

Programme WP1 on EUROCORR'2011 at Stockholm, 5-8 September 2011

Monday, 5 September 2011

Corrosion and Scale Inhibition (WP 1)

Chair: G. Schmitt, IFINKOR, Iserlohn/D

- 11:00 **KEYNOTE: Non-toxic corrosion inhibitors for aqueous media: a review** (Paper 4413)
D. Asefi, Islamic Azad University South Branch of Tehran, Karaj/IR; M. Arami, Amir Kabir University of Tehran/IR; N.M. Mahmoodi, Institute for Colorants, Paint and Coatings, Tehran/IR
- 11:40 **AFM imaging and FTIR analysis of adsorption and oxidation of mussel adhesive protein (*Mefp-1*) on carbon steel as corrosion inhibitor** (Paper 4779)
F. Zhang, J. Pan, P.M. Claesson, KTH - Royal Institute of Technology, Stockholm/S
- 12:00 **Electrochemical investigation of green film-forming corrosion inhibitors** (Paper 4762)
H. Wang, J. Pan, KTH - Royal Institute of Technology, Stockholm/S; P.R. Hellberg, Akzo Nobel Surface Chemistry AB, Stenungsund/S
- 12:20 **Green plant-based corrosion inhibitors for cooling water systems** (Paper 4642)
M. Cabanas, ArcelorMittal, Aviles/E; O. Conejero, ITMA Materials Technology, Aviles/E
- 12:40 **Lunchtime**
- 14:00 **Inhibition of EN 10204 Steel in H₂SO₄ by a mixture of hypericum perforatum plant extract and nitrite based inorganic inhibitors** (Paper 4579)
B. Karahan, A. Turhan, N. Bayraktar, Dokuz Eylul University, Izmir/TR; I. Ince, Ege University, Izmir/TR; H. Ekinci, Günsu A.S., Antalya/TR; A. Çakir, Dokuz Eylul University, Izmir/TR
- 14:20 **Optimisation of a drinking water corrosion inhibitor with special regard to electrochemical investigation in field studies** (Paper 4845)
A. Becker, U. Ruhrberg, T. Jentzsch, IWW Water Centre, Mülheim/D; W. Hater, P. Schmidt, BK Giulini GmbH, Düsseldorf/D; A. Garweg, Stadtwerke Bad Hersfeld GmbH/D
- 14:40 **Protection of metals against atmospheric corrosion by passivation layers of organic compounds** (Paper 4793)
Yu.I. Kuznetsov, A.A. Chirkunov, A.S. Gorbachev, I.A. Filippov, Russian Academy of Sciences, Moscow/RUS
- 15:00 **Investigation the effect of film forming amines on the corrosion inhibition of carbon steel** (Paper 4520)
E. Sezer, Istanbul Technical University/TR; I. Ozturk, BK Giulini Kimya Sanayii A.S., Istanbul/TR
- 15:20 **Coffee Break**
- 15:50 **Corrosion fatigue of Al-Mg alloy 5052 in sodium chloride solution contains some inhibitors** (Paper 4432)
M. Shoeib, Central Metallurgical Research & Development Institute (CMRDI), Cairo/ET; Y. Barakat, K. Adwaib, Tebbin Institute for Metallurgical Studies, Cairo/ET
- 16:10 **Influence of pH and chloride concentration on the corrosion behaviour of cadmium electrode** (Paper 4457)
W.A. Ghanem, Central Metallurgical Research and Development Institute (CMRDI), Helwan/ET; W.A. Hussein, A.E. El-Shennawy, Al-Azhar University, Cairo/ET
- 16:30 **Corrosion behaviour of carbon steel in the presence of sodium dodecyl sulphate and Zn₂₊** (Paper 4510)
M. Mani, Madurai Kamaraj University, Dindigul/IND; S. Susai, Madurai Kamaraj University, Thogaimalai/IND; J. Bama, T.S. Megala, Madurai Kamaraj University, Dindigul/IND
- 16:50 **Electrochemical investigations of corrosion inhibition of Cu-Ni (90/10) alloy in sea water and sulphide-polluted sea water by 1,2,3-benzotriazole** (Paper 4681)
B.V. Appa Rao, C.K Kanukula, National Institute of Technology Warangal/IND

Tuesday, 6 September 2011

Corrosion and Scale Inhibition (WP 1)

Chair: G. Schmitt, IFINKOR, Iserlohn/D

- 10:00 **AFM studies of the thickness and mechanical resistance of corrosion inhibitor films** (Paper 1061)
Y. Xiong, Ohio University, Athens, OH/USA; A. Pailleret, University Pierre & Marie Curie, Paris/F;
B. Kinsella, S. Nestic, Ohio University, Athens, OH/USA
- 10:20 **Chemistry of the interaction betweenazole corrosion inhibitors and metal surfaces** (Paper 4897)
N. Kovacevic, A. Kokalj, Jozef Stefan Institute, Ljubljana/SLO
- 10:40 **Computational approach towards explaining the corrosion inhibition mechanism of benzotriazole on copper** (Paper 4920)
S. Peljhan, A. Kokalj, M. Finšgar, I. Milosev, Jozef Stefan Institute, Ljubljana/SLO
- 11:00 **Coffee Break**
- 11:30 **On features of structure and properties of H₂S-corrosion products on steel in volatile inhibition** (Paper 4471)
Yu.I. Kuznetsov, R. Kashkovskiy, A.N.Frumkin Institute of Physical Chemistry and Electrochemistry (RAS), Moscow/RUS; R. Vagapov, Gazprom VNIIGAZ, Moscow/RUS
- 11:50 **VCI containing package materials - mode of functioning** (Paper 4823)
S. Koehler, G. Reinhard, U. Rammelt, EXCOR Korrosionsforschung GmbH, Dresden/D
- 12:10 **Efficiency of corrosion inhibitors in a multiphase flow** (Paper 4482)
T. Vogl, S. Ehgartner, G. Mori, University of Leoben/A; W. Havlik, G. Zehethofer, OMV Exploration & Production GmbH, Gänserndorf/A
- 12:30 **Assessment of barite crystallisation in a flow cell in presence and absence of chemical treatment at different temperatures - surface analysis** (Paper 4930)
B. Tolaieb, A. Neville, University of Leeds/UK
- 12:50 **Lunchtime**
- 14:00 **The performance of anti-scalants on silica-scaling in reverse osmosis plants** (Paper 4881)
W. Hater, C. zum Kolk, BK Giuliani GmbH, Düsseldorf/D; G. Braun, J. Jaworski, Cologne University of Applied Sciences/D
- 14:20 **Combined inhibitors - a combined jar test/bubble cell** (Paper 4806)
L. Sanders, A. Neville, X. Hu, E. Mavredaki, V. Eroini, R. Barker, Leeds University/UK
- 14:40 **Inhibition effect of 3,6-bis(3-pyridyl)pyridazine derivative on corrosion of C38 carbon steel in 1 M HCl solution** (Paper 4835)
M. Lagrenée, ENSCL de Lille, Villeneuve d'Ascq/F; F. Bentiss, Chouaib Doukkali University, Eljadida/MA; M. Outirite, M. Traisnel, C. Jama, ENSCL de Lille, Villeneuve d'Ascq/F
- 15:00 **Hydrolysed silane and Ce(III) as corrosion inhibitors for carbon steel in neutral solutions** (Paper 4767)
F. Cotting, I.V. Aoki, University of São Paulo/BR
- 15:20 **Coffee Break**
- 15:50 **Corrosion inhibition of carbon steel tubing in oil wells formation water by a new family of non-ionic surfactants** (Paper 4590)
M. Migahed, Egyptian Petroleum Research Institute, Cairo/ET
- 16:10 **WP 1 Business Meeting (to 16:50)**

Wednesday, 7 September 2011

Workshop on Corrosion Inhibition in Oil & Gas (EFC WP 1 & WP 13 & NACE STG 61)

Chairs: T. Chevrot, Total S.A., Paris-La Défense/F; M. Achour, ConocoPhillips Company, Bartlesville, OK/USA

- 10:00 **Inhibitor evaluation for hot, sweet gas gathering lines from a view point of a user** (Paper 4441)
T. Sunaba, Y. Tomoe, INPEX Corporation, Tokyo/J
- 10:20 **Effect of acid flowbacks on corrosion inhibition efficiency** (Paper 4612)
M. Achour, ConocoPhillips Company, Bartlesville, OK/USA; F. Bredal, ConocoPhillips Company, Stavanger/N; D. Blumer, ConocoPhillips Company, Bartlesville, OK/USA
- 10:40 **Characterisation of the effect of oil on CO₂ corrosion inhibitor efficiency** (Paper 4798)
M. Foss, Institute for Energy Technology, Kjeller/N; J. Sjöblom, Norwegian University of Science and Technology, Trondheim/N; A. Palencsar, Institute for Energy Technology, Kjeller/N
- 11:00 **Coffee Break**
- 11:30 **Corrosion inhibition of steels in aqueous media in contact with supercritical carbon dioxide** (Paper 4717)
Yu. Zhang, K. Gao, University of Science and Technology of China, Beijing/PRC; G. Schmitt, IFINKOR, Iserlohn/D
- 11:50 **The development of a bi functional (corrosion and scale) inhibitor for oilfield application** (Paper 4576)
T.E. Pou, Arkema, Pierre Bénite/F; M. Salaun, Ceca, La Garenne Colombe/F; G. Barreto, Arkema, Pierre Bénite/F; Y. Mottot, Ceca, La Garenne Colombe/F
- 12:10 **Efficiency of volatile corrosion inhibitors in aggressive vapor space environments** (Paper 4446)
E. Lyublinski, T. Natale, Northern Technologies International Corporation, Beachwood, OH/USA; A. Altsybeeva, T. Kuzinova, OAO VNIINEFTECHIM, St. Petersburg/RUS; E. Kopylova, Lenpromtechnologies, St. Petersburg/RUS; R. Singh, ZERUST, Sao Paulo/BR; M. Schultz, Petrobras, Rio de Janeiro/BR
- 12:30 **Electrochemical study of CO₂ corrosion and inhibition in high turbulence multiphase flow using jet impingement technique** (Paper 4540)
J. Meng, Honeywell Corrosion Solutions, Houston, TX/USA
- 12:50 **Lunchtime**