Corrosion and Scale Inhibition (WP1)

Panel No.	On display	Title
P-065		Aqueous extract of Annona muricata L. fruit peels as natural corrosion inhibitor for carbon steel in acid medium Abel VERGARA[1] Pedro PIZARRO[1] Karin PAUCAR[1] [1] Universidad Nacional de Ingeniería, Peru
P-057		Deposition of Cerium(III)-chloride heptahydrate on Aluminium Alloy 2024-T3 in Chloride Solution Marin KURTELA[1] Vesna ALAR[1] Vinko ŠIMUNOVIĆ[1] Suzana JAKOVLJEVIĆ[1] [1] Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, Croatia
P-063		Effect of Surface Roughness on the Corrosion Behavior of Pure Iron in Acidic Solutions Ahmed ALSHAMSI[1] [1] UAE University, United Arab Emirates
P-058		Electrochemical and Quantum Chemical Studies on Inhibition of Carbon Steel Corrosion by a new Diphenyl imidazole MOHAMED OUBAAQA[1] MOHAMED EBN TOUHAMI[2] Adil BELHAJJAMIA[3] Mohamed MAATALLAH[4] Abdellah JARID[5] [1] FACULTY OF SCIENCES KENITRA, Morocco [2] Laboratory of Materials Engineering and Environment: Modeling and Application, Faculty of Science Kénitra, Morocco [3] Faculty of Sciences Kénitra, Morocco [4] Faculty of Sceinces Semlalia Marrakech, Morocco [5] Faculty of Sciences Semlalia Marrakech, Morocco
P-060		Electrochemical Noise Analysis for Screening of Potential “Green” Corrosion Inhibitors for Mild Steel in Acid K.T. VOISEY[1] Douglas MILLS[2] O. AJAYI[3] Nicola EVERITT[3] Eleanor BINNER[3] [1] University of Nottingham, United Kingdom [2] The University of Northampton, United Kingdom [3] The University of Nottingham, United Kingdom

Panel No.	On display	Title
P-062		Inhibition of galvanic corrosion by use of mixtures containing RE trivalent ions and organic compounds. Marco OLIVEIRA[1] Silvar KALLIP[2] Alexandre BASTOS[1] Theodor HACK[3] Mikhail ZHELUDKEVIC[4] Mário FERREIRA[1] [1] University of Aveiro, Portugal [2] University of Tartu, Estonia [3] Airbus Central R&T, Germany [4] Helmholtz-Zentrum Geesthacht, Germany
P-061		Investigation on the efficiency of corrosion inhibitor in CO2 and CO2-H2S enviroments. Roberta VASQUES[1] Walney ARAÚJO[1] Gustavo VAZ[2] Alvaro MAGALHÃES[2] Marcellus NASCIMENTO[1] Lucas GOMES[1] [1] Universidade Federal do Ceará, Brazil [2] Centro de Pesquisa da Petrobrás, Brazil
P-059		Study of amino acids as green corrosion inhibitors for stainless steel in NaCl 3% Juan Pablo LEÓN GONZÁLEZ[1] Edgar ONOFRE BUSTAMANTE[1] Francisco Javier RODRÍGUEZ GÓMEZ[2] Greta de Monserrat TAVAREZ MARTÍNEZ[1] Adriana MONTIEL GARCÍA[1] [1] Instituto Politécnico Nacional, CICATA-Altamira, Mexico [2] Universidad Nacional Autónoma de México, Facultad de Química, Departamento de Metalurgia, Mexico
P-056		Universalism of inhibitors against hydrogen sulfide and carbon dioxide corrosion of steel Evgeniia SHEL[1] Liudmila TSYGANKOVA[2] Vladimir VIGDOROVICH[3] Natalia SHEL[1] [1] Tambov State Technical University, Russia [2] Derzhavin State University, Russia [3] All-Russian Scientific Research Institute of Use of Machinery and Oil Products, Russia

Corrosion by Hot Gases and Combustion Products (WP3)

Panel No.	On display	Title

Panel No.	On display	Title
P-067		A novel approach to study gas-phase reactions during high-temperature corrosion Juho LEHMUSTO[1] Jan VILJANEN[2] Miska OLIN[2] Joni KALLIOKOSKI[2] Fanni MYLLÄRI[2] Juha TOIVONEN[2] Miikka DAL MASO[2] Leena HUPA[1] [1] Abo Akademi University, Finland [2] Tampere University, Finland
P-070		ANALYSIS OF ELECTROCHEMICAL BEHAVIOR AND HIGH TEMPERATURE OXIDATION OF DUCTILE CAST IRONS WITH HIGH SILICON CONTENTS AND ANTIMONY ADDITION. María Ángeles ARENAS VARA[1] Susana MÉNDEZ[2] Sandra Judith GARCÍA VERGARA[3] Sylvia Nathalie ORDUZ PÉREZ[3] Andrea NIKLAS[2] Rodolfo GONZÁLEZ[2] Ana CONDE DEL CAMPO[1] Jon SERTUCHA[2] Juan José DE DAMBORENEA GONZÁLEZ[1] [1] Centro Nacional de Investigaciones Metalúrgicas(CENIM-CSIC), Spain [2] IK4-AZTERLAN, Spain [3] Universidad Industrial de Santander(UIS), Colombia
P-069		Heat resistance of type 09G2S steel at temperatures above 450 C Dmitry MARCHENKOV[1] Kirill SHUTKO[1] [1] NIKIET, Russia
P-068		High Velocity Thermal Spray at NATURGY CT Narcea Cyril NARJOZ[1] [1] IGS Europe, Czech Republic

Nuclear Corrosion (WP4)

Panel No.	On display	Title
P-195		Advanced chemistry and corrosion studies under hot water conditions relevant to LWR coolant David KUMAR[1] [1] University of Bristol, United Kingdom

Panel No.	On display	Title
P-197		Assessment of the Pt nanoparticle distribution on oxidized stainless steel surfaces by electrochemical techniques Sriharitha ROWTHU[1] Pascal V. GRUNDLER[1] Reuben HOLMES[2] Stefan RITTER[1] [1] Paul Scherrer Institut (PSI), Nuclear Energy and Safety Research Division, CH-5232 Villigen, Switzerland [2] National Nuclear Laboratory (NNL), 102B Stonehouse Park, Gloucestershire, GL10 3UT, United Kingdom
P-193		Corrosion Characteristics about spent fuel sotrage steel cask on Korea onshore environemnt Jong-Won PARK[1] Guntae AHAN[2] Kwanhee LEE[2] [1] Research Institute of Advanced Industrial & Science, Korea, South [2] Research Institute of Industrial Science & Technology, Korea, South
P-199		Crack initiation tests with tapered high Si stainless steel specimens Aäron PENDERS[1] Milan KONSTANTINOVIC[1] Rik-Wouter BOSCH[1] Dominique SCHRYVERS[2] [1] SCKCEN, Belgium [2] Universtity of Antwerp, Belgium
P-201		Effect of temperature and surface treatment on SCC initiation in Alloy 182 weld metal under BWR/HWC conditions Aleksandra TREICHEL[1] Stefan RITTER[2] Hans-Peter SEIFERT[2] Sannakaisa VIRTANEN[3] [1] Paul Scherrer Institut, Switzerland [2] Paul Scherrer Institute, Switzerland [3] Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
P-203		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. Susana MERINO[1] Gonzalo DE DIEGO[1] César MAFFIOTTE[1] Marta NAVAS[1] [1] CIEMAT, Spain

Panel No.	On display	Title
P-202		Evaluation of monitoring techniques for localized and uniform corrosion of carbon steel used for radioactive waste disposal Chloé COMAS[1] Marion FREGONESE[1] Nicolas BULIDON[2] José BOLIVAR[3] Sophia NECIB[4] Oriane FEDRIGO[3] Hassane IDRISSI[1] Gouenou GIRARDIN[3] [1] Université de Lyon, INSA Lyon, MATEIS, UMR CNRS 5510, F-69621 Villeurbanne, France [2] Institut de la Corrosion, ZA du Parc Secteur Gampille F-42490 Fraisses, France [3] Cetim, 74 route de la Jonelière F-44308 Nantes, France [4] Andra - Direction Recherche et Développement - Service Colis-Matériaux Centre de Meuse/Hte Marne RD 960 – F-55290 Bure, France
P-200		Improving AISI 420 corrosion resistance by extracts of Pancratium Maritimum Maria Pia CASALETTO[1] Viviana FIGA'[1] Maurizio BRUNO[2] Stefania SUT[3] Stefano DALL' ACQUA[4] [1] Consiglio Nazionale delle Ricerche-Istituto per lo Studio dei Materiali Nanostrutturati, Palermo, Italy [2] Università degli Studi di Palermo-Dipartimento di Scienze e Tecnologie Biologiche, Chimiche e Farmaceutiche, Italy [3] Università degli Studi di Padova-Dipartimento di Agronomia, Animali, Alimenti, Risorse naturali e Ambiente, Italy [4] Università degli Studi di Padova-Dipartimento di Scienze del Farmaco, Italy
P-196		Initiation of SCC in Zirconium Alloys Examined using High-Speed Atomic Force Microscopy Kasia CLARKE[1] Tomas MARTIN[1] Tom SCOTT[1] [1] University of Bristol, United Kingdom
P-198		Liquid Metal Corrosion of conventional and thermomechanically improved ferritic-martensitic steel Adela MARTÍNEZ-TARIFA[1] Marta NAVAS[1] Elena PÉREZ RAMIRO[1] David DE LUCAS RUIZ[1] [1] CIEMAT, Spain

Panel No.	On display	Title
P-205		Methodology of corrosion loss of manifolds and equipment for boiling water reactor under life extention Evgeny YURMANOV[1] [1] NIKIET, Russia
P-204		Orientation relationship of the fcc-to-bcc transformation in DIN 1.4970 austenitic stainless steels due to dissolution corrosion in liquid Pb-Bi eutectic Evangelia CHARALAMPOPOULOU[1] Rémi DELVILLE[2] Konstantina LAMBRINOU[2] Dominique SCHRYVERS[1] [1] University of Antwerp, Belgium [2] SCK-CEN, Belgium
P-194		Study of corrosion of structural steel under simulated conditions of spent nuclear fuel repository Kateřina VIZELKOVÁ[1] Tomáš ČERNOUŠEK[1] Jakub KOKINDA[1] Ján MACÁK[2] [1] Research Centre Rez, Czech Republic [2] University of Chemistry and Technology Prague, Czech Republic

Environment Sensitive Fracture (WP5)

Panel No.	On display	Title
P-179		Fractal and multifractal analysis of fracture surfaces caused by hydrogen embrittlement in high-Mn twinning/transformation-induced plasticity steels Hao FU[1] Jinxu LI[1] [1] University of Science and Technology Beijing, China PR
P-178		The influence of small addition of silicon on the austenite stability and the hydrogen induced delayed cracking behavior in hot rolled medium manganese steel Zheng WANG[1] JuanPing XU[1] Jinxu LI[2] [1] University of Science & Technology Beijing, China PR [2] University of Science and Technology Beijing, China PR

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

Panel No.	On display	Title
P-126		Alternating current corrosion of aluminum - influence of frequency, amplitude and waveform Julien OLTZE[1] Ralf FESER[1] [1] Fachhochschule Südwestfalen, University of Applied Sciences, Laboratory for corrosion protection, Iserlohn, Germany
P-150		Austempering of Martensitic Stainless Steels and the Influence to Corrosion Resistance Matthias SORG[1] Paul GÜMPEL[1] Arnulf HÖRTNAGL[1] [1] Institute of Materials System Technology Thurgau (WITg), Switzerland
P-127		Corrosion and degradation behaviour of Mg-Nd alloys as potential bioresorbable implants Alessio GULLINO[1] Nick BIRBILIS[2] Mohsen ESMAILY[3] Laurence MEAGHER[4] Sabrina GRASSINI[5] Emma ANGELINI[5] [1] Politecnico di Torino Dipartimento di Elettronica e Telecomunicazioni, Italy [2] Australian National University, College of Engineering and Computer Science, Australia [3] Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA, Australia [4] Monash University Department of Materials Science and Engineering, Australia [5] Politecnico di Torino Dipartimento di Scienza Applicata e Tecnologia, Italy
P-111		Corrosion behavior of LDX2101 and 2304 duplex stainless steel for weld parts in aqueous chloride solution Kazuhiro SHIGYO[1] Seiji NODA[1] Georgeanna KAWALEY[2] [1] Mitsubishi electric corporation, Japan [2] Mitsubishi Electric R&D Centre Europe, United Kingdom

Panel No.	On display	Title
P-117		CORROSION OF TITANIUM ALLOYS IN PRESSURISED WATER AT 300 °C AND 350 °C Sabrina SELVA[1] Quentin BIGNON[1] Quentin AUZOUX[1] Frantz MARTIN[1] Amandine RAYNAL[1] Frédéric MISERQUE[1] Michel TABARANT[2] Laurence LATU-ROMAIN[3] Yves WOUTERS[3] [1] Den-Service de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, France [2] Den-Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, France [3] Université Grenoble Alpes, CNRS, Grenoble INP, SIMaP, France
P-143		Corrosion of VM12 SHC in Salt melt Axel KRANZMANN[1] Jan MIDTLYNG[2] Isabel-Verena SCHLITTE[3] [1] Bundesanstalt für Materialforschung und -prüfung (BAM), Germany [2] Bundesanstalt für Materialforschung und -prüfung Berlin, Germany [3] TH Köln, Germany
P-114		Corrosion rates of 1020 carbon steel anchor rods in soil by electrochemical frequency modulation (EFM) Tiago SCHEFFER DE MATOS[1] Kleber FRANKE PORTELLA[1] Sérgio LUIZ HENKE[2] Mariana D´OREY GAIVÃO PORTELLA BRAGANÇA[3] Alessandro CESAR DE SOUSA BERRÊDO[4] [1] Lactec/Universidade Federal do Paraná, Brazil [2] Universidade Federal do Paraná, Brazil [3] Lactec, Brazil [4] Transmissora Aliança de Energia Elétrica S.A. TAESA, Brazil
P-133		DESIGN, CONSTRUCTION AND VALIDATION OF A HIGH-SPEED THERMAL CYCLING EQUIPMENT Eduardo DIAZ[1] Francisco RUIZ CABAÑAS[2] Jose María GALLARDO FUENTES[3] Cristina PRIETO RIOS[2] [1] 77805497q, Spain [2] Abengoa, Spain [3] Seville University, Spain

Panel No.	On display	Title
P-147		Development of novel in-situ methods for real-time monitoring of corrosion rates Mark BRUNS[1] Michael STREBL[1] Sannakaisa VIRTANEN[1] [1] University Erlangen-Nürnberg (FAU), Germany
P-141		Effects of chloride ion concentration on the corrosion behavior of the AA2198-T8 alloy Caruline MACHADO[1] Rejane SILVA[1] João Victor ARAUJO[1] Uyime DONATUS[1] Mariana MILAGRE[1] Rafael KLUMPP[1] Jesualdo ROSSI[1] Isolda COSTA[1] [1] Instituto de Pesquisas Energéticas e Nucleares, Brazil
P-116		Effects of pH on the inhibition performance of Al3+ on mild steel corrosion in NaCl aqueous solution Md. Saiful ISLAM[1] Masatoshi SAKAIRI[2] [1] Graduate School of Engineering, Hokkaido University, Japan [2] Faculty of Engineering, Hokkaido University, Japan
P-115		Electrochemical behavior of hierarchically nanostructured copper dendrites in alkaline media Bowei ZHANG[1] [1] University of Science and Technology Beijing, China PR
P-128		Electrochemical Investigation of Ion Diffusion through Polymer Membranes in Combination with FEM Modelling Lars VARAIN[1] Silvia LARISEGGER[2] Michael NELHIEBEL[2] Günter FAFILEK[1] [1] TU Wien, Austria [2] KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Austria
P-119		ENA study of different properties of interface between fillers and binder on the delamination kinetics of Zn and MIO pigmented epoxy coatings Boleslav EREMIAS[1] Lubomir MINDOS[1] Libor TUREK[1] Libuse HOCHMANNOVA[2] [1] SVUOM Ltd., Czech Republic [2] SYNPO Inc., Czech Republic

Panel No.	On display	Title
P-145		Evaluation of the electrochemical behavior of Al-10wt%Sn-10wt%Cu and Al-20 wt%Sn-10wt%Cu tribological alloys Felipe BERTELLI[1] Maria ANGELES ARENAS[2] Ana CONDE[2] Juan DE DAMBORENEA[2] Emmanuelle SÁ FREITAS[3] Noé CHEUNG[4] Amauri GARCIA[4] [1] Santa Cecilia University, Brazil [2] National Center for Metallurgical Research (CENIM-CSIC), Spain [3] Federal University of São Paulo, UNIFESP, Brazil [4] University of Campinas, UNICAMP, Brazil
P-136		Improved Methodologies for Mimicking High Fluid-Level Wells in Corrosion Testing Jason MOSES[1] Michael WHITESIDE[1] Jeremy LEIDENSDORF[1] [1] Baker Hughes GE, United States of America
P-146		Influence of corrosion products on localized corrosion kinetics Talha Qasim ANSARI[1] San-Qiang SHI[2] [1] The Hong Kong Polytechnic University, Hong Kong [2] The Hong Kong Polyechnic University, Hong Kong
P-121		Influence of Cu Contents on Electrochemical Behavior of Flux-Cored Arc-Welded Metal with 10CrNi3MoV Steel Yi JIANGLONG[1] Ben NIU[1] Yu WANG[1] Kai WANG[2] Yaoyong YI[1] Miao SHU[1] [1] Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), China PR [2] Foshan University, China PR
P-142		Influence of surface finishing on the electrochemical activity of the 2098-T351 aluminum alloy Rejane SILVA[1] Mariana MILAGRE[1] Leandro OLIVEIRA[2] Renato ANTUNES[2] Uyime DONATUS[1] Isolda COSTA[1] [1] Instituto de Pesquisas Energéticas e Nucleares, Brazil [2] Universidade Federal do ABC, Brazil

Panel No.	On display	Title
P-118		Influence of the cation force diffusion on thermal oxidationof metals Nacer HALEM[1] Zohra HALEM[1] Mariora ABRUDEANU[2] Georgette PETOT-ERVAS[3] [1] University, Algeria [2] University, Romania [3] CNRS-CEA, France
P-135		Jet Impingement Apparatus for High Temperature/High Pressure Testing Jason MOSES[1] Carlos MENENDEZ[2] Zhengwei LIU[1] Tracey JACKSON[1] Peng JIN[3] [1] Baker Hughes GE, United States of America [2] Baker Hughes BHGE, United States of America [3] Baker Hughes, United States of America
P-122		Local activation of the iron at non-isothermal conditions in hydrocarbonate media Maria SANINA[1] Natalia NAFIKOVA[2] Svetlana KALUZHINA[2] [1] Voronezh State Pedagogical University, Russia [2] Voronezh State University, Russia
P-144		LocalProber – 3D resolved topographical SVET for localized corrosion observation Silvar KALLIP[1] Tõnis OPPE[2] Erik LEVOLL[2] Olavi OPPER[2] Kalle TIISMA[2] Toomas VINTER[2] [1] University of Tartu / Institute of Chemistry, Estonia [2] Tehnolabor OÜ, Estonia
P-139		Magnesium reactivity in hybrid (water-ionic liquids mixtures) electrolytes Dmitry KURCHAVOV[1] Virginie LAIR[1] Polina VOLOVITCH[1] [1] Institut de Recherche de Chimie Paris (IRCP), France
P-123		Non-destructive corrosion monitoring using portable gels with agar-glycerol electrolyte Asuncion BAUTISTA[1] Gleidys MONRRABAL[2] Susana GUZMAN[3] Francisco VELASCO[3] [1] Carlos III University of Madrid, Spain [2] Centro Nacional de Investigaciones Metalurgicas, Spain [3] Universidad Carlos III de Madrid, Spain

Panel No.	On display	Title
P-140		Non-Destructive Detection of Hot Corrosion Astrid BLEE[1] [1] Interface Analysis Centre, University of Bristol, United Kingdom
P-112		Parameters for ranking pitting resistance of materials Yongsun YI[1] Pyungyeon CHO[1] Sara AL SAADI[2] Changheui JANG[3] [1] Khalifa University, United Arab Emirates [2] Federal Authority for Nuclear Regulation, United Arab Emirates [3] Korea Advanced Institute of Science & Technology, Korea, South
P-149		Passivation-induced modifications of well-defined surface oxide films on single crystalline model 304 stainless steel Li MA[1] Fréféric WIAME[1] Vincent MAURICE[1] Philippe MARCUS[1] [1] CNRS - Chimie ParisTech, France
P-138		Pitting corrosion and oxide growth on copper in physiological buffers Jiaqi LUO[1] Christina HEIN[1] Jean-François PIERSON[2] Frank MÜCKLICH[1] [1] Saarland University, Germany [2] University of Lorraine, France
P-124		Results of 1 and 3 years of metallic coupons exposure in soil Katerina KREISLOVA[1] Dusan MAJTAS[2] Pavlina FIALOVA[1] [1] SVUOM Ltd., Czech Republic [2] CET ITAM CAS, Czech Republic

Panel No.	On display	Title
P-131		Scaffolds of Ti6Al4V alloy: Influence of the geometry –induced dispersion on EIS spectra A. CONDE[1] G. A. LONGHITANO[2] M. A. ARENAS[3] A. L. JARDINI[4] C. A. DE CARVALHO ZAVAGLIA[2] J. J. DE DAMBORENEA[3] [1] National Centre for Metallurgical Research (CENIM-CSIC), Av. Gregorio del, Spain [2] National Institute of Biofabrication (INCT-BIOFABRIS), Albert Einstein Avenue 500 // School of Mechanical Engineering, State University of Campinas, Mendeleyev Street 200, Brazil [3] National Centre for Metallurgical Research (CENIM-CSIC), Av. Gregorio del Amo 8, Spain [4] National Institute of Biofabrication (INCT-BIOFABRIS), Albert Einstein Avenue 500 // School of Chemical Engineering, State University of Campinas, Albert Einstein Avenue 500, Brazil
P-130		Selective laser melting of Inconel 718 and Hastelloy-X alloys: microstructure and corrosion properties Juan Jose DAMBORENEA GONZALEZ[1] Maria Angeles ARENAS[2] Rudymilla SEPTIMIO[3] Ana CONDE[2] Ignacio GARCIA[4] Javier DIAZ[5] Marc GARDON[6] [1] CENIM (C.S.I.C.), Spain [2] CENIM-CSIC, Spain [3] University of Campinas, Brazil [4] CENIM.CSIC, Spain [5] ITP, Spain [6] Renishaw Iberica SAU, Spain
P-137		Study of the degradation of heat exchanger materials in the acidic environment of Teide National Park Leyre CATALÁN[1] Gurutze PÉREZ[1] Carlos BERLANGA[2] Amaia GARACOCHEA[3] Antonio RODRÍGUEZ[1] Vidal DOMÍNGUEZ[4] Ana Carolina MONTAÑEZ[5] Germán D. PADILLA[5] Nemesio PÉREZ[5] [1] Public University of Navarre. Institute of Smart Cities, Spain [2] Public University of Navarre. Institute for Advanced Materials, Spain [3] Public University of Navarre, Spain [4] Instituto Volcanológico de Canarias (INVOLCAN), Spain [5] Instituto Tecnológico y de Energías Renovables (ITER), Spain

Panel No.	On display	Title
P-113		Temperature effect in highly alloyed stainless steels behaviour Tamara CORDOBA[1] Victoria MATRES[1] [1] ACERINOX EUROPA S.A.U., Spain
P-129		The effect of crystal form and crystal face on the oxidation behavior of monocrystalline SiC platelet Enhui WANG[1] Hang YE[1] Enxia XU[2] XInmei HOU[3] Kuochih CHOU[3] [1] University of Science and Technology Beijing, China PR [2] Zhengzhou University, China PR [3] University of Science and Technology Beijin, China PR
P-120		The factors influencing on aluminum anodic behavior at the elevated temperatures Svetlana KALUZHINA[1] Tatiana MINAKOVA[1] [1] Voronezh State University, Russia
P-125		The Influence of Dissolved Gas on the Anodic Passivation of Copper in Seawater: The Role of Gases as Surfactants Amelia LANGLEY[1] Frank MARKEN[1] [1] University of Bath, United Kingdom
P-132		The Laboratory Simulation and Electrochemical monitor techniques for Corrosion Under Insulation Wei-Jen LI[1] Cheng-Yang TSAI[2] [1] Industrial Technology Research Institute, Taiwan [2] Industial Technology Research Institute, Taiwan

Corrosion Education (WP7)

Marine Corrosion (WP9)

Panel No.	On display	Title
P-185		Attempt to achieve low temperature plasma nitriding on Ti-6Al-4V alloy by surface nanocrystallization Yan GAO[1] [1] South China University of Technology, China PR

Panel No.	On display	Title
P-183		Attempt to restrain crevice corrosion of titanium alloys by surface gradient nanocrystallization and plasma nitriding Yan GAO[1] [1] South China University of Technology, China PR
P-222		Evaluation of Corrosion Effects on Nickel-Aluminium Bronze (NAB) and Manganese-Aluminium Bronze (MAB) in Artificial Fresh and Sea Water Ignacio COBO[1] Julia BÖHM[2] Roland HAUBNER[2] Paul LINHARDT[2] María Victoria BIEZMA[3] [1] Fundación Leading Innova / University of Cantabria, Spain [2] Technische Universität Wien, Austria [3] University of Cantabria, Spain
		Inhibition prroprieties of Cynara Cardunculus leaves extract against corrosion of carbon steel in seawater under stagnant, aerobic and anaerobic conditions. Hana LAHBIB[1] Cristiani PIERANGELA[2] Stefano TRASATTI[3] Husnu GERENGI[4] Yasser BEN AMOR[5] [1] Carthage University, Tunisia, National Institut of Applied Sciences and Technologies, Tunisia [2] Sustainable Development and Energy Sources, Milan University, Italy [3] Università degli Studi di Milano Department of Environmental Science and Policy, Italy [4] Faculty of Engineering, Duzce University, Turkey [5] Higher Institute of Environmental Sciences and Technologies of Borj Cédria, Carthage University, Tunisia
P-181		Mechanistic understanding of protection offered by thermal spray coatings after damage in offshore service Rosa GRIÑON-ECHANIZ[1] Shiladitya PAUL[2] Philippe REFAIT[3] Marc JEANNIN[3] Rene SABOT[3] Alvaro RODGRIGUEZ-RUIZ[4] [1] University of Leicester, United Kingdom [2] TWI, United Kingdom [3] University of La Rochelle, France [4] Centro Tecnologico de Componentes (CTC), Spain

Panel No.	On display	Title
P-182		Microstructural and local corrosion behaviour of EH36 steel welding joint by vertical electro-gas welding process Yu WANG[1] Yaoyong YI[2] Dan LIU[2] Jianglong YI[2] Chen YU[2] Kai WANG[3] Ben NIU[2] Zexin JIANG[4] Jinjun MA[4] [1] Microstructural and local corrosion behaviour of EH36 steel weld-ing joint by vertical electro-gas welding process, China PR [2] Guangdong Welding Institute (China-Ukraine E. O. Paton Institute of Welding), China PR [3] Foshan University, China PR [4] Guangzhou Shipyard International Co., Ltd., China PR
P-184		Study of the corrosion resistance of a nickel aluminium bronze (NAB C96500) modified by titanium micro-alloying and heat treatments Carlos BERLANGA[1] M.V. BIEZMA[2] Pedro J. RIVERO[1] I. MARTINEZ[1] Paul LINHARDT[3] [1] Public University of Navarra, Spain [2] University of Cantabria, Spain [3] Vienna University of Technology, Austria
P-180		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 Anna DOBKOWSKA[1] Joanna ZDUNEK[1] Wojciech JURCZAK[2] Jarosław MIZERA[1] Aleksandra TOWAREK[3] [1] Faculty of Materials Sciences and Engineering, Warsaw University of Technology, Poland [2] Mechanical and Electrical Engineering Faculty, Polish Naval Academy, Poland [3] Warsaw University of Technology, Faculty of Materials Sciences and Engineering, Poland

Microbial Corrosion (WP10)

Panel No.	On display	Title

Panel No.	On display	Title
P-187		A novel signal-on photoelectrochemical sensing platform based on biosynthesis of CdS quantum dots sensitizing ZnO nanorod arrays Yi WANG[1] Zhiqing YANG[1] Dun ZHANG[1] [1] Institute of Oceanology, Chinese Academy of Sciences, China PR
P-188		Contours detection imaging algorithm for microbial corrosion assessment Leonardo IANNUCCI[1] Luca LOMBARDO[1] Marco PARVIS[1] Pierangela CRISTIANI[2] Régine BASSÉGUY[3] Emma ANGELINI[4] Sabrina GRASSINI[4] [1] Politecnico di Torino, Dipartimento di Elettronica e Telecomunicazioni (DET), Italy [2] Ricerca sul Sistema Energetico (RSE SpA), Italy [3] Laboratoire de Génie Chimique - Université de Toulouse, CNRS, INPT, UPS, France [4] Politecnico di Torino, Dipartimento di Scienza Applicata e Tecnologia (DISAT), Italy
P-189		Contribution of multispecies bacterial cells to external biocorrosion of metallic pipes Laura DIDIERJEAN[1] Frédéric JORAND[1] Christelle DESPAS[1] Maxime VAUFLEURY[2] [1] Université de Lorraine, CNRS, LCPME, F-54000, France [2] Saint-Gobain PAM, France
P-186		Design and development rapid detection techniques for marine corrosive bacteria Peng QI[1] Dun ZHANG[1] [1] Institute of Oceanology, Chinese Academy of Sciences; 2) Open studio for marine Corrosion and Protection, Qingdao National Laboratory for Marine Science and Technology, China PR
P-190		Fluid Flow Effects on Microbial Corrosion Studies of Copper Scott WADE[1] Ahmed OSMAN[1] Justin LEONTINI[1] Linda BLACKALL[2] Elizabeth MATTHEWS[3] Ashley FRANKS[3] [1] Swinburne University, Australia [2] Melbourne University, Australia [3] LaTrobe University, Australia

Panel No.	On display	Title
P-192		Microbial Corrosion in Heating & Cooling Water Loop Systems - Findings from Bacterial Community Analysis Marlies WIEGAND[1] Karsten NEUMANN[2] Oliver OPEL[1] [1] Fachhochschule Westküste, Germany [2] Leuphana Universität Lüneburg, Germany
P-191		Non MIC tubercle formation in a cooling water system Virginia MADINA[1] Iñaki AZKARATE[1] Andrés DEL BARRIO[1] Pablo BENGURIA[1] [1] Tecnalia, Spain
P-224		The Influence of Cathodic Polarization on the Corrosion Behaviour of X65 Steel in Natural Seawater Containing Sulfate-Reducing Bacteria Meiying LV[1] Xia LI[1] Min DU[1] [1] Ocean University of China, China PR

Corrosion of Steel in Concrete (WP11)

Panel No.	On display	Title
P-167		Chemically induced corrosion of concrete due to high level of H2S in a pilot sewer pipe Xuan LI[1] Guangming JIANG[2] Zhiguo YUAN[2] Yarong SONG[2] [1] Advanced Water Management Centre, Australia [2] AWMC, Australia
P-173		Corrosion Examination of Rebar in Cracked Reinforced Concrete Yosuke TAKEUCHI[1] Ryuta ISHII[1] Takuya KAMISHO[1] Masayuki TSUDA[1] [1] NTT Corporation, Japan

Panel No.	On display	Title
P-175		Corrosion study of steel in concrete probes in absence of oxygen through EIS techniques, linear polarization method and chronopotenciometry Elena GARCÍA[1] Javier SÁNCHEZ[1] Julio TORRES[1] Nuria REBOLLEDO[2] [1] Instituto Ciencias de la Construcción Eduardo Torroja- CSIC, Spain [2] Instituto Ciencias de la Construcción Eduardo Torroja - CSIC, Spain
P-169		Determination of oxygen availability in concrete by means of voltammetric sensors Ana MARTÍNEZ-IBERNÓN[1] Jose Manuel GANDÍA-ROMERO[1] Josep Ramon LLISO-FERRANDO[1] Juan SOTO[1] [1] Universitat Politècnica de València, Spain
P-174		FORMULATION OF PASSIVATION FILM BREAKEDOWN CONDITION OF STEEL BAR IN HIGH pH AQUEOUS SOLUTION BY COORDINATION CHEMISTRY Nagate HASHIMOTO[1] Yoshitaka KATO[1] [1] Tokyo university of science, Japan
P-168		Long-term corrosion behaviour of reinforced alkali activated binary concrete induced by carbonation Rafael ROBAYO-SALAZAR[1] Ana AGUIRRE-GUERRERO[1] Ruby MEJÍA DE GUTIÉRREZ[1] [1] Universidad del Valle, Colombia
P-170		Macrocell processes characterization in reinforced concrete structures Josep Ramon LLISO-FERRANDO[1] Jose Enrique RAMÓN[1] Roman BATALLER[1] Manolo VALCUENDE[1] Gasch ISABEL[1] [1] Universitat Politècnica de València, Spain

Panel No.	On display	Title
P-172		Migratory Corrosion Inhibitors Technology for Improving Durability of Europes Bridges Infrastructures Ivana LIPOSCAK[1] Ana BARICEVIC[2] Dubravka BJEGOVIC[2] Mario ILLE[3] Boris MIKSIC[4] [1] Cortec Corporation, Croatia [2] University of Zagreb Faculty of Civil Engineering, Croatia [3] Institut IGH, Croatia [4] Cortec Corporation, United States of America
P-171		The Role of Chloride, Phosphate and Carbonate Ions on Carbon Steel Passivity Studied in Simulating Concrete Pore Solutions Maria VALCARCE[1] Marcela VAZQUEZ[2] Evelyn Tolosa TOLOSA[2] Alejandra FRONTINI[3] Lucia YOHAI[4] [1] INTEMA, Argentina [2] Div. Electroquímica Aplicada, INTEMA, Argentina [3] Div. Electroquímica Aplicada, INTEMA., Argentina [4] Div. Cerámicos, INTEMA, Argentina

Corrosion in Oil & Gas Production (WP13)

Panel No.	On display	Title
P-083		An Introduction on the Application of ZnOG Thin Film for in situ Monitoring of Steel Sour Corrosion Seyed Omid RAZAVI ZADEH[1] Mohammad GHORBANI[1] Azizollah SHAFIEKHANI[2] [1] Sharif University of Technology, Iran [2] Institute for Research in Fundamental Sciences (IPM), Iran
P-223		ASSESSMENT OF WELDABILITY AND CORROSION RESISTANCE OF AN API5LX80MS STEEL USING PHYSICAL SIMULATION Mariana OLIVEIRA[1] José PONCIANO[1] Leonardo CARVALHO[2] João PAYÃO[1] [1] Federal University of Rio de Janeiro, Brazil [2] Petrobras, Brazil
P-099		Can Thin Film Coatings Really Protect Base Substrates in the Acidic and Alkaline Environments ? Gareth BERRY[1] [1] Whitford Ltd, United Kingdom

Panel No.	On display	Title
P-088		Cathodic Reduction of Hydrogen from CO2 Aqueous Solution in Different Pressures Flávio V. V. DE SOUSA[1] Pedro R. P. VIANA[1] Nathália A. LEITE[2] Oswaldo E. BARCIA[3] Oscar R. MATTOS[4] [1] LNDC/COPPE/UFRJ, Brazil [2] IFRJ, Brazil [3] IQ/UFRJ, Brazil [4] LNDC/COPPE/URFJ, Brazil
P-093		Characterization of corrosion scales formed in the production tubes used in the oil and gas Magdalena ROGOWSKA[1] Yan YANG[1] Abhijeet YADAV[1] Rajan AMBAT[1] [1] Technical University of Denmark, Denmark
P-105		Corrosion in Oil & Gas Production Ahmed BUTT[1] [1] Oil & Gas Development Company Ltd., Pakistan
P-095		Corrosion Inhibitor Study for Steam Flood Application under Sour Environment Haitao FANG[1] Tracey JACKSON[2] Johnathon BROOKS[2] [1] Baker Hughes, United States of America [2] Baker Hughes, A GE Company, United States of America
P-097		Corrosion Inhibitor Study with Carbon Steel in a Wet Supercritical CO2 Environment Tracey JACKSON[1] Zhengwei LIU[1] Jonathan STEWART-AYALA[1] [1] Baker Hughes, United States of America
P-084		Crevice Corrosion Experience of 22Cr DSS Tubing in HT/HP CO2 containing well Toshiyuki SUNABA[1] Hirokazu YOROZU[2] Susumu HIRANO[2] [1] INPEX CORPORATION, Japan [2] INPEX, Japan

Panel No.	On display	Title
P-103		Dominant corrosive impurities and prevailing threats in upstream gas handling facility Abdulwahab AL-AHMAD[1] Adel AL-MUTAIRI[1] Samudraga SURYAPRAKASH[1] Mathusoothanan SUBRAMANIAN[1] Hamza AJMERWALA[1] Ashok MATHEW[1] [1] Kuwait Oil Company, Kuwait
P-101		Effect of ion chloride on corrosion behaviour of high strength carbon steel in CO2 systems at near neutral pH Tatiane CAMPOS[1] Emanuel CAMPOS[1] José Antônio GOMES[1] Jonas SÁ[1] Jonas SÁ[1] [1] UFRJ, Brazil
P-109		EFFECT OF POLYSACCHARIDES ON CORROSION OF CARBON STEEL Ilya VALEKZHANIN[1] Alexander VOLOSHIN[1] Vladimir DOKICHEV[1] Victor GUSAKOV[1] [1] "RN-BashNIPIneft" LLC, Russia
P-089		Electrochemical investigation of corrosion behavior of 13 mass% Cr martensitic stainless steels in simulated oil and gas environments Satoshi SAKANOUE[1] Masatoshi SAKAIRI[2] Shuji HASHIZUME[3] [1] Graduate School of Engineering, Hokkaido University, Japan [2] Faculty of Engineering, Hokkaido University, Japan [3] TenarisNKKTubes, Japan
P-096		Evaluation of the influence of intermetallic phase principitation on corrosion resistance the superferritic stainless steel Ursula PEREIRA[1] Camylla LAVOR[2] Lorena BRAGA[2] Marcelo PARENTE[2] Hamilton ABREU[1] Walney ARAUJO[1] [1] Federal University of Ceara, Brazil [2] Federal Institute of Education, Science and Technology of Ceara, Brazil
P-108		Experimental investigation of crevice corrosion of tensile armour wires in simulated annulus environments Pedro NETTO DA SILVA[1] Érica VIDAURRE SENATORE[1] José Antônio DA CUNHA PONCIANO GOMES[1] [1] Federal University of Rio de Janeiro, Brazil

Panel No.	On display	Title
P-087		FAILURE ANALYSIS OF A STEEL ELBOW PIPE FROM A GAS WELL María Pilar VALLES GONZÁLEZ[1] Alejandro GONZÁLEZ MEIJE[1] María GARCÍA-MARTÍNEZ[1] Ana PASTOR MURO[1] [1] National Institute of Aerospace Technology (INTA), Spain
P-104		Features of technology of calcium and cerium modification of pipe steels with the requirment for resistance to H2S-environments Evgeniy MURSENKOV[1] Dmitry KUDASHOV[2] Vitaly NAUMENKO[2] [1] Vyksa Steel Works (VSW), Russia [2] Vyksa Steel Works, Russia
P-094		Hydrogen Charging of Armco Iron and L80 Steel in various Electrolytes Mathias TRUSCHNER[1] Anton TRAUTMANN[1] Wolfgang SIEGL[1] Gregor MORI[1] [1] Montanuniversitaet Leoben, Austria
P-098		Hydrogen embrittlement in quenched and tempered 9%Ni steel Jonas SÁ[1] José GOMES[1] [1] UFRJ, Brazil
P-106		Introducing the MSE-SRK Model: A Thermodynamic Framework to Maximize the Accuracy of Predicting Phase Equilibria in Systems Containing Sour Gases, Electrolytes and Hydrocarbons Diana MILLER[1] Andre ANDERKO[1] Ron SPRINGER[1] [1] OLI Systems, Inc., United States of America
P-092		Microstructure and Properties of Steels Used for High-Strength Casings and Tubings Manufacturing Igor PYSHMINTSEV[1] Anna MALTSEVA[1] Dmitriy USKOV[2] Mikhail SMIRNOV[1] [1] The Russian Scientific Research Institute of the Pipe and Tube Industry (RosNITI), Russia [2] Volzhsky Pipe Plant, Russia

Panel No.	On display	Title
P-086		Multi-Electrode-Zero-Resistance-Ammetry: Instrumentation and its Application to Corrosion Testing of Longitudinally Welded ERW-Linepipes Robert MUGGLETON[1] Paul LINHARDT[2] Gerald ZEHETHOFER[1] Maria Victoria BIEZMA[3] [1] OMV Exploration & Production, Austria [2] Technische Universität Wien, Inst. for Chemical Technologies and Analytics, Austria [3] University of Cantabria, Earth&Materials Science and Engineering Dpt., Spain
P-100		On the kinetic of formation and degradation of CO2 corrosion products on carbon steel: influencing of CO2 pressure and O2 presence Mariana dos Reis TAGLIARI[1] Derek FONSECA DE SOUZA[1] Adriana LOPES BARROS[1] Ricardo FEYH RIBEIRO[1] Marcelo FAVARO BORGES[1] Tiago FALCADE[1] [1] LAMEF - Physical Metallurgy Laboratory, Post-Graduation Program in Mining, Metallurgical and Materials Engineering, Federal University of Rio Grande do Sul, Brazil, Brazil
P-102		Pyrazolone derivatives as novel acidizing corrosion inhibitor for N80 steel useful for petroleum industry Dheeraj CHAUHAN[1] M. A. QURAISHI[2] [1] Center of Research Excellence in Corrosion, Research Institute, King Fahd, Saudi Arabia [2] Center of Research Excellence in Corrosion, Research Institute, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia., Saudi Arabia
P-107		Selection of the inhibitor protection technology for wet sour gas pipelines Irina KOSTITSYNA[1] Rustam VALIAKHMETOV[1] Ilnur KHUSNULLIN[1] Vyasheslav LUNEV[2] [1] RN-BashNIPIneft, Russia [2] Bashneft Production, Russia

Panel No.	On display	Title
P-091		Sulfide Stress Cracking Resistance of High-Strength Low-Carbon Pipeline Steels Igor PYSHMINTSEV[1] Anna MALTSEVA[1] Mikhail SMIRNOV[1] Radmir MUKHAMEJANOV[1] [1] The Russian Scientific Research Institute of the Pipe and Tube Industry (RosNITI), Russia

Coatings (WP14)

... Metallic Coatings

Panel No.	On display	Title
P-046		Balance between low corrosion rate and convenient conductivity for anodic applications Díaz CRISTINA[1] Simone VISIGALLI[2] Giuseppe DI FLORIO[3] [1] Asociacion de la Industria Navarra, Spain [2] Politecnico di Milano, Italy [3] X2 Solutions, Italy
P-037		Bending of inorganic coated steel sheets - evaluation of corrosion protection capability Lena LINDMAN[1] Johan B LINDÉN[1] Konrad TARKA[1] [1] RISE Research Institutes of Sweden, Sweden
P-048		Corrosion Resistance of Zn-Al-Mg Alloys with Hypoeutectic Microstructure Guangrui JIANG[1] Ting SHANG[2] Libin LIU[2] Jiajie CHEN[3] [1] Shougang Research Institute of Technology, China PR [2] Shougang Group Co., Ltd, Research Institute of Technology, China PR [3] The Pan Asia Technical Automotive Center Co., Ltd., China PR
P-030		Corrosion resistance of Zn-Ni coatings containing ZrO2 nanoparticles Gabriella ROVENTI[1] Annamaria VICERÉ[2] Tiziano BELLEZZE[2] [1] Universita Politecnica delle Marche, Italy [2] Università Politecnica delle Marche, Italy

Panel No.	On display	Title
P-045		Effects of thermochemical surface treatments on the surface properties of 316L austenitic stainless steel Dorina KOVÁCS[1] János Endre MARÓTI[1] János DOBRÁNSZKY[2] [1] Budapest University of Technology and Economics, Hungary [2] MTA–BME Research Group for Composite Science and Technology, Hungary
P-031		Effects of TiB and Si addition on microstructure and corrosion resistance of Zn-Al-Mg coated steel Jaemin LEE[1] Hyunyeong JUNG[1] Wonseog YANG[1] [1] Hyundai Steel, Korea, South
P-032		Electrochemical studies of cold sprayed steels coatings Ana M. MARTOS[1] Sergi DOSTA[1] Maria SARRET[1] Irene G. CANO[1] [1] Thermal Spray Centre (CPT) - University of Barcelona, Spain
P-042		Evaluation of metallic bipolar plates for PEMFC coated with Zr and Ti Aida Ghiulnare PANTAZI[1] Sabrina Patricia ROSOIU[1] Eduard GRIGORE[2] Marius ENACHESCU[1] Liana ANICAI[1] [1] Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Romania [2] Plasma Physics and Nuclear Fusion Department, National Institute for Laser, Plasma and Radiation Physics, P.O.Box MG-36, Magurele, Bucharest, Romania, Romania
P-033		Evaluation of weld cladding quality used for restoration shape molds inserts for high-pressure die casting of aluminum alloy Janette BREZINOVÁ[1] Miroslav DŽUPON[2] Miriam KUPKOVÁ[2] Anna GUZANOVA[3] Dagmar DRAGANOVSKÁ[1] [1] Technical University of Košice, Faculty of Mechanical Engineering, Slovakia [2] Institute of Materials Research, Slovak Academy of Sciences, Slovakia [3] Technical University of Kosice, Slovakia
P-047		Influence of the diamond-like carbon coating adherence in the corrosion properties of TiAlV and CoCrMo Díaz CRISTINA[1] [1] Asociacion de la Industria Navarra, Spain

Panel No.	On display	Title
P-041		Ni-Sn alloy/ rGO composite coatings involving deep eutectic solvents – Evaluation of corrosion behavior Sabrina Patricia ROSOIU[1] Aida Ghiulnare PANTAZI[1] Aurora PETICA[1] Anca COJOCARU[2] Stefania COSTOVICI[1] Teodor VISAN[2] Liana ANICAI[1] Marius ENACHESCU[1] [1] Center of Surface Science and Nanotechnology, University Politehnica of Bucharest, Splaiul Independentei 313, Bucharest, 060042, Romania, Romania [2] 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, Romania
P-028		Performance Evaluation of Al Based Coatings Replacing Cadmium on High Strength Steels Zhihua SUN[1] [1] AECC Beijing Institute of Aeronautical Materials, China PR

... Inorganic Coatings

Panel No.	On display	Title
P-035		Anodizing of 304L stainless steel using fluoride-free organic electrolytes. Maria Angeles ARENAS VARA[1] Laura P. DOMÍNGUEZ JAIMES[2] Ana CONDE[3] Juan José DE DAMBORENEA[3] Juan Manuel HERNÁNDEZ-LÓPEZ[4] [1] National Center for Metallurgical Research, CENIM-CSIC, Spain [2] Facultad de Ciencias Químicas/Universidad Autónoma de Nuevo León, Mexico [3] National Center for Metallurgical Research, CENIM/CSIC, Spain [4] Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León., Mexico

Panel No.	On display	Title
P-040		Corrosion resistance study of AA7075-T6 anodized in TSA covered with Zr nanometric oxide Jéssica SALLES PINHEIRO[1] Henrique PIAGGIO CARDOSO[1] Claudia TRINDADE OLIVEIRA[2] Gabriel REGIO[1] Nicolle GOI[1] Jane ZOPPAS FERREIRA[1] [1] UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Brazil [2] FEEVALE, Brazil
P-023		Influence of shot peening on corrosion behaviour of AZ31 magnesium alloy coated by plasma electrolytic oxidation (PEO) Daniel KAJÁNEK[1] Branislav HADZIMA[1] Sara BAGHERIFARD[2] Joseph BUHAGIAR[3] Stanislava FINTOVÁ[4] Filip PASTOREK[1] [1] Research Centre, University of Zilina, Slovakia [2] Department of Mechanical Engineering, Politecnico di Milano, Italy [3] Department of Metallurgy and Materials Engineering, Faculty of Engineering, University of Malta, Malta [4] Faculty of Chemistry, Brno University of Technology, Czech Republic
P-038		Performance of coatings developed for protecting steel pipes in geothermal power plants: in-situ corrosion monitoring by EIS-based sensor Lorena FREIRE PINEIRO[1] Julio SÁNCHEZ[2] Rubén CASTRO[2] Alberto FERNÁNDEZ[2] Ricardo LOSADA[3] Stefan HOLBERG[4] Johan VAN BAEL[5] [1] Asociacione de Investigacion Metalurgica del Noroeste, Spain [2] AIMEN Technology Centre, Spain [3] Danish Technological Institute, Denmark [4] University of Wyoming, United States of America [5] VITO Flemish Institute for Technological Research, Belgium
P-020		Study of the variables that influence the coulometric determination of tin oxides in tinplate Olga CONEJERO[1] Ines PEREZ[1] [1] Fundacion IDONIAL, Spain

Panel No.	On display	Title
P-044		Surface Characterization of Anodized and Bare AA7075-T6 Treated with Fluorozirconic Acid Jéssica SALLES PINHEIRO[1] Henrique PIAGGIO CARDOSO[1] Claudia TRINDADE OLIVEIRA[2] Jane ZOPPAS FERREIRA[1] [1] UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Brazil [2] FEEVALE, Brazil

... Organic Coatings

Panel No.	On display	Title
P-017		A study on corrosion inhibition enhancement of epoxy powder coatings Bora PARK[1] Jae-Won LEE[1] Se-Young OH[1] [1] POMIA (Pohang Institute of Metal Industry Advancement), Korea, South
P-015		Combining electrochemical impedance spectroscopy and technological testing to assess anticorrosion performance of organic coatings Raul DAVALOS MONTEIRO[1] Gianfranco D'AMBROSIO[2] Xiaorong ZHOU[3] Simon GIBBON[4] Michele CURIONI[3] [1] The University of Manchester, Italy [2] AkzoNobel, Italy [3] The University of Manchester, United Kingdom [4] Akzonobel, United Kingdom
P-049		Corrosion protection of cellulose nanocrystals reinforced acrylate-based composite coating Yunjuan HE[1] Yaman BOLUK[2] Jinshan PAN[1] Anwar AHNIYAZ[3] Tomas DELTIN[4] Per CLAESSON[1] [1] KTH Royal Institute of Technology, Sweden [2] University of Alberta, Department of Civil and Environmental Engineering,, Canada [3] RISE Research Institutes of Sweden, Sweden [4] PTE Coatings AB, Sweden

Panel No.	On display	Title
P-036		Corrosion resistance improvement of stainless steel AISI 204 using hydrophobic coatings based on stearic acid Daiana SACILOTTO[1] Rodolfo SUAKI[1] Jane ZOPPAS - FERREIRA[1] [1] Federal University of Rio Grande do Sul - UFRGS, Brazil
P-016		Finite element analysis of the effects of water diffusion and alternating hydrostatic pressure on pigmented epoxy coatings Rui LIU[1] Li LIU[2] Yu CUI[1] Fandi MENG[2] Ying LI[1] Fuhui WANG[2] [1] Institute of Metal Research, China PR [2] Northeastern University, China PR
P-027		New Generation of High-Performance PEEK-Coatings Laser-Applied and Selectively Parametrized Anna BULING[1] Jörg ZERRER[1] [1] ELB Eloxalwerk Ludwigsburg Helmut Zerrer GmbH, Germany
P-021		Preparation and regulation of Fe3O4/rGO/PANI anticorrosive and absorbing nano-fillers Yu CUI[1] Ruijuan ZHOU[2] Rui LIU[3] Fandi MENG[2] Li LIU[2] [1] Institute of Metal Research, Chinese Academy of Sciences, China PR [2] Northeastern University, China PR [3] Insititute of Metal Research, China PR
P-022		The Establishment of Correlation Model between the Surface Aging of Organic Protective Coatings and Environmental Factors Jin GAO[1] Chao LI[1] Zhen LV[1] Rui WANG[1] Dequan WU[1] Xiaogang LI[1] [1] Institute for Advanced Materials and Technology, University of Science and Technology Beijing, Beijing 100083, Peoples Republic of China, China PR

... Pretreatments

Panel No.	On display	Title

Panel No.	On display	Title
P-043		Corrosion protection of galvanized steel by vinyltrimetoxysilane film modified with cocoa bark powder Regivaldo SANTOS SILVA FILHO[1] Maria Eduarda SANTOS DE JESUS[1] Iago MAGELLA FERNANDES COSTA ROSSI E SILVA[1] Leonardo BERTOLUCCI COELHO[2] Marie-Georges OLIVIER[2] Vera Rosa CAPELOSSI[1] [1] State University of Santa Cruz, Brazil [2] University of Mons, Belgium
P-034		Influence of abrasive blasting on quality of coating system with cathodic protection Anna GUZANOVA[1] Janette BREZINOVÁ[2] Dagmar DRAGANOVSKÁ[2] [1] Technical University of Kosice, Slovakia [2] Technical University of Košice, Faculty of Mechanical Engineering, Slovakia
P-039		Influence of alloying elements in the electro-assisted deposition of zirconium conversion coating on aluminum Vitor BONAMIGO MOREIRA[1] Georgina FABREGAT[1] Jane ZOPPAS FERREIRA[2] Carlos ALEMAN[1] Alvaro MENEGUZZI[2] Elaine ARMELIN[1] [1] Universitat Politècnica de Catalunya, Spain [2] Universidade Federal do Rio Grande do Sul, Brazil
P-029		Study of phosphating time and its effect on corrosion behaviour of ground and shot-peened HSLA steel Michal JAMBOR[1] Jana PASTORKOVÁ[1] František NOVÝ[1] Martina JACKOVÁ[1] Filip PASTOREK[1] [1] University of Žilina, Slovakia

... Self-healing and Smart Coatings

Panel No.	On display	Title
P-024		Development of Self-Healing Coating Systems for Mitigating Corrosion of Offshore Wind Turbines Adamantini LOUKODIMOU[1] David WESTON[1] Shiladitya PAUL[2] [1] University of Leicester, United Kingdom [2] TWI Ltd/University of Leicester, United Kingdom

Panel No.	On display	Title
P-019		Integration of plasmonic photothermal effect and durable superhydrophobicity for excellent anti-icing/deicing and anti-corrosion performances using TiN-PTFE nanostructures Lingwei MA[1] [1] University of Science and Technology Beijing, China PR
P-025		Multi-criteria evaluation of self-protecting waterborne coating based on mesoporous silica nanoparticles in corrosion environment Ivan STOJANOVIC[1] Bruno ZIDOV[2] Vesna ALAR[3] Vinko SIMUNOVIC[3] [1] University of Zagreb, Croatia [2] Energy Institute Hrvoje Požar, Croatia [3] Faculty of Mechanical Engineering and Naval Architecture, Croatia
P-026		Storage of Green inhibitors in pH sensitive carriers for corrosion protection of epoxy coated steel for marine applications Roma RAJ[1] Yegor MOROZOV[2] Ramazan KAHRAMAN[3] Abdul SHAKOOR[3] Fatima MONTEMOR[2] [1] Instituto Superior Técnico, Portugal [2] Centro de Química Estructural, Instituto Superior Técnico, Portugal [3] Center for Advanced Materials, Qatar University, Qatar

Corrosion in the Refinery and Petrochemistry Industry (WP15)

Panel No.	On display	Title

Panel No.	On display	Title
P-110		Amine Corrosion in H2S removal units : HSAS or poor operating conditions, Which one is more responsible ? Askar SOLTANI[1] Reza ZAREIE[2] Farzanfar KOOROSH[3] Mojtaba ZAMANI[4] [1] Senior Corrosion Engineer, SPGC (South Pars Gas Complex), Iran [2] Head of Inspection Department, 9th Refinery of South Pars Gas Complex, Iran [3] Head of Mechanical Inspection Dept., 9th Refinery of South Pars Gas Complex, Iran [4] Head of Corrosion Inspection Dept., 9th refinery of South Pars Gas Complex, Iran

Cathodic Protection (WP16)

Panel No.	On display	Title
P-013		Cathodic Protection Ahmed BUTT[1] [1] Oil & Gas Development Company Ltd., Pakistan

Automotive Corrosion (WP17)

Panel No.	On display	Title
P-011		A Study on Galvanic Corrosion Simulation Method for Predicting Corrosion Lifetime in Dissimilar Materials Joints of Automotive Parts Seung Ho AHN[1] Ji Eyun JUNG[2] Sang Pil KIM[2] Won Seog YANG[3] [1] Hyundai Motor Group, R&D Center, Korea, South [2] Hyundai Motor Company R&D Center, Korea, South [3] Hyundai Steel R&D Division, Korea, South
P-007		Comparison of Corrosion for GMAW and FSW Weldments in aluminum alloy AA6061-T6 HEUNGJU KIM[1] JONGWON PARK[1] KWNAGSOO PARK[1] MOKYOUNG LEE[1] [1] RIST, Korea, South

Panel No.	On display	Title
P-010		Corrosion behaviour of the secondary Al-Si-Mg alloys with various iron content Tatiana LIPTAKOVA[1] Lenka KUCHARIKOVA[1] Eva TILLOVA[1] [1] University of Zilina, Slovakia
P-008		Effect of C contents on hydrogen diffusion and embrittlement behaviors of high strength automotive steels Sung Jin KIM[1] Eun Hye HWANG[1] Jin-seong PARK[1] Man Jae LEE[2] Si-On KIM[1] [1] Sunchon National University, Korea, South [2] Research Institute of Industrial Science and Technology (RIST), Korea, South
P-226		Effect of microstructure and strain characteristics on hydrogen delayed cracking of high strength steel for automotive Hye-Jin KIM[1] Seung-Pill JUNG[1] Hyun-Yeong JUNG[1] Jin-Ho LEE[1] Tae-Woo KWON[1] [1] Hyundai Steel Company, Korea, South
P-009		Investigation of stiction phenomena in brake systems by electrochemical methods Andrea ISOARDI[1] Francesco ANDREATTA[2] Agusti SIN[1] Lorenzo FEDRIZZI[2] [1] ITT Motion Technology, Italy [2] University of Udine, Italy
P-006		Likely-misinterpreted pseudo Hydrogen peak as diffusible hydrogen measured by Thermal Desorption Spectroscopy. Yasuhide ISHIGURO[1] Katsuya HOSHINO[1] [1] JFE Steel Corporation, Japan
P-012		Understanding the different corrosion mechanism of microporous nickel-chromium coatings due to the presence of cupric ions in a chloride based electrolyte Eva GARCÍA-LECINA[1] Larraitz GANBORENA[1] Hans-Jürgen GRANDE[1] Jesús Manuel VEGA[1] [1] Fundación CIDETEC, Spain

Tribocorrosion (WP18)

Panel No.	On display	Title
P-217		COMERCIAL PURE TITANIUM: CORROSION UNDER ABRASIVE WEAR LEANDRO CÂMARA NORONHA[1] VINICIUS ZORTÉA FERRARI[1] VICTOR VELHO DE CASTRO[1] GUSTAVO ALBERTO LUDWIG[1] ROBERTO MOREIRA SCHROEDER[2] CÉLIA DE FRAGA MALFATTI[1] [1] UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS), Brazil [2] UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL (UFRGS) / PONTIFÍCIA UNIVERSIDADE CATÓLICA DO RIO GRANDE DO SUL (PUCRS), Brazil
P-215		Electrochemical effects on the wear of ceramics sliding against nickel in citric acid Stefano MISCHLER[1] Jinxiao DU[2] Shoufan CAO[2] Anna IGUAL MUNOZ[2] [1] École Polytechnique Fédérale de Lausanne (EPFL), Switzerland [2] EPFL, Switzerland
P-213		Improvement of the corrosion and mechanical properties of stainless steel by sol-gel hybrid coatings : a first approach Fernanda FREITAS[1] Marie-Georges OLIVIER[2] Leonardo COELHO[2] Marc POORTEMAN[2] STEPHANIA KOSSMAN[3] ALEX MONTAGNE[3] [1] UMONS - University of Mons, Belgium [2] UMONS, Belgium [3] Msmp, France
P-216		Influence of Cr+ and N+ ion implantation on tribocorrosion resistance in acid media of electrodeposited nickel surfaces Cristina MUNOZ[1] Ana CONDE[2] Iñaki GARCÍA[3] Eluxka ALMANDOZ[4] Gonzalo GARCÍA[5] [1] National Center for Metallurgical Research CENIM-CSIC, Spain [2] National Center for Metallurgical Research (Cenim/Csic), Spain [3] National Center for Metallurgical Research CENIM-CSIC,, Spain [4] Advanced Surface Engineering Center, Spain [5] Advanced Surface Engineering Center, AIN, Spain

Panel No.	On display	Title
P-219		Multifunctional TiO2 coatings by Plasma Electrolytic Oxidation on TiNbZrTa alloy for dental applications Ainara LOPEZ-ORTEGA[1] Virginia SÁENZ DE VITERI[2] Gemma MENDOZA[3] Sofia A. ALVES[3] Anisoara CAMPEAN[4] Ioan DAN[5] Ana VELA[6] Raquel BAYÓN[3] Valentina MITRAN[4] [1] IK4 - TEKNIKER, Spain [2] Mugape S.L., Spain [3] IK4-TEKNIKER, Spain [4] University of Bucharest, Romania [5] R&D Consulting and Services SRL, Romania [6] Mugape, Spain
P-214		Multisine EIS Determination for Dynamic Triboelectrochemical Impedance Measurement Julio LAHOZ[1] Alba DALMAU[1] Andrés ROVIRA[1] Anna IGUAL-MUÑOZ[2] Alejandro RODA-BUCH[2] Javier NAVARRO-LABOULAIS[3] [1] UPV, Spain [2] EPFL, Switzerland [3] Universidad Politecnica de, Spain
P-218		Tribo-corrosion behavior of aluminum parts obtained from an industrial by-product Johanna ESGUERRA-ARCE[1] Paula Andrea PULIDO-SUÁREZ[2] Karen Sofía UÑATE-GONZÁLEZ[2] Johanna Gisell TIRADO-GONZÁLEZ[2] Adriana ESGUERRA-ARCE[3] Ángela BERMÚDEZ CASTAÑED[4] Javier NAVARRO-LABOULAIS[5] [1] Escuela Colombiana de Ingeniería Julio Garavito, Colombia [2] Escuela Colombiana de Ingeniería Julio, Colombia [3] CIMSER, Industrial Engineering Department, Escuela Colombiana de Ingeniería Julio, Colombia [4] DSIM, Mechanical Engineering Department, Escuela Colombiana de Ingeniería Julio Garavito, Colombia [5] Dept. Chemical & Nuclear Engineering, Universitat Politécnica de Valencia, Spain

Panel No.	On display	Title
P-212		Tribocorrosion behaviour of environmentally friendly alternative coatings for offshore pistons Cristina CERRILLO REDONDO[1] Gemma MENDOZA[1] Jaume NIN[2] Gaizka DOMÍNGUEZ[3] Ainara LÓPEZ-ORTEGA[1] Raquel BAYÓN[1] [1] IK4-TEKNIKER, Spain [2] TMCOMAS, Spain [3] Stern Hidraulica S.A, Spain
		Tribocorrosion study of Ni/B electrodeposits with low B content: a mechanistic approach Ruben OFFOIACH[1] Maria LEKKA[1] Alex LANZUTTI[1] Vanesa MARTÍNEZ-NOGUÉS[2] Jesús Manuel VEGA[2] Alba DALMAU[3] Lorenzo FEDRIZZI[1] Eva GARCÍA-LECINA[2] [1] University of Udine, Italy [2] CIDETEC Surface Engineering, Spain [3] CIDETEC Surface Engieering, Spain

Polymers and Advanced Materials (WP19)

Panel No.	On display	Title
P-207		Investigations into the Effect of Ageing on HD-PE Heating Oil Storage Tanks after a Service Life of More than 30 Years Felix HENNERSDORF[1] Margit WELTSCHEV[1] Rainer REHFELDT[1] Andreas HERTWIG[1] [1] BAM - Federal Institute for Materials Research and Testing, Germany
P-206		Microscopic and macroscopic correlation damage mechanism of nitrile rubber under the coupling of mechanical stress-temperature-humidity Xiaoqin WEI[1] Lunwu ZHANG[1] Yong XIAO[1] Zeqi XU[1] Fangchao ZHAO[1] [1] Southwest Technology and Engineering Research Institute, China PR

Corrosion & Corrosion Protection of Drinking Water Systems (WP20)

Panel No.	On display	Title
P-055		CORROSION STUDY OF TWO WATER FILTERS María Pilar VALLES GONZÁLEZ[1] Ana PASTOR MURO[1] María GARCÍA-MARTÍNEZ[1] [1] National Institute of Aerospace Technology (INTA), Spain

Corrosion of Archaeological and Historical Artefacts (WP21)

Panel No.	On display	Title
P-152		Characterization of Santa Casa's graveyard statuary produced by electroplating Lucas VIEGAS[1] Carlos FERREIRA[1] Jane ZOPPAS FERREIRA[1] [1] UFRGS, Brazil
P-151		Conservation of metals in scientific and technological heritage Ana CRESPO[1] Blanca RAMÍREZ-BARAT[1] Ivan DÍAZ[1] Jenifer ALCÁNTARA[1] Daniel DE LA FUENTE[1] Emilio CANO[1] [1] Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Spain
P-153		Natural Corrosion inhibitors for conservation and restoration of historical objects of cast iron Francisco J. RODRIGUEZ-GOMEZ[1] Araceli ESPINOZA-VAZQUEZ[2] Guillermo E. NEGRON-SILVA[3] [1] Universidad Nacional Autonoma, Mexico [2] UNAM FACULTAD DE QUIMICA, Mexico [3] UAM-Azcapotzalco, Mexico

Corrosion Control in Aerospace (WP22)

Panel No.	On display	Title

Panel No.	On display	Title
P-077		Characterization of anodic oxide film formed on Ti6Al4V in alkaline NaTESi electrolyte Sandra Judith GARCIA-VERGARA[1] Maria Angeles ARENAS VARA[2] Diana Isabel NARANJO-ZULUAGA[3] Ignacio GARCÍA DIEGO[2] [1] UNIVERSIDAD INDUSTRIAL DE SATANDER, Colombia [2] Centro Nacional de Investigaciones Metalúrgicas (CENIM), Spain [3] Universidad Industrial de Santander, Colombia
P-071		Corrosion protection of AA2024-T3 aluminium alloy by sealed anodic layers using two alditols as corrosion inhibitors Carla Sofia PROENÇA[1] Jorge CORREIA[1] Maria Eduarda ARAÚJO[1] [1] Faculdade de Ciências da Universidade de Lisboa, Portugal
P-078		Development of corrosion resistant PEO coatings on AA 2024-T3 Sandra Judith GARCIA-VERGARA[1] Maria Angeles ARENAS VARA[2] [1] UNIVERSIDAD INDUSTRIAL DE SATANDER, Colombia [2] Centro Nacional de Investigaciones Metalúrgicas (CENIM), Spain
P-076		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 Carla Sofia PROENÇA[1] A. Marisa PEREIRA[2] A. Maria CABRAL[2] Maria ARAÚJO[3] Jorge CORREIA[3] Lucia PIGLIARU[4] [1] Faculdade de Ciências da Universidade de Lisboa, Portugal [2] ISQ Instituto de Soldadura e Qualidade, Portugal [3] FCUL, Portugal [4] ESA, Netherlands
P-074		Flash-PEO coatings on 2024 aluminium alloy Ruben DEL OLMO[1] Marta MOHEDANO[1] Raul ARRABAL[1] Angel PARDO[1] Peter VISSER[2] Endzhe MATYKINA[1] [1] Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Spain [2] AkzoNobel, Netherlands

Panel No.	On display	Title
P-079		Microcapsules as a self healing layer on corrosion of magnesium alloy with MAO Monika OSTAPIUK[1] Ana C. MARQUES[2] Jarosław BIENIAŚ[1] Monica V. LOUREIRO[2] Barbara SUROWSKA[1] [1] LUBLIN UNIVERSITY OF TECHNOLOGY, Poland [2] CERENA, DEQ, Instituto Superior Técnico, Universidade de Lisboa, Portugal
P-075		Phosphate conversion coatings for Mg alloys and Mg alloy-steel assemblies Borja PILLADO[1] Ewa WIERZBICKA[1] Pedro SANCHEZ-EGIDO[1] Bahram VAGHEFINAZARI[2] Sviatlana LAMAKA[2] Peter VISSER[3] Raúl ARRABAL[1] Endzhe MATYKINA[1] [1] Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense, Spain [2] Magnesium Innovation Center, Helmholtz-Zentrum Geesthacht, Germany [3] AkzoNobel, Netherlands
P-073		Stripping of aluminium oxide layers for aeronautical application Norica Carmen GODJA[1] Ioana Carmen VLADU[1] Michael SINNABELL[1] Andreas SCHINDEL[1] Andje STANKOVIC[1] [1] CEST GmbH, Austria
P-072		Study on corrosion behavior of two aluminum coatings in marine environment Zhongwei ZHAN[1] Zhihua SUN[1] Chen LUO[2] Zhihui TANG[2] Qi ZHANG[2] [1] BIAM, China PR [2] AECC Beijing Institute of Aeronautical Materials, China PR

Corrosion Reliability of Electronic Materials and Devices (WP23)

Panel No.	On display	Title
P-177		Atmospheric Corrosion in electronic components underconditions of tropical subhumid climate in Mexico Francisco SANCHEZ PEREZ[1] [1] Universidad Nacional Autonoma de Mexico, Mexico

Panel No.	On display	Title
P-176		In-situ study of corrosion phenomena on electronic devices by local electrochemical techniques Mirsajjad MOUSAVI[1] J.M.C MOL[1] Yaiza GONZALEZ-GARCIA[1] [1] Department of Materials Science and Engineering, Delft University of Technology (TU Delft), Mekelweg 2, 2628 CD Delft, Netherlands

CO2-Corrosion in industrial applications (TF)

Atmospheric corrosion (TF)

Panel No.	On display	Title
P-004		Drone based detection of corrosion Lars Johann WACKER[1] [1] Danish National Metrology Institute, Denmark
P-001		Influence of Sn on corrosion behavior of CrMoSn steel in the simulated tropical marine atmosphere environment Meihui SUN[1] Cuiwei DU[1] Xiaogang LI[1] Zhiyong LIU[1] [1] University of Science and Technology Beijing, China PR
P-002		PREDICTION OF ATMOSPHERIC CORROSION FOR IMPROVING MAINTENANCE PROCEEDINGS IN NETWORKS OF ELECTRICITY DISTRIBUTION TOWERS Ivan DIAZ[1] Belen CHICO[1] Daniel DE LA FUENTE[1] Rafael MÍNGUEZ[2] Antonio GONZÁLEZ[2] Santiago GUNDÍN[3] Josep PALASI[4] Verónica GONZÁLEZ DE LENA[5] Álvaro RODRÍGUEZ[5] [1] Centro Nacional de Investigaciones Metalúrgicas (CENIM) - CSIC, Spain [2] VIESGO S.A., Spain [3] IMEDEXSA S.A., Spain [4] Pinturas HEMPEL S.A., Spain [5] Centro Tecnológico CTC, Spain

Panel No.	On display	Title
P-003		Tandem LA-ICP-MS/LIBS Analysis of Polymer Coatings: Investigating Degradation Under Exposure to UV-Radiation and SO2 Lukas BRUNNBAUER[1] Maximilian MAYR[2] Silvia LARISEGGER[2] Michael NELHIEBEL[2] Andreas LIMBECK[1] [1] TU Vienna, Austria [2] KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Austria

Corrosion of Biomaterials (SOCIEMAT)

Panel No.	On display	Title
P-154		Characterization and corrosion resistance of Mg-Zn-Ca alloys for biomedical applications Lara MORENO[1] Marta MOHEDANO[1] Raul ARRABAL[1] Angel PARDO[1] Carsten BLAWERT[2] Endzhe MATYKINA[1] [1] Departamento de Ingeniería Química y de Materiales, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Spain [2] Magnesium Innovation Center, Helmholtz-Zentrum Geesthacht, Germany
P-157		CHARACTERIZATION AND SYNTHESIS MAGNETITE FILMS OBTAINED BY AN INNOVATIVE METHOD Edgar ONOFRE[1] Adriana MONTIEL GARCÍA[1] María ESCUDERO RINCON[2] Greta de Monserrat TAVAREZ MARTÍNEZ[1] Juan Pablo LEÓN GONZÁLEZ[3] [1] CICATA-IPN, U. Altamira, Mexico [2] CENIM, Spain [3] CICATA-IPN,U. Altamira, Mexico
P-159		Corrosion behavior of additively manufactured 304 stainless steel in acidic media ZHIJUN ZHENG[1] [1] SOUTH CHINA UNIVERSITY OF TECHNOLOGY, China PR
P-166		Corrosion behavior of additively manufactured 316L stainless steel in acidic media ZHIJUN ZHENG[1] [1] South China University of Technology, China PR

Panel No.	On display	Title
P-156		Corrosion degradation of Mg1Ca1Si alloy in Ringer solution Maria STAROWICZ[1] Iryna KOZINA[1] Patrycja BURAS[1] Magdalena KAWALEC[1] Marcin PIĘKOŚ[1] Halina KRAWIEC[1] [1] AGH-University of Science and Technology, Faculty of Foundry Engineering, Poland
P-165		Crevice-corrosion of biomedical alloys in hip joints configuration Angela BERMUDEZ-CASTAÑEDA[1] Stefano MISCHLER[2] [1] Escuela Colombiana de Ingeniería Julio Garavito, Colombia [2] École Polytechnique Fédéral de Lausanne, Switzerland
P-163		Effect of plastic deformation on the corrosion behaviour of Ti-29Nb-13Ta-4.6Zr biomedical alloy with ultra-low stiffness Agata SOTNICZUK[1] Donata KUCZYNSKA[1] Piotr KWASNIAK[1] Krzysztof TOPOLSKI[1] Halina GARBACZ[1] [1] Faculty of Materials Science and Engineering, Warsaw University of Technology, Poland
P-162		Film characterization of anodic oxides on Zr and Zr2.5Nb for biomedical applications Silvia CERE[1] Maria Sol LAZARTE[2] Maria Florencia TANO DE LA HOZ[3] Maria Rosa KATUNAR[3] Andrea GOMEZ SANCHEZ[4] [1] INTEMA- University of Mar del Plata-CONICET, Argentina [2] National University of Mar del Plata, Argentina [3] INTEMA- CONICET- National University of Mar del Plata, Argentina [4] CITVM – CONICET - National University of Villa María, Argentina
P-161		Functionalization of reduced graphene oxide with hyaluronic acid on CoCr surfaces for biomedical applications Rosa Maria LOZANO PUERTO[1] Blanca Teresa PEREZ-MACEDA[1] Sara SAN JOSÉ-PINILLA[1] Soledad AGUADO-HENCHE[2] Celia CLEMENTE DE ARRIBA[2] Miguel Angel ALOBERA[2] Maria Lorenza ESCUDERO RINCON[3] Maria Cristina GARCÍA-ALONSO[3] [1] CIB-CSIC, Spain [2] UAH, Spain [3] CENIM-CSIC, Spain

Panel No.	On display	Title
P-160		In vitro corrosion resistance and in vivo osseointegration testing of new TiAlNbTaMo alloy as candidate implant biomaterial Juan J. SANTANA[1] Lucia Carmen TRINCĂ[2] Daniel MARECI[3] Carmen SOLCAN[2] Mircea FÂNTÂNARIU[2] Liviu BURTAN[2] Luminiţa-Diana HRIŢCU[2] Ciprian CHIRUŢA[2] Ricardo M. SOUTO[4] [1] University of Las Palmas de Gran Canaria, Spain [2] "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Romania [3] "Gheorghe Asaghi" Technical University of Iasi, Romania [4] University of La Laguna, Spain
P-164		Stress Corrosion Cracking of Modified NiTi Alloys in Chloride Solutions Camila Reis BARROS[1] Jose Antonio PONCIANO GOMES[1] [1] UFRJ, Brazil
P-155		Study of electrochemical proprieties of bio-inspired coating based ErGO Greta de Monserrat TAVAREZ MARTÍNEZ[1] Edgar ONOFRE BUSTAMANTE[1] María Cristina GARCÍA ALONSO[2] María Lorenza ESCUDERO RINCÓN[2] Juan Pablo LEÓN GONZÁLEZ[1] Adriana MONTIEL GARCÍA[1] [1] Instituto Politécnico Nacional, CICATA- UA, Mexico [2] Centro Nacional de Investigaciones Metalúrgicas, Consejo Superior de Investigaciones Científicas, Spain
P-158		Study of the Corrosion behavior of de TiO2/CeO2 coating on Ti6Al4V alloy Edgar ONOFRE[1] Monserrat TAVAREZ MARTÍNEZ[1] Edna DE LA CRUZ TERRAZAS[2] Adriana MONTIEL GARCÍA[1] María ESCUDERO RINCÓN[3] Juan Pablo LEÓN GONZÁLEZ[1] [1] CICATA-IPN, U. Altamira, Mexico [2] CONACYT-CICATA-IPN, U. Altamira, Mexico [3] CENIM-CSIC, Spain

Modelling of corrosion using cellular automata

Cathodic protection in marine environments (WP9 & WP16)

Panel No.	On display	Title
P-014		Analysis of galvanic anodes consumption rate according to anode/cathode area ratio JOSÉ VICTOR GOUDAR[1] SIMONE LOUISE BRASIL[1] [1] Federal University of Rio de Janeiro, Brazil

Management of Corrosion

Corrosion in Concrete and Cathodic Protection (WP11 and WP16)

Polymers in Organic Coatings (WP14 + WP19)

Panel No.	On display	Title
P-209		Aging characterization of anticorrosive epoxy paint in a marine environment Yazid TOUAZI[1] Abderezzak ABDI[2] Kamel KHIMECH[3] [1] Kr Lüneburg, Germany [2] EMP, France [3] EMP, Algeria
P-210		Conductive polymers as anticorrosion pigments in various types of organic protective coatings Bartlomiej KOBIALKA[1] Barbara KAZUBEK[1] Jakub S. SLIWINSKI[1] [1] NanoPure Sp. z o.o., Poland
P-208		Development of highly hydrophobic PVC electrospun coatings for corrosion protection of aluminum substrates Pedro J. RIVERO[1] Alvaro IRIBARREN[1] Carlos BERLANGA[1] Jose F. PALACIO[2] Silvia LARUMBE[2] Adrian MIGUEL[2] Rafael RODRIGUEZ[1] [1] Public University of Navarra, Spain [2] Centre of Advanced Surface Engineering, AIN, Spain
P-225		Electrochemical functionalization of AISI 304 stainless steel coupons with poly-aminoindoles: A comparative study of the electrochemical technique towards the polymer deposition and their performance against corrosion Camila CANALES[1] Francisco ARMIJO[1] Magdalena WALCZAK[1] Rodrigo DE LA IGLESIA[1] Gonzalo PIZARRO[1] Ignacio VARGAS[1] [1] Pontificia Universidad Católica de Chile, Chile

Panel No.	On display	Title
P-211		Study on Corrosion Resistance of Water-borne Epoxy Acrylic Coatings by EIS Zhu HUA[1] [1] Wuhan university, China PR

Microbial Corrosion in Marine Environment (WP9 + WP10)

Progress in Prevention of Microbial Corrosion in Oil & Gas (WP10 + WP13)

Coatings for High Temperatures (WP3 + WP14)

Panel No.	On display	Title
P-054		A Sputtered Nanocrystalline Coating for High Temperature Applications on the Single Crystal Superalloy N5 Jinlong WANG[1] [1] Shenyang National Laboratory for Materials Science, Northeastern University, China PR
P-051		High temperature oxidation properties of C doped Al2O3 coating prepared by cathode plasma electrolytic deposition Shuguang ZHANG[1] Jin ZHANG[1] Yong LIAN[1] Yedong HE[1] [1] Institute of Advanced Materials and Technology, University of Science and Technology Beijing, China PR
P-221		Hot corrosion behavior of selected thermally sprayed carbide and alloy based coatings Zdenek CESÁNEK[1] Radek MUSALEK[2] Frantisek LUKAC[2] Jan SCHUBERT[1] Kateřina LENCOVÁ[3] [1] Vyzkumny a zkusebni ustav Plzen s.r.o., Czech Republic [2] Institute of Plasma Physics AS CR, v.v.i., Czech Republic [3] Výzkumný a zkušební ústav Plzeň s.r.o., Czech Republic

Panel No.	On display	Title
P-062		Isothermal oxidation of black glasses in the form of protective coatings on FeAl based alloy Maciej BIK[1] Janusz CEBULSKI[2] Dorota PASEK[2] Piotr JELEŃ[1] Mirosław STYGAR[1] Juliusz DĄBROWA[1] Elżbieta DŁUGOŃ[1] Krzysztof MROCZKA[3] Jan WYRWA[1] Maciej SITARZ[1] [1] AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland [2] Silesian University of Technology, Materials Science Institute, Gliwice, Poland [3] Pedagogical University of Cracow, Institute of Technology, Cracow, Poland
P-053		Oxidation performance of a grain oriented electrical steel Francisco VELASCO[1] Belen ENCISO[1] Mariola PANTOJA[1] Asuncion BAUTISTA[1] [1] Universidad Carlos III de Madrid, Spain
		Preparation of aluminized nanocrystalline coating and study of its high temperature corrosion behavior Li XIN[1] Fuhui WANG[2] [1] Institute of Metal Research, Chinese Acadamy of Sciences, China PR [2] Northeastern University, China PR
P-050		Sputtered FeCoNi metallic coating on solid oxide fuel cell steel interconnect Shujiang GENG[1] Fuhui WANG[1] [1] Northeastern University, China PR

Dense Phase Symposium (WP13 + TF)

Atmospheric Environmentally Assisted Cracking in Automotive and Aerospace Industries

Panel No.	On display	Title

Panel No.	On display	Title
P-005		Effect of zinc coating on hydrogen entry into high strength steels Vaclav SEFL[1] Darya RUDOMILOVA[1] Tomas PROSEK[1] Gabriela SCHIMO-AICHHORN[2] Ines TRAXLER[2] Andreas MUHR[3] Hubert DUCHACZEK[3] Gerald LUCKENEDER[3] [1] University of Chemistry and Technology Prague, Czech Republic [2] CEST Competence Center for Electrochemical Surface Technology, Austria [3] Voestalpine Stahl GmbH, Austria

Organic Coatings for Concrete Structures (WP11 + WP14)

Pitting corrosion of copper in drinking water installations: Is there a new phenomenon? (WP20 + Ceocor)

Durability of photovoltaic modules

WCO