

15th Asian-Pacific Corrosion Control Conference

List of Submitted Papers
(as of September 28, 2009)

Title	Session Topic	Session Day	Authors (including presenting author in underline and his affiliation)
Plenary Lecture			
CRACKING MECHANISM AND CORRELATION BETWEEN HIC AND SOHIC OF LINEPIPE STEEL		Mon, Oct 19	<u>Kyoo Young Kim, Ph.D.</u> Professor, Pohang University of Science and Technology, Korea
CORROSION MANAGEMENT OF REINFORCED CONCRETE STRUCTURES – THE ENVIRONMENTALLY-RESPONSIBLE DECISION		Mon, Oct 19	<u>Graeme Jones, Ph.D.</u> Managing Director, Structural Healthcare Limited, United Kingdom
ACTIVITIES OF JSPS 180TH RISK BASED PLANT MANAGEMENT COMMITTEE AND A SITUATION ON RBI/RBM IN JAPAN		Tue, Oct 20	<u>Jun'ichi Sakai, Ph.D.</u> Professor, Waseda University, and President, JSCE, Japan
USING SHORT-TERM CORROSION TESTS AND MEASUREMENTS TO PREDICT LONG-TERM PERFORMANCE OF INDUSTRIAL ASSETS		Tue, Oct 20	<u>Keith A. Lichti</u> Principal Corrosion Consultant, Quest Reliability, Inc., New Zealand
ROLE OF CORROSION PROFESSIONAL ORGANIZATIONS IN THE 21ST CENTURY	(topic still tentative)	Tue, Oct 20	<u>Tony Keane, CAE</u> Executive Director, NACE International, USA
PLASMA IMMERSION NITROGEN ION IMPLANTATION OF AUSTENITIC STAINLESS STEELS FOR ENHANCED CORROSION RESISTANCE OF BODY IMPLANTS		Wed, Oct 21	<u>V. S. Raja, Ph.D.</u> Professor, Indian Institute of Technology Bombay, India

Paper Presentation			
FACTORS AFFECTING THE DURABILITY OF MIXED METAL OXIDE ANODES	Cathodic Protection	Mon, Oct 19	<u>Likun Xu</u> , Juntao Wang and Yonglei Xin Luoyang Ship Material Research Institute, Qingdao, P. R. China
DESIGN OF GALVANIC ESCAPE HATCH TO MINIMIZE GHOST FISHING IN KUWAIT SEAWATER	Cathodic Protection	Mon, Oct 19	<u>A. Husain</u> and O. Al-Shamali Kuwait Institute for Scientific Research, Kuwait
REMAINING STRENGTH ESTIMATION OF CORRODED STEEL BRIDGE PLATE UNDER TENSILE FORCE	Concrete and Building Structures	Mon, Oct 19	T. Kaita, <u>J.M.R.S. Appuhamy</u> , K. Fujii and M. Ohga Ehime University, Matsuyama, Japan
CORROSION MONITORING OF WEATHERING STEEL BRIDGES USING ELECTROCHEMICAL IMPEDANCE METHOD	Concrete and Building Structures	Mon, Oct 19	<u>Atsushi Nishikata</u> and Tooru Tsuru Tokyo Institute of Technology, Japan

DURABILITY OF GALVANIZED STEEL FRAMING FOR RESIDENTIAL BUILDINGS	Concrete and Building Structures	Mon, Oct 19	<u>Rob White</u> , Mike Ainsley and Doug Rourke International Zinc Association, Brussels, Belgium
CORROSION MONITORING AND CONTROL VIA THE INTERNET	Concrete and Building Structures	Mon, Oct 19	<u>John Prior</u> Structural Healthcare LLC – Philippines
INTEGRAL CONCRETE ADMIXTURE FOR WATERPROOFING AND CORROSION PROTECTION	Concrete and Building Structures	Mon, Oct 19	<u>Maximillian Desphy</u> , James Hamblin IMRAE Corporation, Lake Elsinore, CA, USA
MECHANICAL BEHAVIOR AND MORPHOLOGY STUDIES OF HYDROGEN EMBRITTLEMENT ON AISI 4340 AND API 5L X-65 STEEL	Environment Assisted Cracking	Mon, Oct 19	<u>Bambang Widyanto</u> and Bayu Aji Institut of Technology, Bandung (ITB) – INDONESIA
EVALUATION OF SUSCEPTIBILITY OF HIGH STRENGTH STEELS TO HYDROGEN EMBRITTLEMENT IN CONSIDERATION OF ATMOSPHERIC CORROSION	Environment Assisted Cracking	Mon, Oct 19	<u>Eiji Akiyama</u> , Zuogui Zhang, Katsuhiko Matsukado, Songjie Li, Bo-Ping Zhang, Kaneaki Tsuzaki National Institute for Materials Science, Japan
HETEROGENEOUS MICROSTRUCTURE-INDUCED ACCELERATED STRESS CORROSION CRACKING OF STAINLESS STEEL BOLTS USED IN A SAMPLING VALVE OF A REFRIGERANT TANK	Environment Assisted Cracking	Mon, Oct 19	C. C. Tsaur, <u>C. C. Liu</u> , Y. Y. Chang and C. J. Wang Industrial Technology Research Institute, Hsinchu, Taiwan
EFFECT OF MECHANICAL FACTORS ON THE SUSCEPTIBILITY TO STRESS CORROSION CRACKING OF THE WROUGHT AL-ZN-MG ALLOYS	Environment Assisted Cracking	Mon, Oct 19	<u>Hosen Ali Jawan</u> University of Al-mergep, Alkhoms , Libya
EFFECT OF LOCAL pH ON STRESS CORROSION CRACKING OF MARTENSITIC STAINLESS STEELS IN HIGH CONCENTRATION BRINES	Environment Assisted Cracking	Mon, Oct 19	<u>Hisashi AMAYA</u> , Masayuki SAGARA, Masakatsu UEDA and Kazuhiko NODA Sumitomo Metal Industries, Ltd., Pipe & Tube Company, Japan
LOCALIZED CORROSION OF LEAD PLATE IMMERSSED IN WATER CONTAINING HIGH CONCENTRATION OF CHLORIDE IONS	Marine Environments	Mon, Oct 19	<u>Eiji Yoneta</u> , Masamitsu Watanabe, Shuichi Yanagi, Morihiko Matsumoto, Mitsuo Kama, Hiroyuki Saito, and Takao Handa Nippon Telegraph and Telephone East Corporation, Japan
INHIBITION OF CORROSION OF COPPER BY 4-AMINO-3-PHENYL-1,2,4- TRIAZOLE-5-THIONE IN SYNTHETIC SEAWATER	Marine Environments	Mon, Oct 19	<u>M. Yadav</u> , Dipti Sharma, G. Zilani and Archana ISM University, Dhanbad, India
MACROCELL AND MICROCELL CORROSION BEHAVIOR OF PAINTED STEEL PLATES EXPOSED IN JAPAN AND PHILIPPINE MARINE ENVIRONMENT	Marine Environments	Mon, Oct 19	<u>Marish S. Madlangbayan</u> , Nobuaki Otsuki and Tsuyoshi Saito Civil Engineering Department, UP Los Baños, Philippines
PREPARATION OF POLY (ACRYLAMIDE-SILICONE) AND STUDY OF ITS APPLICATION IN MARINE ANTIFOULING	Marine Environments	Mon, Oct 19	<u>Cunguo Lin</u> , Jinwei Zhang, Jingjing Shao and Li Wang State Key Laboratory for Marine Corrosion and Protection, Qingdao, China

THE ANTI-CORROSION PERFORMANCE OF PVC-COATED GALVANIZED STEEL WIRE IN SEAWATER	Marine Environments	Mon, Oct 19	<u>Li-juan Sun</u> , Hu-yuan Sun and Kan Wang Institute of Oceanology, Chinese Academy of Sciences, Qingdao, PR China
EFFECT OF SULPHATE-REDUCING BACTERIA ON CORROSION BEHAVIOR	Marine Environments	Mon, Oct 19	<u>Dun Zhang</u> , Huaqun Liu, Yongjuan Li, Yi Wan and Baorong Hou Institute of Oceanology, Chinese Academy of Sciences, Qingdao, PR China
MATERIALS INTEGRITY ANALYSIS FOR APPLICATION OF HYPER DUPLEX STAINLESS STEELS TO KOREAN NUCLEAR POWER PLANTS	Nuclear Power Industries	Mon, Oct 19	<u>Hyun-Young Chang</u> , Heung-Bae Park, Yong-Soo Park, Soon-Tae Kim, Young-Sik Kim and Kwang-Tae Kim Korea Power Engineering Company Inc., Korea
THE STUDY AND APPLICATION OF AW-01 FLOW EFFICIENCY COATING FOR GAS PIPELINES	Oil & Gas Industries	Mon, Oct 19	<u>Yunpeng Fan</u> , Qibin Zhang and Zhu Lin CNPC Research Institute of Engineering Technology, Tianjin, China
INVESTIGATION ON LEAKAGE CAUSES OF A PRE-COMMISSIONING STAINLESS STEEL PIPELINE	Oil & Gas Industries	Mon, Oct 19	Tzu-Ping Cheng Industrial Technology Research Institute, Hsinchu, Taiwan, R.O.C.
A RESEARCH ON SRB CORROSION RESISTANT COATING	Oil & Gas Industries	Mon, Oct 19	<u>YanJun Zhang</u> , Wenli Han, Beibei Xie, Xueying Wang and Aigui Li CNPC Research Institute of Engineering Technology, Tianjin, China
SEASONAL COMPARISON OF ATMOSPHERIC CORROSION IN TAIWAN	Atmospheric Corrosion	Tue, Oct 20	<u>Jiunn-shyong Luo</u> , Yi-Hsiung Liu and Yung-Fang Chiu Industrial Technology Research Institute, Hsinchu, Taiwan
KUWAIT ATMOSPHERIC CORROSIVITY MONITOR FOR CHLORIDE AND SURFACE WETNESS	Atmospheric Corrosion	Tue, Oct 20	<u>A. Husain</u> , O. Al-Shamali and Essam A. M. Hussain Kuwait Institute for Scientific Research, Kuwait
CHARACTERIZATION OF RUST LAYER FORMED ON FE-NI STEELS DURING 1-3 YEARS EXPOSURE TO ATMOSPHERE AT 3 DIFFERENT SITES IN JAPAN	Atmospheric Corrosion	Tue, Oct 20	<u>Vannie Joy T. Resabal</u> and Toshiaki Ohtsuka Mindanao State University-Iligan Institute of Technology, Philippines
EVALUATION OF ATMOSPHERIC CORROSION BEHAVIORS OF CARBON STEEL BY ACM (ATMOSPHERIC CORROSION MONITOR) TYPE CORROSION SENSOR	Atmospheric Corrosion	Tue, Oct 20	<u>Tadashi Shinohara</u> , Akira Tahara, Yuji Hosoya, Shin-ichi Motoda and Wataru Oshikawa National Institute for Materials Science, Tsukuba, Japan
STABILIZATION AND POLYMERIZED CONDITION OF PSI/PA (PSI/PA) CORE/SHELL POLYMER: A KIND OF LOW SURFACE ENERGY POLYMER EXPECTED TO BE USED IN ANTIFOULING COATING	Coatings and Surface Modifications	Tue, Oct 20	<u>Chengyue Ge</u> , Xiaogang Yang and Baorong Hou Shandong, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China.
CORROSION BEHAVIOUR OF LANTHANUM-BASED CHEMICAL CONVERSION TREATED SiC _p / 5A06 Al MMC	Coatings and Surface Modifications	Tue, Oct 20	<u>Aziz Irfan</u> , Zhang Qi, Xiang Min Beihang University, Beijing, China
CORROSION BEHAVIOR OF THERMAL SPRAYING ALUMINUM COATING	Coatings and Surface Modifications	Tue, Oct 20	Xiutong Wang, Fuguo Liu, Fuhua Shi and Baorong Hou Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China

BARRIER PROPERTIES OF REINFORCED POLYMER LININGS: EFFECT OF FLAKE ORIENTATION	Coatings and Surface Modifications	Tue, Oct 20	Bryan Pajarito , Masatoshi Kubouchi, Hiroyuki Tomita, Saiko Aoki and Tetsuya Sakai Dept. of Chem. Eng., Tokyo Institute of Technology
CORROSION RESISTANCE OF COMPOSITE COATING OF THERMAL SPRAYED METAL AND PAINTING AGAINST ATMOSPHERIC CORROSION	Coatings and Surface Modifications	Tue, Oct 20	Tsuguo Suzuki , Hironobu Nuriya, Mitsugu Shima, Kazuo Ishikawa and Yoshiharu Kitamura Suzuki Consultant Office, Japan
IMPROVEMENT AND ENHANCEMENT OF WEATHERING RESISTANCE FOR DEVELOPED THERMOPLASTIC POLYESTER POWDER COATING	Coatings and Surface Modifications	Tue, Oct 20	Yukitoshi Takeshita , Takao Handa AND Tamotsu Kudo NTT, Japan
DURABILITY OF ORGANIC COATINGS IN TROPICAL ATMOSPHERE	Coatings and Surface Modifications	Tue, Oct 20	Nguyen Nhi Tru , Hiroyuki Tanabe, Masanori Nagai and Dao Hung Cuong Vietnam Institute for Tropical Technology & Environmental Protection, Vietnam
EIS STUDY ON PROTECTIVE PROPERTIES OF ORGANIC-COATED TFS IN CONNECTION WITH METAL FORMING EFFECTS	Coatings and Surface Modifications	Tue, Oct 20	Piya Khamsuk, Wanida Pongsaksawad and Ekkarut Vivanit National Metal and Materials Technology Center, Thailand
MONITORING OF PITTING CORROSION INITIATION OF STAINLESS STEEL IN CHLORIDE CONTAINING ENVIRONMENT	Corrosion of Stainless Steels	Tue, Oct 20	Sri Hastuty , Atsushi Nishikata and Tooru Tsuru Tokyo Institute of Technology, Japan
EFFECT OF PASSIVATION TREATMENT USING (H ₂ O ₂ +O ₃) SOLUTION ON PITTING POTENTIAL OF SUS304 AND SUS430 STAINLESS STEEL	Corrosion of Stainless Steels	Tue, Oct 20	Toshio Shibata Fukui University of Technology, Japan
SENSITIZATION SIMULATION OF NEW-GENERATION CR-MN AND HIGH CR STAINLESS STEELS	Corrosion of Stainless Steels	Tue, Oct 20	K. Wongpinkeaw, S. Sajjasophon, W. Pongsaksawad and E. Vivanit National Metal and Materials Technology Center, Thailand
CORROSION KINETICS OF SAC405 SOLDER ALLOY IN NITRIC ACID AND SODIUM CHLORIDE SOLUTIONS	Electronic-Magnetic Materials and Fuel Cells	Wed, Oct 21	Winston G. Mutia and Manolo G. Mena Analog Devices General Trias, Inc.
AN INVESTIGATION OF DENDRITE FORMATION IN ELECTROLESS COPPER THIN FILM CONDUCTORS	Electronic-Magnetic Materials and Fuel Cells	Wed, Oct 21	Edwin L. Olmos and Manolo G. Mena University of Asia and the Pacific, Philippines
CHARACTERISATION OF TERTIARY OXIDE SCALES ON HOT-ROLLED LOW CARBON STEEL STRIPS PRODUCED BY DIFFERENT COILING TEMPERATURES	High Temperature Corrosion	Wed, Oct 21	Komsan Ngamkham and Somrerck Chandra-ambhorn King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand
THE EFFECT OF HEAT TREATMENT ON THE MICROSTRUCTURE OF SURFACE LAYERS PREPARED BY LIQUID-PHASE SILICONIZING AND ITS INFLUENCE ON OXIDATION RESISTANCE OF TiAl6V4	High Temperature Corrosion	Wed, Oct 21	Tomáš Kubatík , Martina Jáglová, Eva Kalabisová and Vladimír Číhal SVUOM, Czechoslovakia
EFFECT OF OXYGEN PARTIAL PRESSURE ON OXIDATION BEHAVIOUR OF TiAl INTERMETALLICS AT HIGH TEMPERATURE	High Temperature Corrosion	Wed, Oct 21	Ali Abdulgader Aljarany

DISSOLUTION OF PLATINUM UNDER POTENTIAL CYCLING CONDITION IN SULFURIC ACID SOLUTION	Non-Ferrous Metals and Alloys	Wed, Oct 21	<u>Yuu Sugawara</u> , Amar Prasad Yadav, Atshushi Nishikata and Tooru Tsuru Tokyo Institute of Technology, Japan
CONTROL AND APPLICATION OF CORROSION INHIBITORS FOR ANTI-TARNISHING OF COPPER	Non-Ferrous Metals and Alloys	Wed, Oct 21	<u>Hyung Goun Joo</u> , Da-Quan Zhang, Dae Young Lee, Jae Uk Jung and Kang Yong Lee Yonsei University, South Korea
THE CORROSION BEHAVIOR OF SPUTTER-DEPOSITED Cr-Zr-W ALLOYS IN 12 M HCL	Non-Ferrous Metals and Alloys	Wed, Oct 21	<u>Jagadeesh Bhattarai</u> Tibhuvan University, Kathmandu, Nepal
ANODIC DISSOLUTION OF PT-NI, PT-CO AND PT-FE ALLOYS IN SULFURIC ACID SOLUTION	Non-Ferrous Metals and Alloys	Wed, Oct 21	<u>Yoshinao Hoshi</u> , Amar Prasad Yadav, Atsushi Nishikata and Tooru Tsuru Tokyo Institute of Technology, Japan
ROLE OF MICRO-POLLUTANTS IN THE LOCAL CORROSION OF A COLD ROLLED ALUMINA PLATE	Non-Ferrous Metals and Alloys	Wed, Oct 21	<u>Chaur-Chi Huang</u> , Szu-Ning Lin and Horng-Yih Liou China Steel Corporation, Taiwan
FLUORIDE-ENHANCED CORROSION OF TITANIUM-CONTAINING ALLOYS FOR DENTAL APPLICATIONS	Medical/Dental	Wed, Oct 21	<u>Her-Hsiung Huang</u> , Chia-Ching Wang Professor, National Yang-Ming University, Taipei, Taiwan
INFLUENCE OF ULTRASOUND APPLICATION ON CORROSION BEHAVIOR OF SUS304 STAINLESS STEEL WITH CREVICE	Medical/Dental	Wed, Oct 21	<u>Rongguang Wang</u> , Mitsuo Kido Hiroshima Institute of Technology, Hiroshima, Japan

Poster Presentation			
ANTICORROSIVE PROPERTIES OF SOME NEW NON-TOXIC MULTILAYER COATINGS			Paula Drob Romania
WATER UPTAKE IN NEW ORGANIC COATINGS WITH LOW CONTENT OF VOLATILE ORGANIC COMPOUNDS			Ecaterina Vasilescu Dept. Electrochemistry and Corrosion, Bucharest, Romania
CORROSION BEHAVIOUR OF A NEW TITANIUM BASE ALLOY			Cora Vasilescu Romania
THE INFLUENCE OF THE ACIDIC GASES AND WATER-CUT RATIO OF OIL-GAS-WATER MIXTURE ON THE CORROSION OF L80 CARBON STEEL			K.AI-Muhanna Kuwait Institute for Scientific Research, Kuwait