorio del Amo 8, Madrid, Spain)

Poster number: P-132

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 215601, The Laboratory Simulation and Electrochemical monitor techniques for Corrosion Under Insulation

Presenting author: Wei-Jen Li

Authors: Wei-Jen Li (Industrial Technology Research Institute, Hsinchu, Taiwan) / Cheng-Yang Tsai (Industrial Technology Research Institute, Hsinchu, Taiwan)

Poster number: P-133

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 219407, DESIGN, CONSTRUCTION AND VALIDATION OF A HIGH-SPEED THERMAL CYCLING EQUIPMENT

Presenting author: Eduardo Diaz

Authors: Eduardo Diaz (77805497q, SEVILLA, Spain) / Francisco Ruiz Cabañas (Abengoa, Seville, Spain) / Jose María Gallardo Fuentes (Seville University, Sevilla, Spain) / Cristina Prieto Rios (Abengoa, Sevilla, Spain)

Poster number: P-134

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 220166, Design and evaluation of an accelerated laboratory cycling test tailored for the screening of protective systems for an aggressive marine environment

Presenting author: Maria Angeles Arenas Vara

Authors: Maria Angeles Arenas Vara (Centro Nacional de Investigaciones Metalurgicas, Madrid, Spain) / Paulino Aparicio (RED ELECTRICA DE ESPAÑA, S.A., Madrid, Spain) / Juan J. de Damborenea (National Center for Metallurgical Research, CENIM/CSIC, Madrid, Spain) / José Francisco Tubino (RED ELECTRICA DE ESPAÑA, S.A., Madrid, Spain) / Ana Conde (National Center for Metallurgical Research, CENIM/CSIC, Madrid, Spain) / Miguel Lorenzo (RED ELECTRICA DE ESPAÑA S.A., Madrid, Spain) / Raquel Lara (RED ELECTRICA DE ESPAÑA, REE, S.A., Madrid, Spain) / Raul Hidalgo (RED ELECTRICA DE ESPAÑA, REE, S.A., Madrid, Spain) / Ignacio Garcia (National Center for Metallurgical Research, CENIM/CSIC, Madrid, Spain)

Poster number: P-135

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 221574, Jet Impingement Apparatus for High Temperature/High Pressure Testing

Presenting author: Carlos Menendez

Authors: Jason Moses (Baker Hughes GE, Sugar Land, United States of America) / Carlos Menendez (Baker Hughes BHGE, Sugar Land, United States of America) / Zhengwei Liu (Baker Hughes GE, Sugar Land, United States of America) / Tracey Jackson (Baker Hughes GE, Sugar Land, United States of America) / Peng Jin (Baker Hughes, Sugar Land, United States of America)

Poster number: P-136

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 221629, Improved Methodologies for Mimicking High Fluid-Level Wells in Corrosion Testing

Presenting author: Michael Whiteside

Authors: Jason Moses (Baker Hughes GE, Sugar Land, United States of America) / Michael Whiteside (Baker Hughes GE, Sugar Land, United States of America) / Jeremy Leidensdorf (Baker Hughes GE, Sugar Land, United States of America)

Poster number: P-137

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 223433, Study of the degradation of heat exchanger materials in the acidic environment of Teide National Park

Presenting author: Leyre Catalán

Authors: Leyre Catalán (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Gurutze Pérez (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Carlos Berlanga (Public University of Navarre. Institute for Advanced Materials, Pamplona, Spain) / Amaia Garacochea (Public University of Navarre, Pamplona, Spain) / Antonio Rodríguez (Public University of Navarre. Institute of Smart Cities, Pamplona, Spain) / Vidal Domínguez (Instituto Volcanológico 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) / Nemesio Pérez (Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain)

Poster number: P-138

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 229516, Pitting corrosion and oxide growth on copper in physiological buffers

Presenting author: Jiaqi Luo

Authors: Jiaqi Luo (Saarland University, Saarbrücken) / Christina Hein (Saarland University, Saarbrücken) / Jean-François Pierson (University of Lorraine, Nancy, France) / Frank Mücklich (Saarland University, Saarbrücken)

Poster number: P-139

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 230231, Magnesium reactivity in hybrid (water-ionic liquids mixtures) electrolytes

Presenting author: Dmitry Kurchavov

Authors: Dmitry Kurchavov (Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Virginie Lair (Institut de Recherche de Chimie Paris (IRCP), Paris, France) / Polina Volovitch (Institut de Recherche de Chimie Paris (IRCP), Paris, France)

Poster number: P-140

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 231243, Non-Destructive Detection of Hot Corrosion

Presenting author: Astrid Blee

Authors: Astrid Blee (Interface Analysis Centre, University of Bristol, Bristol, United Kingdom)

Poster number: P-141

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 231683, Effects of chloride ion concentration on the corrosion behavior of the AA2198-T8 alloy

Presenting author: Caruline Machado

Authors: Caruline Machado (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Rejane Silva (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / João Victor Araujo (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Uyime Donatus (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Mariana Milagre (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Rafael Klumpp (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Jesualdo Rossi (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Isolda Costa (Instituto de Pesquisas Energéticas e Nucleares, Jandira, Brazil)

Poster number: P-142

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 231793, Influence of surface finishing on the electrochemical activity of the 2098-T351 aluminum alloy

Presenting author: Rejane Silva

Authors: Rejane Silva (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Mariana Milagre (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Leandro Oliveira (Universidade Federal do ABC, São Bernardo do Campo, Brazil) / Renato Antunes (Universidade Federal do ABC, São Bernardo do Campo, Brazil) / Uyime Donatus (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil) / Isolda Costa (Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil)

Poster number: P-143

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8))

Abstract ID and Title: 232068, Corrosion of VM12 SHC in Salt melt

Presenting author: Axel Kranzmann

Authors: Axel Kranzmann (Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin) / Jan Midtlyng (Bundesanstalt für Materialforschung und -prüfung Berlin, Berlin) / Isabel-Verena Schlitte (TH Köln, Köln)

Poster number: P-144

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8)

Abstract ID and Title: 232343, LocalProber – 3D resolved topographical SVET for localized corrosion observation

Presenting author: Silvar Kallip

Authors: Silvar Kallip (University of Tartu / Institute of Chemistry, Tartu, Estonia) / Tõnis Oppe (Tehnolabor OÜ, Tallinn, Estonia) / Erik Levoll (Tehnolabor OÜ, Tallinn, Estonia) / Olavi Oppel (Tehnolabor OÜ, Tallinn, Estonia) / Kalle Tiisma (Tehnolabor OÜ, Tallinn, Estonia) / Toomas Vinter (Tehnolabor OÜ, Tallinn, Estonia)

Poster number: P-145

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8)

Abstract ID and Title: 234664, Evaluation of the electrochemical behavior of Al-10wt%Sn-10wt%Cu and Al-20 wt%Sn-10wt%Cu tribological alloys

Presenting author: Felipe Bertelli

Authors: Felipe Bertelli (Santa Cecilia University, Santos São Paulo, Brazil) / Maria Angeles Arenas (National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain) / Ana Conde (National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain) / Juan De Damborenea (National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain) / Emmanuelle Sá Freitas (Federal University of São Paulo, UNIFESP, Santos, Brazil) / Noé Cheung (University of Campinas, UNICAMP, Campinas, Brazil) / Amauri Garcia (University of Campinas, UNICAMP, Campinas, Brazil)

Poster number: P-146

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8)

Abstract ID and Title: 235907, Influence of corrosion products on localized corrosion kinetics

Presenting author: Talha Qasim Ansari

Authors: Talha Qasim Ansari (The Hong Kong Polytechnic University, Hong Kong, Hong Kong) / San-Qiang Shi (The Hong Kong Polytechnic University, Hong Kong, Hong Kong)

Poster number: P-147

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8)

Abstract ID and Title: 235984, Development of novel in-situ methods for real-time monitoring of corrosion rates

Presenting author: Mark Bruns

Authors: Mark Bruns (University Erlangen-Nürnberg (FAU), Erlangen) / Michael Strebl (University Erlangen-Nürnberg (FAU), Erlangen) / Sannakaisa Virtanen (University Erlangen-Nürnberg (FAU), Erlangen)

Poster number: P-148

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8)

Abstract ID and Title: 236380, Passivation-induced modifications of well-defined surface oxide films on single crystalline model 304 stainless steel

Presenting author: Li Ma

Authors: Li Ma (CNRS - Chimie ParisTech, Paris, France) / Frédéric Wiame (CNRS - Chimie ParisTech, Paris, France) / Vincent Maurice (CNRS - Chimie ParisTech, Paris, France) / Philippe Marcus (CNRS - Chimie ParisTech, Paris, France)

Poster number: P-149

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8)

Abstract ID and Title: 236435, Passivation-induced modifications of well-defined surface oxide films on single crystalline model 304 stainless steel

Presenting author: Vincent Maurice

Authors: Li Ma (CNRS - Chimie ParisTech, Paris, France) / Frédéric Wiame (CNRS - Chimie ParisTech, Paris, France) / Vincent Maurice (CNRS - Chimie ParisTech, Paris, France) / Philippe Marcus (CNRS - Chimie ParisTech, Paris, France)

Poster number: P-150

Session: Corrosion mechanisms, methods and modelling (3M, WP6 & 8)

Abstract ID and Title: 238217, Austempering of Martensitic Stainless Steels and the Influence to Corrosion Resistance

Presenting author: Matthias Sorg

Authors: Matthias Sorg (Institute of Materials System Technology Thurgau (WITg), Tägerwilen, Switzerland) / Paul Gümpel (Institute of Materials System Technology Thurgau (WITg), Tägerwilen, Switzerland) / Arnulf Hörtnagl (Institute of Materials System Technology Thurgau (WITg), Tägerwilen, Switzerland)

Poster number: P-151

Session: Corrosion of Archaeological and Historical Artefacts (WP21)

Abstract ID and Title: 218439, Conservation of metals in scientific and technological heritage

Presenting author: Ana Crespo

Authors: Ana Crespo (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Blanca Ramírez-Barat (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Ivan Díaz (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Jenifer Alcántara (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Daniel de la Fuente (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain) / Emilio Cano (Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Madrid, Spain)

Poster number: P-152

Session: Corrosion of Archaeological and Historical Artefacts (WP21)

Abstract ID and Title: 228009, Characterization of Santa Casa's graveyard statuary produced by electroplating

Presenting author: Lucas Viegas

Authors: Lucas Viegas (UFRGS, Porto Alegre, Brazil) / Carlos Ferreira (UFRGS, Porto Alegre, Brazil) / Jane Zoppas Ferreira (UFRGS, Porto Alegre, Brazil)

Poster number: P-153

Session: Corrosion of Archaeological and Historical Artefacts (WP21)

Abstract ID and Title: 236600, Natural Corrosion inhibitors for conservation and restoration of historical objects of cast iron

Presenting author: Francisco J. Rodriguez-Gomez

Authors: Francisco J. Rodriguez-Gomez (Universidad Nacional Autonoma, Mexico CDMX, Mexico) / Araceli Espinoza-Vazquez (UNAM FACULTAD DE QUIMICA, Mexico, Mexico) / Guillermo E. Negron-Silva (UAM-Azcapotzalco, Mexico, Mexico)

Poster number: P-154

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 193700, Characterization and corrosion resistance of Mg-Zn-Ca alloys for biomedical applications

Presenting author: Lara Moreno

Authors: Lara Moreno (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, Spain) / Marta Moledano (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, Spain) / Raul Arrabal (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, Spain) / Angel Pardo (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, Spain) / Carsten Blawert (Magnesium Innovation Center, Helmholtz-Zentrum Geesthacht, Geesthacht) / Endzhe Matykina (Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, Spain)

Poster number: P-155

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 195163, Study of electrochemical proprieties of bio-inspired coating based ErGO

Presenting author: Greta de Monserrat Tavarez Martínez

Authors: Greta de Monserrat Tavarez Martínez (Instituto Politécnico Nacional, CICATA- UA , Altamira, Tamps., Mexico) / Edgar Onofre Bustamante (Instituto Politécnico Nacional, CICATA- UA , Altamira, Mexico) / María Cristina García Alonso (Centro Nacional de Investigaciones Metalúrgicas, Consejo Superior de Investigaciones Científicas, Madrid, Spain) / María Lorenza Escudero Rincón (Centro Nacional de Investigaciones Metalúrgicas, Consejo Superior de Investigaciones Científicas, Madrid, Spain) / Juan Pablo León González (Instituto Politécnico Nacional, CICATA- UA , Altamira, Mexico) / Adriana Montiel García (Instituto Politécnico Nacional, CICATA- UA , Altamira, Mexico)

Poster number: P-156

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 196076, Corrosion degradation of Mg1Ca1Si alloy in Ringer solution

Presenting author: Maria Starowicz

Authors: Maria Starowicz (AGH-University of Science and Technology, Faculty of Foundry Engineering, Kraków, Poland) / Iryna Kozina (AGH-University of Science and Technology, Faculty of Foundry Engineering, Kraków, Poland) / Patrycja Buras (AGH-University of Science and Technology, Faculty of Foundry Engineering, Kraków, Poland) / Magdalena Kawalec (AGH-University of Science and Technology, Faculty of Foundry Engineering, Kraków, Poland) / Marcin Piękoś (AGH-University of Science and Technology, Faculty of Foundry Engineering, Kraków, Poland) / Halina Krawiec (AGH-University of Science and Technology, Faculty of Foundry Engineering, Kraków, Poland)

Poster number: P-157

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 200960, CHARACTERIZATION AND SYNTHESIS MAGNETITE FILMS OBTAINED BY AN INNOVATIVE METHOD

Presenting author: Edgar Onofre

Authors: Edgar Onofre (CICATA-IPN, U. Altamira, Altamira Tamaulipas, Mexico) / Adriana Montiel García (CICATA-IPN, U. Altamira, Altamira , Mexico) / María Escudero Rincon (CENIM, Madrid , Spain) / Greta de Monserrat Tavarez Martínez (CICATA-IPN, U. Altamira, Altamira, Mexico) / Juan Pablo León González (CICATA-IPN, U. Altamira, Altamira, Mexico)

Poster number: P-158

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 201994, Study of the Corrosion behavior of de TiO2/CeO2 coating on Ti6Al4V alloy

Presenting author: Edgar Onofre

Authors: Edgar Onofre (CICATA-IPN, U. Altamira, Altamira Tamaulipas, Mexico) / Monserrat Tavarez Martínez (CICATA-IPN, U. Altamira, Altamira, Mexico) / Edna De la Cruz terrazas (CONACYT-CICATA-IPN, U. Altamira, Altamira, Mexico) / Adriana Montiel García (CICATA-IPN, U. Altamira, Altamira, Mexico) / María Escudero Rincón (CENIM-CSIC, Madrid , Spain) / Juan Pablo León González (CICATA-IPN, U. Altamira, Altamira, Mexico)

Poster number: P-159

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 211993, Corrosion behavior of additively manufactured 304 stainless steel in acidic media

Presenting author: ZHIJUN ZHENG

Authors: ZHIJUN ZHENG (SOUTH CHINA UNIVERSITY OF TECHNOLOGY, GUANGZHOU, China PR)

Poster number: P-160

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 213170, In vitro corrosion resistance and in vivo osseointegration testing of new TiAlNbTaMo alloy as candidate implant biomaterial

Presenting author: Juan J. Santana

Authors: Juan J. Santana (University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain) / Lucia Carmen Trincă ("Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania) / Daniel Mareci ("Gheorghe Asaghi" Technical University of Iasi, Iasi, Romania) / Carmen Solcan ("Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania) / Mircea Fântâniariu ("Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania) / Liviu Burtan ("Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania) / Luminița-Diana Hrițcu ("Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania) / Ciprian Chiruța ("Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania) / Ricardo M. Souto (University of La Laguna, La Laguna (Tenerife), Spain)

Poster number: P-161

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 217823, Functionalization of reduced graphene oxide with hyaluronic acid on CoCr surfaces for biomedical applications

Presenting author: Rosa Maria Lozano Puerto

Authors: Rosa Maria Lozano Puerto (CIB-CSIC, Madrid, Spain) / Blanca Teresa Perez-Maceda (CIB-CSIC, Madrid, Spain) / Sara San José-Pinilla (CIB-CSIC, Madrid, Spain) / Soledad Aguado-Henche (UAH, Madrid, Spain) / Celia Clemente de Arriba (UAH, Madrid, Spain) / Miguel Angel Alobera (UAH, Madrid, Spain) / Maria Lorenza Escudero Rincon (CENIM-CSIC, Madrid, Spain) / Maria Cristina García-Alonso (CENIM-CSIC, Madrid, Spain)

Poster number: P-162

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 232453, Film characterization of anodic oxides on Zr and Zr₂5Nb for biomedical applications

Presenting author: Silvia Cere

Authors: Silvia Cere (INTEMA- University of Mar del Plata-CONICET, Mar del Plata, Argentina) / Maria Sol Lazarte (National University of Mar del Plata, Mar del Plata, Argentina) / Maria Florencia Tano de la Hoz (INTEMA- CONICET- National University of Mar del Plata, Mar del Plata, Argentina) / Maria Rosa Katunar (INTEMA- CONICET- National University of Mar del Plata, Mar del Plata, Argentina) / Andrea Gomez Sanchez (CITVM – CONICET - National University of Villa María, Villa Maria, Cordoba, Argentina)

Poster number: P-163

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 234598, Effect of plastic deformation on the corrosion behaviour of Ti-29Nb-13Ta-4.6Zr biomedical alloy with ultra-low stiffness

Presenting author: Agata Sotniczuk

Authors: Agata Sotniczuk (Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland) / Donata Kuczynska (Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland) / Piotr Kwasniak (Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland) / Krzysztof Topolski (Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland) / Halina Garbacz (Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland)

Poster number: P-164

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 236490, Stress Corrosion Cracking of Modified NiTi Alloys in Chloride Solutions

Presenting author: Camila Reis Barros

Authors: Camila Reis Barros (UFRJ, Rio de Janeiro, Brazil) / Jose Antonio Ponciano Gomes (UFRJ, Rio de Janeiro, Brazil)

Poster number: P-165

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 236710, Crevice-corrosion of biomedical alloys in hip joints configuration

Presenting author: Angela Bermudez-castañeda

Authors: Angela Bermudez-castañeda (Escuela Colombiana de Ingeniería Julio Garavito, BOGOTA, Colombia) / Stefano Mischler (École Polytechnique Fédéral de Lausanne, Lausanne, Switzerland)

Poster number: P-166

Session: Corrosion of Biomaterials (SOCIEMAT)

Abstract ID and Title: 238283, Corrosion behavior of additively manufactured 316L stainless steel in acidic media

Presenting author: ZHIJUN Zheng

Authors: ZHIJUN Zheng (South China University of Technology, Guangzhou, China PR)

Poster number: P-167

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 178564, Chemically induced corrosion of concrete due to high level of H₂S in a pilot sewer pipe

Presenting author: Xuan Li

Authors: Xuan Li (Advanced Water Management Centre, Brisbane, Australia) / Guangming Jiang (AWMC, Brisbane, Australia) / Zhiguo Yuan (AWMC, Brisbane, Australia) / Yarong Song (AWMC, Brisbane, Australia)

Poster number: P-168

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 182227, Long-term corrosion behaviour of reinforced alkali activated binary concrete induced by carbonation

Presenting author: Ana Aguirre-Guerrero

Authors: Rafael Robayo-Salazar (Universidad del Valle, Cali, Colombia) / Ana Aguirre-Guerrero (Universidad del Valle, Cali, Colombia) / Ruby Mejía de Gutiérrez (Universidad del Valle, Cali, Colombia)

Poster number: P-169

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 191192, Determination of oxygen availability in concrete by means of voltammetric sensors

Presenting author: Josep Ramon Liso-Ferrando

Authors: Ana Martínez-Ibernón (Universitat Politècnica de València, Valencia, Spain) / Jose Manuel Gandía-Romero (Universitat Politècnica de València, Valencia, Spain) / Josep Ramon Liso-Ferrando (Universitat Politècnica de València, Valencia, Spain) / Juan Soto (Universitat Politècnica de València, Valencia, Spain)

Poster number: P-170

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 191511, Macrocement processes characterization in reinforced concrete structures

Presenting author: Josep Ramon Llisó-Ferrando

Authors: Josep Ramon Llisó-Ferrando (Universitat Politècnica de València, Valencia, Spain) / Jose Enrique Ramón (Universitat Politècnica de València, Valencia, Spain) / Roman Bataller (Universitat Politècnica de València, Valencia, Spain) / Manolo Valcuende (Universitat Politècnica de València, Valencia, Spain) / Gasch Isabel (Universitat Politècnica de València, Valencia, Spain)

Poster number: P-171

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 192039, The Role of Chloride, Phosphate and Carbonate Ions on Carbon Steel Passivity Studied in Simulating Concrete Pore Solutions

Presenting author: Maria Valcarce

Authors: Maria Valcarce (INTEMA, Mar del Plata, Argentina) / Marcela Vazquez (Div. Electroquímica Aplicada, INTEMA, Mar del Plata, Argentina) / Evelyn Tolosa Tolosa (Div. Electroquímica Aplicada, INTEMA, Mar del Plata, Argentina) / Alejandra Frontini (Div. Electroquímica Aplicada, INTEMA, Mar del Plata, Argentina) / Lucia Yohai (Div. Cerámicos, INTEMA, Mar del Plata, Argentina)

Poster number: P-172

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 192105, Migratory Corrosion Inhibitors Technology for Improving Durability of European Bridges Infrastructures

Presenting author: Ivana Liposcak

Authors: Ivana Liposcak (Cortec Corporation, Zagreb, Croatia) / Ana Baricevic (University of Zagreb Faculty of Civil Engineering, Zagreb, Croatia) / Dubravka Bjugovic (University of Zagreb Faculty of Civil Engineering, Zagreb, Croatia) / Mario Ille (Institut IGH, Zagreb, Croatia) / Boris Miksic (Cortec Corporation, St. Paul, MN, United States of America)

Poster number: P-173

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 205866, Corrosion Examination of Rebar in Cracked Reinforced Concrete

Presenting author: Yosuke Takeuchi

Authors: Yosuke Takeuchi (NTT Corporation, Atsugi-shi, Kanagawa, Japan) / Ryuta Ishii (NTT Corporation, Atsugi-shi, Japan) / Takuya Kamisho (NTT Corporation, Atsugi-shi, Japan) / Masayuki Tsuda (NTT Corporation, Atsugi-shi, Japan)

Poster number: P-174

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 212499, FORMULATION OF PASSIVATION FILM BREAKDOWN CONDITION OF STEEL BAR IN HIGH pH AQUEOUS SOLUTION BY COORDINATION CHEMISTRY

Presenting author: Nagate Hashimoto

Authors: Nagate Hashimoto (Tokyo university of science, Noda, Japan) / Yoshitaka Kato (Tokyo university of science, Noda, Japan)

Poster number: P-175

Session: Corrosion of Steel in Concrete (WP11)

Abstract ID and Title: 236072, Corrosion study of steel in concrete probes in absence of oxygen through EIS techniques, linear polarization method and chronopotentiometry

Presenting author: Elena García

Authors: Elena García (Instituto Ciencias de la Construcción Eduardo Torroja- CSIC, Madrid, Spain) / Javier Sánchez (Instituto Ciencias de la Construcción Eduardo Torroja- CSIC, Madrid, Spain) / Julio Torres (Instituto Ciencias de la Construcción Eduardo Torroja- CSIC, Madrid, Spain) / Nuria Rebolledo (Instituto Ciencias de la Construcción Eduardo Torroja - CSIC, Madrid, Spain)

Poster number: P-176

Session: Corrosion Reliability of Electronic Materials and Devices (WP23)

Abstract ID and Title: 180907, In-situ study of corrosion phenomena on electronic devices by local electrochemical techniques

Presenting author: Mirsajjad Mousavi

Authors: Mirsajjad Mousavi (Department of Materials Science and Engineering, Delft University of Technology (TU Delft), Mekelweg 2, 2628 CD Delft, Delft, Netherlands) / J.M.C Mol (Department of Materials Science and Engineering, Delft University of Technology (TU Delft), Mekelweg 2, 2628 CD Delft, Delft, Netherlands) / Yaiza Gonzalez-Garcia (Department of Materials Science and Engineering, Delft University of Technology (TU Delft), Mekelweg 2, 2628 CD Delft, Delft, Netherlands)

Poster number: P-177

Session: Corrosion Reliability of Electronic Materials and Devices (WP23)

Abstract ID and Title: 186627, Atmospheric Corrosion in electronic components under conditions of tropical subhumid climate in Mexico

Presenting author: Francisco Sanchez Perez

Authors: Francisco Sanchez Perez (Universidad Nacional Autonoma de Mexico, Mexico D.F., Mexico)

Poster number: P-178

Session: Environment Sensitive Fracture (WP5)

Abstract ID and Title: 174681, The influence of small addition of silicon on the austenite stability and the hydrogen induced delayed cracking behavior in hot rolled medium manganese steel

Presenting author: Zheng Wang

Authors: Zheng Wang (University of Science & Technology Beijing, Bei Jing, China PR) / JuanPing XU (University of Science & Technology Beijing, Bei Jing, China PR) / Jinxi Li (University of Science and Technology Beijing, Beijing, China PR)

Poster number: P-179

Session: Environment Sensitive Fracture (WP5)

Abstract ID and Title: 176848, Fractal and multifractal analysis of fracture surfaces caused by hydrogen embrittlement in high-Mn twinning/transformation-induced plasticity steels

Presenting author: Hao Fu

Authors: Hao Fu (University of Science and Technology Beijing, Beijing, China PR) / Jinxu Li (University of Science and Technology Beijing, Beijing, China PR)

Poster number: P-180

Session: Marine Corrosion (WP9)

Abstract ID and Title: 172382, The influence of general corrosion (GC) and stress cracking corrosion (SCC) in the simulated seawater on the elongation and tensile strength of model Al-Mg alloys

Presenting author: Aleksandra Towarek

Authors: Anna Dobkowska (Faculty of Materials Sciences and Engineering, Warsaw University of Technology, Warsaw, Poland) / Joanna Zdunek (Faculty of Materials Sciences and Engineering, Warsaw University of Technology, Warsaw, Poland) / Wojciech Jurczak (Mechanical and Electrical Engineering Faculty, Polish Naval Academy, Gdynia, Poland) / Jarosław Mizera (Faculty of Materials Sciences and Engineering, Warsaw University of Technology, Warsaw, Poland) / Aleksandra Towarek (Warsaw University of Technology, Faculty of Materials Sciences and Engineering, Warsaw, Poland)

Poster number: P-181

Session: Marine Corrosion (WP9)

Abstract ID and Title: 194547, Mechanistic understanding of protection offered by thermal spray coatings after damage in offshore service

Presenting author: Rosa Griñon-Echaniz

Authors: Rosa Griñon-Echaniz (University of Leicester, Leicester, United Kingdom) / Shiladitya Paul (TWI, Cambridge, United Kingdom) / Philippe Refait (University of La Rochelle, La Rochelle, France) / Marc Jeannin (University of La Rochelle, La Rochelle, France) / Rene Sabot (University of La Rochelle, La Rochelle, France) / Alvaro Rodriguez-Ruiz (Centro Tecnológico de Componentes (CTC), Santander, Spain)

Poster number: P-182

Session: Marine Corrosion (WP9)

Abstract ID and Title: 196868, Microstructural and local corrosion behaviour of EH36 steel weld-ing joint by vertical electro-gas welding process

Presenting author: Yaoyong Yi

Authors: Yu Wang (Microstructural and local corrosion behaviour of EH36 steel weld-ing joint by vertical electro-gas welding process, Guangzhou, China PR) / Yaoyong Yi (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Dan Liu (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Jianglong Yi (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Chen Yu (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / Kai Wang (Foshan University, Guangzhou, China PR) / Ben Niu (Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), Guangzhou, China PR) / zexin Jiang (Guangzhou Shipyard International Co., Ltd., Guangzhou, China PR) / Jinjun Ma (Guangzhou Shipyard International Co., Ltd., Guangzhou, China PR)

Poster number: P-183

Session: Marine Corrosion (WP9)

Abstract ID and Title: 203996, Attempt to restrain crevice corrosion of titanium alloys by surface gradient nanocrystallization and plasma nitriding

Presenting author: Yan Gao

Authors: Yan Gao (South China University of Technology, Guangzhou, China PR)

Poster number: P-184

Session: Marine Corrosion (WP9)

Abstract ID and Title: 217009, Study of the corrosion resistance of a nickel aluminium bronze (NAB C96500) modified by titanium micro-alloying and heat treatments

Presenting author: Carlos Berlanga

Authors: Carlos Berlanga (Public University of Navarra, Pamplona, Spain) / M.V. Biezma (University of Cantabria, Santander, Spain) / Pedro J. Rivero (Public University of Navarra, Pamplona, Spain) / I. Martínez (Public University of Navarra, Pamplona, Spain) / Paul Linhardt (Vienna University of Technology, Vienna, Austria)

Poster number: P-185

Session: Marine Corrosion (WP9)

Abstract ID and Title: 238261, Attempt to achieve low temperature plasma nitriding on Ti-6Al-4V alloy by surface nanocrystallization

Presenting author: Yan Gao

Authors: Yan Gao (South China University of Technology, Guangzhou, China PR)

Poster number: P-186

Session: Microbial Corrosion (WP10)

Abstract ID and Title: 173647, Design and development rapid detection techniques for marine corrosive bacteria

Presenting author: Peng Qi

Authors: Peng Qi (Institute of Oceanology, Chinese Academy of Sciences; 2) Open studio for marine Corrosion and Protection, Qingdao National Laboratory for Marine Science and Technology, Qingdao, China PR) / Dun Zhang (Institute of Oceanology, Chinese Academy of Sciences; 2) Open studio for marine Corrosion and Protection, Qingdao National Laboratory for Marine Science and Technology, Qingdao, China PR)

Poster number: P-187

Session: Microbial Corrosion (WP10)

Abstract ID and Title: 174769, A novel signal-on photoelectrochemical sensing platform based on biosynthesis of CdS quantum dots sensitizing ZnO nanorod arrays

Presenting author: Yi Wang

Authors: Yi Wang (Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China PR) / Zhiqing Yang (Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China PR) / Dun Zhang (Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China PR)

Poster number: P-188

Session: Microbial Corrosion (WP10)

Abstract ID and Title: 197616, Contours detection imaging algorithm for microbial corrosion assessment

Presenting author: Leonardo Iannucci

Authors: Leonardo Iannucci (Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), 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) / Pierangela Cristiani (Ricerca sul Sistema Energetico (RSE SpA), Milano, Italy) / Régine Basséguy (Laboratoire de Génie Chimique - Université de Toulouse, CNRS, INPT, UPS, Toulouse, France) / Emma Angelini (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy) / Sabrina Grassini (Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Torino, Italy)

Poster number: P-189

Session: Microbial Corrosion (WP10)

Abstract ID and Title: 200542, Contribution of multispecies bacterial cells to external biocorrosion of metallic pipes

Presenting author: Laura Didierjean

Authors: Laura Didierjean (Université de Lorraine, CNRS, LCPME, F-54000, Villers les Nancy, France) / Frédéric Jorand (Université de Lorraine, CNRS, LCPME, F-54000, Villers Les Nancy, France) / Christelle Despas (Université de Lorraine, CNRS, LCPME, F-54000, Villers Les Nancy, France) / Maxime Vaufléury (Saint-Gobain PAM, Mairières, France)

Poster number: P-190

Session: Microbial Corrosion (WP10)

Abstract ID and Title: 212422, Fluid Flow Effects on Microbial Corrosion Studies of Copper

Presenting author: Scott Wade

Authors: Scott Wade (Swinburne University, Melbourne, Australia) / Ahmed Osman (Swinburne University, Hawthorn, Australia) / Justin Leontini (Swinburne University, Hawthorn, Australia) / Linda Blackall (Melbourne University, Melbourne, Australia) / Elizabeth Matthews (LaTrobe University, Bundoora, Australia) / Ashley Franks (LaTrobe University, Bundoora, Australia)

Poster number: P-191

Session: Microbial Corrosion (WP10)

Abstract ID and Title: 216173, Non MIC tubercle formation in a cooling water system

Presenting author: Virginia Madina

Authors: Virginia Madina (Tecnalia, Donostia-San Sebastian, Spain) / Iñaki Azkarate (Tecnalia, San Sebastián, Spain) / Andrés Del Barrio (Tecnalia, San Sebastián, Spain) / Pablo Benguria (Tecnalia, San Sebastián, Spain)

Poster number: P-192

Session: Microbial Corrosion (WP10)

Abstract ID and Title: 236523, Microbial Corrosion in Heating & Cooling Water Loop Systems - Findings from Bacterial Community Analysis

Presenting author: Marlies Wiegand

Authors: Marlies Wiegand (Fachhochschule Westküste, Heide) / Karsten Neumann (Leuphana Universität Lüneburg, Lüneburg) / Oliver Opel (Fachhochschule Westküste, Heide)

Poster number: P-193

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 179939, Corrosion Characteristics about spent fuel storage steel cask on Korea onshore environment

Presenting author: Jong-Won Park

Authors: Jong-Won Park (Research Institute of Advanced Industrial & Science, 37673, Korea, South) / Guntae Ahan (Research Institute of Industrial Science & Technology, Pohang, Korea, South) / Kwanhee Lee (Research Institute of Industrial Science & Technology, Pohang, Korea, South)

Poster number: P-194

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 180775, Study of corrosion of structural steel under simulated conditions of spent nuclear fuel repository

Presenting author: Kateřina Vizelková

Authors: Kateřina Vizelková (Research Centre Rez, Prague, Czech Republic) / Tomáš Černoušek (Research Centre Rez, Prague, Czech Republic) / Jakub Kokinda (Research Centre Rez, Prague, Czech Republic) / Ján Macák (University of Chemistry and Technology Prague, Prague, Czech Republic)

Poster number: P-195

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 195284, Advanced chemistry and corrosion studies under hot water conditions relevant to LWR coolant

Presenting author: David Kumar

Authors: David Kumar (University of Bristol, Bristol, United Kingdom)

Poster number: P-196

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 200091, Initiation of SCC in Zirconium Alloys Examined using High-Speed Atomic Force Microscopy

Presenting author: Kasia Clarke

Authors: Kasia Clarke (University of Bristol, Bristol, United Kingdom) / Tomas Martin (University of Bristol, Bristol, United Kingdom) / Tom Scott (University of Bristol, Bristol, United Kingdom)

Poster number: P-197

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 212983, Assessment of the Pt nanoparticle distribution on oxidized stainless steel surfaces by electrochemical techniques

Presenting author: Sriharitha Rowthu

Authors: Sriharitha Rowthu (Paul Scherrer Institut (PSI), Nuclear Energy and Safety Research Division, CH-5232 Villigen, Villigen, Switzerland) / Pascal V. Grundler (Paul Scherrer Institut (PSI), Nuclear Energy and Safety Research Division, CH-5232 Villigen, Villigen, Switzerland) / Reuben Holmes (National Nuclear Laboratory (NNL), 102B Stonehouse Park, Gloucestershire, GL10 3UT, Gloucestershire, United Kingdom) / Stefan Ritter (Paul Scherrer Institut (PSI), Nuclear Energy and Safety Research Division, CH-5232 Villigen, Villigen, Switzerland)

Poster number: P-198

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 213544, Liquid Metal Corrosion of conventional and thermomechanically improved ferritic-martensitic steel

Presenting author: Marta Navas

Authors: Adela Martínez-Tarifa (CIEMAT, Madrid, Spain) / Marta Navas (CIEMAT, Madrid, Spain) / Elena Pérez Ramiro (CIEMAT, Madrid, Spain) / David De Lucas Ruiz (CIEMAT, Madrid, Spain)

Poster number: P-199

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 213599, Crack initiation tests with tapered high Si stainless steel specimens

Presenting author: Aäron Penders

Authors: Aäron Penders (SCKCEN, Mol, Belgium) / Milan Konstantinovic (SCKCEN, Mol, Belgium) / Rik-Wouter Bosch (SCKCEN, Mol, Belgium) / Dominique Schryvers (University of Antwerp, Mol, Belgium)

Poster number: P-200

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 219198, Improving AISI 420 corrosion resistance by extracts of *Pancreaticum Maritimum*

Presenting author: Maria Pia Casaletto

Authors: Maria Pia Casaletto (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)

Poster number: P-201

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 224181, Effect of temperature and surface treatment on SCC initiation in Alloy 182 weld metal under BWR/HWC conditions

Presenting author: Aleksandra Treichel

Authors: Aleksandra Treichel (Paul Scherrer Institut, Villigen PSI, Switzerland) / Stefan Ritter (Paul Scherrer Institute, Villigen PSI, Switzerland) / Hans-Peter Seifert (Paul Scherrer Institute, Villigen PSI, Switzerland) / Sannakaisa Virtanen (Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen)

Poster number: P-202

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 224302, Evaluation of monitoring techniques for localized and uniform corrosion of carbon steel used for radioactive waste disposal

Presenting author: Chloé Comas

Authors: Chloé Comas (Université de Lyon, INSA Lyon, MATEIS, UMR CNRS 5510, F-69621 Villeurbanne, Villeurbanne, France) / Marion Fregonese (Université de Lyon, INSA Lyon, MATEIS, UMR CNRS 5510, F-69621 Villeurbanne, Vi, France) / Nicolas Bulidon (Institut de la Corrosion, ZA du Parc Secteur Gampille F-42490 Fraisses, Fraisses, France) / José Bolivar (Cetim, 74 route de la Jonelière F-44308 Nantes, Nantes, France) / Sophia Necib (Andra - Direction Recherche et Développement - Service Colis-Matériaux Centre de Meuse/Hte Marne RD 960 - F-55290 Bure, Bure, France) / Oriane Fedrigo (Cetim, 74 route de la Jonelière F-44308 Nantes, Nantes, France) / Hassane Idrissi (Université de Lyon, INSA Lyon, MATEIS, UMR CNRS 5510, F-69621 Villeurbanne, Villeurbanne, France) / Gouenou Girardin (Cetim, 74 route de la Jonelière F-44308 Nantes, Nantes, France)

Poster number: P-203

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 228438, Effects of the B/Li ratio on the structure and composition of the oxide layer formed on a 316L SS in simulated PWR primary water.

Presenting author: Susana Merino

Authors: Susana Merino (CIEMAT, Madrid, Spain) / Gonzalo de Diego (CIEMAT, Madrid, Spain) / César Maffiotte (CIEMAT, Madrid, Spain) / Marta Navas (CIEMAT, Madrid, Spain)

Poster number: P-204

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 229208, Orientation relationship of the fcc-to-bcc transformation in DIN 1.4970 austenitic stainless steels due to dissolution corrosion in liquid Pb-Bi eutectic

Presenting author: Evangelia Charalampopoulou

Authors: Evangelia Charalampopoulou (University of Antwerp, Antwerp, Belgium) / Rémi Delville (SCK-CEN, Mol, Belgium) / Konstantina Lambrinou (SCK-CEN, Mol, Belgium) / Dominique Schryvers (University of Antwerp, Antwerp, Belgium)

Poster number: P-205

Session: Nuclear Corrosion (WP4)

Abstract ID and Title: 237777, Methodology of corrosion loss of manifolds and equipment for boiling water reactor under life extension

Presenting author: Evgeny Yurmanov

Authors: Evgeny Yurmanov (NIKIET, Moscow, Russia)

Poster number: P-206

Session: Polymers and Advanced Materials (WP19)

Abstract ID and Title: 178696, Microscopic and macroscopic correlation damage mechanism of nitrile rubber under the coupling of mechanical stress-temperature-humidity

Presenting author: Xiaoqin Wei

Authors: Xiaoqin Wei (Southwest Technology and Engineering Research Institute, chongqing, China PR) / lunwu zhang (Southwest Technology and Engineering Research Institute, chongqing, China PR) / yong xiao (Southwest Technology and Engineering Research Institute, chongqing, China PR) / zeqi xu (Southwest Technology and Engineering Research Institute, chongqing, China PR)

Poster number: P-207

Session: Polymers and Advanced Materials (WP19)

Abstract ID and Title: 236303, Investigations into the Effect of Ageing on HD-PE Heating Oil Storage Tanks after a Service Life of More than 30 Years

Presenting author: Margit Weltschew

Authors: Felix Hennersdorf (BAM - Federal Institute for Materials Research and Testing, Berlin) / Margit Weltschew (BAM - Federal Institute for Materials Research and Testing, Berlin) / Rainer Rehfeldt (BAM - Federal Institute for Materials Research and Testing, Berlin) / Andreas Hertwig (BAM - Federal Institute for Materials Research and Testing, Berlin)

Poster number: P-208

Session: Polymers in Organic Coatings (WP14 + WP19)

Abstract ID and Title: 210794, Development of highly hydrophobic PVC electrospun coatings for corrosion protection of aluminum substrates

Presenting author: Pedro J. Rivero

Authors: Pedro J. Rivero (Public University of Navarra, Pamplona, Spain) / Alvaro Iribarren (Public University of Navarra, Pamplona, Spain) / Carlos Berlanga (Public University of Navarra, Pamplona, Spain) / Jose F. Palacio (Centre of Advanced Surface Engineering, AIN, Cordovilla, Spain) / Silvia Larumbe (Centre of Advanced Surface Engineering, AIN, Pamplona, Spain) / Adrian Miguel (Centre of Advanced Surface Engineering, AIN, Pamplona, Spain) / Rafael Rodriguez (Public University of Navarra, Pamplona, Spain)

Poster number: P-209

Session: Polymers in Organic Coatings (WP14 + WP19)

Abstract ID and Title: 234411, Aging characterization of anticorrosive epoxy paint in a marine environment

Presenting author: Yazid Touazi

Authors: Yazid Touazi (Kr Lüneburg, Adendorf , Kr Lüneburg) / Abderezzak Abdi (EMP, Algiers, France) / Kamel Khimech (EMP, Algiers, Algeria)

Poster number: P-210

Session: Polymers in Organic Coatings (WP14 + WP19)

Abstract ID and Title: 237546, Conductive polymers as anticorrosion pigments in various types of organic protective coatings

Presenting author: Bartłomiej Kobialka

Authors: Bartłomiej Kobialka (NanoPure Sp. z o.o., Wrocław, Poland) / Barbara Kazubek (NanoPure Sp. z o.o., Wrocław, Poland) / Jakub S. Sliwinski (NanoPure Sp. z o.o., Wrocław, Poland)

Poster number: P-211

Session: Polymers in Organic Coatings (WP14 + WP19)

Abstract ID and Title: 238184, Study on Corrosion Resistance of Water-borne Epoxy Acrylic Coatings by EIS

Presenting author: Zhu Hua

Authors: Zhu Hua (wuhan university, Wuhan, China PR)

Poster number: P-212

Session: Tribocorrosion (WP18)

Abstract ID and Title: 209881, Tribocorrosion behaviour of environmentally friendly alternative coatings for offshore pistons

Presenting author: Cristina Cerrillo Redondo

Authors: Cristina Cerrillo Redondo (IK4-TEKNIKER, Eibar, Spain) / Gemma Mendoza (IK4-TEKNIKER, Eibar, Spain) / Jaume Nin (TMCOMAS, Blanes, Spain) / Gaizka Domínguez (Stern Hidraulica S.A, Zizurkil, Spain) / Ainara López-Ortega (IK4-TEKNIKER, Eibar, Spain) / Raquel Bayón (IK4-TEKNIKER, Eibar, Spain)

Poster number: P-213

Session: Tribocorrosion (WP18)

Abstract ID and Title: 217966, Improvement of the corrosion and mechanical properties of stainless steel by sol-gel hybrid coatings : a first approach

Presenting author: Fernanda Freitas

Authors: Fernanda Freitas (UMONS - University of Mons, Mons, Belgium) / Marie-Georges Olivier (UMONS, Mons, Belgium) / Leonardo Coelho (Umons, Mons, Belgium) / Marc Poorteman (Umons, Mons, Belgium) / STEPHANIA Kossman (msmp, lille, France) / ALEX Montagne (MSMP, Lille, France)

Poster number: P-214

Session: Tribocorrosion (WP18)

Abstract ID and Title: 222630, Multisine EIS Determination for Dynamic Triboelectrochemical Impedance Measurement

Presenting author: Javier Navarro-Laboulais

Authors: Julio Lahoz (UPV, Valencia, Spain) / Alba Dalmau (UPV, Valencia, Spain) / Andrés Rovira (UPV, Valencia, Spain) / Anna Igual-Muñoz (EPFL, Lausanne, Switzerland) / Alejandro Roda-Buch (EPFL, Lausanne, Switzerland) / Javier Navarro-Laboulais (Universidad Politecnica de, Valencia, Spain)

Poster number: P-215

Session: Tribocorrosion (WP18)

Abstract ID and Title: 228856, Electrochemical effects on the wear of ceramics sliding against nickel in citric acid

Presenting author: Stefano Mischler

Authors: Stefano Mischler (École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland) / Jinxiao Du (EPFL, Lausanne, Switzerland) / Shoufan Cao (EPFL, Lausanne, Switzerland) / Anna Igual Munoz (EPFL, Lausanne, Switzerland)

Poster number: P-216

Session: Tribocorrosion (WP18)

Abstract ID and Title: 233443, Influence of Cr⁺ and N⁺ ion implantation on tribocorrosion resistance in acid media of electrodeposited nickel surfaces

Presenting author: Ana Conde

Authors: Cristina Munoz (National Center for Metallurgical Research CENIM-CSIC, Madrid, Spain) / Ana Conde (National Center for Metallurgical Research (Cenim/Csic), Madrid, Spain) / Iñaki García (National Center for Metallurgical Research CENIM-CSIC, , Madrid, Spain) / Eluxka Almandoz (Advanced Surface Engineering Center, Pamplona, Spain) / Gonzalo García (Advanced Surface Engineering Center, AIN, Pamplona, Spain)

Poster number: P-217

Session: Tribocorrosion (WP18)

Abstract ID and Title: 235137, COMERCIAL PURE TITANIUM: CORROSION UNDER ABRASIVE WEAR

Presenting author: VICTOR VELHO DE CASTRO

Authors: LEANDRO CÂMARA NORONHA (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS), PORTO ALEGRE, Brazil) / VINICIUS ZORTÉA FERRARI (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS), PORTO ALEGRE, Brazil) / VICTOR VELHO DE CASTRO (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS), PORTO ALEGRE, Brazil) / GUSTAVO ALBERTO LUDWIG (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS), PORTO ALEGRE, Brazil) / ROBERTO MOREIRA SCHROEDER (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS) / PONTIFÍCIA UNIVERSIDADE CATÓLICA DO RIO GRANDE DO SUL (PUCRS), PORTO ALEGRE, Brazil) / CÉLIA DE FRAGA Malfatti (UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS), PORTO ALEGRE, Brazil)

Poster number: P-218

Session: Tribocorrosion (WP18)

Abstract ID and Title: 236743, Tribo-corrosion behavior of aluminum parts obtained from an industrial by-product

Presenting author: Ángela Bermúdez Castañed

Authors: Johanna Esguerra-arce (Escuela Colombiana de Ingeniería Julio Garavito, Bogotá D.C, Colombia) / Paula Andrea Pulido-Suárez (Escuela Colombiana de Ingeniería Julio , Bogotá D.C, Colombia) / Karen Sofía Uñate-González (Escuela Colombiana de Ingeniería Julio , Bogotá D.C, Colombia) / Johanna Gisell Tirado-González (Escuela Colombiana de Ingeniería Julio , Bogotá D.C, Colombia) / Adriana Esguerra-Arce (CIMSER, Industrial Engineering Department, Escuela Colombiana de Ingeniería Julio Garavito, Bogotá D.C, Colombia) / Ángela Bermúdez Castañed (DSIM, Mechanical Engineering Department, Escuela Colombiana de Ingeniería Julio Garavito, Bogotá D.C, Colombia) / Javier Navarro-Laboulais (Dept. Chemical & Nuclear Engineering, Universitat Politècnica de Valencia, Valencia, Spain)

Poster number: P-219

Session: Tribocorrosion (WP18)

Abstract ID and Title: 236831, Multifunctional TiO₂ coatings by Plasma Electrolytic Oxidation on TiNbZrTa alloy for dental applications

Presenting author: Ainara Lopez-Ortega

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Poster number: P-220

Session: Tribocorrosion (WP18)

Abstract ID and Title: 238327, Tribocorrosion study of Ni/B electrodeposits with low B content: a mechanistic approach

Presenting author: Maria Lekka

Authors: Ruben Offioach (University of Udine, Udine, Italy) / Maria Lekka (University of Udine, Udine, Italy) / Alex Lanzutti (University of Udine, Udine, Italy) / Vanesa Martínez-Nogués (CIDETEC Surface Engineering, San Sebastian, Spain) / Jesús Manuel Vega (CIDETEC Surface Engineering, San Sebastián, Spain) / Alba Dalmau (CIDETEC Surface Engineering, San Sebastian, Spain) / Lorenzo Fedrizzi (University of Udine, Udine, Italy) / Eva García-Iecina (CIDETEC Surface Engineering, San Sebastian, Spain)

Poster number: P-221

Session: Coatings for High Temperatures (WP3 + WP14)

Abstract ID and Title: 185307, Hot corrosion behavior of selected thermally sprayed carbide and alloy based coatings

Presenting author: Cesánek Zdeněk

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