



FINAL PROGRAM

Sunday – November 18 th	
15:00 – 19:00	Registration
19:00 - 19:30	Opening Section
19:30 – 20:30	Opening Plenary Lecture - From Traditional to Advanced Electrochemical Techniques for Understanding Corrosion Mechanisms a Comprehensive Survey M. Keddah
20:30 – 22:00	Welcome Reception

Monday – November 19 th	
8:00 – 9:00	Plenary Lecture - Localized Electrochemistry Applied to the Development of New Strategies for Corrosion Protection M. F. Montemor
Chairs	L. Fedrizzi - University of Udine, Italy/ A. Benedetti – UNESP, Brazil
9:00 – 9:30	Keynote Lecture - SVET and ECSM Measurements Under Simultaneous Strain on Hot-Dip Zn based coatings L. F. P. Dick, S. N. da Silva, S. M. Manhabosco
9:30 – 9:50	Corrosion Resistance Evaluation and Electrochemical Characterization of an Aluminium Brazing Sheet F. Norouzi Afshar, J.H.W. de Wit, H. Terryn, J.M.C. Mol
9:50 – 10:10	Initiation and Propagation of a single pit on stainless steel using SECM N. Aouina, F. Balbaud-Célériér, F. Huet, S. Joiret, H. Perrot, F. Rouillard, V. Vivier
10:10 – 10:30	Study of local electrochemical behaviour of Cu-containing minerals by means of electrochemical micro-cell A.V. Benedetti, F. Andreatta, L. Pausa, D. Bevilaqua, L. Fedrizzi
10:30 – 10:50	Coffee Break
10:50 – 11:20	Keynote Lecture - Electrochemical Studies of Weldable Thin Primers A. M. Simões, A. G. Marques
11:20 – 11:40	SVET and SIET Studies on 7081-T73511 Aluminium Alloy J. C. S. Fernandes, J. A. Moreto, M. Taryba, S. Eugénio, S. V. Lamaka, L. A. Rocha, W. W. Bose Filho
11:40 – 12:00	Combining Atomic Force Microscopy and Electrochemical Impedance Spectroscopy for local corrosion studies T. Muselle, I. De Graeve, Y. Van Ingelgem, H. Terryn, A. Hubin
12:00 – 12:20	Using LEIS to evaluate the local electrochemical activity of Al 7475 T761/Cu model electrodes J. V. Ferrari, H. G. de Melo, N. Pébère, B. Tribollet, V. Vivier
12:20 – 12:40	Self-assembly of phosphonic acid layers on the oxide of aluminium T. Hauffman, T. Breugelmans, Y. Van Ingelgem, E. Tourwé, H. Terryn, A. Hubin
12:40 – 13:00	Exhibitor Technical Presentation – NOVA and automatic corrosion evaluation Luca Pini - Metrohm Autolab – The Netherlands
13:00 – 16:00	Lunch Break
Chairs	M. G. Olivier – UMONS, Belgium/A. P. Romano - UMONS, Belgium
16:00 – 16:30	Keynote Lecture - Optical microscopy coupled to electrochemical techniques to investigate pitting corrosion E. C. Pereira
16:30 – 16:50	On-line volumetric analysis of cathodic gas formation K. Ogle, S. Lebouil, P. Volovitch, F. Monti, P. Tabeling
16:50 – 17:10	Corrosion Protection of clad AA2024 Anodized in Sulphuric and Tartaric-Sulphuric Acid Sealed with Sol-Gel Hybrid Coatings V.R. Capelossi, M. Poelman, R. P. B. Hernandez, H. G de Melo, M.-G. Olivier
17:10 – 17:30	Corrosion Behavior of Alloy U2.5Zr7.5Nb in Relation to Phase Stability C. A. Figueiredo, F. A. Mansur, A. M. M. dos Santos, W. B. Ferraz
17:30 – 17:50	In-situ electrochemical characterization of "discharges initiation" during micro-arc oxidation of Mg alloys D. Veys-Renaux, E. Rocca
17:50 – 18:10	Coffee Break
18:10 – 18:30	Developments in the Electrochemical Noise Method to make it more practical for assessment of anti-corrosive coatings L. Mularczyk, D. Mills and P. Picton
18:30 – 18:50	Comparison of Micro- and Macroscopic Electrochemical Noise Measurements during SCC of Austenitic Stainless Steel M. Breimesser, S. Ritter, H.P. Seifert, T. Suter and S. Virtanen
18:50 – 19:10	Evaluation of Organic Acids as Corrosion Inhibitors in Chlorides Contaminated Alkaline Solutions by means of Cyclic Voltammetry M. Cabrini, S. Lorenzi, T. Pastore
19:10 – 19:30	Corrosion resistance of API X70 pipeline in glutaraldehyde, and sodium sulfite and hydroxide V. F. C. Lins, F. C. Lage, G. M. Rodrigues, R. Y. H. Wu, V. F. Oliveira, M. M. R. Castro
19:30 – 19:50	Electrochemical Impedance Evaluation of Uracil and Thymine Pyrimidine Derivatives and its Nucleosides Compounds as a Non-toxic Corrosion Inhibitors of Steels in 1M HCl A. Espinoza-Vazquez, G.E. Negrón-Silva, M.E. Palomar-Pardavé, M.A. Romero-Romo, H. Herrera-Hernández
Dinner	

Tuesday – November 20 th	
8:00 – 9:00	Plenary Lecture - The Use of the Electrochemical Micro-cell to Study the Corrosion Inhibition of Aluminium Alloys L. Fedrizzi
Chairs	João S. Fernandes - IST Portugal/ I. Margarit-Mattos – UFRJ, Brazil
9:00 – 9:30	Keynote Lecture - Constant-Phase-Element Behavior Caused by Inhomogeneous Electrolyte Uptake in Anti-Corrosion Coatings S. Amand, M. Musiani, M. E. Orazem, N. Pébère, B. Tribollet, V. Vivier
9:30 – 9:50	Study of the Filiform Corrosion of 6016 Aluminium Alloy Covered by Cathodic Coating: Application in Automotive Industry A.-P. Romano, A. Nazarov, D. Thierry, M.-G. Olivier
9:50 – 10:10	Corrosion of 2024 Aluminium Alloy in Restricted Volumes of Electrolyte: Use of a Thin Layer Cell E. Sutter, S. Joma, M. Sancy, M. Tran, B. Tribollet
10:10 – 10:30	Electrochemical behavior of intermetallic phases in sulfuric acid at high voltage – anodization of Al ₇ Cu ₂ Fe and MgZn ₂ phase J. Tardelli and E. Rocca
10:30 – 10:50	Coffee Break
10:50 – 11:20	Keynote Lecture - A Critical Look at Interpretation of Impedance Spectra of Coated Aluminum Alloys M. Zheludkevich, K. A. Yasakau, M. Starykevich, M. G.S. Ferreira
11:20 – 11:40	Effect of mechanical stress onto water uptake in epoxy systems S. Touzain, D. Nguyen Dang, S. Mallarino, S. Cohendoz, X. Feaugas
11:40 – 12:00	A Comparative Investigation Between the Electrochemical Behavior of Hybrid Coatings Modified With Ce(III) or Ce(IV) Ions and Applied to AA 2024-T3 B. M. Vasconcelos, R.P.B. Hernández, H.G. de Melo, V.R. Capellosi
12:00 – 12:20	EIS Characterization of UV-Cured Hybrid Sol-Gel Coatings for Corrosion Protection of Aluminum Alloy 2024-T3 S. Chanfreau, N. Moreau, L. Ni, A. Chemtob, C. Croutxe-Barghorn, N. Pébère
12:20 – 12:40	MOCVD Nano-Structured TiO ₂ Coatings for Corrosion Protection of Stainless Steels J.A. Galaviz-Pérez, J.R. Vargas-García, J.G. Hernández-López, H. Herrera-Hernández
12:40 – 13:00	Exhibitor Technical Presentation – Localized Electrochemical Corrosion Measurements Rob Sides - Princeton Applied Research
13:00 – 16:00	Lunch Break
Chairs	Roberto Torresi – USP, Brazil/Vincent Vivier – CNRS, France
16:00 – 16:30	Keynote Lecture - Effect of Curing Time and Temperature on the Corrosion Protection Properties of Hybrid Coatings F. Deflorian, M. Fedel, M.-G. Olivier, M. Poelman
16:30 – 16:50	Synthesis of Polypyrrole-Magnetite/Silane Coatings on Steel and Assessment of Anticorrosive Properties P. Montoya, C. R. Martins, H. G. de Melo, I. V. Aoki, F. Jaramillo, J. A. Calderón
16:50 – 17:10	Encapsulation of Dodecylamine Inhibitor on Silica Nanoparticles J. M. Falcón, F. F. Batista and I. V. Aoki
17:10 – 17:30	Evolution of Electrochemical Properties of Organic Coatings During UV-Condensation Weathering Test F. E. Bedoya, L. M. Gallego, Á. Bermúdez, J. G. Castaño, F. Echeverría, J. A. Calderón
17:30 – 17:50	Withdraw Study for Hybrid Coating on Tinplate F. M. di L. da Cruz, L. Paussa, A. Lanzutti, F. Andreatta, L. Fedrizzi, P. H. Suegama, A. V. Benedetti
17:50 – 18:10	Exhibitor Technical Presentation – An Overview of Corrosion Rate measurement techniques including Electrochemical Frequency Modulation. Abe Krebs – Gamry
18:10 – 20:10	Coffee Break POSTER SECTION Local Electrochemical Techniques (3) Corrosion Inhibitors (4) Electrochemical Noise (3) Anticorrosion Protective Methods (21)
20:10	Special Beach Dinner

Wednesday – November 21 st	
9:00 – 15:30	BOAT TRIP and LUNCH BREAK
15:30 – 16:30	Plenary Lecture - Developing Corrosion Prediction Models from X-ray Measurements A.J. Davenport
Chairs	B. Tribollet – CNRS, France/ M. Keddam – CNRS, France
16:30 – 17:00	Keynote Lecture - Odd Random Phase Electrochemical Impedance Spectroscopy (ORP-EIS) as a powerful tool for corrosion studies C. Cordoli, A. Alvarez Pampliega, T. Muselle, T. Hauffman, T. Breugelmans, Y. Van Ingelgem, <u>A. Hubin</u>
17:00 – 17:20	Consequences of mobile and storage dislocations on the Hydrogen Evolution Reaction HER for strained (100) single crystal <u>X. Feaugas</u> , C. Lekbir, J. Creus, R. Sabot, C. Savall
17:20 – 17:40	Correlation between stress corrosion and hydrogen permeation in low alloy steel using electrochemical techniques D. C. S. Garcia, <u>V. F. C. Lins</u> , M. M. Lima, L. S. Ribeiro
17:40 – 18:00	Electrochemical Techniques in Tribocorrosion. A New Mechano-Electrochemical Transfer Function. <u>M. Keddam</u> , D. Rose, V. Vivier, P. Ponthiaux, F. Wenger
18:00 – 18:20	Coffee Break
18:20 – 18:50	Keynote Lecture - Use of LEIS and the power-law model for the analysis of constant-phase-elements related to oxide layers <u>I. Frateur</u>
18:50 – 19:10	<u>Transpassive Oxide Films</u> <u>M. M. Lohrengel</u>
19:10 – 19:30	Anodization of Ta Nano Particles <u>K. P. Rataj</u> , M. M. Lohrengel, C. Schnitter
19:30 – 19:50	Study of Alloys CoCrWMo NiCrMo by EIS and XPS <u>K. S. Souza</u> , P. A.P. Nascente, S. M.L. Agostinho
19:50 – 20:10	Evaluation of Critical Pitting Temperature for Superduplex Stainless Steel <u>T. Sawczen</u> , B. B. Ferraro, L. G. N. Barbosa, C. A. Barbosa, É. Teixeira-Neto and S. M. L. Agostinho
20:10 – 21:00	DINNER
21:00 – 23:00	SOCIAL PROGRAM – Tour to Maragogi (FREE – registration required)

Thursday – November 22 nd	
8:00 – 9:00	Plenary Lecture - Pre-salt Challenger: Corrosion Laboratory Tests in Very High Pressures O.R. Mattos
Chairs	A. Davenport – Univ. Birmingham, UK / Vanessa Lins – UFMG Brazil
9:00 – 9:30	Keynote Lecture - Macro and micro aspects of the transport of chlorides through cementitious membranes B. Díaz, X.R. Nóvoa, B. Puga, V. Vivier
9:30 – 9:50	Influence of Unsupported Concrete Media in Corrosion Assessment for Steel Reinforcing Concrete by EIS A. S. Castela, B. Sena da Fonseca, R.G. Duarte, Rui Neves, M. F. Montemor
9:50 – 10:10	Corrosion Behavior of Stainless Steel Rebars Embedded in Concrete by EIS R. G. Duarte, A. S. Castela, Rui Neves, L. Freire, M. F. Montemor
10:10 – 10:30	Coffee Break
10:30 – 10:50	Cathodic behaviour in presence of weak acid. Application to corrosion in presence of H ₂ S and CO ₂ B. Tribollet, E. Sutter, J. Kittel, F. Ropital, F. Grojean, E. Remita, Carol Taravel-Condat
10:50 – 11:10	Electrochemical impedance spectroscopy (EIS) studies in ethanol Z. Panossian, C. A. L. dos Santos, J. V. S. dos Santos, G. S. Pimenta
11:10 – 11:30	AC Impedance and Gravimetric Techniques Applied to Assess the Corrosion Behavior of Carbon Steel and Degradation Processes of Soybean Methyl Biodiesel and Biodiesel/Petrodiesel B5 Blend E. Cavalcanti, T. M. Fonseca, L. G. Lima and H. G. Jimenez
11:30 – 11:50	Using the Electrochemical Impedance Spectroscopy to Characterize Different Metallic Materials in Biodiesel B100 A. H. Akita, L. Paussa, F. Andreatta, L. Fedrizzi, C. S. Fugivara, A. V. Benedetti
11:50 – 12:10	Electrochemical study of carbon steel in pure ethanol: the influence of the distance between the working and quasi-reference electrodes and of the immersion time on the EIS measurements C. A. L. dos Santos, José V. S. dos Santos, M. L. Pereira Filho, Z. Panossian
12:10 – 12:30	Corrosion Evaluation of SAW Welded API 5L X-80 Joints in Environment Containing H ₂ S A. F. Ballesteros, I. S. Bott
12:30 – 12:50	Exhibitor Technical Presentation – Electrochemistry as a tool for corrosion research Thayane Carpanedo - Labsolutions
12:50 – 16:00	Lunch Break
Chairs	F. Montemor – IST Portugal / Eliane Sutter – CNRS, France
16:00 – 16:30	Keynote Lecture - On the Cathodic Corrosion of Aluminum and Aluminum Alloys K. Ogle, M. Serdechnova, P. Volovitch
16:30 – 16:50	Applicability and Limitations of the EPR-Test as a Substitute for ASTM G28 A Streicher-Test G. Morj, M. Prohaska, G. Tischler
16:50 – 17:10	Experimental Procedures and Diagnostics of Sensitization by DL-EPR F. V. V. de Sousa, P. Muri, K. S. de Assis, A. C. da Rocha, I. C. P. Margarit-Mattos, O. R. Mattos
17:10 – 17:30	Pit transition potential in the repassivation process of Al Alloys M. Trueba, I. Comotti, D. Cicolin, S.P. Trasatti
17:30 – 19:30	Coffee Break + POSTER SECTION Corrosion in biofuels and in the oil and gas industry (4) Corrosion in Concrete (1) Passivity and Local Corrosion (9) Corrosion Models and Mechanisms (2) Local Electrochemical Techniques (3) General Topics (5) Coupling Between Electrochemical and Non-Electrochemical Methods (2) Corrosion in the Nuclear and Aeronautical Industries (5)
20:30	Symposium Dinner



Friday – November 23 rd	
9:00 – 10:00	Plenary Lecture - Use of Advanced Electrochemical and Surface Analysis for the Development of New Generations of Self Healing Organic Coatings H. Terryn
Chairs	J.M.C.Mol – TUDelft, The Netherlands/J. A. Calderón – University of Antioquia, Colombia
10:00 – 10:30	Keynote Lecture - Corrosion characterization of stainless steels for application as biomaterials by electrochemical methods R. A. Marques, A. Hincapié Ramirez, T. F. Fontes, E. F. Pieretti, C. Hincapié Ramirez, <u>I. Costa</u>
10:30 – 11:00	Keynote Lecture - Corrosion behaviour of a martensitic stainless steel in a thin-layer cell S. Marcelin, N. Pébère, S. Régnier
11:00 – 11:20	Coffee Break
11:20 – 11:40	Intergranular Corrosion in a Super-Martensitic Stainless Steel Containing 0.06N-0.025Nb-0.1V <u>J. W. Calderón-Hernández</u> , D. Hincapié-Ladino, M. P. Oliveira, N. Alonso-Falleiros
11:40 – 12:00	Methodology for determination of corrosion current density evolutions. Case of AISI 1020 steel in high content chloride ion solutions <u>G. A. de O. Brito</u> , C. V. D'Alkaine, M. B. J. G. de Freitas, C. L. G. Homem, J. G. Giori
12:00 – 12:20	Electrochemical Corrosion Study of a SA-516 GR 70 Carbon Steel, SA-240 TP 317 L Stainless Steel and Roll-Bonded Clad (SA-516 GR70 + SA-240 TP 317L) in H ₂ SO ₄ Araújo, C. R.; Carneiro, J. R. G.; Meireles, A. C. F.; <u>França, G. D.</u> ; Silva, L. J. D.; Lins, V. F. C.
12:20 – 12:40	Practical Aspects of the Electrochemical Potentiodynamic Reactivation Technique Applied in Welded Joint of Superduplex Stainless Steel <u>O. R. Mattos</u> , K. S. de Assis, I. C. P. Margarit Mattos
12:40 – 13:00	Final remarks
13:00	Lunch

SHORT COURSES

Friday – November 23 rd		
10:00 – 13:00	Dr. Vincent VIVIER	Dr. Francesco ANDREATA
	Use of Local Electrochemical Techniques to Investigate Corrosion	Using Microcells to Investigate Corrosion Phenomena

POSTER PROGRAM

Tuesday –November 20 th 17:50 – 19:50	
Tu – 01	Assessment of the effect of GFRP on the corrosion of steel reinforcement in confined RC by EIS B. Sena da Fonseca, A.S. Castela, M.G.S. Ferreira, R.G. Duarte, M.A.G. Silva, <u>M.F. Montemor</u>
Tu – 02	Erosion-Corrosion Resistance of Ni Composite Coatings with Embedded SiC Nanoparticles Johny E. Henao, <u>Franky Bedoya</u> , Maryory A. Gómez, Jorge A. Calderón
Tu – 03	Corrosion Protection of Spray-Deposited Al-Si Alloy by Anodizing Treatments <u>H. Herrera Hernández</u> , R. Abdelarrague, J.M. Juárez García
Tu – 04	Corrosion Behavior of Al-based PVD Multilayer Sacrificial Coatings <u>Sébastien Touzain</u> , Juan Creus, Andréa Perez, Frédéric Sanchette and Alain Billard
Tu – 05	Corrosion behavior of nanotubular oxide layer anodically formed in the Ti6Al7Nb alloy <u>Cristiane R. Martins</u> , Glauber F. Couto, Christiane de A. Rodrigues
Tu – 06	Analysis of the Formation of a Vinyltrimethoxysilane Film on 1010 Carbon Steel Using Electrochemical Techniques Bruno S. Fernandes, Kleber G. da S. Souza, Idalina V. Aoki, Hercilio G. de Melo, <u>Franco D. R. Amado</u>
Tu – 07	Evaluation of the Influence of Experimental Parameters in the Formation of a Vinyltrimethoxysilane Film on 1010 Carbon Steel Through EIS and Contact Angle Bruno S. Fernandes, Kleber G. da S. Souza, Idalina V. Aoki, Hercilio G. de Melo, <u>Franco D. R. Amado</u>
Tu – 08	Corrosion Behavior of Hybrid Xerogel Coating Based on Charged Bissilane Group for Copper Substrate <u>Denise S. Azambuja</u> , Débora S. F. Gay, Sílvia M. Tamborim, Geraldo B. Machado, Tânia M. H. Costa, Edilson V. Benvenutti
Tu – 09	Corrosion Behavior of AA2024 Coated with Phosphonate-containing VTMS/TEOS Viviane Dalmoro, João Henrique Z. dos Santos, <u>Denise S. Azambuja</u>
Tu – 10	Characterization of silane films formed on galvanized steel by means of electrochemical techniques Tiago Lemos-Menezes, <u>Jane Zoppas Ferreira</u> , Rita Sanchez-Tovar, Rafael Leiva-García, José García-Antón
Tu – 11	Influence of tetraethoxy silane addition in siloxane-poly(methyl methacrylate) hybrid films applied on galvanized steel Sandra R. Kunst, Cláudia T. Oliveira, Cícero Inácio da Silva Filho, <u>Victor H. V. Sarmento</u> , Iduvirges L. Müller, Célia F. Malfatti
Tu – 12	Corrosion Resistance of Tin plate Substrates due to Organic or Inorganic Acid Hydrolysis of Siloxane-poly(methyl methacrylate) Hybrid Films Sandra R. Kunst, Cláudia T. Oliveira, Joseane de Andrade Satana, <u>Victor H. V. Sarmento</u> , Iduvirges L. Müller, Célia F. Malfatti
Tu – 13	Evaluation of a Sulfursilane Anticorrosive Pretreatment on Galvannealed Steel Compared to Phosphate under Waterborne Epoxy Coating <u>Juliana S. Francisco</u> , Vera R. Capelossi, Idalina V. Aoki
Tu – 14	Corrosion Resistance of Phosphatized and Painted Zinc Coated and Uncoated Steels Using Electrochemical Impedance Spectroscopy <u>Maria M.R. Castro</u> , Tamara S.L. Cavalcante, Vanessa F. C. Lins, Egnalda P.S. Pimenta
Tu – 15	Characterization of Cerium Conversion Coatings using accelerators on Aluminum by Scanning Electronic Microscopy and Scanning Electrochemical Microscopy Karina Cruz Hernández, <u>Francisco J Rodríguez Gómez</u> and Victor M Ugalde Saldívar
Tu – 16	A Combination of Cerium and Niobium Treatments for Corrosion Protection of Electrogalvanized Steel <u>José Mário Ferreira Jr.</u> , Célia R. Tomachuk, Jesualdo L. Rossi, Wagner I. A. Santos, Steve J. Hinder, Mark A. Baker, Isolda Costa

Tu – 17	Evaluation of the Corrosion Behavior of Cr(VI) Free Passivating Treatments for Galvanized Steel <u>Victor E. Perez Hernandez</u> , Milton J. Pimenta Segundo, Celia R. Tomachuk, Hercilio G. de Melo
Tu – 18	Electrochemical characterization of passivated electrogalvanized steel <u>Célia R. Tomachuk</u> , Cecilia I. Elsner, Alejandro R. Di Sarli
Tu – 19	Passivation Treatments for Galvanized Steel as Potential Replacements to Chromate Conversion Coatings Marcelo Oliveira, José Mário Ferreira Jr., Wagner I. A. dos Santos, Célia R. Tomachuk, <u>Jesualdo L. Rossi</u> , Isolda Costa
Tu – 20	Passivation of Electrogalvanized Steel with Conversion Coatings in Cr VI-Free solutions Kellie Provazi de Souza, Célia R. Tomachuk, <u>Luis E. M. Palomino</u> , Isolda Costa
Tu – 21	Smart Polyaniline Acrylic Blends Coatings for Corrosion Protection <u>Roberto M. Torresi</u> , Jose E. Pereira da Silva and Susana I. Cordoba de Torresi
Tu – 22	Corrosion resistance of ZnRE alloys <u>Delphine Veys-Renaux</u> , Khadoudj Guessouma, Emmanuel Rocca, Kamel Belhamel
Tu – 23	LEIS to Study Corrosion Protection of AA 2024-T3 by Smart Coating Containing Encapsulated Inhibitors <u>Cosmelina G. da Silva</u> , Christophe Barbé, Elisa Campazzi, Pierre-Jean Lathière, Nadine Pébère, Eric Rumeau, Ludovic Tran, Martine Villatte
Tu – 24	Use of Scanning Vibrating Electrode Technique to Localized Corrosion Evaluation of ASTM F139 Stainless Steel Marked by Laser Eurico F. Pieretti, Sara M. Manhabosco, Luís F. P. Dick, <u>Isolda Costa</u>
Tu – 25	Chemical Descaling of High Temperature Oxides Formed on Low Alloy Steels <u>Pedro C. Hernandez Jr</u> , Vincent Vignal and Luis F. P. Dick
Tu – 26	Monitoring by Electrochemical Noise of TiO ₂ Thin Films Immersed in Synthetic Physiological Media José Fernando Flores-Álvarez, <u>Francisco J. Rodríguez Gómez</u> , Atahualpa O. Garcia-Delgado, Dwight Acosta-Najarro, Carlos R. Magaña-Zavala
Tu – 27	The Naphtenic Acid Number Influence Analysis at the Stainless Steel Corrosion Behavior - Electrochemical Noise Technique <u>Fernanda Hass</u> , Ana C.T. G. Abrantes, Alysson N. Diogenes, Haroldo A. Ponte
Tu – 28	Analysis of current transients of AISI 1020 steel corrosion in sea water using electrochemical noise methods and optical monitoring <u>Emerson C. Rios</u> , Alexsandro M. Zimer, Lucia H. Mascaro, Ernesto C. Pereira
Tu – 29	Drag Reducing Additives as a Corrosion Prevention <u>María de L. Elizalde</u> , Jesús D. Robles
Tu – 30	Study of an Anthocyanin as a Corrosion Inhibitor for Aluminum in Water Contaminated with a Mix of Diesel/Biodiesel Rafael do N. Carvas, Hercilio G. de Melo, <u>Isabel C. Guedes</u>
Tu – 31	The role of Mg ²⁺ ions on the corrosion behavior of AA2024-T3 alloys immersed in chloride-containing environments A. Collazo, X.R. Nóvoa, C. Pérez
Tu – 32	Study of Zirconium Addition on CR VI-Free Passivating Layers Applied on Zinc Coated Steel <u>Kellie Provazi de Souza</u> , Célia R. Tomachuk, Luis E. Morales Palomino, Isolda Costa

Thursday – November 22nd

17:30 – 19:30

Th – 01	Flow as Main Parameter for the Prediction of Corrosion Speed in Turbulent Flow During the Crude Oil Transportation <u>María de L. Elizalde</u> , <u>Jesús D. Robles</u>
Th – 02	Electrochemical Techniques Using the Rotating Cylinder Geometry as a Method to Prevent Damage in Pipelines <u>Jesús D. Robles</u> , <u>María de L. Elizalde</u>
Th – 03	Experimental Design in the Study of Physical and Chemical Variables in Galvanic Corrosion between Carbon Steel and CuAlBe <u>M. C. P. Cruz</u> , C. M. F. Soares, R. T. Figueiredo; E. B. Cavalcanti, R. E. Souza, P. M. M. Araújo
Th – 04	Coupons of Corrosion in CuAlNi in the Petroleum Industry: A valuable additional resource in electrochemical techniques <u>M. C. P. Cruz</u> , R. T. Figueiredo, R. E. Souza, P. M. M. Araújo
Th – 05	Study of Lime Addition on Corrosion Resistance of Reinforced Mortar Of Carbon Steel and Galvanized Steel Michele C. C. Oliveira, Vanessa F. C. Lins, <u>Cintia G. F. Costa</u> , Maria M. R. Castro, Bruno S. Santos, Carlos R. Araújo, Gelmo C. Costa, Elbia S. Pessin, Ana. R. Leite
Th – 06	Corrosion resistance of welded joints of Lean Duplex 2304 stainless steel <u>Cintia G. Fonseca Costa</u> , Dalila M. da Silveira, Carla S. Souza, Ronaldo C. Junior, Frederico R. Campos, Alexandre Q. Bracarense, Vanessa de F. C. Lins
Th – 07	Study of the Corrosion of Steel Superduplex UNS S32750 Involving Different Ferrite / Austenite Ratio in Acid Solutions Containing Chloride Rodrigo R. A. Garcia and <u>Oscar R. Mattos</u>
Th – 08	Influence of Cold Deformation on Semiconducting Properties of the ISO NBR 5832-1 Austenitic Stainless Steel Alexander Hincapié Ramirez, Cristiaann Hincapié Ramirez, <u>Isolda Costa</u>
Th – 09	Electrochemical consequences of inverse macro segregation in skin of high-pressure die cast (HPDC) AZ91 alloy <u>Emmanuel Rocca</u> , Caroline Juers, Stéphane Mathieu
Th – 10	Electrochemical Studies of Aluminium and Aluminium Silicon Alloys in 0.1 mol. L ⁻¹ H ₂ SO ₄ Luana S. dos Santos, Luiza B. Fernandes, Suellen C. R. Miranda, José M. do V. Quaresma, <u>José C. Cardoso Filho</u>
Th – 11	Preliminary Evaluation of Localized Corrosion Using Potentiodynamic and Potentiostatic Techniques <u>Luciana I. L. Lima</u> , Marília M. Lima, Marcelo Ferreira, Ricardo Nolasco, Marina M. D. de Souza, Igor A. de Oliveira
Th – 12	The Effect of Heat Treatment on the Corrosion Resistance of Ti and Ti-Nb Alloys in Fluoride Solution <u>Caio P. Abreu</u> , Luciano M. Silva, Carlos R. Grandini, Sergio L. Assis, Isolda Costa
Th – 13	Investigation of Passive Layers of Incoloy MA 956 and DIN 1.4575 for odontological applications <u>Maysa Terada</u> , Rogério A. Marques, Angelo Fernando Padilha, Isolda Costa
Th – 14	Microstructural and Electrochemical Characterization of Duplex Stainless Steels Friction Stir Welded Marina Magnani, <u>Maysa Terada</u> , Vanessa P. Tallo, Tiago F. A. Santos, Antonio J. Ramirez
Th – 15	Electrochemical investigations of the relationship between grain size and corrosion processes in nanocrystalline grain size range N. Shakibi Nia, A. Godon, J. Creus, <u>X. Feaugas</u> , C. Savall
Th – 16	Internal Conditions Simulation to Control damage in a Carbon Steel Pipeline <u>Jesús D. Robles</u> , <u>María de L. Elizalde</u>
Th – 17	Corrosion Resistance of Nickel and High-Chromium Iron Alloys in Turbocharger Application Alexandra Silvia Matheisen Paroni, <u>Jose Wilmar Calderón-Hernández</u> , Neusa Alonso-Falleiros

Th – 18	Influence of Buffer Solution on the Tafel Parameters by Varying the Cathodic Overpotential Applied on Steel in Chloride Media Marco A. G. Valente Jr., Rodrigo Della Noce, Assis V. Benedetti, <u>Cecilio Sadao Fugivara</u>
Th – 19	EIS Studies of As-Cast Monotectic Al-Pb and Al-In Alloys in a 0.5 M NaCl Solution <u>Emmanuelle Sá Freitas</u> , Wislei R. Osorio and Amauri Garcia
Th – 20	Application of Electrochemical Impedance Spectroscopy Technique in the Performance Evaluation of Internal Lacquer of the Can/Simulant System <u>Bianca de O. Pelici</u> , Maria Teresa de O. Freire, Gelson A. Conceicao, Eliana S. Kamimura, Celia Marina de A. Freire
Th – 21	Study of the Anodization of Pure Al and Electrolytic Coloring by Pulsed Current <u>Natal N. Regone</u>
Th – 22	An electrochemical and surface analytical study of the degradation of electrode material during pulse electrolysis of water Daniela Hristova, Iva Betova, <u>Tzvetz Tzvetkoff</u>
Th – 23	Biocorrosion Study of Aerospace 2024-T3 Alloy Exposed to Different Chilean Air Bases <u>Mamié Sancy</u> , Estivalia Morales, M. Ignacio Azócar, Grace Gómez, Maritza Páez and Nelson Vejar
Th – 24	Corrosion Protection of the Clad on AA2024-T3 by Cerium Based Conversion Coatings <u>Wagner Izaltino A. Santos</u> , José Mário Ferreira Jr., Marcelo de Oliveira, Mark A. Baker, Steve J. Hinder, Isolda Costa
Th – 25	Cathodic Dissolution of Aluminum Alloy AA6061 <u>Adonis Marcelo Saliba Silva</u> , Márcio Dan Kuroiwa, Rafael Henrique Lazzari Garcia, Elita Fontenelle Urano de Carvalho, Michelangelo Durazzo
Th – 26	Uranium Electrochemistry Applied to Mo-99 Irradiation Targets Adonis M. Saliba-Silva, Rafael H. L. Garcia, Eduardo H. Bertin, Elita F. U. Carvalho, <u>Michelangelo Durazzo</u>
Th – 27	Preliminary Study of the Effect of Electrolyte Composition on the Electrochemical Behavior of Alloy 800NG in PWR Secondary Water Environment at 80°C and 250°C <u>Mônica Maria A. M. Schwartzman</u> , Fábio A. Mansur, Célia de A. Figueiredo, Pedro Henrique B. O. Nogueira
Th – 28	Temporal series micrographs coupled with electrochemical techniques to analysis pit corrosion in carbonate and chloride solutions Alexsandro M. Zimer, Matheus A.S. de Carra, Lucia H. Mascaro, <u>Ernesto C. Pereira</u>