

# Technical Program

## 15th Asian-Pacific Corrosion Control Conference

### October 18-21, 2009, Dusit Thani Manila, Philippines

|  | CODE               | ROOM           | TIME        | AUTHORS<br>(presenting author & his affiliation)  | TITLE  | SESSION                          |
|--|--------------------|----------------|-------------|---|--|----------------------------------|
| <b>Monday, 19 October 2009</b>           |                    |                |             |   |  |                                  |
| Plenary Hall<br>(Meeting Rooms 3, 4 & 5) | Plenary Lecture    |                |             |   |  |                                  |
| AM                                       | PL-01              | PL             | 09:30-10:30 | Kyoo Young Kim, Ph.D.<br>Professor, Pohang University of Science and Technology, Korea  | CRACKING MECHANISM AND CORRELATION BETWEEN HIC AND SOHIC OF LINEPIPE STEEL   | Plenary Lecture                  |
| PM                                       | PL-02              | PL             | 15:20-16:20 | Graeme Jones, Ph.D.<br>Managing Director, Structural Healthcare Limited, United Kingdom   | CORROSION MANAGEMENT OF REINFORCED CONCRETE STRUCTURES – THE ENVIRONMENTALLY-RESPONSIBLE DECISION  | Plenary Lecture                  |
| Room 3                                   | Break-out Sessions |                |             |   |  |                                  |
| AM                                       | PST-xx             | Meeting Room 3 | 10:40-11:00 |   |  | Poster Preview Presentation      |
| PM                                       | ME-01              | Meeting Room 3 | 13:00-13:20 | Eiji Yoneta, Masamitsu Watanabe, Shuichi Yanagi, Morihiko Matsumoto, Mitsuo Kama, Hiroyuki Saito, and Takao Handa Nippon Telegraph and Telephone East Corporation, Japan  | LOCALIZED CORROSION OF LEAD PLATE IMMERSSED IN WATER CONTAINING HIGH CONCENTRATION OF CHLORIDE IONS  | Marine Environment               |
|  | ME-02              | Meeting Room 3 | 13:20-13:40 | Dun Zhang, Huaqun Liu, Yongjuan Li, Yi Wan and Baorong Hou<br>Institute of Oceanology, Chinese Academy of Sciences, Qingdao, PR China   | EFFECT OF SULPHATE-REDUCING BACTERIA ON CORROSION BEHAVIOR OF CARBON STEEL IN ARTIFICIAL SEAWATER  | Marine Environment               |
|  | ME-03              | Meeting Room 3 | 13:40-14:00 | Li-juan Sun, Hu-yuan Sun and Kan Wang<br>Institute of Oceanology, Chinese Academy of Sciences, Qingdao, PR China  | THE ANTI-CORROSION PERFORMANCE OF PVC-COATED GALVANIZED STEEL WIRE IN SEAWATER   | Marine Environment               |
|  | ME-04              | Meeting Room 3 | 14:00-14:20 | Marish S. Madlangbayan, Nobuaki Otsuki and Tsuyoshi Saito<br>Civil Engineering Department, UP Los Baños, Philippines  | MACROCELL AND MICROCELL CORROSION BEHAVIOR OF PAINTED STEEL PLATES EXPOSED IN JAPAN AND PHILIPPINE MARINE ENVIRONMENT                              | Marine Environment               |
|  | ME-05              | Meeting Room 3 | 14:20-14:40 | Cunguo Lin, Jinwei Zhang, Jingjing Shao and Li Wang<br>State Key Laboratory for Marine Corrosion and Protection, Qingdao, China   | PREPARATION OF POLY (ACRYLAMIDE-SILICONE) AND STUDY OF ITS APPLICATION IN MARINE ANTIFOULING   | Marine Environment               |
| Room 4                                   | Break-out Sessions |                |             |   |  |                                  |
| AM                                       | I-01               | Meeting Room 4 | 10:40-11:00 | Tzu-Ping Cheng<br>Industrial Technology Research Institute, Hsinchu, Taiwan, R.O.C.   | INVESTIGATION ON LEAKAGE CAUSES OF A PRE-COMMISSIONING STAINLESS STEEL PIPELINE  | Industrial Corrosion             |
|  | I-02               | Meeting Room 4 | 11:00-11:20 | Hyun-Young Chang, Heung-Bae Park, Yong-Soo Park, Soon-Tae Kim, Young-Sik Kim and Kwang-Tae Kim<br>Korea Power Engineering Company Inc., Korea   | MATERIALS INTEGRITY ANALYSIS FOR APPLICATION OF HYPER DUPLEX STAINLESS STEELS TO KOREAN NUCLEAR POWER PLANTS                                       | Industrial Corrosion             |
|  | I-03               | Meeting Room 4 | 11:20-11:40 | Hsing-Lien Wu and Horng-Yih Liou<br>China Steel Corporation, Kaohsiung, Taiwan, R.O.C.  | FRACTURE ANALYSIS OF INNER PLATE IN A RADIANT TUBE BURNER  | Industrial Corrosion             |
| PM                                       | CK-01              | Meeting Room 4 | 13:00-13:20 | Hisashi Amaya, Masayuki Sagara, Masakatsu Ueda and Kazuhiko Noda<br>Sumitomo Metal Industries, Ltd., Pipe & Tube Company, Japan   | EFFECT OF LOCAL pH ON STRESS CORROSION CRACKING OF MARTENSITIC STAINLESS STEELS IN HIGH CONCENTRATION BRINES                                       | Environment-Assisted Cracking    |
|  | CK-02              | Meeting Room 4 | 13:20-13:40 | Bambang Widyanto and Bayu Aji<br>Institut of Technology, Bandung (ITB) – INDONESIA  | MECHANICAL BEHAVIOR AND MORPHOLOGY STUDIES OF HYDROGEN EMBRITTLEMENT ON AISI 4340 AND API 5L X-65 STEEL  | Environment-Assisted Cracking    |
|  | CK-03              | Meeting Room 4 | 13:40-14:00 | Eiji Akiyama, Zuogui Zhang, Katsuhiko Matsukado, Songjie Li, Bo-Ping Zhang, Kaneaki Tsuzaki<br>National Institute for Materials Science, Japan  | EVALUATION OF SUSCEPTIBILITY OF HIGH STRENGTH STEELS TO HYDROGEN EMBRITTLEMENT IN CONSIDERATION OF ATMOSPHERIC CORROSION                           | Environment-Assisted Cracking    |
|  | CK-04              | Meeting Room 4 | 14:00-14:20 | C. C. Tsaur, C. C. Liu, Y. Y. Chang and C. J. Wang<br>Industrial Technology Research Institute, Hsinchu, Taiwan   | HETEROGENEOUS MICROSTRUCTURE-INDUCED ACCELERATED STRESS CORROSION CRACKING OF STAINLESS STEEL BOLTS USED IN A SAMPLING VALVE OF A REFRIGERANT TANK | Environment-Assisted Cracking    |
| Room 5                                   | Break-out Sessions |                |             |   |  |                                  |
| AM                                       | CB-01              | Meeting Room 5 | 10:40-11:00 | John Prior<br>Structural Healthcare LLC – Philippines   | CORROSION MONITORING AND CONTROL VIA THE INTERNET  | Concrete & Building Structures I |
|  | CB-02              | Meeting Room 5 | 11:00-11:20 | Maximillian Desphy, James Hamblin<br>IMRAE Corporation, Lake Elsinore, CA, USA  | INTEGRAL CONCRETE ADMIXTURE FOR WATERPROOFING AND CORROSION PROTECTION   | Concrete & Building Structures I |
|  | CB-03              | Meeting Room 5 | 11:20-11:40 | Michael Jan M. de Celis, John Michael F. de Leon, Michael Angelo N. Gabriel, Alfred Jhon R. Gallego, Mabel Jo-anne A. Globio, Jonalyn M. Pizarra and Nathaniel B. Diola<br>University of the Philippines, Diliman, Quezon City, Philippines | EXPERIMENTAL STUDY ON THE TIME TO INITIATE REBAR CORROSION AND CRACKING OF CONCRETE USING PHILIPPINE-MADE CEMENTS                                  | Concrete & Building Structures I |

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|          | CODE           | ROOM           | TIME        | AUTHORS<br>(presenting author & his affiliation)   | TITLE   | SESSION                           |
|----------|----------------|----------------|-------------|--|---|-----------------------------------|
| PM       | CB-04          | Meeting Room 5 | 13:00-13:20 | Atsushi Nishikata and Tooru Tsuru<br>Tokyo Institute of Technology, Japan  | CORROSION MONITORING OF WEATHERING STEEL BRIDGES USING ELECTROCHEMICAL IMPEDANCE METHOD   | Concrete & Building Structures I  |
|          | CB-05          | Meeting Room 5 | 13:20-13:40 | Rob White, Mike Ainsley and Doug Rourke<br>International Zinc Association, Brussels, Belgium   | DURABILITY OF GALVANIZED STEEL FRAMING FOR RESIDENTIAL BUILDINGS  | Concrete & Building Structures II |
|          | CB-06          | Meeting Room 5 | 13:40-14:00 | Ernesto T. Anacta and Nathaniel B. Diola<br>University of the Philippines, Diliman, Quezon City, Philippines                           | MODELING TIME-TO-INITIATE REBAR CORROSION IN CONCRETES EXPOSED TO TIDAL ZONE – PHILIPPINE SETTING                                       | Concrete & Building Structures II |
|          | CB-07          | Meeting Room 5 | 14:00-14:20 | T. Kaita, J.M.R.S. Appuhamy, K. Fujii and M. Ohga<br>Ehime University, Matsuyama, Japan  | REMAINING STRENGTH ESTIMATION OF CORRODED STEEL BRIDGE PLATE UNDER TENSILE FORCE  | Concrete & Building Structures II |
|          | CP-01          | Meeting Room 5 | 14:20-14:40 | Likun Xu, Juntao Wang and Yonglei Xin<br>Luoyang Ship Material Research Institute, Qingdao, P. R. China                                | FACTORS AFFECTING THE DURABILITY OF MIXED METAL OXIDE ANODES  | Cathodic Protection               |
|          | CP-02          | Meeting Room 5 | 14:40-15:00 | A. Husain and O. Al-Shamali<br>Kuwait Institute for Scientific Research, Kuwait  | DESIGN OF GALVANIC ESCAPE HATCH TO MINIMIZE GHOST FISHING IN KUWAIT SEAWATER  | Cathodic Protection               |
| Corridor | Poster Viewing |                |             |  |   |                                   |
| AM       | PST-XX         | Corridor       | 11:00-12:00 |  |   | Poster Presentation               |
| PM       | PST-01         | Corridor       | 16:20-17:00 | E. Borgonia-Catalla and Manolo G. Mena<br>Fluor Philippines  | DETERMINATION OF CHLORIDE THRESHOLD FOR CORROSION OF REINFORCING STEEL BARS IN SIMULATED PORE SOLUTION USING POTENTIODYNAMIC TECHNIQUES | Poster Session                    |
|          | PST-02         | Corridor       | 16:20-17:00 | Dianne Carla S. Castañeda and Eric C. Cruz<br>University of the Philippines, Diliman, Quezon City, Philippines                         | STUDY ON THE APPLICABILITY OF A MARINE CONCRETE MAINTENANCE SYSTEM TO REINFORCED CONCRETE STRUCTURES IN THE PHILIPPINES                 | Poster Session                    |
|          | PST-03         | Corridor       | 16:20-17:00 | Richard M. de Jesus, Mark Rogers G. Perdigueria and Norbert S. Que<br>University of the Philippines, Diliman, Quezon City, Philippines | PREDICTION OF SERVICE PERIOD OF REINFORCED CONCRETE (RC) STRUCTURES IN MARINE ENVIRONMENT USING NUMERICAL MODELS                        | Poster Session                    |
|          | PST-04         | Corridor       | 16:20-17:00 | K.Al-Muhanna<br>Kuwait Institute for Scientific Research, Kuwait   | THE INFLUENCE OF THE ACIDIC GASES AND WATER-CUT RATIO OF OIL-GAS-WATER MIXTURE ON THE CORROSION OF L80 CARBON STEEL                     | Poster Session                    |

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#### Tuesday, 20 October 2009

|  |                 |    |             |   |   |                 |
|--|-----------------|----|-------------|---|---|-----------------|
| Plenary Hall<br>(Meeting Rooms 3, 4 & 5) | Plenary Lecture |    |             |   |   |                 |
| AM                                       | PL-03           | PL | 08:30-09:30 | Jun'ichi Sakai, Ph.D.<br>Professor, Waseda University, and President, JSCE, Japan       | ACTIVITIES OF JSPS 180TH RISK BASED PLANT MANAGEMENT COMMITTEE AND A SITUATION ON RBI/RBM IN JAPAN      | Plenary Lecture |
| PM                                       | PL-04           | PL | 13:00-14:00 | Keith A. Lichti<br>Principal Corrosion Consultant, Quest Reliability, Inc., New Zealand | USING SHORT-TERM CORROSION TESTS AND MEASUREMENTS TO PREDICT LONG-TERM PERFORMANCE OF INDUSTRIAL ASSETS | Plenary Lecture |
|  | PL-05           | PL | 16:00-17:00 | Tony Keane, CAE<br>Executive Director, NACE International, USA                          | WTHE CORROSION PROFESSIONAL AND THE ROLE OF CORROSION ORGANIZATIONS                                     | Plenary Lecture |

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|--|--------------------|----|-------------|---|---|------------------------------------|
| Plenary Hall<br>(Meeting Rooms 3, 4 & 5) | Break-out Sessions |    |             |   |   |                                    |
| AM                                       | CS-01              | PL | 09:40-10:00 | Luis G. Fernando, Araceli M. Monsada and Orlando B. Araujo<br>Kemwerke, Incorporated, Philippines                                       | LAURIC POLYOL RESINS BASED 2K-POLYURETHANE ANTI-CORRO-SIVE PAINT FOR AUTO REFINISH, MARINE AND INDUSTRIAL APPLICATIONS  | Coatings & Surface Modifications I |
|  | CS-02              | PL | 10:00-10:20 | Yukitoshi Takeshita, Takao Handa and Tamotsu Kudo<br>NTT, Japan   | IMPROVEMENT AND ENHANCEMENT OF WEATHERING RESISTANCE FOR DEVELOPED THERMOPLASTIC POLYESTER POWDER COATING   | Coatings & Surface Modifications I |
|  | CS-03              | PL | 10:20-10:40 | Tsuguo Suzuki, Hironobu Nuriya, Mitsugu Shima, Kazuo Ishikawa and Yoshiharu Kitamura<br>Suzuki Consultant Office, Japan                 | CORROSION RESISTANCE OF COMPOSITE COATING OF THERMAL SPRAYED METAL AND PAINTING AGAINST ATMOSPHERIC CORROSION   | Coatings & Surface Modifications I |
|  | CS-04              | PL | 10:40-11:00 | Chengyue Ge, Xiaogang Yang and Baorong Hou<br>Shandong, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China.           | STABILIZATION AND POLYMERIZED CONDITION OF PSI/PA (PSI/PA) CORE/SHELL POLYMER: A KIND OF LOW SURFACE ENERGY POLYMER EXPECTED TO BE USED IN ANTI-FOULING COATING | Coatings & Surface Modifications I |
|  | CS-05              | PL | 11:00-11:20 | Bryan Pajarito, Masatoshi Kubouchi, Hiroyuki Tomita, Saiko Aoki and Tetsuya Sakai<br>Dept. of Chem. Eng., Tokyo Institute of Technology | BARRIER PROPERTIES OF REINFORCED POLYMER LININGS: EFFECT OF FLAKE ORIENTATION   | Coatings & Surface Modifications I |
|  | CS-06              | PL | 11:20-11:40 | Blessie A. Basilia, Albert F. Aguirre, Johann A. Cruz<br>Industrial Technology Development Institute, Philippines                       | CHARACTERIZATION OF FLAME SPRAYED CARBON NANOTUBE-FILLED ALUMINA POWDER COATING ON A NICKEL BASED ALLOY SUBSTRATE   | Coatings & Surface Modifications I |
|  | CS-07              | PL | 11:40-12:00 | Tooru Tsuru, Yoshihiko Kyo, Minako Enokida, Gamal A. El-Mahdy and Atsushi Nishikata<br>Tokyo Institute of Technology, Japan             | NEW AL-MG-SI ALLOY COATING FOR HIGH STRENGTH STEELS   | Coatings & Surface Modifications I |

|        |                    |                |             |  |   |                               |
|--------|--------------------|----------------|-------------|--|---|-------------------------------|
| Room 3 | Break-out Sessions |                |             |  |   |                               |
| PM     | SS-01              | Meeting Room 3 | 14:20-14:40 | K. Wongpinkeaw, S. Sajjasophon, W. Pongsaksawad and E. Viyanit<br>National Metal and Materials Technology Center, Thailand | SENSITIZATION SIMULATION OF NEW-GENERATION CR-MN AND HIGH CR STAINLESS STEELS   | Corrosion of Stainless Steels |
|        | SS-02              | Meeting Room 3 | 14:40-15:00 | Toshio Shibata<br>Fukui University of Technology, Japan  | EFFECT OF PASSIVATION TREATMENT USING (H <sub>2</sub> O <sub>2</sub> +O <sub>3</sub> ) SOLUTION ON PITTING POTENTIAL OF SUS304 AND SUS430 STAINLESS STEEL | Corrosion of Stainless Steels |
|        | SS-03              | Meeting Room 3 | 15:00-15:20 | Sri Hastuty, Atsushi Nishikata and Tooru Tsuru<br>Tokyo Institute of Technology, Japan                                     | MONITORING OF PITTING CORROSION INITIATION OF STAINLESS STEEL IN CHLORIDE CONTAINING ENVIRONMENT  | Corrosion of Stainless Steels |
|        | SS-04              | Meeting Room 3 | 15:20-15:40 | Rongguang Wang, Mitsuo Kido<br>Hiroshima Institute of Technology, Hiroshima, Japan   | INFLUENCE OF ULTRASOUND APPLICATION ON CORROSION BEHAVIOR OF SUS304 STAINLESS STEEL WITH CREVICE  | Corrosion of Stainless Steels |

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| Room 4 | Break-out Sessions |                |             |  |   |                       |
| PM     | AC-01              | Meeting Room 4 | 14:20-14:40 | Tadashi Shinohara, Akira Tahara, Yuji Hosoya, Shin-ichi Motoda and Wataru Oshikawa<br>National Institute for Materials Science, Tsukuba, Japan | EVALUATION OF ATMOSPHERIC CORROSION BEHAVIORS OF CARBON STEEL BY ACM (ATMOSPHERIC CORROSION MONITOR) TYPE CORROSION SENSOR  | Atmospheric Corrosion |
|        | AC-02              | Meeting Room 4 | 14:40-15:00 | Jiunn-shyong Luo, Yi-Hsiung Liu and Yung-Fang Chiu<br>Industrial Technology Research Institute, Hsinchu, Taiwan                                | SEASONAL COMPARISON OF ATMOSPHERIC CORROSION IN TAIWAN  | Atmospheric Corrosion |
|        | AC-03              | Meeting Room 4 | 15:00-15:20 | Vannie Joy T. Resabal and Toshiaki Ohtsuka<br>Mindanao State University-Iligan Institute of Technology, Philippines                            | CHARACTERIZATION OF RUST LAYER FORMED ON FE-NI STEELS DURING 1-3 YEARS EXPOSURE TO ATMOSPHERE AT 3 DIFFERENT SITES IN JAPAN | Atmospheric Corrosion |
|        | AC-04              | Meeting Room 4 | 15:20-15:40 | A. Husain, O. Al-Shamali and Essam A. M. Hussain<br>Kuwait Institute for Scientific Research, Kuwait   | KUWAIT ATMOSPHERIC CORROSION MONITOR FOR CHLORIDE AND SURFACE WETNESS   | Atmospheric Corrosion |

|                           |                    |                |             |  |   |                                     |
|---------------------------|--------------------|----------------|-------------|--|---|-------------------------------------|
| Room 5                    | Break-out Sessions |                |             |  |   |                                     |
| PM                        | CS-08              | Meeting Room 5 | 14:20-14:40 | Xiutong Wang, Fuguo Liu, Fuhua Shi and Baorong Hou<br>Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China | CORROSION BEHAVIOR OF THERMAL SPRAYING ALUMINUM COATING   | Coatings & Surface Modifications II |
|                           | CS-09              | Meeting Room 5 | 14:40-15:00 | Fathi Al-Sabti, Khaled Al-Muhanna, and Khaled Habib<br>Department of Advanced Systems, KISR, Safat, Kuwait                 | ELECTROCHEMICAL BEHAVIOR OF ALUMINIUM OXIDE-FILM THICKNESS BY EIS: LABORATORY AND FIELD STUDY     | Coatings & Surface Modifications II |
|                           | CS-10              | Meeting Room 5 | 15:00-15:20 | Aziz Irfan, Zhang Qi, Xiang Min<br>Beihang University, Beijing, China  | CORROSION BEHAVIOUR OF LANTHANUM-BASED CHEMICAL CONVERSION TREATED SiCp/ 5A06 Al MMC              | Coatings & Surface Modifications II |
|                           | CS-11              | Meeting Room 5 | 15:20-15:40 | Piya Khamsuk, Wanida Pongsaksawad and Ekkarut Viyanit<br>National Metal and Materials Technology Center, Thailand          | EIS STUDY ON PROTECTIVE PROPERTIES OF ORGANIC-COATED TFS IN CONNECTION WITH METAL FORMING EFFECTS | Coatings & Surface Modifications II |
| Ballroom A (Ground Floor) |                    |                | 18:30-21:00 | Conference Banquet   |   |                                     |

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**Wednesday, 21 October 2009**

|   |                       |                   |             |   |  |                                   |
|---|-----------------------|-------------------|-------------|---|--|-----------------------------------|
| Plenary Hall<br>(Meeting Rooms<br>3, 4 & 5) | Plenary<br>Lecture    |                   |             |   |  |                                   |
| AM  | PL-6                  | PL                | 08:30-09:30 | V. S. Raja, Ph.D.<br>Professor, Indian Institute of Technology Bombay,<br>India   | PLASMA IMMERSION NITROGEN<br>ION IMPLANTATION OF AUSTENIT-<br>IC STAINLESS STEELS FOR EN-<br>HANCED CORROSION RESISTANCE<br>OF BODY IMPLANTS                                     | Plenary Lecture                   |
| Room 3                                      | Break-out<br>Sessions |                   |             |   |  |                                   |
| AM  | NF-01                 | Meeting<br>Room 3 | 09:40-10:00 | Yuu Sugawara, Amar Prasad Yadav,<br>Atshushi Nishikata and Tooru Tsuru<br>Tokyo Institute of Technology, Japan                | DISSOLUTION OF PLATINUM UN-<br>DER POTENTIAL CYCLING CONDI-<br>TION IN SULFURIC ACID SOLUTION  | Non-Ferrous<br>Metals & Alloys    |
|   | NF-02                 | Meeting<br>Room 3 | 10:00-10:20 | Yoshinao Hoshi, Amar Prasad Yadav, Atsushi Ni-<br>shikata and Tooru Tsuru<br>Tokyo Institute of Technology, Japan             | ANODIC DISSOLUTION OF PT-NI,<br>PT-CO AND PT-FE ALLOYS<br>IN SULFURIC ACID SOLUTION  | Non-Ferrous<br>Metals & Alloys    |
|   | NF-03                 | Meeting<br>Room 3 | 10:20-10:40 | Hyung Goun Joo, Da-Quan Zhang, Dae Young Lee,<br>Jae Uk Jung and Kang Yong Lee<br>Yonsei University, South Korea              | CONTROL AND APPLICATION OF<br>CORROSION INHIBITORS FOR ANTI-<br>TARNISHING OF COPPER   | Non-Ferrous<br>Metals & Alloys    |
| Room 4                                      | Break-out<br>Sessions |                   |             |   |  |                                   |
| AM  | HT-01                 | Meeting<br>Room 4 | 09:40-10:00 | Tomáš Kubatík, Martina Jáglová, Eva Kalabisová and<br>Vladimír Číhal<br>SVUOM, Czechoslovakia                                 | THE EFFECT OF HEAT TREATMENT<br>ON THE MICROSTRUCTURE OF<br>SURFACE LAYERS PREPARED BY<br>LIQUID-PHASE SILICONIZING AND<br>ITS INFLUENCE ON OXIDATION RE-<br>SISTANCE OF TiAl6V4 | High Temperature<br>Corrosion     |
|   | HT-02                 | Meeting<br>Room 4 | 10:00-10:20 | Komsan Ngamkham<br>and Somrerk Chandra-ambhorn<br>King Mongkut's University of Technology<br>North Bangkok (KMUTNB), Thailand | CHARACTERISATION OF TERTIARY<br>OXIDE SCALES ON HOT-ROLLED<br>LOW CARBON STEEL STRIPS PRO-<br>DUCED BY DIFFERENT COILING<br>TEMPERATURES   | High Temperature<br>Corrosion     |
| Room 5                                      | Break-out<br>Sessions |                   |             |   |  |                                   |
| AM  | MD-01                 |                   |             | Paper changed to SS-04  |  |                                   |
|   | MD-02                 | Meeting<br>Room 5 | 10:00-10:20 | Her-Hsiung Huang, Chia-Ching Wang<br>Professor, National Yang-Ming University,<br>Taipei, Taiwan                              | FLUORIDE-ENHANCED CORRO-<br>SION OF TITANIUM-CONTAINING AL-<br>LOYS FOR DENTAL APPLICATIONS  | Medical/Dental                    |
|   | EM-01                 | Meeting<br>Room 5 | 10:20-10:40 | Edwin L. Olmos and Manolo G. Mena<br>University of Asia and the Pacific, Philippines  | AN INVESTIGATION OF DENDRITE<br>FORMATION IN ELECTROLESS<br>COPPER THIN FILM CONDUCTORS  | Electronic-<br>Magnetic Materials |
|   | EM-02                 | Meeting<br>Room 5 | 10:40-11:00 | Winston G. Mutia and Manolo G. Mena<br>Analog Devices General Trias, Inc.   | CORROSION KINETICS OF SAC405<br>SOLDER ALLOY IN NITRIC ACID AND<br>SODIUM CHLORIDE SOLUTIONS   | Electronic-<br>Magnetic Materials |