July 21st

9:30 - 10:20 **Plenary Lecture: Randa Abdel-KARIM -** *The Corrosion Resistance and Hydrophobic Properties of Electrodeposited Ni-Cu Foams Used As Electrodes for Supercapacitors*

10:20 - 11:10 **Plenary Lecture: Geraldo Frankel -** *A New Paradigm for Designing Corrosion Resistant Materials*

11:10 - 11:20 **Break for changing**

TECHNICAL PROGRAMME - SUBJECT TO CHANGE

	Room BRAZIL	Room EUROPE	Room NORTH AMERICA	Room SOUTH AMERICA	Room ASIA	Room AFRICA
	Oil & Gas	**Archaeological and Historical Artefacts**	**Organic Coatings**	**Metallic & Inorganic Coatings**	**Civil Engineering Structures**	**Atmospheric Corrosion**
11:20 - 11:50		**Keynote:** Tailored strategies against corrosion of metallic Cultural Heritage **Emma Angelini**	**Keynote:** Recent advances in development and characterization of corrosion inhibitor-based and self-healing organic coatings **Arjan Mol**	**Keynote:** Insights into the Fabrication of Self-Ordered Titanium Dioxide Nanotubes Layers and Electrodeposition of 1D Zinc Nanostructures using Deep Eutectic Solvents **Mário Ferreira**	**Keynote:** Phosphates as inhibitors of steel corrosion in concrete **José Maria Bastidas**	
11:50 - 12:10	ICC 2020 - 109: Failure of 304 Austenitic Stainless Steel Pipes. **Faraj Hammad Omer**	ICC 2020 - 250: Electrochemical analysis of the protective capability of a SiO2 nanolayer over a copper sulphate patina as an alternative of conservation of historical metallic heritage. **Tania de J. Jiménez, R. Galván-Martínez, Gerardo Fajardo, R. Orozco-Cruz**	ICC 2020 - 103: Evaluation of the anticorrosive performance of an alkyd coating added with PUF microcapsules containing tung oil. **Alexandre Gonçalves Cordeiro Neto**	ICC 2020 - 126: Nickel removal from galvanic effluent by induced codeposition to form Ni-W alloy. **Mariana Borges Porto**	ICC 2020 - 128: Corrosion resistance of reinforcing steel in geopolymer concrete in the presence of chlorides and/or carbonation. **Jürgen Mietz, Petr Hlaváček, Gregor J. G. Gluth, Gino Ebell**	ICC 2020 - 546: CORROSION CHARACTERISTICS OF THE STEEL IN ATMOSPHERE OF VIETNAM USING MASS LOSS METHOD AND ELECTRICAL RESISTANT SENSOR. **Le Thi Hong Lien, Masataka Omoda, Hoang Lam Hong, Shinji Ootsuka, Daisuke Mizuno, Nguyen Thi Thanh Nga**
12:10 - 12:30	ICC 2020 - 119: Mechanism and key factors of stress corrosion cracking of pipeline steels in external environments. **Zhiyong Liu**	ICC 2020 - 307: Challenges in the conservation and monitoring of exposed reinforced concrete structures of Architectural Heritage buildings. **Adriana de Araujo, Tatiana Rogina da Silva Simão, Claudia de Andrade Oliveira**	ICC 2020 - 120: Innovative routes for the fabrication of multifunctional epoxy coatings with improved barrier, pH responsive self-healing and antimicrobial functionalities. **Jeferson L. Oliveira, Bluma Guenther Soares, Ruan Roberto Henriques**	ICC 2020 - 133: Brittle coatings cracking induced damage of ductile substrates. **Tao Guo, Lijie Qiao, Xiaolu Pang**	ICC 2020 - 153: Effect of sulphate on the corrosion of steel bars in reinforced concrete. **Noelia R. Klein, Enzo D. Gómez, Gustavo S. Duffó, Silvia B. Farina**	ICC 2020 - 475: Corrosion modeling of zinc in chloride simulated atmospheres. **Maria Planells Valencia, Romain Soulas, Gilles Meresse, Eric De Vito**
12:30 - 12:50	ICC 2020 - 140: Corrosion and Protection of Pipe in Carbon Capture and Storage Operation and Oil & Gas Industry. **Jingli Luo**	ICC 2020 - 340: Infrared spectroscopic analysis of 24 years old patina formed on weathering steel monument in São Paulo. **Sandra de Jesus B. Travassos, Marcelo M. Rodigolo, Isolda Costa, Hercilio G. de Melo**	ICC 2020 - 135: Uncertainty Estimation in Paint Quality Control to Improve Paint Standards of the Brazilian Electrical Sector. **Alberto P. Ordine, Paulo R. G. Couto, Cristina C. Amorim, Jailton C. Damasceno**	ICC 2020 - 146: In-situ synthesis of a corrosion-resistant AlZO3-TiB2 composite coating on steel surface. **Zhimeng Guo**	ICC 2020 - 154: Corrosion sensors for reinforced concrete structures: feasibility of using galvanic couples. **Jhon E. Torres-Ramírez, Gustavo S. Duffó, Silvia B. Farina**	ICC 2020 - 323: Influence of contaminants in the degradation of solar absorber coatings. **T.C. Diamantino, R. Gonçalves, S. Pascoa, A. Veiga, L. Nascimento, C. Ferreira, T. Chambino and M.J. Carvalho**
12:50 - 14:20	**Lunchtime & Exhibition**					
	Oil & Gas	**Electrochemistry**	**Organic Coatings**	**Metallic & Inorganic Coatings**	**Civil Engineering Structures**	**Atmospheric Corrosion**
14:20 - 14:40	ICC 2020 - 156: Study of a quaternary imidazoline-based corrosion inhibitor for oil and gas industry under high-temperature and pressure conditions. **Paulo E. Silva Jr., Idalina V. Aoki**	ICC 2020 - 233: Suppression effect of ultrasound on pitting corrosion of SUS304 stainless steel in various NaCl solutions. **Rongguang Wang**	ICC 2020 - 137: The effect of wet abrasive blasting parameters on the anticorrosive performance of a coating system used in buried structures. **Alberto Ordine**	ICC 2020 - 148: Study on Protective Properties of Organic-Inorganic Hybrid Coatings. **GAO JIN**	ICC 2020 - 174: Corrosion behaviour of carbon steel embedded in carbonated mortar and exposed to different environmental conditions. **Juan Carricondo, Enzo Gomez, Silvia Farina, Gustavo Duffó**	ICC 2020 - 374: Corrosion prediction of steel in atmospheric environment by applying data science. **Masataka Omoda, Kazuhiro Nakatsuji, Daisuke Mizuno**
14:40 - 15:00	ICC 2020 - 221: Corrosion assessment by electrochemical techniques in oil production and processing systems. **A. Pellicano, J.P. Rossi, S.M. Cerè**	ICC 2020 - 256: Application of Bipolar Electrochemistry for Corrosion Research. **Dirk L Engelberg, Yiqi Zhou**	ICC 2020 - 141: Selection of vegetable drying oils as active agents to produce a self-healing effect in anticorrosive coatings. **Felipe G. Nunes, Alberto P. Ordine, Cristina C. Amorim, Elber V. Bendinelli, Marcos M. de Sá, Idalina V. Aoki**	ICC 2020 - 157: 'Investigation of oxidation resistance of TiAlSiN coating and its interdiffusion with 7-TiAl based alloy at 900°C. **Li XIN**	ICC 2020 - 244: Corrosion behavior of Dual-Coated (Zinc/Epoxy) Rebars in Pore-Simulated Solution with and without Chloride. **Mayara Stecanella Pacheco, Juliana Lopes Cardoso, Zehbour Panossian**	ICC 2020 - 423: Enviromental Condition Monitoring for Pulp & Paper Industry Application ? Study Case. **Eduardo de Oliveira**
15:00 - 15:20	ICC 2020 - 238: Electrochemical investigation of the electrolyte renewal effect on API X65 corrosion in sweet and sour environments. **B. Serenario, Maria E. D. Santos, Maria E. D. Serenario, Rhuan C. Souza, Jefferson R. Oliveira, Gustavo L. Vaz, Alysson H. S. Bueno**	ICC 2020 - 275: Characterization of Passive/Oxide Films on Metals at Nanoscale. **Bowei Zhanng**	ICC 2020 - 149: Self-healing properties and anticorrosive performance of a shape-memory epoxy coating. **Fernando C. Meiges, Idalina V. Aoki**	ICC 2020 - 219: Challenges towards zinc rich coatings and new approaches. **T L. Sudesh Lakshitha Wijesinghe**	ICC 2020 - 277: "Interpretation of potential measurements of three embedded rebars in prismatic concrete test specimen. **Juliana L. Cardoso, Adriana de Araujo, José L. S. Ribeiro.**	ICC 2020 - 440: Effect of process cleanliness on the corrosion reliability of electronics. **Rajan Ambat, Kamila Piotrowska**
15:20 - 15:40	ICC 2020 - 239: The electrolyte renewal effect on corrosion and scales formation of API X65 carbon steel immersed in condensed water environments. **Bernardo A. F. Santos, Maria E. D. Serenario, Rhuan C. Souza, Jefferson R. Oliveira, Gustavo L. Vaz, Alysson H. S. Bueno**	ICC 2020 - 278: Hydrogen evolution reaction evaluation in aqueous solutions containing H2S/CO2 at different pressures. **Pedro R. P. Viana, Flávio V. V. de Souza, Oswaldo E. Barcia, Oscar R. Mattos**	ICC 2020 - 180: Effect of the hydrolysis time on the corrosion resistance of AA2024-T3 anodized in TSA and sealed with hybrid coatings. **Oscar M. P. Ramirez, Marie-Georges Olivier, Hercilio G. de Melo**	ICC 2020 - 243: Auto repair with niobium pentoxide in zinc coating failures. **Luiz Roberto Martins de Miranda, Ivan de Carvalho Cairrão, André Rocha Pimenta, Antonio Cesar Consuli**	ICC 2020 - 301: Evaluation of galvanic anode for patch repair of concrete structures deteriorated by chloride ion-induced corrosion. **Adriana de Araujo, José L. S. Ribeiro, Juliana L. Cardoso, Thales G. Rosa, Marcos V. S. Braga, Zehbour Panossian**	
15:40 - 16:10	**Coffee Break & Exhibition**					
16:10 - 16:30	ICC 2020 - 248: Evaluation of Cr, Mo, Ti and Cu on the pitting corrosion resistance of supermartensitic stainless steels at different temperatures. **Lucas Nascimento Santana Prachedes**	ICC 2020 - 288: Local Electrochemical Corrosion Kinetics of Pure Iron under a Saline Droplet. **Xiao Tang, Mark E. Orazem**	ITC02 NANOTUBES WITH ORGANIC SILANE FOR HIGH ANTICORROSION OF EPOXY COATING. **HongPhan Duong**	ICC 2020 - 272: Characterization of Zr Conversion Coating Over Anodized and Bare 7075-T6 Aluminum Alloy. **Jéssica Salles Pinheiro, Claudia Trindade Oliveira, Gabriel Regio, Nicolle Goi, Jane Zoppas Ferreira**	ICC 2020 - 320: Microstructural analysis of 70-year-old steel bars in a natural corrosion process: case study of armor belonging to old foundations at ITA. **Francieli Schmoeller, Maryangela Geimba de Lima, Silvelene Alessandra Silva**	
16:30 - 16:50	ICC 2020 - 269: THE INFLUENCE OF ROTATING CAGE GEOMETRY AND BAFFLES ON THE WALL SHEAR STRESS EQUATION IN SWEET/SOUR CORROSION. **Rhuan C. Souza, Bernardo Coelho, Jefferson R. Oliveira, Gustavo L. Vaz, André L. C. Bonfin, Guillermo Vilalta-Alonso, Alysson H. S. Bueno**	ICC 2020 - 551: Impedance monitoring of the corrosion product formed onto carbon steel exposed to gaseous CO2 in sea water solution at 1 bar. **Fonseca, Derek, Santos, Eduardo J. Tamborim, S.M.M., Tagliari, Mariana R., Favaro, Marcelo, Tiago Falcade**	ICC 2020 - 217: Evaluation of graphene?s influence over an anticorrosive polymer coating applied on carbon steel. **MARIO NOGUERA BARBOSA JUNIOR**	ICC 2020 - 318: Monitoring a modified DLC film's behavior by electrochemical impedance spectroscopy. **Augusto Versteg, Lázaro Aleixo, Vladimir T. Airoldi, Silvia Tamborim**	ICC 2020 - 402: Technical and economic feasibility to use alloyed steel bars and hot-dip zinc coated bars in reinforced concrete structures with carbonation-induced corrosion. **Martins, Mauricio S., Panossian, Zehbour**	
16:50 - 17:10	ICC 2020 - 282: The relevance of experimental procedure on SCC investigation of high strength flexible pipe wires. **Merlin C. E. Bandeira, Rogciano M. Moreira, Pamela S. Silveira, Fabricio P. Santos, Oscar Rosa Mattos**	ICC 2020 - 483: Contributions of scanning electrochemical microscopy to the characterization of metal-inhibitor and metal-coating systems for corrosion protection. **Ricardo M. Souto, Javier Izquierdo, Juan J. Santana**	ICC 2020 - 240: Effect of high temperature and acid environment on epoxy-Nb2O5 anticorrosive resistance. **Maria E. D. Serenario, Bernardo A. F. Santos**	ICC 2020 - 370: The Influence of Zn Concentration in the Electroplating Bath on Current Efficiency, Coating Morphology and Electrochemical Impedance Spectroscopy. **Gabriel A. C. Gonçalves, Pedro M. S. Campos, Tácia C. Veloso, Vera R. Capelossi**	ICC 2020 - 434: Corrosion barrier properties of PMMA-silica coatings for protection of reinforcing steel. **Mayara Caria Uvida**	**ICC METING (Part 2)**
17:10 - 17:30	ICC 2020 - 285: Influence of thermal cycles on the corrosion of steels under insulation. **Mingzhang Yang, Hani Henein, Jing Liu**	ICC 2020 - 563:The effect of cathodic polarization on the SRB corrosion on X65 steel in seawater. **Meiying LV, Xia Li, Min DU.**	ICC 2020 - 274: Anti-corrosion properties of an epoxy coating nano filled with reduced graphene oxide. **Elisa Kassab, Mariana N. Silva, Jeferson L. Oliveira, Joaquim Quinteia, I.S.Bott**	ICC 2020 - 185: Influence of hot-stamping process on the corrosion initiation and properties of corrosion products at the surface of 22MnB5 steel metallic coated with hot-dip Al-Si. **Camila Pucci Couto, Larissa Abbade, Maurilio P. Gomes, Raynier I. Revilla, Isolda Costa, Zehbour Panossian, Iris De Graeve, Herman Terryn, Jesualdo L. Rossi**	ICC 2020 - 531: Corrosion control of reinforced concrete by acrylic resin injection. **Diogo Nicoletti, Juliana L. Cardoso, Ércio Thomaz**	
17:30 - 17:50	ICC 2020 - 293: Influence of tempering heat treatment on corrosion susceptibility of supermartensitic stainless steels 13 Cr. **Pâmela T. L. Santos, Arthur F. Sene, Carlos E. V. Masalla Gustavo L. Vaz, Jefferson R. Oliveira, Alysson H. S. Bueno**		ICC 2020 - 290: A smart protocol to protect AA2024 against corrosion. **M.Páez, L.Muñoz, M.Sancy, L.Tamayo, M.Azocar, M.Urzua**	ICC 2020 - 540: Evaluation of the behavior of the hot dip galvanizing coating in a cellulose plant. **Christian Sánchez V., Oscar Bustos C.**		
17:50 - 19:00	**Exhibition**					