

# Program Themes



	Sunday June 19	Monday June 20	Tuesday June 21	Wednesday June 22	Thursday June 23	Friday June 24	
8:45-9:00		Welcome	Hall A				
9:00-10:00		PL1 (J. Bisquert)	PL2 (C. Brett)	PL3 (D.D. Macdonald)	PL4 (V. Vivier)	PL5 (M. Musiani)	
		Hall A	Hall A	Hall B	Hall A	Hall A	
10:00-10:30		<b>Energy</b>	<b>Corrosion</b>	<b>Sensors</b>	<b>Corrosion</b>	<b>Theor/Exp</b>	<b>Corrosion</b>
10:30-10:50		Chair persons :	Chair persons :	Chair persons :	Chair persons :	Chair persons :	Chair persons :
10:50-11:10		A.Hubin, M. Itagaki	N. Pébère, S. Touzain	M. Rueda, M. del Valle	I. V. Aoki V. Egorkin	J.S. Fernandes, D. Harrington	S. Ceré H.G. de Melo
11:10-11:30							
11:30-12:00		Coffee break	Coffee break		Coffee break		Coffee break
12:00-12:30		<b>Energy</b>	<b>Energy</b>	<b>Sensors</b>	<b>Corrosion</b>	<b>Theor/Exp</b>	<b>Corrosion</b>
12:30-12:50		Chair persons :	Chair persons :	Chair persons :	Chair persons :	Chair persons :	Chair persons :
12:50-13:10		A. Hubin, M. Itagaki	D. Vladikova, H. Nara	M. Rueda, M. del Valle	I. V. Aoki V. Egorkin	J.S. Fernandes, D. Harrington	S. Ceré H.G. de Melo
13:10-13:30							
13:30-15:00		Lunch	Lunch		Lunch	Lunch	<b>Closure</b>
							Lunch
15:00-15:30		<b>Energy</b>	<b>Corrosion</b>	<b>Energy</b>	Tour	<b>Corrosion</b>	
15:30-15:50		Chair persons :	Chair persons :	Chair persons :		Chair persons :	
15:50-16:10		M.F. Montemor, N. Wagner	N. Pébère, S. Touzain	D. Vladikova, H. Nara		F. Deflorian B. Tribollet	
16:10-16:30							
16:30-17:10		coffee break & poster session	coffee break & poster session				
17:10-17:40	Registration	<b>Energy</b>				<b>Corrosion</b>	
17:40-18:00		Chair persons :				Chair persons :	
18:00-18:20		M.F. Montemor, N. Wagner	Boat tour (to be confirmed)			F. Deflorian B. Tribollet	
18:20-18:40							
19:00-21:00	EIS Course						
21:00-23:30	Welcome dinner	Dinner	Dinner		Dinner	Congress dinner	

# Program Lectures



	Sunday June 19	Monday June 20	Tuesday June 21		Wednesday June 22		Thursday June 23	Friday June 24
8:45-9:00		Welcome	Hall A					
9:00-10:00		PL1 (J. Bisquert)	PL2 (C. Brett)		PL3 (D.D. Macdonald)		PL4 (V. Vivier)	PL5 (M. Musiani)
		<b>Room A</b>	<b>Room A</b>	<b>Room B</b>	<b>Room A</b>	<b>Room B</b>	<b>Room A</b>	<b>Room A</b>
10:00-10:30		1330 (A. Hubin), <b>KN</b>	0090 (S. Touzain), <b>KN</b>	0470 (M. Rueda), <b>KN</b>	1150 (I. Aoki), <b>KN</b>	1470 (J.S. Fern.des), <b>KN</b>	0740 (J.J. G <sup>3</sup> -Jarreño), <b>KN</b>	0810 (S. Ceré), <b>KN</b>
10:30-10:50		0330 (J. Schefold)	0020 (H. Costenaro)	0190 (F. Hilario)	1340 (V. Shkirskiy)	0670 (J. Zhang)	0570 (F. La Mantia)	0380 (L. Hernández-Alv)
10:50-11:10		0460 (M. Castellino)	0060 (C. Vosgien)	0290 (V. Lazarescu)	1350 (P. Volovitch)	0980 (J. Agrisuelas)	0280 (J. Song)	1090 (M. Carradot)
11:10-11:30		0930 (A. Sorreno)	0170 (M. Aparicio)	1390 (T. Yokoshima)	0550 (A. Khanghol)	0210 (D. Koster)	0990 (A. Thompson)	0480 (C. Lilja)
11:30-12:00		Coffee break	Coffee break		Coffee break		Coffee break	Coffee break
12:00-12:30		0320 (M. Itagaki), <b>KN</b>	0540 (D. Vladikova), <b>KN</b>	0620 (M. del Valle), <b>KN</b>	0660 (V. Egorkin), <b>KN</b>	0630 (D. Harrington), <b>KN</b>	1410 (A.W. Hassel), <b>KN</b>	1080 (H. G. de Melo), <b>KN</b>
12:30-12:50		1100 (T.P. Heins)	1120 (A. Giuliano)	0350 (L.M. Bravo-An.)	0450 (T.T. Thai)	1190 (R. Antaño-Lóp.)	1050 (B. Ter-Ovaness.)	1060 (S. Lorenzi)
12:50-13:10		0830 (M. Heinrich)	0850 (L.Fdez-Macia)	0080 (T. Barrès)	0750 (K. Cysewska)	0120 (E. M. Ortega)	0790 (A. Baars)	1400 (A. Castela)
13:10-13:30		0720 (G. G. Lang)	0370 (V. Subotic)	1510 (Z. Stoynov)	0900 (A. Bastos)	0360 (T. Holm)	1070 (D.S. Ramírez-Rico)	1290 (I. Sánchez)
13:30-15:00		Lunch	Lunch		Lunch		Lunch	<b>Closure</b>
								Lunch
15:00-15:30		0010 (N. Wagner), <b>KN</b>	0420 (N. Pébère), <b>KN</b>	0730 (H. Nara), <b>KN</b>	Tour		0500 (F. Deflorian), <b>KN</b>	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <b>KN: Key Note Lecture</b> </div>
15:30-15:50		0310 (C.-A. Schiller)	0220 (A. Nicolay)	0940 (S. Marcellin)			0300 (B. Díaz)	
15:50-16:10		0960 (M. Kuttinger)	0390 (A. Renaud)	0430 (A. Sacco)			0440 (E. Huttunen-Saar.)	
16:10-16:30		0890 (A. Battistel)	0410 (A. T. Trinh)	0580 (H.S. Park)			0700 (Y. Hoshi)	
16:30-17:10		coffee break & poster session	coffee break & poster session				coffee break & poster session	
17:10-17:40		1280 (M.F. Montemor), <b>KN</b>			0600 (B. Tribollet), <b>KN</b>			
17:40-18:00	Registration	0760 (E.M. Tresso)	Boat tour (to be confirmed)		0140 (S. Capelo)			
18:00-18:20		0180 (K. Grigoras)			0100 (A. Doménech-C.)			
18:20-18:40		0970 (R. Gonçalves)			0110 (M. Benoît)			
19:00-21:00	EIS Course							
21:00-23:30	Welcome dinner	Dinner	Dinner		Dinner	Congress Dinner		

List of Poster Presentations (Posters should be available for discussion from Monday to Thursday)

<p><b>Energy</b></p> <p>013P (E. M. Ortega)                      040P (Y. Irokawa)                      051P (A. Giuliano)                      052P (A. Giuliano)                      059P (J.H. Jang)                      064P (H. Kato)                      065P (Y. Gamano)                      087P (M. Serrapede)                      088P (M. Serrapede)                      123P (N. Harms)                      136P (T.M. Silva)                      138P (H. Fukunaga)</p> <p><b>Sensors</b></p> <p>137P (C. Brett)</p> <p><b>Theory/Experimental techniques</b></p> <p>025P (A. Moya)                      034P (C.A. Schiller)                      101P (D.A. Harrington)                      111P (C. Álvarez-Casillas)                      113P (A. Battistel)                      114P (T. Holm)                      118P (A. Rodríguez)                      124P (V. Vivier)                      125P (M. Keddam)                      126P (M. Keddam)                      144P (G. Mészáros)</p>	<p><b>Corrosion and Protection</b></p> <p>004P (I. Preker)                      016P (M. Aparicio)                      023P (F.J. Rodríguez-Gómez)                      049P (D. Álvarez)                      056P (H. G. de Melo)                      068P (M. Spallek)                      069P (V. S. Egorkin)                      082P (M. Terada)                      084P (K. Raheem)                      092P (A.M. Santos)                      095P (C. Molena de Assis)                      100P (V. Figà)                      102P (A. Gómez-Sánchez)                      116P (I. V. Aoki)                      117P (E. Bravo)                      120P (K. M. Bezerra)                      122P (C.M. Abreu)                      127P (M.C. Pérez)                      130P (A.S. Castela)                      131P ((J.D. Santos)                      132P (R.G. Duarte)                      142P (C. Alvarado)                      143P (M. Sancy)                      145P (A. Maltseva)                      148P (N. Wagner)                      149P (B. Puga)                      150P (L. Vivar Mora)</p>
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Code	Title
PL1	Impedance spectroscopy of hybrid organic-inorganic solar cells
PL2	Electrochemical impedance and sensors: from characterization to biosensing
PL3	Photo-electrochemical Impedance Spectroscopy: Tickling the Belly of a Dragon with Monochromatic Light
PL4	Designing LEIS devices for monitoring electrochemical kinetics
PL5	Recent advances in the analysis of the impedance of anti-corrosion coatings
0010	Application of Electrochemical Impedance Spectroscopy for Characterization of Post Li-Ion Batteries
0020	EIS study of aluminum alloy AA2524 anodized in tartaric-sulfuric acid bath and protected with hybrid sol-gel coating
004P	Irradiation induced passivation of aluminum 1050 alloy
0060	Influence of pigment rate on degradation of anticorrosion polymer coatings under ageing factors
0080	Characterization of the porosity of silicon nitride thin layers by Electrochemical Impedance spectroscopy
0090	Water uptake in free-films and coatings: a possible explanation of the different values obtained by EIS and gravimetry
0100	Application of EIS for dating archaeological metals
0110	Influence of a passive layer on the kinetics of nitric acid reduction
0120	Harmonic analysis based method for perturbation amplitude optimization for EIS measurements
013P	Mechanistic equivalent circuit modelling of a commercial PEM fuel cell
0140	Screening of archaeological leaded bronze using EIS of microparticulate deposits of corrosion products
016P	Low-thickness organic-inorganic melting-gel coatings for protection of 304 Stainless Steel in NaCl solutions
0170	Corrosion protection of Magnesium Alloy AZ31B with melting gels coatings: Influence of coating processing and thickness
0180	Characterization and modelling of porous silicon supercapacitor electrodes
0190	Synthesis, Characterization and Electrochemical Impedance Spectroscopy (EIS) analysis of TiO2 nanotubes for biomedical applications
0210	Studies on Reaction Kinetics using Multi-Frequency Analysis based on Multisine Impedance Spectroscopy and Quasi-Cyclic Voltammetry
0220	Elaboration of multifunctional coatings based on an aqueous sol-gel nanofilled with nanoparticles
023P	Effect of Oxygen in the Tarnish of Silver in Ammonium Sulfide Solution
025P	Simulation and interpretation of electrochemical impedances of ion-exchange membrane systems
0280	Electrochemical Impedance at Overlimiting Current through Nanochannels
0290	Combined EIS and XPS study of the distinct behavior of L-cysteine-thiolate formed at p- and n-GaAs(100) electrodes in SDS solution
0300	Corrosion assessment of a steel-primer-adhesive system by impedance spectroscopy
0310	How to Speed Up EIS Series Measurements of Battery Stacks during Charging and Discharging while Avoiding Dramatically Loss of Accuracy
0320	In-situ EIS to Investigate Electrode/Electrolyte Interfaces in Lithium-ion Rechargeable Batteries
0330	Up to 20,000 Hours Steam Electrolysis with Solid Oxide Cells Followed with Impedance Spectroscopy
034P	A Novel Multi Sine Excitation Procedure for Impedance Spectroscopy Supports Automatic Drift Correction and Online Error Determination
0350	Adsorption of calf-thymus DNA molecules onto platinum electrodes through Modulation of the Interfacial Capacitance
0360	Dynamic Electrochemical Impedance Spectroscopy of Platinum at High Temperatures
0370	Detailed electrochemical characterization of industrially-sized SOFCs operated under various working conditions
0380	EIS in reabsorbable Mg-based materials modified with phytic acid
0390	Benzoxazine resin coated on anodized aluminium alloys: electrochemical properties of a Cr-free corrosion protection system

Code	Title
040P	Electrochemical Impedance Spectroscopy Study of Hydrogen Interaction with Nitride-Based Semiconductor Diodes
0410	Incorporation of 8-hydroxyquinoline-modified clay in a solvent-free epoxy coating for corrosion protection of carbon steel
0420	A local electrochemical impedance study of self-healing properties of waterborne coatings on 2024 aluminium alloy
0430	Electrochemical analysis of microbial fuel cells based on enriched biofilm communities from freshwater sediment
0440	EIS study on aerobic corrosion of copper in ground water: influence of micro-organisms
0450	Compatibility between sol-gel pretreatments and epoxy primers on aluminum alloys 2024-T3: influence of the pretreatment porosity
0460	Electrochemical and physico-chemical characterisation of novel catalysts for the oxygen reduction reaction in fuel cells
0470	Impedance Study of Adenine Adsorption on Au(111) electrodes as a function of pH
0480	Role of surface cuprous species in the interaction of copper with deoxygenated aqueous solutions
049P	Effect of the presence of Zn <sup>2+</sup> in the corrosion behaviour of a commercial tinplate: an electrochemical impedance spectroscopy study.
0500	Electrochemical characterization of steel electrodes in cerium oxide nanoparticles colloidal solutions
051P	EIS measurements on Pr <sub>1-x</sub> Sr <sub>x</sub> Fe <sub>1-y</sub> Ni <sub>y</sub> O <sub>3-?</sub> perovskite materials as SOFC cathode: methodology and results
052P	Electrochemical and microstructural investigation on LSCF-BSCF composite cathode for Solid Oxide Fuel Cells devices
0540	New Approach for Impedance Studies of Ni-YSZ Anode Redox Behaviour
0550	Odd Random Phase Multisine Electrochemical Impedance Spectroscopy for the Characterization of water uptake in plasma coating on Printed Circuit Boards
056P	Effect of thiosulfate in the electrochemical behavior of Alloy 800 in chloride medium
0570	Dynamic multi-frequency analysis: A theoretical study of a redox couple in solution
0580	Electrochemical Impedance Analysis on the Effect of Fabrication Conditions for the Membrane Electrode Assemblies of High-Temperature Polymer Electrolyte Membrane Fuel Cells
059P	A Study of Molten Carbonate Fuel Cell Performance in Simulated Marine Environments with Mechanical Vibrations
0600	Characterization of Oxide Layers by EIS
0620	Electrochemical impedance biosensors employing DNA and nanomaterials: genosensing and aptasensing
0630	Kramers-Kronig Comments
064P	The Origin of Hysteresis of Charge Transfer Resistance of Lithium Ion Rechargeable Batteries during Charge-Discharge Cycle by In-situ EIS
065P	Determination of Warburg impedance of lithium-ion Rechargeable batteries from time domain data by Wavelet Transformation
0660	EIS-study of the protective composite hydrophobic coating/solution interface
0670	Impedance of platinum with a refined metal charging relation
068P	Alternative to Chromate Primers - Performance of different Basecoats on Cr-free pretreated AlZnMgCu1.5 assessed by EIS
069P	Polymer- and inhibitor-containing composite coatings on the Mg alloys: electrochemical and protective properties
0700	Electrochemical Impedance Study on Dezincification Corrosion of Brass
0720	Analysis of impedance spectra of electrochemically deposited PEDOT films recorded before and after overoxidation
0730	Impedance Analysis on Particle Size Distribution of LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> cathode in Lithium-ion Battery
0740	Electrodissolution of Cu studied by EIS and ac-electrogravimetry
0750	Electrochemical study of the degradation of optimized PPY coatings on iron used for biodegradable cardiovascular stents
0760	MoX <sub>2</sub> -decorated graphene aerogels for high performance electrodes in supercapacitors
0790	Equivalent circuit fitting with nonlinear elements
0810	Magnesium alloys as temporary implants: electrochemical study in Hanks solution
082P	Effect of hydrothermal treatments with Ce (III) ions on the corrosion resistance of AA2524-T3 alloy anodized in TSA and protected with hybrid sol-gel coating

Code	Title
083O	Parameter sensitivity analysis of EIS in full cell batteries based on electrochemical modeling
084P	Investigation of Cyanoacrylate Adhesive Bond Curing and Durability using Electrochemical Impedance Spectroscopy
085O	Experimental and finite element modeling of electrochemical impedance for an improved understanding of ion conduction in solid oxides
087P	Step Potential Electrochemical Spectroscopy applied to hybrid electrodes for supercapacitors
088P	Vitamin C makes "healthier" energy storage devices
089O	Microelectrode study of the redox mechanism of VV/VIV
090O	Can the forming limits of coil coatings be dictated by the paint mechanical properties?
092P	Evaluation of powder and alcoholic extracts of palm kernel cake ( <i>Elaeis guineensis</i> Jacq.) as corrosion inhibitor for carbon steel in acid media
093O	Concentration frequency response analysis: a new method for the study of the PEM fuel cell dynamics
094O	Coupling between multi-frequency Mott-Schottky and Power-Law approaches in semiconductive properties of passive films
095P	Local Electrochemical Techniques for Evaluation of Friction Stir Welded AA 2024-T3
096O	EIS application in redox flow battery investigation: Cell and half cell performance of a hydrogen-bromine redox flow battery
097O	Improvement of specific capacitance and durability of organic supercapacitor based on POMA
098O	Anion recognition in mixed aqueous solutions by ac-electrogravimetry
099O	Finite Element Modelling to probe the influence of porosity on Impedance Spectra of YSZ-based ceramics
100P	Steels corrosion inhibition by eco-friendly natural extracts: electrochemical and surface investigations
101P	The Rate-Determining Step in EIS
102P	EIS characterization of oxides on titanium compared with surface analysis
105O	Electrochemical investigation of carbon steel/phosphate-phosphonium ionic liquid interface
106O	EIS and Voltammetric study of passive film formation on steel bar embedded in Portland cement and innovative cementitious binders
107O	Study of the electro-dissolution of a gold electrode in acidic media by EIS and its interpretation by reaction mechanism approach
108O	Effect of welding parameters on the corrosion behavior of friction stir welded AA2024-T3 butt joints
109O	Electrochemical Impedance Spectroscopy investigation of galvanic coupling occurrence on gold coated 316L in oxygenated and hydrogenated acidic solutions
110O	Clarification of the mechanism of the formation of surface films on LiMn2O4 cathodes via a kinetic DRT-assisted approach
111P	Local Electrochemical Impedance Spectroscopy in capacitive systems: The surface disorder effect on the adsorption processes
112O	Kinetic mechanism, performances and durability of infiltrated cathodes for IT-SOFC application
113P	Study of gas evolution on microelectrode through dynamic impedance spectroscopy
114P	Channel Electrodes give Spiral Downstream Impedances
115O	Design of a self-healing coating and its electrochemical evaluation by EIS and SVET techniques
116P	Study of the inhibitory properties of quaternary ammonium imidazoline and its encapsulation in halloysite
117P	Hybrid coating based on silanes and methylmetacrylate for carbon steel protection and quinones as hybrid solution anti-gelling agent
118P	Biodiesel: Electrochemical characterization by linear voltammetry and electrochemical impedance spectroscopy
119O	Validation of impedance data through non-Kramers-Kronig relationships applicable for any complex variable
120P	Synthesis of Conductive Hybrid Films for the Pre-treatment of Aluminum Alloys
122P	Electrochemical Impedance Spectroscopy Study of Friction Stir Processed AM60 Magnesium Alloy
123P	Application of Localized Electrochemical Impedance Spectroscopy to Lithium Ion Electrodes
124P	Influence of natural convection on the EIS response of microband electrodes

Code	Title
125P	Electrochemical Impedance Spectroscopy and AC-modulation of the interfacial capacitance for investigating Ionic Liquid / Electrode Interface
126P	Impedance spectroscopy in triboelectrochemistry: example of stainless steel in acidic medium
127P	Long term corrosion behaviour of steel rebars in concrete with red mud additions
128O	Electrochemical investigation of composite electrodes made of electrochemically reduced graphene oxide and Ni and Co hydroxides
129O	Combined study of moisture and microstructure in concrete using Electrochemical Impedance Spectroscopy
130P	EIS study on the absorption and evaporation processes of porous stones
131P	Evaluation of the corrosion properties of Nb-Ti microalloyed steels with low Mn and different mechanical properties in NACE TM 0284 test solution B.
132P	Electrochemical Study on the Stability of the Nickel Passivation layer Influenced by Halide Anions
133O	Odd Random Phase Electrochemical Impedance Spectroscopy (ORP-EIS) as a Tool to Study Aging Phenomena in Lithium Ion Batteries
134O	Improvement of spatial resolution of LEIM applied to monitor the delamination kinetics
135O	Organic coating delamination from Zn in 10 mM NaHCO3 solutions: LEIS study
136P	Electrochemical Characterization of Ni0.7Zn0.3O nanowires for energy storage applications
137P	Impedimetric bienzymatic biosensor for L-lactate
138P	Impedance Analysis of Metal-free Carbon Cathode Using Silk-derived Activated Carbon for Polymer Electrolyte Fuel Cell
139O	Square-current Electrochemical Impedance Spectroscopy (SC-EIS) for analysis of kW-class Lithium Ion Battery Systems
140O	Assessment of the influence of Concrete Modification in the Water Uptake/Evaporation Kinetics by Electrochemical Impedance Spectroscopy
141O	Impedance under stationary high field dissolution conditions of valve metal oxides linked to the direct analytical determination via ICP-MS
142P	Corrosion in aluminum alloy AA2024-T3 by microorganisms found on the corrosion product of an aircraft operating in Antarctica
143P	Electrochemical behavior of carbon steel pipelines exposed to saline media
144P	Characterization of CNT layers by EIS of multisine perturbation
145P	Mechanisms of Zn(Al,Mg) alloy dissolution studied by real time measurement of dissolution rates under low frequency AC perturbations
147O	EIS Studies in Very Low Conductivity Media
148P	Temperature-Dependent Growth of the Solid Electrolyte Interphase in Lithium-Ion Batteries
149P	Combined weight loss and electrochemical impedance spectroscopy techniques for monitoring corrosion rate of high Si-containing austenitic stainless steels in nitric acid.
150P	Impact of silica nanoparticles on polysiloxane-based coating for corrosion protection
151O	Rotating Fourier Transform – engine for Non-stationary Impedance Spectroscopy