

Technical Program

MONDAY, November 11

Room 421	
9:30am - 4:30pm	<p>Pre-conference Workshop Effective and Economical Internal Corrosion Control: What works and what requires additional efforts, <i>Presented by Sankara Papavinasam, President of CorrMagnet Consulting Inc.</i></p> <p>Dr. Papavinasam is currently the president of CorrMagnet Consulting Inc. He has led several joint industry projects as well as individual client projects, with more than 50 companies, developing solutions and insights to control internal corrosion, external corrosion, and microbiologically influenced corrosion of oil and gas production facilities, and transmission pipelines. He is currently consulting with oil and gas companies in Canada, India, Peru, Saudi Arabia, and USA.</p>

TUESDAY, November 12

Room 501	
9:30 - 10:05 am	Opening Ceremony
10:05 - 10:35 am	Plenary Lecture of <i>Prof. Nishikata, President of Japan Society of Corrosion Engineering</i>
10:35 - 11:10 am	Plenary Lecture: IMPACT Plus, <i>Presented by Elaine Bowman, NACE International</i> IMPACT PLUS Portal is an integrated platform for corrosion management professionals who desire to move their companies to higher levels of corrosion management performance.
11:15 - 11:45 am	Opening of the Exhibition (Room 502)
11:45 - 1310	Lunch Break (Room 503)

Room 411-412: Cost of Corrosion Session	
1:50 - 2:10 pm	Corrosion Cost Survey in Japan 2015, <i>Presented by Tadashi Shinohara, National Institute of Materials Science</i>
2:10 - 2:30 pm	Thailand Corrosion Cost Survey in 2011 based on the Hoar Method, <i>Presented by Wanida Pongsaksawad, National Metal and Materials Technology Center</i>
2:30 - 3:00 pm	Afternoon Break
3:00 - 3:20 pm	Introduction of Corrosion Cost Research in China, <i>Presented by Meng Zheng, China Academy of Sciences</i>

Room 413: Special Seminar	
3:30 - 5:30 pm	Preparing for the Future – Next Generation of CIP Certification, <i>Presented by Keenan Loubser, NACE International</i>

Room 414-415: Oil & Gas Session	
1:10 - 1:50 pm	<i>Presentation by Masakatsu Ueda</i>
1:50 - 2:10 pm	Applicable Domain Map for Martensite-Based Stainless Steel OCTG Materials Through High-Temperature Load-Applied Autoclave Test in Sour Environment, <i>Presented by Yasuhide Ishiguro, JFE Steel</i>
2:10 - 2:30 pm	Sour Environmental Severity based on Equal Hydrogen Content Map, <i>Presented by Taishi Fujishiro, Nippon Steel & Sumitomo Metal Corporation</i>
2:30 - 3:00 pm	Afternoon Break
3:00 - 3:20 pm	Well Integrity – Experiences in Corrosion Assessment and Its Control, <i>Presented by Carlos Palacios, CIMA-TQ, LLC</i>

3:20 - 3:40 pm	Corrosion Resistance of 17Cr SS for Domestic HP/HT Natural Gas Field, <i>Presented by Toshiyuki Sunaba, Inpex Corporation</i>
3:40 - 4:00 pm	Characterization of Passive film on Stainless Steel in Hydrogen Sulfide Environment, <i>Presented by Kazuhiko Baba, JFE Steel Corporation</i>
4:00 - 4:20 pm	Effect of H ₂ S on Corrosion Behaviors of Stainless Steels Under Environments Containing Organic Acid, <i>Presented by Yonezawa Takumi, Yokohama National University</i>

Room 416-417: Corrosion in Combustion Gas Environments Session

1:10 - 1:30 pm	Study of Metal Dusting Observed in Coal Gasification Plant, <i>Presented by Yuji Fukuda, Mitsubishi Hitachi Power Systems Ltd.</i>
1:30 - 1:50 pm	Self-healing Ceramic Composites as a New Environmental Barrier Coating System, <i>Presented by Makoto Nanko, Nagaoka University of Technology</i>
1:50 - 2:10 pm	Water Wall Tubes Failure Under Localized Attack in High-Pressure Boiler, <i>Presented by Ali Al-Sahari, Saline Water Conversion Corporation</i>
2:10 - 2:30 pm	Effectiveness of SiO ₂ /TiO ₂ /Al ₂ O ₃ -based/TiO ₂ Coating for Suppressing Sulfidation and Circumferential Cracking in Boiler Tubes of Thermal Power Plants, <i>Presented by Makoto Kawase, Central Research Institute of Electric Power Industry</i>
2:30 - 3:00 pm	Afternoon Break
3:00 - 3:40 pm	Trend of Technology of Corrosion Evaluation in WTE and Biomass Plant Construction and Operation in Terms of High Efficiency in EU, <i>Presented by Wolfgang Spiegel, CheMin GmbH</i>
3:20 - 3:40 pm	Surface Treatment Durability Test of Water Tube for Municipal Refuse Incinerator Boiler, <i>Presented by Takao Kitagawa, JFE Engineering Corporation</i>
3:40 - 4:00 pm	Development of A New Ni-Based Protective Coating Against Erosion-Corrosion in Fluidized Bed Biomass Boiler Plants, <i>Presented by Suzue Yoneda, Hokkaido Research Organization</i>
4:00 - 4:20 pm	Furnace Tube High Carbon 35Cr-45Ni-1Nb Rupture at Olefins Plant, <i>Presented by Mohd Farid Mohamed, PETRONAS</i>

Room 418: Infrastructure Session

1:10 - 1:30 pm	Applicability of a Surface Treatment for Promoting Protective Rust Formation to A Weathering Steel Bridge in the Coastal Area, <i>Presented by Junpei Arakawa, Yokogawa Bridge Holdings Corp.</i>
1:30 - 1:50 pm	Corrosion Condition Monitoring and Exposure Tests and for Structural Member of Truss Type Steel Bridges, <i>Presented by Seok Hyeon Jeon, Gyeongnam National University of Science & Technology</i>
1:50 - 2:10 pm	Corrosion Deteriorated Condition of Steel Floodgate from Experimental Monitoring and Exposure Corrosion Test, <i>Presented by Min Ha, Gyeongnam National University</i>
2:10 - 2:30 pm	Electrochemical Properties of Hot-dip Al and Al-45Zn Coating, <i>Presented by Yang Gao, Kyushu University</i>
2:30 - 3:00 pm	Afternoon Break
3:00 - 3:20 pm	Evaluation of Electrochemical Properties of Laser-Cleaned Carbon Steel Plate, <i>Presented by Shusen Zhuang, Kyushu University</i>
3:20 - 3:40 pm	Study on Durability of the RC Structure Using Galvanized Steel Bars in Chloride Induced Deterioration Environment, <i>Presented by Hiromi Yamazumi, Kagoshima University</i>
3:40 - 4:00 pm	Electrochemical Evaluation on Corrosion Rate Of Common Steel Near the Air-Liquid Interface Using an Immersion Sensor, <i>Presented by Muye Yang, Kyushu University</i>
4:00 - 4:20 pm	Experimental and Analytical Study on the Measurement Factors of the Four Probe AC Impedance Method, <i>Presented by Toshinori Kanemitsu, Central Research Institute of Electric Power Industry</i>
4:20 - 4:40 pm	Evaluation of Anticorrosion Effect of Cathodic Protection with Intermittent Current Supply to Rebar in Mortar, <i>Presented by Makoto Yamamoto, Sumitomo Osaka Cement Co.,Ltd.</i>

Room 419: Cathodic Protection	
1:10 - 2:10 pm	Cathodic Protection Criteria: The Mechanism of Cathodic Protection and Its Implications on the Assessment of Effectiveness of CP, <i>Presented by Markus Buehler, Swiss Society for Corrosion Protection</i>
2:10 - 2:30 pm	Discussion on Applicability of Cathodic Protection Effectiveness Standard under Dynamic DC Interference, <i>Presented by Hongzhi Wang, Pipeline Shenyang Technology Sub-Co</i>
2:30 - 3:00 pm	Afternoon Break
3:00 - 3:20 pm	Influence of Instantaneous Potential Fluctuations on Corrosion Protection Conditions of Buried Steel Pipelines under Cathodic Protection, <i>Presented by Tomoyuki Nagai, Osaka Gas Co., Ltd.</i>
3:20 - 3:40 pm	Evaluation of the Interference Effect on an Underground Metallic Utility in the Electric Field Formed by an Anode and Cathode in Close Proximity, <i>Presented by Taro Kono, Tokyo Gas Co., Ltd.</i>
3:40 - 4:00 pm	Ethylene Grid Pipeline (Cathodic Protection Rectification & FFS Evaluation), <i>Presented by Mohd Farid Mohamed, PETRONAS</i>
4:00 - 4:20 pm	Extension of Cathodic Protection Effect to Steel Piles at Tidal and Splash Zone par II, <i>Presented by Mohamed Khalil, Raslanuf</i>
4:20 - 4:40 pm	Estimation of Self Position of Measurement Point Underwater and Output Current from Sacrificial Anode Using Particle Filter, <i>Presented by Tatsuya Saito, The Nippon Corrosion Engineering Co., Ltd.</i>

WEDNESDAY, November 13

Room 411-412: Nuclear Corrosion Session	
9:30 - 10:10 am	Role of Hydrogen in Oxidation and SCC in Water - Mechanics and Mechanisms, <i>Presented by Tetsuo Shoji, Tohoku University</i>
10:10 - 10:30 am	An Overview of Corrosion Mitigation Activities Performed After the Fukushima Daiichi Accident, <i>Presented by Yuichi Fukawa, Tokyo Electric Power Company Holdings, Inc.</i>
10:30 - 10:50 am	Morning Break
10:50 - 11:10 am	Corrosion Progress Prediction for Primary Container Vessels in Fukushima Daiichi NPS, <i>Presented by Tetsuji Kaneko, Toshiba Energy Systems & Solutions Corporation</i>
11:10 - 11:30 am	Corrosion Behavior of Carbon Steel in Pentaborate Solutions Containing NaCl, <i>Presented by Eiji Tada, Tokyo Institute of Technology</i>
11:30 - 11:50 am	Electrochemical Behavior for the PCV Material in Diluted Artificial Seawater with Sodium Pentaborate, <i>Presented by Kazumi Fujii, Hitachi, Ltd.</i>
11:50 - 1:30 pm	Lunch Break
1:30 - 1:50 pm	Corrosion Behaviour of Carbon Steel Piping in Flowing Diluted Seawater, <i>Presented by Kazutoshi Fujiwara, CRIEPI Mats Science Res Lab</i>
1:50 - 2:10 pm	Mechanistic Understanding of Flow-Accelerated Corrosion Mitigation by Trace Chromium in Carbon Steel, <i>Presented by Hiroshi Abe, Tohoku University</i>
2:10 - 2:30 pm	Assessment of Corrosion Risks by Neutron-Absorbers Used for Criticality Prevention during the Fuel Debris Removal in the Fukushima-Daiichi NPPs, <i>Presented by Ryo Ishibashi, Hitachi-GE Nuclear Energy, Ltd.</i>
2:30 - 2:50 pm	Initiation of Stress Corrosion Cracking of Stainless Steel and Ni-based Alloy in Simulated PWR Primary Water Environments, <i>Presented by Tsung-Kuang Yeh, National Tsing-Hua University</i>
2:50 - 3:20 pm	Afternoon Break
3:20 - 3:40 pm	Effect of Thermal Aging on SCC Crack Growth Rate of 316L Stainless Steel Weld Metal, <i>Presented by Dan Akazawa, CREIPI</i>
3:40 - 4:10 pm	Effect of Dendrite Direction on Stress Corrosion Cracking Initiation in Alloy 182 Weld Metal in High-Temperature Water, <i>Presented by Yuichi Fukaya, Tokyo Electric Power Company Holdings, Inc.</i>
4:10 - 4:30 pm	Effect of Weld Dendrite Orientation on Growth Behavior of Stress Corrosion Cracking for Alloy 182 using Plate Specimen with Surface Crack in Simulated BWR Environment, <i>Presented by Takuya Ogawa, Toshiba Energy Systems & Solutions Corporation</i>

4:30 - 4:50 pm	SCC Growth Behavior of Low Alloy Steels under Negative dK/da condition, <i>Presented by Hiroyuki Nakano, Tokyo Electric Power Company Holdings</i>
4:50 - 5:10 pm	Effect of Ion Irradiation on Hydrogen Pick-up of Zr Alloys, <i>Presented by Katsuhito Takahashi, Nippon Nuclear Fuel Development Co., LTD.</i>
5:10 - 5:30 pm	Probing into Oxidation Kinetics and Stress Corrosion Cracking in Nuclear Power Plant Coolants, <i>Presented by Zhanpeng Lu, Shanghai University</i>

Room 413: Special Seminar

9:30 - 11:30 am	NIICAP – Setting the Standard for Coating Contractors, <i>Presented by Kamal Taher, NACE International</i>
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Room 414-415

Oil & Gas Session

9:00 - 10:30 am	Panel Discussion: OCTG Materials in Acidizing Environments Usually, corrosion performance of OCTG (Oil Country Tubular Goods) materials is discussed in terms of the corrosiveness of produced fluids, such as partial pressures of CO ₂ and H ₂ S and so on. In this Panel Discussion, the corrosion performance of OCTG materials will be discussed against very severe acidizing environments. Panelists are representatives of leading related companies such as an acidizing agent supplier, steel makers, and an operator. <i>Moderator: Yasuyoshi Tomoe, JOGMEC</i>
10:30 - 10:50 am	Morning Break
10:50 - 11:10 am	Corrosion Management in the Oil and Gas Industry: How We Do It Around the World?, <i>Presented by Sankara Papavinasam, CorrMagnet Consulting Inc.</i>
11:10 - 11:30 am	Research on the Process and Evaluation of Detailed Examination for Oilfield Pipeline in China Based on MP-ICDA, <i>Presented by Wang Weibin, Shenyang Longchang Pipeline Survey Center</i>
11:30 - 11:50 am	Non-Metallic Pipelines: The Realities and Challenges, <i>Presented by Mohd Nazmi Mohd Ali Napijah, PETRONAS</i>
11:50 - 1:30 pm	Lunch Break
1:30 - 1:50 pm	Fit for Purpose Materials Selection for Sour Gas Well, <i>Presented by Rachel Lee, Shell Malaysia Exploration and Production</i>
1:50 - 2:10 pm	Flange Face Corrosion of Tightened Flange Joint during Plant Construction, <i>Presented by Takahiro Tsuda, JGC Corporation</i>
2:10 - 2:30 pm	Integrity Assessment of Crude Oil Storage Tank, <i>Presented by Muhammad Arsalan Khan Sherwani, Saudi Aramco</i>
2:30 - 2:50 pm	Case Study of Failure of Duplex Tubes in Air Compressor Cooler in a Refinery in APAC, <i>Presented by Vikram Pandit, Sandvik Materials Technology</i>
2:50 - 3:20 pm	Afternoon Break
Chemical Treatment Session	
3:20 - 3:40 pm	Corrosion Inhibitor Development and Assessment for Sour Environments Containing Elemental Sulfur and Polysulfides, <i>Presented by Jeremy Moloney, Nalco Champion</i>
3:40 - 4:00 pm	Improvements of Inhibitor Performance with Hydrophobic Nanoparticles Especially for Water Phase, <i>Presented by Yasuyoshi Tomoe, JOGMEC - Oil & Gas Upstream Technology Unit</i>
4:00 - 4:20 pm	Top of the Line Corrosion Management for PTTEP Multiphase Offshore Pipelines, <i>Presented by Kamonwan Ruangpattanatawee, PTTEP</i>
4:20 - 4:40 pm	Value Creation of New Cooling Water Start-Up Technology, <i>Presented by Kaori Sasaki, Kurita Water Industries Ltd.</i>
4:40 - 5:00 pm	Corrosion Mitigation/Inhibition Using Chemicals – Can It Really Be Achieved?, <i>Presented by Carlos Palacios, CIMA-TQ, LLC</i>

Room 416-417: Corrosion Science Session

9:50 - 10:10 am	Influence of Metal Cations on Oxide Film Structure Formed on Aluminum Alloys in Aqueous Environments, <i>Presented by Masatoshi Sakairi, Hokkaido University</i>
10:10 - 10:30 am	Effects of Magnetic Field on Uneven Dissolution of Iron in Sulfuric Acid Solution with Chlorides, <i>Presented by Zhanpeng Lu, Shanghai University</i>
10:30 - 10:50 am	Morning Break
10:50 - 11:10 am	Optical Observation of Pit Initiation and Penetration in Type 304 Stainless Steels, <i>Presented by Noriyuki Ida, Central Research Institute of Electric Power Industry</i>
11:10 - 11:30 am	Passive Film Formed on Carbon Steel in Boric Acid-Borate Buffer Solutions, <i>Presented by Koji Fushimi, Hokkaido University</i>
11:30 - 11:50 am	Numerical Simulation of Phu My Port's Tidal Zone Applied For Constructional Steel Corrosion Study, <i>Presented by Vinh-Dat Vuong, Ho Chi Minh City University of Technology</i>
11:50 - 1:30 pm	Lunch Break
1:30 - 1:50 pm	Corrosion Behavior of Zinc with Native Oxide Formed at Different Temperature, <i>Presented by Chulaluk Somphotch, Tokyo Institute of Technology</i>
1:50 - 2:10 pm	Self-Healing Smart Vanadium Oxynitride Coating of Aluminum Alloys for Anti-Corrosive Applications, <i>Presented by Jignesh Hirpara, CON, IIT-Roorkee</i>
2:10 - 2:30 pm	<i>Tinospora cordifolia</i> and <i>Vitex negundo</i> Plant Extract Effects on the Corrosion Behavior of Aluminum and Copper in Biodiesel and Its Blend, <i>Presented by Jagadeesh Bhattarai, Central Department of Chemistry, Tribhuvan University</i>
2:30 - 2:50 pm	Nano ZnO and CeO ₂ Reinforced Phosphating over Graphene Coated BIS 2062 Steel, <i>Presented by P Muhamed Ashraf, ICAR - Central Institute of Fisheries Technology</i>
2:50 - 3:20 pm	Afternoon Break
3:20 - 3:40 pm	Effects of Poisons on Hydrogen Entry Behavior into Low Alloy Steel, <i>Presented by Hiroyuki Fuji, Nippon Steel and Sumitomo Metal Corporation</i>
3:40 - 4:10 pm	Effect of Hydrogen Charging on the Initiation and Propagation of SCC in Sensitized Type 304 Stainless Steels under an MgCl ₂ Solution Droplet, <i>Presented by Eiji Tada, Tokyo Institute of Technology</i>
4:10 - 4:30 pm	Stress Corrosion Cracking and Hydrogen Embrittlement of Sensitized Stainless Steels: Effect of Sensitizing Time, <i>Presented by Osama Alyousif, Kuwait University</i>

Room 418**Infrastructure Session**

9:30 - 9:50 am	Detail Investigation for Achievement of Effective Maintenance Method of Cathodic Protection Systems for RC and PC Bridges, <i>Presented by Masaru Abe, The Nippon Corrosion Engineering Co., LTD</i>
9:50 - 10:10 am	Development of Process-Saving Paint for Steel Structures, <i>Presented by Masahiro Ishibashi, Metropolitan Expressway Company Limited</i>
10:10 - 10:30 am	The Progress of Weathering Performance Using Fluoro-polymer Topcoat System for over 30 Years Exposure, <i>Presented by Shuhei Ochi, AGC</i>
10:30 - 10:50 am	Morning Break
10:50 - 11:10 am	Heating Test of Al-5%Mg Alloy Thermal Sprayed Coating, <i>Presented by Kunihiko Hirono, Fuji Engineering Co., Ltd.</i>
11:10 - 11:30 am	Evaluation of Durability of Protective Coating Method of Steel Pipe Pile Based on Long-Term Marine Exposure Test for 30 Years, <i>Presented by Toru Yamaji, Port and Airport Research Institute</i>
11:30 - 11:50 am	Time-Dependent Corrosion Degradation and Surface Roughness Characteristics and Their Effect on the Mechanical Properties of Structural Steel, <i>Presented by Naftary Gathimba, Nagoya University</i>
11:50 - 1:30 pm	Lunch Break
1:30 - 2:30 pm	Panel Discussion: JSCE Standard on Design and Application Methods of Galvanized Steel Reinforcement for Concrete. Life extension of RC structures by Galvanized steel Reinforcement, is it possible? <i>Moderator: Prof. Ueda, Tokushima University</i>
2:50 - 3:20 pm	Afternoon Break

Special Seminar on Process Industry	
3:20 - 4:20 pm	Management of Corrosion Under Insulation (CUI) in Japan, <i>Presented by Dr. Nakahara</i> CUI is a major threat to the safety operation of aged plants because corrosion rate of CUI is very scattered, and it is very difficult to predict where to be inspected and when to be repaired. The result of research and development project of CUI modeling, which is supported by METI (Ministry of Economy, Trade and Industry) and NEDO (New Energy and industrial Technology Development Organization) of Japan, will be explained in the seminar. 13,600 inspection data of CUI gathered from 13 chemical companies in Japan have been analyzed by machine learning and CUI prediction model has been developed. The CUI model has been open to the chemical companies and verified by additional 2,400 inspection. The seminar is 60 minutes long, which lectured by English and simultaneous interpretation to Japanese will also be provided.
Process Industry Session	
4:20 - 4:40 pm	Evaluation of the Corrosion Resistance of Aluminum Alloys in Methanol Solutions, <i>Presented by Takao Ohtsu, Mitsubishi Chemical Co</i>
4:40 - 5:00 pm	Post-Weld Surface Crack Observation in Twenty-Six Years Aged Incoloy 800H Pigtail Tubes in a Hydrogen Production Plant, <i>Presented by Majid Abbasi, SK Innovation</i>
5:00 - 5:20 pm	Critical Corrosion Group in Ethylene and Glycol Producing Plant, <i>Presented by Mohd Farid Mohamed, PETRONAS</i>
5:20 - 5:40 pm	Assets Integrity Management Through Corrosion Mitigation, Monitoring and Inspection to Enhance Safety and Reliability in Refineries, <i>Presented by Iftikhar Ahmad, Arabian Gulf Oil Company (AGOCO), Libya</i>
Room 419	
Cathodic Protection Session	
9:30 - 9:50 am	Study on Application of Installation Method by Magnetic Adsorption System for Aluminum Alloy Anode on Cathodic Protection for Marine Steel Structures, <i>Presented by Kodai Kurino, Kagoshima University</i>
9:50 - 10:10 am	Study on Influence of Monitoring Position for Cathodic Protection on Corrosion Protection Performance of Rebar in RC Structures, <i>Presented by Yasuyuki Hamada, Kagoshima University</i>
10:30 - 10:50 am	Morning Break
10:50 - 11:10 am	Outdoor Exposure Test Result of Cathodic Protection Method Using Semiconducting Mortar, <i>Presented by Mikio Wakasugi, Chemical Construction Co., Ltd.</i>
11:10 - 11:30 am	Basic Study on Cathodic Protection Using Secondary Coating Anode, <i>Presented by Mikio Wakasugi, Chemical Construction Co., Ltd.</i>
11:30 - 11:50 am	Mitigation of Rebar Corrosion in Concrete with Galvanic Anodes - Investigation on Current and Potential Shift, <i>Presented by Motoki Onoda, Credence Co.</i>
11:50 - 1:30 pm	Lunch Break
1:30 - 1:50 pm	Study on the Corrosion Rate Management Method of the Cathodic Protection for the Rebar in Concrete, <i>Presented by Shunsuke Otani, Nakabohtec Corrosion Protecting Co., Ltd</i>
2:50 - 3:20 pm	Afternoon Break
Special Seminar on Oil & Gas	
3:20 - 5:00 pm	Material Requirement and Standard for Wet H ₂ S (Sour) Service Understanding the technical background of how to prevent material degradation in wet H ₂ S (Sour) service such as Sulfide Stress Cracking (SSC) and Hydrogen Induced Cracking (HIC) is very important for materials engineers in Oil & Gas production and petroleum refining industry. In the seminar material requirement to prevent SSC and HIC and related standards of NACE MR0175 and MR0103 will be lectured for beginners. The seminar is 120 minutes long, which lectured by Japanese and simultaneous interpretation to English will also be provided.

THURSDAY, November 14

Room 411-412: Atmospheric Corrosion Session	
9:00 - 9:20 am	Corrosion of Fe During Repeated Wet-Dry Cycling Tests with NaCl Solutions -Effect of Cl- Concentration on Corrosion morphology of Fe-, <i>Presented by Kosaku Nomura, National Institute of Technology, Asahikawa College</i>
9:20 - 9:40 am	Investigation on the Susceptibility to Atmospheric Induced Stress Corrosion Cracking of Type 304 and 316 Austenitic Stainless Steel, <i>Presented by Nga Nguyen, Institute of Materials Science</i>
9:40 - 10:00 am	Corrosion Behavior of Steel in the Atmosphere of Vietnam, <i>Presented by Lien Le, Institute of Material Science</i>
10:00 - 10:30 am	Morning Break
10:30 - 10:50 am	Effect of Relative Humidity and Temperature on the Corrosion Behavior of AA3003 and AA6016 under Artificial Sea Water, <i>Presented by Parunyoo Kamnerdkhag, UACJ Corporation</i>
10:50 - 11:10 am	Influence of Temperatures on Oxygen Diffusion Behavior in Thin Solution Layer Formed on Metal, <i>Presented by Masaya Taniguchi, Hokkaido University</i>
11:10 - 11:30 am	Improvement of Solder Wettability with Electrochemical Reduction of Oxide Film Formed at Atmospheric Environment, <i>Presented by Takuya Takeda, Tokyo Denki University</i>

Room 413: Special Seminar	
9:30 - 11:30 am	Seminar: Preparing for the Future – Next Generation of CP Certification, <i>Presented by Keenan Loubser, NACE International</i>

Room 414-415: Marine Corrosion Session	
9:00 - 9:30 am	Session Introduction
9:30 - 9:50 am	21st Century Corrosion Management: Modern ideas for an Old Maritime Menace, <i>Presented by Buddy Reams, Chief Maritime Officer, NACE International</i> NACE International's Chief Maritime Officer will discuss a modern, cost saving approach for addressing a risk that the maritime industry has faced since its inception. Topics related to work going on at the International Maritime Organization, industry stakeholder groups, and some of the specific tools available will be addressed.
9:50 - 10:10 am	Evaluation of Durability of Petrolatum Lining in Marine Environment, <i>Presented by Masahiko Hoshino, Nakabohtec Corrosion Protecting Co.,Ltd</i>
10:00 - 10:30 am	Morning Break
10:30 - 10:50 am	Corrosivity of Seawater and Brine Under Different Environmental Conditions, <i>Presented by Mabruk Suleiman, ADNOC Refining</i>
10:50 - 11:10 am	Verification & Validation of a Cellular Automaton Model Simulating Under-Film Corrosion, <i>Presented by Naoki Osawa, Osaka University</i>
11:10 - 11:30 am	Influence of Inorganic Zinc Primer on Under-film Corrosion Simulation Parameters Based on Cellular Automaton, <i>Presented by Kazuhiko Shiotani, JFE Steel Corporation</i>
11:30 - 11:50 am	Onboard Test Results of Corrosion Resistant Steel for Crude Oil Tankers, <i>Presented by Ryota Kato, Kobe Steel, LTD.</i>
11:50 - 1:10 pm	Lunch Break
1:10 - 1:40 pm	Painting Ships in the Future, <i>Presented by Ralitsa Mihaylova, Safinah</i>
1:40 - 2:00 pm	Onboard Test Results of the Corrosion Resistant Steel for Ballast Tank, <i>Presented by Ryota Kato, Kobe Steel, LTD.</i>
2:00 - 2:20 pm	Structural Reliability of Ship Hull Girder with Corroded Members under Longitudinal Bending, <i>Presented by Daisuke Yanagihara, Kyushu University</i>
2:30 - 3:00 pm	Afternoon Break
3:00 - 3:20 pm	A Study on Optimum Spray Coating Conditions of IMO PSPC Certified Epoxy Paints Using Pneumatic Airless Pump for Shipbuilding, <i>Presented by Jong Woo Park, STX O&S / ASEF</i>
3:20 - 3:40 pm	Visual Determination of Film Thickness via Real-Time Enhanced Digital Imaging, <i>Presented by Mark Schultz, Sherwin-Williams Co.</i>
3:40 - 4:00 pm	Backside Burning Prevention Method for PSPC in Welding Process for Outfitting Equipment, <i>Presented by Takeshi Shinoda, Kyushu University</i>

4:00 - 4:20 pm	Non-Destructive Monitoring of Early Under Film Corrosion of Coated Steel Panel by Using Fe(II) Fluorescent Indicator, <i>Presented by Atsushi Takada, National Maritime Research Institute</i>
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Room 416-417: Microbiologically Influenced Corrosion (MIC) Session	
9:00 - 9:20 am	Corrosion Behaviour in Co-Existence of Iron-Corrosive Microorganism and Non-Corrosive Bacteria, <i>Presented by Satoshi Wakai, Kobe University</i>
9:20 - 9:40 am	Effects of Physicochemical and Biological Conditions on Carbon Steel Corrosion in Soil, <i>Presented by Kazuhiko Miyanaga, Tokyo Inst of Technology</i>
9:40 - 10:00 am	Electrochemical Properties of Two Sulfate Reducing Bacteria from a Paraffin-Degrading Consortium, <i>Presented by Shin-ichi Hirano, Central Research Institute of Electric Power Industry</i>
10:00 - 10:30 am	Morning Break
10:30 - 10:50 am	Molecular Mechanism of Souring Caused by Desulfotignum Species Screened from Crude Oil Well in Akita Japan, <i>Presented by Yasunori Tanji, Tokyo Institute of Technology</i>
10:50 - 11:10 am	Microbial Controlling Strategy for Upstream Oilfield Process, <i>Presented by Afizza Izzma Mustapa, Petronas Carigali Sdn Bhd</i>
11:10 - 11:30 am	HPAM Based Enhanced Oil Recovery (EOR) Polymer Impact on Microbial Growth and Microbial Induced Corrosion (MIC), <i>Presented by Hasrizal Abd Rahman, PETRONAS Research SDN. BHD</i>
11:30 - 1:10 pm	Lunch Break
1:10 - 1:30 am	Metal Corrosion by a Marine Isolated Bacterium in Response to Environmental Changes, <i>Presented by Nanako Ito, University of Tsukuba</i>
1:30 - 1:50 pm	Effect of Pickling and Mechanical Grinding on Initiation of Biofilm and Microbially Influenced Corrosion of Stainless Steel Weldment, <i>Presented by Hiroshi Kawakami, Osaka City University</i>
1:50 - 2:10 pm	Dynamic Observation of Corrosion Behavior of Austenitic Stainless Steel under Bio Corrosion Inducing Environments, <i>Presented by Yasuyuki Miyano, Akita University</i>
2:10 - 2:30 pm	Panel Discussion
2:50 - 3:20 pm	Afternoon Break

Room 419: General Coatings Session	
9:00 - 9:20 am	The Quantitative Evaluation of the Thick Anticorrosion Coating Degradation, <i>Presented by Yoko Nishida, Tokyo Gas Co., Ltd.</i>
9:20 - 9:40 am	Coating Protection for Steel Piles at Phu My Port - Vietnam: Impacts of Atmospheric, Tidal, Submerged and Subsoil Zones, <i>Presented by Vinh-Dat Vuong, Ho Chi Minh City University of Technology</i>
9:40 - 10:00 am	Application-Type Surface Preparation Agent which Replaces the Physical Surface Preparation Method, <i>Presented by Akira Oda, Dai Nippon Toryo Co., Ltd.</i>
10:00 - 10:30 am	Morning Break
10:30 - 10:50 am	The Performance and Application Parameters for Internal Lining of Potable Water Pipelines: A Comparative Study of Some Lining Systems, <i>Presented by Iftikhar Ahmad, Arabian Gulf Oil Company (AGOCO) Libya</i>
10:50 - 11:10 am	Coating Specification Considerations for Bulk Valves, <i>Presented by Neil Wilds, Sherwin-Williams</i>
11:10 - 11:30 am	External Corrosion Direct Assessment of a Tape Wrap Pipeline, <i>Presented by Muhammad Arsalan Khan Sherwani, Saudi Aramco</i>
11:30 - 11:50 am	Permeability of Mortar with Surface Penetrant after Weathering Test for 20years, <i>Presented by Shinichi Miyazato, Kanazawa Institute of Technology</i>
11:50 - 1:10 pm	Lunch Break
1:10 - 1:30 am	Corrosion Resistance of Electroplated Zn-Ni Alloy Coatings Passivated in Trivalent Chromium Solution, <i>Presented by Tru Nguyen, Ho Chi Minh City University of Technology</i>
1:30 - 1:50 pm	Corrosion Protection of Al Alloy Coated by New Surface Treatment Layer, Hybrid Surface Layer, <i>Presented by Haruno Yanagimoto, National Institute of Technology, Asahikawa College</i>

1:50 - 2:10 pm	Marine Exposure Test of Conductivity Mortar Cover Method for Cathodic Protection Applied to Marine Steel Structures, <i>Presented by Hikaru Yuji, Toyo Construction Co., Ltd.</i>
2:10 - 2:30 pm	Mechanism of CUI and Its Protective Painting, <i>Presented by Hiroshi Yamashita, Kansai Paint Co.,Ltd</i>
2:30 - 3:00 pm	Afternoon Break
3:00 - 3:20 pm	Advanced Epoxy Coating Technology for Use on High Temperature Insulated and Uninsulated Steelwork, <i>Presented by Darren Ward, International Paint</i>
3:20 - 3:40 pm	Your LNG facilities - How Safe Is Your Structure If Exposed to Cryogenic Releases? A Critical Review from a Leading Supplier of Cryogenic Solutions, <i>Presented by Suman Bhat</i>
3:40 - 4:10 pm	<i>Presentation by Richard Holiday</i>

NETWORKING ACTIVITIES



Dinner Cruise

Wednesday, November 13, 2019

7:00 p.m. to 9:00 p.m.

Cruise along Yokohama Bay and enjoy dinner with fellow conference attendees

Registration Fee: \$100



Tokyo City Tour

Friday, November 15, 2019

9:00 a.m. to 5:00 p.m.

Enjoy top attractions in Tokyo and experience Japanese tradition

Pickup/drop off: InterContinental Yokohama Grand

Registration Fee: \$150

Registration includes tour and lunch. Places to visit include Wanariya (Japanese traditional dyeing), Ozu Washi (traditional paper factory), Asakusa (district in Tokyo with historical sights), Nakamise Street (shopping area), and more.

Registration for Networking Activities is available online and onsite.