

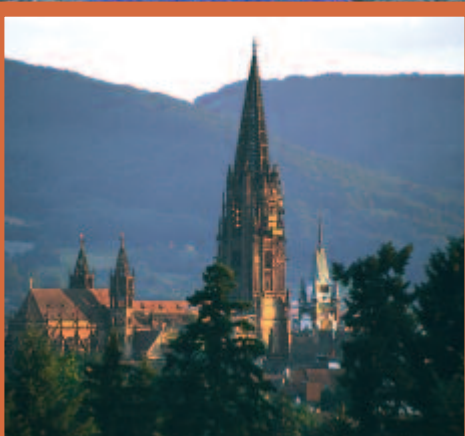


EUROCORR 2007

THE EUROPEAN CORROSION CONGRESS

Progress by Corrosion Control

www.eurocorr.org



9 – 13 September 2007

Freiburg im Breisgau · Germany

P R O G R A M M E

EUROPEAN FEDERATION OF CORROSION EVENT NO. 289



| | Page |
|---|------|
| International Scientific Committee | 4 |
| Supporting Societies | 4 |
| Organisation | 4 |
| Invitation | 5 |
| Programme at a Glance | 6 |
| Scientific Lecture Programme | 10 |
| Working Party Business Meetings | 24 |
| Scientific Poster Programme | 25 |
| Poster Award Information | 34 |
| Last-Minute Poster Submission | 34 |
| Proceedings | 34 |
| Exhibition | 34 |
| List of Exhibitors | 35 |
| Social Programme | |
| Registration and Welcome Reception | 36 |
| Poster Discussion / Poster Party | 36 |
| Conference Dinner | 36 |
| Sight-Seeing / Guided Tours | |
| Guided Mountain Bike Tour | 37 |
| Sight-Seeing Tour of Freiburg | 37 |
| Sight-Seeing Tour of Freiburg with Wine Tasting | 37 |
| Organ recital in the "Freiburger Münster" | 37 |
| General Information | |
| Congress Site | 38 |
| Congress Office | 38 |
| Congress Language | 38 |
| Registration | 38 |
| Registration Fees | 38 |
| Remittance of Fees | 39 |
| Cancellation and Refunds | 39 |
| Lunch | 39 |
| Visa Formalities | 39 |
| Insurance | 39 |
| Accompanying Persons – Meeting Point | 39 |
| Accommodation | 40 |
| City of Freiburg | 40 |
| How to reach Freiburg | 40 |
| Further Sight-Seeing Information | 41 |

COMMITTEES

International Scientific Committee

Chairman:

Bernd Isecke GfKORR President, Federal Institute for Materials Research and Testing, Berlin/D

Co-Chairmen:

Michael Schütze EFC President, DECHEMA e.V., Frankfurt am Main/D

Jörg-Alfred Vogelsang EFC STAC Chairman, SIKA Technology AG, Zurich/CH

Scientific Committee

| | |
|---------------------------|--|
| Jean-Pierre Celis | Katholieke Universiteit Leuven/B |
| Robert Cottis | The University of Manchester/UK |
| Lorenzo Fedrizzi | University of Udine/I |
| Damien Féron | Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F |
| Gerald Frankel | The Ohio State University, Columbus, OH/USA |
| Rolf Gubner | Corrosion and Metals Research Institute, Stockholm/S |
| Fouzia Hannour | Corus Research, Development & Technology, Ijmuiden/NL |
| Satoshi Ito | Nippon Steel Chemical Co. Ltd., Tokyo/J |
| Renate Kilian | AREVA NP GmbH, Erlangen/D |
| Ulf Kivisäkk | AB Sandvik Materials Technology, Sandviken/S |
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| Rudolf Morach | Ciba Spezialitätenchemie AG, Basel/CH |
| Jean-Marc Olive | University of Bordeaux 1, Talence/F and National Institute of Advanced Industrial Science and Technology, Kyushu-Fukuoka/J |
| Stein Olsen | Statoil Research Centre, Trondheim/N |
| Michael Raupach | RWTH Aachen/D |
| Zhen-Duo Ren | General Secretary of China Industry Anticorrosion Technology Association, Beijing/PRC |
| Marcel Roche | TOTAL S.A., Paris-La Défense/F |
| Francois Ropital | Institut Français du Pétrole, Vernaison/F |
| Günter Schmitt | Iserlohn University of Applied Sciences/D |
| Tooru Tsuru | Tokyo Institute of Technology/J |
| David Webster | NACE International President, Colt Engineering Corporation, Calgary/CDN |

Supporting Societies

DEV – Deutscher Email Verband e.V., Hagen/D
DGO – Deutsche Gesellschaft für Galvano- und Oberflächentechnik e.V., Hilden/D
DFO – Deutsche Forschungsgesellschaft für Oberflächenbehandlung e.V., Neuss/D
DVGW – Deutsche Vereinigung des Gas- und Wasserfaches e.V., Bonn/D
DVS-FV – Forschungsvereinigung Schweißen und verwandte Verfahren e.V. des DVS, Düsseldorf/D
FGK – Forschungsgesellschaft Kunststoffe e.V., Darmstadt/D
FEM – Forschungsinstitut für Edelmetalle und Metallchemie, Schwäbisch Gmünd/D
FPL – Forschungsinstitut für Pigmente und Lacke e.V., Stuttgart/D
GAV – Gemeinschaftsausschuss Verzinken e.V., Düsseldorf/D
FOSTA – Forschungsvereinigung Stahlanwendung e.V., Düsseldorf/D
Stahlinstitut VDEh, Düsseldorf/D

Organisation

| | |
|--------------------------|--------------------------------------|
| Ines Honndorf | EFC Secretariat, Frankfurt am Main/D |
| Andrea Köhl | DECHEMA e.V., Frankfurt am Main/D |
| Willi Meier | DECHEMA e.V., Frankfurt am Main/D |
| Christa Steinmetz | GfKORR e.V., Frankfurt am Main/D |
| Till Weber | GfKORR e.V., Frankfurt am Main/D |

Corrosion has a huge economic impact, virtually all areas of our daily life are more or less affected. Extensive studies have recently confirmed that the cost of corrosion amounts to 3 – 4% of the gross domestic product of industrialised countries. Thus, there is a huge potential for improving the reliability, efficiency and safety of buildings, plants and infrastructure, electronics and heavy machinery by corrosion control and protection measures.

Consequently, 'Progress by Corrosion Control' is the motto of EUROCORR 2007, the foremost annual event of the EFC – European Federation of Corrosion. EUROCORR is Europe's largest and most outstanding corrosion forum where corrosion experts from industry and academia from all over the world meet and exchange their knowledge and experience. The latest research results will be presented and discussed in sessions covering virtually all fields of corrosion including topics of prime industrial importance.

The congress will be accompanied by an exhibition at which companies, research institutes and organisations will present their products, services and activities.

The sessions and the exhibition provide excellent opportunities to learn more about corrosion and corrosion protection, to obtain the latest information about recent developments, to get in contact with corrosion experts and to find cooperation partners and customers.

EUROCORR simply gives you the chance for networking at its best. The GfKORR – Society for Corrosion Protection and DECHEMA – Society for Chemical Engineering and Biotechnology will host EUROCORR 2007 and would like to welcome you to the beautiful city of Freiburg on the western foothills of the famous Black Forest.

Bernd Isecke

GfKORR President, Federal Institute for
Materials Research and Testing, Berlin/D

Michael Schütze

EFC President, DECHEMA e.V.,
Frankfurt am Main/D

Jörg-Alfred Vogelsang

EFC STAC Chairman,
SIKA Technology AG, Zurich/CH



PROGRAMME AT A GLANCE

Sunday, 9 September 2007

16:30-19:00 REGISTRATION AND WELCOME RECEPTION

Monday, 10 September 2007

| | | | | |
|-------------|--|--------------------------------------|---|--------------------------------------|
| 09:00-09:20 | OPENING SESSION | | | |
| 09:20-09:30 | WELCOME ADDRESS: Representative of the City of Freiburg | | | |
| 09:30-09:45 | EFC MEDAL AWARD PRESENTATION | | | |
| 09:45-10:30 | INVITED PLENARY LECTURE: R. Schmidt/D | | | |
| 10:30-11:00 | Coffee Break | | | |
| | (page 10) | (page 10) | (page 11) | (page 11) |
| | Session M: Coatings | Workshop: High Temperature | Workshop: Stress Corrosion Cracking | Session E: Surface Science |
| Chair: | Fedrizzi/I | Schütze/D | Kilian/D; Van Dyck/B | Marcus/F |
| 11:00-11:25 | Boelen/NL | John, TX/USA | Norring/S | Refait/F |
| 11:25-11:50 | Roche/F | Østergård/DK | Rauf/B | Sathirachinda/S |
| 11:50-12:15 | Battocchi ND/USA | Kirchheiner/D | Laghoutaris/F | Scholl/PL |
| | | | | 12:15-12:40 Öhman/S |
| 12:15-14:00 | Lunchtime | | | |
| 14:00-14:25 | Harm/D | Cabet/F | Fairweather/UK | Markley/AUS |
| 14:25-14:50 | Tepe/UK | Al-Rabie/SAR | Novotny/NL | Montemor/P |
| | | | Session C: Nuclear Corrosion | |
| | | | Féron/F | |
| 14:50-15:15 | Björgum/N | Trindade/D | Saheb/F | Neil/AUS |
| 15:15-15:40 | Gergely/H | Avram/RO | Monnier/F | Raja/IND |
| 15:40-16:10 | Coffee Break | | | |
| 16:10-16:35 | Mills/UK | Pajonk/D | | Joska/CZ |
| 16:35-17:00 | Benfer/D | Jepson/UK | | Howlett/AUS |
| 17:00-19:30 | Poster Discussion / Poster Party with Beer and Pretzel | | | |

Tuesday, 11 September 2007

| | | | | |
|-------------|--|--------------------------------------|--|---------------------------------------|
| 09:00-09:45 | INVITED PLENARY LECTURE: K.-H. Stellnberger/A | | | |
| 09:45-09:50 | Break for Changing the Lecture Hall | | | |
| | (page 14) | (page 14) | (page 15) | (page 15) |
| | Session M: Coatings | Workshop: High Temperature | Workshop: Nuclear Systems | Session A: Scale Inhibition |
| Chair: | Fedrizzi/I | Schütze/D | Molander/S; Ritter/CH | Schmitt/D |
| 09:50-10:15 | Andreatta/I | Kleingries/D | Cottis/UK | Lagrenée/F |
| 10:15-10:40 | Castro/E | Huczowski/D | Bennett/N | Traisnel/F |
| 10:40-11:10 | Coffee Break | | | |
| 11:10-11:35 | Feil/D | Ani/J | Lai/RC | Machio/ZA |
| 11:35-12:00 | Orel/SLO | Durham/D | Bosch/B | Bakalli/D |
| 12:00-12:25 | Voisey/UK | Overbeck/D | Zhang/UK | Gace/AL |
| 12:25-14:00 | Lunchtime | | | |
| 14:00-14:25 | Sumon/UK | Maffert/D; Pauly/F | Molander/S | Hörstemeier/D |
| 14:25-14:50 | Dwars/D | Ravi CA/USA | Uchida/J | Telegdi/H |
| 14:50-15:15 | Lekka/I | Latreche/D | Bataillon/F | Pilbáth/H |
| 15:15-15:40 | Zanella/I | Zurek/PL | Somogyi/H | Motte/B |
| 15:40-16:10 | Coffee Break | | | |
| | | | Session C: Nuclear Corrosion | |
| Chair: | | | Féron/F | |
| 16:10-16:35 | Zein El Abedin/D | Boukis/D | Hall PA/USA | Alagta/H |
| 16:35-17:00 | Wilcox/UK | Mabbutt/UK | Benamati/I | Salasi/IR |
| 17:00-17:25 | Pokhmurska/D | | | Allahkaram/IR |
| 17:25-17:50 | | | | |

Sunday, 9 September 2007

16:30-19:00

Monday, 10 September 2007

09:00-09:20

09:20-09:30

09:30-09:45

09:45-10:30

10:30-11:00

| (page 12) | (page 12) | (page 13) | (page 13) | |
|---|--|---|--|---------------|
| Session J: Microbial Corrosion | Session G: Physico-Chemical Methods | Joint Workshop: Cathodic Protection for Marine and Offshore Environments | Joint NACE/ EFC Workshop: Operators Views | |
| <i>Gubner/S</i> | <i>Mol/NL</i> | <i>Kivisäkk/S; Roche/F; Olsen/N</i> | <i>Webster/CDN</i> | <i>Chair:</i> |
| Mehanna/F | Kempf/F | Johnsen/N | Cassagne/F | 11:00-11:25 |
| Busalmen/RA | Davoodi/S | Francis/UK | Martin/UK | 11:25-11:50 |
| Landoulsi/F | Nakayama/J | Ronneteg/S | Thompson TX/USA | 11:50-12:15 |
| | | | | |
| | | | | 12:15-14:00 |
| Stadler/D | Ruhlig/D | Smirnova/N | Nice/N | 14:00-14:25 |
| Salama/ET | Virtanen/D | Lauvstad/N | Achour OK/USA | 14:25-14:50 |
| | | | | |
| Chiang/DK | Kinsella/AUS | Busalmen/RA | Andersen/N | 14:50-15:15 |
| Juraga/HR | Kozaderow/RUS | | Rippon/NL | 15:15-15:40 |
| | | | | 15:40-16:10 |
| Al-Buraiki/SAR | Martin/E | | Olsen/N | 16:10-16:35 |
| Al-Ridy/SAR | Hempsch/D | | General discussion | 16:35-17:00 |
| | | | | 17:00-19:30 |

Tuesday, 11 September 2007

09:00-09:45

09:45-09:50

| (page 16) | (page 16) | (page 17) | (page 17) | |
|-----------------------------------|--|---|--|---------------|
| Session L: Oil and Gas | Session G: Physico-Chemical Methods | Workshop: Bio-Tribocorrosion | Session P: Automotive Corrosion | |
| <i>Olsen/N</i> | <i>Mol/NL</i> | <i>Mischler/CH; Ponthiaux/F</i> | <i>Hannour/NL</i> | <i>Chair:</i> |
| Sherik/SAR | Schäfer/D | Jellesen/DK | Hosking/UK | 09:50-10:15 |
| Vjunitsky/RUS | Hansen/DK | Pagny/F | Ly/F | 10:15-10:40 |
| | | | | 10:40-11:10 |
| Kane TX/USA | Sakairi/J | Perret/CH | Hoffmann/D | 11:10-11:35 |
| Zavala Olivares/MEX | Rauf/B | Deforge/F | LeBozec/F | 11:35-12:00 |
| Clements/UK | Linhardt/A | Stojadinovic/CH | Eliezer/IL | 12:00-12:25 |
| | | | | 12:25-14:00 |
| Remita/F | Trasatti/I | Basak/B | Montemor/P | 14:00-14:25 |
| Amaya/J | Zhan/NL | Sawae/J | Ben-Hamu/IL | 14:25-14:50 |
| Holdefer/D | Abd El Meguid/ET | Igual/E | van Ooij OH/USA | 14:50-15:15 |
| Smanio-Renaud/F | | Stack/UK | Williams/UK | 15:15-15:40 |
| | | | | 15:40-16:10 |
| | | <i>Stack/UK; Rocha/P</i> | | <i>Chair:</i> |
| Kittel/F | | Haber/A | Nitschke/D | 16:10-16:35 |
| Cancio/RA | | Boinet/F | Krusche/D | 16:35-17:00 |
| Shoeb/ET | | Fushimi/J | Rendahl/S | 17:00-17:25 |
| Achour OK/USA | | | | 17:25-17:50 |

Programme subject to change.

PROGRAMME AT A GLANCE

Wednesday, 12 September 2007

| | | | | |
|-------------|--|--------------------------------|--|---------------------------------------|
| 09:00-09:45 | INVITED PLENARY LECTURE: F. Ropital/F | | | |
| 09:45-09:50 | Break for Changing the Lecture Hall | | | |
| | (page 18) | (page 18) | (page 19) | (page 19) |
| | Workshop: Self Healing | Session B: Hot Gases | Workshop: COST 533/Eureka-ENIWEF | Session H: Marine Corrosion |
| Chair: | Fedrizzi/I; Schmitt/D | M. Schütze/D | Igartua/E; Fischer/D | Kivisäkk/S |
| 09:50-10:15 | Vogelsang/CH | Montgomery/DK | Vignal/F | Ito/J |
| 10:15-10:40 | Montemor/P | Coleman/UK | Pielichowski/PL | Almarshad/SAR |
| 10:40-11:10 | Coffee Break | | | |
| 11:10-11:35 | Barranco/E | Berreth/D | Galo/P | Masuda/J |
| 11:35-12:00 | Trueba Urra/I | Ruh/D, cancelled | Zdravecká/SK | Langer/D |
| 12:00-12:25 | Kron/D | Foletti/I | Muñoz/E | Lohmann/D |
| 12:25-14:00 | Lunchtime | | | |
| | | | Short Course: Bio-Tribocorrosion | |
| Chair: | | | Celis/B | |
| 14:00-14:25 | Kittel/F | Cabouro/F | Fischer/D | Jafarzadeh/IR |
| 14:25-14:50 | Durán/E | Marginean/D | Mathew/P | Debout/F |
| 14:50-15:15 | Balaskas/GR | Amano/J | Stack/UK | Lahodny-Sarc/HR |
| 15:15-15:40 | Ogawa/J | Taniguchi/J | Rocha/P | Powell/UK |
| 15:40-16:10 | Coffee Break | | | |
| Chair: | | | Mischler/CH | |
| 16:10-16:35 | Zin/UA | Chapovaloff/F | Ponthiaux/F | Plagemann/D |
| Chair: | | | | |
| 16:35-17:00 | Santos/BR | Gurrappa/UK | Mischler/CH | Nishimura/J |
| 17:00-17:25 | Sánchez-Amaya/E | Yoshihara/J | Fischer/D | Schleich/D |
| 20:00-24:00 | Conference Dinner at „Historisches Kaufhaus“ | | | |

Thursday, 13 September 2007

| | | | | |
|-------------|---|---|-------------------------------------|--|
| 09:30-10:15 | INVITED PLENARY LECTURE: B. Elsener/CH | | | |
| 10:15-10:20 | Break for Changing the Lecture Hall | | | |
| | (page 22) | (page 22) | (page 23) | (page 23) |
| | Session D: Environment Sensitive Fracture | Workshop: Drinking Water | Workshop: Heat Exchangers | Session O: Cathodic Protection |
| Chair: | C. Fleck/D; A. Turnbull/UK | Erning/D | Kivisäkk/S; Olsen/N | Roche/F |
| 10:20-10:45 | Asher GA/USA, cancelled | Elkoum/LAR | Alves/D | Roche/F |
| 10:45-11:10 | Sanders/D | Merkel/D | Francis/UK | |
| 11:10-11:35 | Coffee Break | | | |
| 11:35-12:00 | Vynar/UA | Mikó/D | Festy/F | Vjunitsky/RUS |
| 12:00-12:25 | Turnbull/UK | Carpen/FIN | Kivisäkk/S | Büchler/CH |
| 12:25-12:50 | Acuña/MEX | Reyes/RCH | Hazeldine WV/USA, cancelled | Ibrahim/F |
| 12:50-14:00 | Lunchtime | | | |
| 14:00-14:25 | Holzleitner/A, cancelled | Erning/D | | Lazzari/I |
| 14:25-14:50 | Iversen/S | Inauguration meeting of a Working Party: Corrosion in Drinking Water Systems | | Oliveira/BR |
| 14:50-15:15 | Fleck/D | | | Lukacs/H |
| 15:15-15:20 | Break for Changing the Lecture Hall | | | |
| 15:20-15:40 | Closing Remarks | | | |
| 15:40 | End of Scientific Programme | | | |

Wednesday, 12 September 2007

| | | | | | |
|--|---|---|--|---|---------------|
| | | | | | 09:00-09:45 |
| | | | | | 09:45-09:50 |
| | (page 20) | (page 20) | (page 21) | (page 21) | |
| | Session L: Oil and Gas | Session N: Refinery Industry | Joint Session: Cathodic Protection of Steel in Concrete | Session R: Polymer Materials | |
| | <i>Olsen/N</i> | <i>Ropital/F</i> | <i>Raupach/D; Roche/F</i> | <i>Morach/CH</i> | <i>Chair:</i> |
| | Gao/PRC | Meck IN/USA | Mork/N | Szklarz/CDN | 09:50-10:15 |
| | Neshati/IR | Hucińska/PL | Elaish/LAR | | 10:15-10:40 |
| | | | | | 10:40-11:10 |
| | Che Ismail/MAL | Groysman/IL | Wenk/CH | Kappenstein/D | 11:10-11:35 |
| | Turgoose/UK | Kane TX/USA | Bourcy/B | Valdez Vallejo/MAL | 11:35-12:00 |
| | Labbat/IR | Romero Ramirez/UK | Elkoum/LAR | Biressi/I | 12:00-12:25 |
| | | | | | 12:25-14:00 |
| | | | | | <i>Chair:</i> |
| | Bargmann/UK | Srinivasan TX/USA | Eichler/D | Potthoff/D | 14:00-14:25 |
| | Joint Session: Inhibition in Oil & Gas | | | | |
| | <i>Olsen/N</i> | | | | |
| | Tsygankova/RUS | Candido/BR | Peelen/NL | Pongratz/D | 14:25-14:50 |
| | Wining/UK | Jambo/BR | Polder/NL | Wüst/D | 14:50-15:15 |
| | Nyborg/N | Askari/IR | Godson/AUS | Brüll/D | 15:15-15:40 |
| | | | | | 15:40-16:10 |
| | | | | | <i>Chair:</i> |
| | Abdel Ghany/ET | Eaton TX/USA | Schwarz/A | Eriksson/S | 16:10-16:35 |
| | | Petroleum Refining | | | |
| | | <i>Ropital/F</i> | | | <i>Chair:</i> |
| | | Claesen/B | Nerland/N | Schüßler/CH | 16:35-17:00 |
| | | Bobillon/D | Raupach/D | | 17:00-17:25 |
| | | | | | 20:00-24:00 |

Thursday, 13 September 2007

| | | | | | |
|--|---|--|--|--|---------------|
| | | | | | 09:30-10:15 |
| | | | | | 10:15-10:20 |
| | (page 24) | | | | |
| | Session K: Steel in Concrete | | | | |
| | <i>Raupach/D</i> | | | | <i>Chair:</i> |
| | Schiegg/CH | | | | 10:20-10:45 |
| | L'Hostis/F | | | | 10:45-11:10 |
| | | | | | 11:10-11:35 |
| | Beck/D | | | | 11:35-12:00 |
| | Vennesland/N | | | | 12:00-12:25 |
| | Harnisch/D | | | | 12:25-12:50 |
| | | | | | 12:50-14:00 |
| | Gulikers/NL | | | | 14:00-14:25 |
| | Loto/WAN | | | | 14:25-14:50 |
| | Tong/F | | | | 14:50-15:15 |
| | | | | | 15:15-15:20 |
| | | | | | 15:20-15:40 |
| | | | | | 15:40 |

SCIENTIFIC LECTURE PROGRAMME

Monday, 10 September 2007

| | | | |
|-------------|--|---|-------------|
| 09:00-09:20 | OPENING SESSION B. Isecke, Federal Institute for Materials Research and Testing, Berlin/D; M. Schütze, DECHEMA e.V., Frankfurt am Main/D; J.A. Vogelsang, Sika Technology AG, Zurich/CH | | 09:00-09:20 |
| 09:20-09:30 | WELCOME ADDRESS: Representative of the City of Freiburg | | 09:20-09:30 |
| 09:30-09:45 | EFC MEDAL AWARD PRESENTATION Award Winner: E. Kálmán, Hungarian Academy of Sciences, Budapest/H | | 09:30-09:45 |
| 09:45-10:30 | INVITED PLENARY LECTURE Environmental legislation: influence on coating materials and coating processes for the corrosion protection of steel structures R. Schmidt, Forschungsinstitut für Pigmente und Lacke e.V., Stuttgart/D | | 09:45-10:30 |
| 10:30-11:00 | Coffee Break | | 10:30-11:00 |
| | Session M: Coatings | Workshop: High Temperature Corrosion in the Chemical, Refinery and Petrochemical Industries | |
| | Chair: L. Fedrizzi, University of Udine/I | M. Schütze, DECHEMA e.V., Frankfurt am Main/D | Chair: |
| 11:00-11:25 | Influence of uni-axial, plane strain, and biaxial deformation on product performance of pre-coated steels, explained by EIS measurements B. Boelen, A. Vooyo, H. den Hartog, Corus RD&T, IJmuiden/NL; H. de Wit, Delft University of Technology/NL | Keynote High temperature corrosion in the petroleum refining and petrochemical industries - potential types of corrosion and assessing engineering lifetimes R.C. John, Shell Global Solutions (US) Inc., Houston, TX/USA | 11:00-11:25 |
| 11:25-11:50 | New organic coatings containing block copolymers for corrosion protection of steel and aluminium V. Roche, F. Vacandio, D. Bertin, D. Gignes, Université de Provence, Marseille/F | Keynote Metal dusting, sulphidation and creep: three degradation challenges in the process industry M.J.L. Østergård, S.G. Thomsen, C.C. Appel, Haldor Topsøe A/S, Lyngby/DK | 11:25-11:50 |
| 11:50-12:15 | The use of magnesium alloys in Mg-rich primers H. Xu, D. Battocchi, D. Tallman, G. Bierwagen, North Dakota State University, Fargo, ND/USA | Analysis and identification of catalytical surface reactions on Al-bearing Ni-base alloys R. Kirchheiner, Schmidt + Clemens GmbH & Co. KG, Lindlar/D | 11:50-12:15 |
| 12:15-14:00 | Lunchtime | | 12:15-14:00 |
| 14:00-14:25 | Novel protective coatings for steel based on a combination of self-assembled monolayers and conducting polymers U. Harm, K.-M. Mangold, W. Fürbeth, K. Jüttner, DECHEMA e.V., Frankfurt am Main/D | Carburization of nickel base alloys under diluted impure helium containing methane C. Cabet, B. Duprey, F. Thieblemont, A. Thomazic, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F | 14:00-14:25 |
| 14:25-14:50 | Pre-treatment processes correlation for HRS (Hot Rolled Steel) in powder coating B. Tepe, University of Ulster, Antrim/UK | Stress corrosion cracking in carbon monodioxide environments M. Al-Rabie, A. Babakr, S. Al-Subai, Saudi Basic Industries Corporation, Jubail/SAR | 14:25-14:50 |
| 14:50-15:15 | Bare steel maintenance offshore – effect of different mechanical pre-treatment methods A.J. Bjørgum, O.Ø. Knudsen, A.-K. Kvernbråten, SINTEF Materials and Chemistry, Trondheim/N; R. Johnsen, Norwegian University of Science and Technology, Trondheim/N | Characterizing the carburization of ethylene pyrolysis tubes by means of non-destructive magnetic measurements and thermodynamic calculations V. Trindade, University of Siegen/D; I.C. Silva, Federal University of Rio de Janeiro/BR; B. Gorr, University of Siegen/D; R.S. Silva, J.M.A. Rebello, Federal University of Rio de Janeiro/BR; A.C. Bruno, Pontifícia Universidade Católica do Rio de Janeiro/BR; H.-J. Christ, University of Siegen/D | 14:50-15:15 |
| 15:15-15:40 | On the applications of carbon nanotubes in corrosion protecting coatings A. Gergely, E. Kálmán, Hungarian Academy of Sciences, Budapest/H | Corrosive action of natural gases upon the check rot and ducts' equipment L. Avram, F. Manea, C. Manea, M. Stoica, Petroleum Gas-University, Ploiesti/RO | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | Investigation into environmental degradation of organic coatings using novel techniques D.J. Mills, S.S. Donoghue, University of Northampton/UK | Chimneys and flue liners – are all problems solved using stainless steels? G. Pajonk, Institute for Materials Testing of Northrhine-Westfalia, Dortmund/D | 16:10-16:35 |
| 16:35-17:00 | Nanoparticle based coatings as repair layers for technical enamels S. Benfer, W. Fürbeth, M. Schütze, DECHEMA e.V., Frankfurt am Main/D | Oxidation of stainless steels during simulated reheat M.A.E. Jepson, R.L. Higginson, Loughborough University/UK | 16:35-17:00 |
| 17:00-19:30 | Poster Discussion / Poster Party with Beer and Pretzel | | 17:00-19:30 |

Monday, 10 September 2007

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| 09:00-09:20 | OPENING SESSION B. Isecke, Federal Institute for Materials Research and Testing, Berlin/D; M. Schütze, DECHEMA e.V., Frankfurt am Main/D; J.A. Vogelsang, Sika Technology AG, Zurich/CH | | 09:00-09:20 |
| 09:20-09:30 | WELCOME ADDRESS: Representative of the City of Freiburg | | 09:20-09:30 |
| 09:30-09:45 | EFC MEDAL AWARD PRESENTATION Award Winner: E. Kálmán, Hungarian Academy of Sciences, Budapest/H | | 09:30-09:45 |
| 09:45-10:30 | INVITED PLENARY LECTURE Environmental legislation: influence on coating materials and coating processes for the corrosion protection of steel structures R. Schmidt, Forschungsinstitut für Pigmente und Lacke e.V., Stuttgart/D | | 09:45-10:30 |
| 10:30-11:00 | Coffee Break | | 10:30-11:00 |
| | Workshop: Initiation of Stress Corrosion Cracking in Nuclear Power Plants | Session E: Surface Science | |
| | <i>Chair:</i> R. Kilian, AREVA NP GmbH, Erlangen/D; S. Van Dyck, Belgian Nuclear Research Centre, Mol/B | P. Marcus, École Nationale Supérieure de Chimie de Paris/F | <i>Chair:</i> |
| 11:00-11:25 | Initiation of PWSCC in nickel base alloys in primary PWR environment – overview of efforts at Studsvik since mid 1980s K. Noring, Studsvik Nuclear AB, Nyköping/S; J. Engström, Vattenfall Power Consultant, Stockholm/S | Effects of phosphate species on localised corrosion of steel in NaHCO₃ + NaCl electrolytes M. Reffass, R. Sabot, M. Jeannin, C. Berziou, P. Refait, Université de La Rochelle/F | 11:00-11:25 |
| 11:25-11:50 | Implementation of the EFM (electrochemical frequency modulation) technique over stress corrosion cracking (SCC) A. Rauf, Katholieke Universiteit Leuven/B | The application of atomic force microscopy / scanning kelvin probe force microscopy for characterization of precipitates of duplex stainless steels N. Sathirachinda, R. Gubner, Corrosion and Metals Research Institute, Stockholm/S | 11:25-11:50 |
| 11:50-12:15 | Stress corrosion cracking mechanisms of alloy 600 in PWR primary water P. Laghoutaris, J. Chene, C. Guerre, O. Raquet, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F; M. Sennour, R. Molins, École des Mines de Paris, Evry/F; F. Vaillant, EDF R&D Renardières, Moret-sur-Loing/F; P. Scott, AREVA, Paris-La Défense/F | Corrosion measurements of Rex 734 and Panacea P558 alloys in 0.5 M H₂SO₄ and 0.5 M NaCl solutions H. Scholl, T. Blaszczyk, A. Leniart, B. Burnat, I. Piwonski, University of Lodz/PL | 11:50-12:15 |
| | | In situ studies of metal/polymer interfaces upon exposure to bulk electrolyte solutions by combined FTIR-ATR and EIS M. Öhman, D. Persson, Corrosion and Metals Research Institute, Stockholm/S | 12:15-12:40 |
| 12:15-14:00 | Lunchtime | | 12:40-14:00 |
| 14:00-14:25 | A systematic investigation of the effect of humidity, temperature, sensitisation, chloride dosing and applied stress on the initiation of stress-corrosion cracking on type 304 stainless steel N. Fairweather, D. Tice, Serco Assurance, Warrington/UK | Rare earth diphenyl phosphates as corrosion inhibitors for aluminium alloys: an electrochemical and surface interaction study T. Markley, M. Forsyth, Monash University, Clayton/AUS; A. Hughes, CSIRO Manufacturing & Materials Technology, Clayton/AUS; G. van Reissen, Latrobe University, Bundoora/AUS | 14:00-14:25 |
| 14:25-14:50 | Corrosion properties of cold worked type 304 stainless steel in SCW conditions R. Novotny, L. Debarberis, A. Zeman, JRC-Institute for Energy Petten/NL; J. Macak, Institute of Chemical Technology Prague/CZ; J. Degmova, JRC-Institute for Energy Petten/NL; P. Sajdl, Institute of Chemical Technology Prague/CZ | Characterization of rare-earth conversion films formed on the AZ31 magnesium alloy and its relation with corrosion protection F. Montemor, A. Simões, Instituto Superior Técnico, Lisbon/P; M.J. Carmezim, Instituto Politécnico de Setúbal/P | 14:25-14:50 |
| | Session C: Nuclear Corrosion | | |
| | <i>Chair:</i> D. Féron, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F | | |
| 14:50-15:15 | Long-term corrosion behaviour of low carbon steel in anoxic soils M. Saheb, D. Neff, P. Dillmann, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F | Novel ionic liquid corrosion-resistant coatings for magnesium W.C. Neil, P.C. Howlett, M. Forsyth, Monash University, Clayton/AUS; B.R.W. Hinton, Defence Science and Technology Organisation, Melbourne/AUS | 14:50-15:15 |
| 15:15-15:40 | The long term atmospheric corrosion of iron: influence of constitutive phases of the corrosion layers J. Monnier, D. Neff, P. Dillmann, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F; I. Guillot, Université Paris 12, Vitry-sur-Seine/F | Effect of molybdenum on phase formation and corrosion behaviour of plasma immersion nitrogen ion implanted austenitic stainless steel P. Saravanan, V.S. Raja, Indian Institute of Technology, Mumbai/IND | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | | Corrosion properties of binary titanium alloys L. Joska, M. Poddana, Institute of Chemical Technology Prague/CZ | 16:10-16:35 |
| 16:35-17:00 | | Characterisation of ionic liquid generated coatings on reactive metals: composition, morphology and transport properties P.C. Howlett, M. Forsyth, D.R. MacFarlane, Monash University, Melbourne/AUS | 16:35-17:00 |
| 17:00-19:30 | Poster Discussion / Poster Party with Beer and Pretzel | | 17:00-19:30 |

SCIENTIFIC LECTURE PROGRAMME

Monday, 10 September 2007

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|-------------|---|--|-------------|
| 09:00-09:20 | OPENING SESSION | | 09:00-09:20 |
| | B. Isecke, Federal Institute for Materials Research and Testing, Berlin/D; M. Schütze, DECHEMA e.V., Frankfurt am Main/D; J.A. Vogelsang, Sika Technology AG, Zurich/CH | | |
| 09:20-09:30 | WELCOME ADDRESS: Representative of the City of Freiburg | | 09:20-09:30 |
| 09:30-09:45 | EFC MEDAL AWARD PRESENTATION | | 09:30-09:45 |
| | Award Winner: E. Kálmán, Hungarian Academy of Sciences, Budapest/H | | |
| 09:45-10:30 | INVITED PLENARY LECTURE | | 09:45-10:30 |
| | Environmental legislation: influence on coating materials and coating processes for the corrosion protection of steel structures R. Schmidt, Forschungsinstitut für Pigmente und Lacke e.V., Stuttgart/D | | |
| 10:30-11:00 | Coffee Break | | 10:30-11:00 |
| | Session J: Microbial Corrosion | Session G: Physico-Chemical Methods of Corrosion Testing | |
| Chair: | R. Gubner, Corrosion and Metals Research Institute, Stockholm/S | J.M.C. Mol, Delft University of Technology/NL | Chair: |
| 11:00-11:25 | Possible role of geobacter sulfurreducens in anaerobic corrosion of steels M. Mehanna, R. Basseguy, M.-L. Delia, A. Bergel, Le Laboratoire de Génie Chimique, Toulouse/F | How do strain and microstructure direct oxide growth on the nano- and microscale? D. Kempf, V. Vignal, Université de Bourgogne, Dijon/F; S. Virtanen, University of Erlangen-Nuremberg, Erlangen/D | 11:00-11:25 |
| 11:25-11:50 | Growth, metabolic state and catalase activity of <i>P. fluorescens</i> biofilms as related to microbiologically influenced corrosion of copper F.B. Duville, D. Nercessian, J.P. Busalmen, Universidad Nacional de Mar del Plata/RA | Understanding localized corrosion of aluminum alloys by AFM, SECM and SKPFM A. Davoodi, J. Pan, C. Leygraf, Royal Institute of Technology, Stockholm/S; S. Norgren, Sapa Technology, Finspang/S | 11:25-11:50 |
| 11:50-12:15 | Electrochemical behaviour of stainless steel in artificial fresh water: study of coupled enzymatic reactions in aerobic MIC J. Landoulsi, S. Pulvin, C. Richard, Université de Technologie de Compiègne/F; R. Sabot, Université de La Rochelle/F | Investigations on the local electrochemical behavior of welded stainless steels with solution flow type micro-droplet cell T. Nakayama, M. Sakairi, K. Fushimi, Hokkaido University, Sapporo/J; S. Hashizume, TenarisNKK Tubes, Kawasaki/J | 11:50-12:15 |
| 12:15-14:00 | Lunchtime | | 12:15-14:00 |
| 14:00-14:25 | Novel corrosion protection by microbial extracellular polymeric substances (biofilm induced corrosion inhibition) R. Stadler, W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D; K. Harneit, M. Grooters, M. Wöllbrink, W. Sand, University of Duisburg-Essen, Duisburg/D | High resolution corrosion monitoring of NiTi based shape memory alloys by a combination of alternating current scanning electrochemical microscopy (AC-SECM) and detection of locally released ions (SM-SECM) D. Ruhlig, W. Schuhmann, Ruhr-Universität Bochum/D | 14:00-14:25 |
| 14:25-14:50 | Effect of surface activity of some novel picolinium alkyl bromides on microbial induced corrosion M.A. Salama, Petroleum Research Institute, Cairo/ET; M.S. El-Basiouny, Cairo University/ET; H.I. Roushdy, Gulf of Suez Petroleum Co., Cairo/ET | Corrosion behavior of biodegradable Mg alloys in simulated body environments S. Virtanen, R. Rettig, University of Erlangen-Nuremberg, Erlangen/D | 14:25-14:50 |
| 14:50-15:15 | Electrochemical properties and effects of new bacterial inhibiting surfaces in water W. Chiang, L. Hilbert, C. Corfitzen, H. Albrechtsen, P. Moller, Technical University of Denmark, Lyngby/DK | New approaches to detect sensitized zones in austenitic and supermartensitic 13 % Cr stainless steels T. Ladwein, J. Maier, Aalen University of Applied Sciences/D; B. Kinsella, H. Yan Liang, Curtin University of Technology, Perth/AUS; S. Huizinga, M. Wilms, Shell Global Solutions, Amsterdam/NL | 14:50-15:15 |
| 15:15-15:40 | Microbial pitting corrosion of stainless steel weldments in fresh water systems I. Juraga, University of Zagreb/HR; I. Esih, Croatia Society for Materials Protection, Zagreb/HR; I. Mijatovic, V. Simunovic, I. Stojanovic, University of Zagreb/HR | Non-stationary solid-phase diffusion at anodic selective dissolution of homogeneous Ag-Au, Cu-Au and Zn-Ag alloys O.A. Kozaderov, A.V. Vvedenskii, Voronezh State University/RUS | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | Failure of fin fan cooler tubes due to MIC at crude oil stabilizer plants (case study) M. Al-Barout, I. Al-Buraiki, Saudi Aramco Oil Company, Dhahran/SAR | Application of an electrochemical microcell to study pitting corrosion of welded joints of austenitic stainless steels F. Martin, C. Garcia, University of Valladolid/E | 16:10-16:35 |
| 16:35-17:00 | Microbiologically-influenced corrosion (MIC) of (Cu-Ni)-seal flush water GOSP's in-plant piping (case study) M. Al-Ridy, Saudi Aramco Oil Company, Dhahran/SAR | Advances in assessing the susceptibility to intergranular corrosion of duplex stainless steels via electrochemical reactivation testing (ERT) A. Hemptsch, RWTH Aachen/D; G. Schmitt, Iserlohn University of Applied Sciences/D; W. Bleck, RWTH Aachen/D | 16:35-17:00 |
| 17:00-19:30 | Poster Discussion / Poster Party with Beer and Pretzel | | 17:00-19:30 |

Monday, 10 September 2007

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| 09:00-09:20 | OPENING SESSION B. Isecke, Federal Institute for Materials Research and Testing, Berlin/D; M. Schütze, DECHEMA e.V., Frankfurt am Main/D; J.A. Vogelsang, Sika Technology AG, Zurich/CH | | 09:00-09:20 |
| 09:20-09:30 | WELCOME ADDRESS: Representative of the City of Freiburg | | 09:20-09:30 |
| 09:30-09:45 | EFC MEDAL AWARD PRESENTATION Award Winner: E. Kálmán, Hungarian Academy of Sciences, Budapest/H | | 09:30-09:45 |
| 09:45-10:30 | INVITED PLENARY LECTURE Environmental legislation: influence on coating materials and coating processes for the corrosion protection of steel structures R. Schmidt, Forschungsinstitut für Pigmente und Lacke e.V., Stuttgart/D | | 09:45-10:30 |
| 10:30-11:00 | Coffee Break | | 10:30-11:00 |
| | Joint Workshop: Cathodic Protection for Marine and Offshore Environments | Joint NACE/EFC Workshop on Operators Views: Current Status and Need for Future Research Related to Corrosion in Oil and Gas Production | |
| <i>Chair:</i> | <i>U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S; M. Roche, Total S.A., Paris-La Défense/F; S. Olsen, Statoil Research Centre, Trondheim/N</i> | <i>D. Webster, Colt Engineering Corporation, Calgary/CDN</i> | <i>Chair:</i> |
| 11:00-11:25 | Keynote Hydrogen evolution during cathodic protection of carbon steel and stainless steel in natural seawater R. Johnsen, Norwegian University of Science and Technology, Trondheim/N | Environmental Cracking T. Cassagne, Total S.A. Pau/F | 11:00-11:25 |
| 11:25-11:50 | The threshold stress for the initiation of hydrogen embrittlement in various product forms of Z100 superduplex stainless steel R. Francis, G. Warburton, Weir Materials and Foundries, Manchester/UK | H₂S cracking J.W. Martin, BP Exploration Operating Co. Ltd., London/UK | 11:25-11:50 |
| 11:50-12:15 | Hydrogen embrittlement in different duplex stainless steel grades S. Ronneteg, U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S | Corrosion fatigue in SCRs and armours in flexibles R. Thompson, Chevron Corporation, Houston, TX/USA | 11:50-12:15 |
| 12:15-14:00 | Lunchtime | | 12:15-14:00 |
| 14:00-14:25 | Hydrogen permeation in SMSS under cathodic charging exposed to artificial seawater and 3% NaCl solution A. Smirnova, R. Johnsen, V.H. Hope, Norwegian University of Science and Technology, Trondheim/N | Materials in wells P. Nice, Statoil A.S.A., Stavanger/N | 14:00-14:25 |
| 14:25-14:50 | The resistance towards hydrogen induced stress cracking (HISC) of hot isostatically pressed (HIP) duplex stainless steels under cathodic protection G. Lauvstad, SINTEF Materials and Chemistry, Trondheim/N; R. Johnsen, I. Asbjørnsen, Norwegian University of Science and Technology, Trondheim/N; C.-G. Hjorth, M. Bjurström, Metso Powdermet, Surahammar/S | CO₂ corrosion and inhibition M. Achour, ConocoPhillips, Bartlesville, OK/USA | 14:25-14:50 |
| 14:50-15:15 | Seafloor power for corrosion prevention L.H. Orfei, S. Simison, J.P. Busalmen, Universidad Nacional de Mar del Plata/RA | Corrosion in water injection T. Andersen, Norsk Hydro A.S.A., Porsgrunn/N | 14:50-15:15 |
| | | CP and coatings I. Rippon, Shell Global Solutions, Rijswijk/NL | 15:15-15:40 |
| | Coffee Break | | 15:40-16:10 |
| | | Seawater corrosion S. Olsen, Statoil Research Centre, Trondheim/N | 16:10-16:35 |
| | | General discussion | 16:35-17:00 |
| 17:00-19:30 | Poster Discussion / Poster Party with Beer and Pretzel | | 17:00-19:30 |

SCIENTIFIC LECTURE PROGRAMME

Tuesday, 11 September 2007

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| 09:00-09:45 | INVITED PLENARY LECTURE Are all corrosion problems with automobiles already solved? Challenges and solutions K.-H. Stellnberger, voestalpine AG, Linz/A | | 09:00-09:45 |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Session M: Coatings | Workshop: High Temperature Corrosion in the Chemical, Refinery and Petrochemical Industries | |
| <i>Chair:</i> | <i>L. Fedrizzi, University of Udine/I</i> | <i>M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i> | <i>Chair:</i> |
| 09:50-10:15 | Electrochemical behaviour of ZrO₂ pre-treatments deposited with sol-gel technique on AA 2024 aluminium alloy F. Andreatta, L. Paussa, P. Aldighieri, University of Udine/I; R. Di Maggio, University of Trento/I; L. Fedrizzi, University of Udine/I | Effect of sulphur on the oxidation behaviour of nickel-base alloys in synthetic off-gas M. Kleingries, H. Ackermann, K. Lucka, H. Köhne, Oel-Wärme-Institut gGmbH, Herzogenrath/D | 09:50-10:15 |
| 10:15-10:40 | Corrosion behaviour of sol-gel silica base coatings produced by dipping and EPD Y. Castro, A. Durán, Instituto de Cerámica y Vidrio, Madrid/E; A. Conde, J.J. de Damborenea, Centro Nacional de Investigaciones Metalúrgicas, Madrid/E | Effect of gas composition on the oxidation behaviour of metallic materials in high temperature heat exchangers P. Huczowski, Research Centre Jülich GmbH/D; H.-H. Angermann, BEHR GmbH & Co. KG, Stuttgart/D; V. Haanappel, L. Singheiser, W.J. Quadackers, Research Centre Jülich GmbH/D | 10:15-10:40 |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | Purely inorganic nanoparticulate coatings for magnesium alloys F. Feil, W. Fürbeth, M. Schütze, DECHEMA e.V., Frankfurt am Main/D | The effect of water vapor on high temperature oxidation of Fe-Cr alloys at 1073 K M. Ani, U. Mitsutoshi, K. Kenichi, M. Toshio, Tokyo Institute of Technology/J | 11:10-11:35 |
| 11:35-12:00 | Structural studies and interfacial bonding of urea/polydimethylsiloxane sol-gel hybrid coatings on AA 2024 aluminium alloy M. Fir, A. Surca Vuk, R. Jese, A. Vilcnik, B. Orel, National Institute of Chemistry, Ljubljana/SLO | Development of a high temperature NiCrAl alloy – cyclic oxidation behaviour of alloy variants with different Yttrium contents R. Durham, Research Centre Jülich GmbH/D; G. Strehl, W. Hartnagel, Schmidt + Clemens GmbH & Co. KG, Lindlar/D | 11:35-12:00 |
| 12:00-12:25 | Microstructural modifications and their relationship with the electrochemical behaviour of Inconel 625 N. Ahmed, K.T. Voisey, D.G. McCartney, I.R. Pashby, The University of Nottingham/UK | Development of high performance cast alloys – alloy 31 and alloy 59 for the chemical process industry G. Overbeck, R. Kirchheiner, Schmidt + Clemens GmbH & Co. KG, Lindlar/D | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| 14:00-14:25 | Investigation into Aluminium Metal Spray (AMS) in combination with an organic paint system T. Sumon, S.B. Lyon, J.D. Scantlebury, The University of Manchester/UK | Development of cladmed plates for pressure equipment combining good mechanical properties and corrosion resistance J. Maffert, AG der Dillinger Hüttenwerke/D; S. Pauly, DMC Nobelclad, Rivesaltes/F | 14:00-14:25 |
| 14:25-14:50 | Application of thermally sprayed coatings of the type WC/CoCr in reverse osmosis processes for seawater desalination A. Dwars, KSB Aktiengesellschaft, Pegnitz/D; W. Kochanowski, KSB Aktiengesellschaft, Frankenthal/D | Keynote Fundamentals of halide-activated pack cementation: process insights for obtaining high temperature protective coatings V.A. Ravi, California State Polytechnic University, Pomona, CA/USA | 14:25-14:50 |
| 14:50-15:15 | Electrodeposition of micro- and nano-composite copper matrix coatings under pulse current conditions M. Lekka, L. Tamanini, P.L. Bonora, University of Trento/I | High temperature corrosion behaviour of NiAlMo APS-coatings in chlorine-based atmospheres H. Latreche, P. Masset, T. Weber, M. Schütze, DECHEMA e.V., Frankfurt am Main/D | 14:50-15:15 |
| 15:15-15:40 | Comparison of micro- and nano-nickel matrix composite coatings obtained by electrodeposition under direct and pulse current condition C. Zanella, M. Lekka, P.L. Bonora, University of Trento/I | New method of receiving porous iron electrodes on nickel base Z. Zurek, A. Jaron, Cracow University of Technology/PL; T. Werber, University of Mining and Metallurgy, Cracow/PL; M. Zalega, Cracow University of Technology/PL | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | Electroplating of steel by adherent aluminium layers in ionic liquids and its corrosion behaviour S. Zein El Abedin, F. Endres, Clausthal University of Technology, Clausthal-Zellerfeld/D | Corrosion behavior of Ni-base alloy 625 in supercritical water containing alcohols and potassium hydrogen carbonate N. Boukis, W. Habicht, E. Hauer, K. Weiss, E. Dinjus, Forschungszentrum Karlsruhe GmbH/D | 16:10-16:35 |
| 16:35-17:00 | The surface degradation of tin-manganese electrodeposits through spontaneous tin whisker growth K. Chen, G.D. Wilcox, Loughborough University/UK | High temperature corrosion monitoring by electrochemical noise techniques S. Mabbutt, N. Simms, J. Oakey, Cranfield University/UK | 16:35-17:00 |
| 17:00-17:25 | Corrosion behaviour of Mg alloys coated by zinc formed by means of different deposition methods B. Wielage, T. Lampke, H. Pokhmurska, M. Zacher, Chemnitz University of Technology/D; L. Kwiatkowski, M. Grobelny, Institute of Precision Mechanics, Warsaw/PL | | |

Tuesday, 11 September 2007

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| 09:00-09:45 | INVITED PLENARY LECTURE | | 09:00-09:45 |
| | Are all corrosion problems with automobiles already solved? Challenges and solutions K.-H. Stellnberger, voestalpine AG, Linz/A | | |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Workshop: Corrosion Monitoring in Nuclear Systems | Session A: Corrosion and Scale Inhibition | |
| <i>Chair:</i> | <i>A. Molander, Studsvik Nuclear AB, Nyköping/S; S. Ritter, Paul Scherrer Institut, Villigen/CH</i> | <i>G. Schmitt, Iserlohn University of Applied Sciences/D</i> | <i>Chair:</i> |
| 09:50-10:15 | Keynote Corrosion monitoring – what's the point? R. Cottis, The University of Manchester/UK | Corrosion inhibition properties of some 2,5-disubstituted 1,3,4-thiadiazoles in molar hydrochloric acid: correlation between inhibition efficiency and chemical structure <i>M. Lagrenée, M. Lebrini, M. Traisnel, École Nationale Supérieure de Chimie de Lille, Villeneuve d'Ascq/F; H. Vezin, Université des Sciences et Technologies de Lille, Villeneuve d'Ascq/F; F. Bentiss, Laboratoire de Chimie de Coordination et d'Analytique, El Jadida/MA</i> | 09:50-10:15 |
| 10:15-10:40 | In-core corrosion monitoring in the Halden test reactor <i>P. Bennett, T.M. Karlsen, OECD Halden Reactor Project, Halden/N</i> | The synergistic effects of 2,5-bis(4-methoxyphenyl)-1,3,4-thiadiazole and potassium iodide on the inhibition of mild steel in 0.5M sulfuric acid solution <i>M. Traisnel, M. Lebrini, M. Lagrenée, École Nationale Supérieure de Chimie de Lille, Villeneuve d'Ascq/F; F. Bentiss, Laboratoire de Chimie de Coordination et d'Analytique, El Jadida/MA</i> | 10:15-10:40 |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | Corrosion monitoring applications in Taiwan's nuclear power plants <i>H.C. Lai, W.Y. Mao, Industrial Technology Research Institute, Chutung/RC; C.F. Chu, Taiwan Power Company, Taipei/RC</i> | The corrosion behaviour of a superferritic stainless steel containing small amounts of noble metals in sulphuric acid and acidified chloride solutions <i>J.H. Potgieter, C.M. Machio, University of the Witwatersrand, Johannesburg/ZA</i> | 11:10-11:35 |
| 11:35-12:00 | Electrochemical noise generated during stress corrosion cracking in high temperature water and its relationship with repassivation kinetics <i>R. Bosch, M. Vankeerberghen, S. Gavrilov, Belgium Nuclear Research Centre, Mol/B</i> | Quantification of maximum flow intensities in different flow systems for assessing boundary conditions for flow induced localized corrosion <i>G. Schmitt, M. Bakalli, Iserlohn University of Applied Sciences/D</i> | 11:35-12:00 |
| 12:00-12:25 | Monitoring of stress corrosion cracking of sensitized 304H stainless steel by electrochemical methods and acoustic emission <i>W. Zhang, L. Dunbar Cavalieri, D. Tice, Serco Assurance, Warrington/UK</i> | Optimization of functional compositions in spreading inhibition <i>Z. Gace, A. Lame, University of Tirana/AL</i> | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| 14:00-14:25 | A new technique for in-plant high mass transfer rate ECP monitoring <i>A. Molander, M. Ullberg, Studsvik Nuclear AB, Nyköping/S</i> | Effect of supramolecular structures on near-wall flow dynamics – new concepts for mitigating flow induced localized corrosion <i>G. Schmitt, Iserlohn University of Applied Sciences/D; M. Hörstemeier, RWTH Aachen/D</i> | 14:00-14:25 |
| 14:25-14:50 | An electrochemical sensor array for in-situ measurements of hydrogen peroxide concentration in high temperature water <i>S. Uchida, T. Satoh, Japan Atomic Energy Agency, Tokai-mura/J; Y. Satoh, Tohoku University, Sendai/J</i> | Nanolayers of mixed composition against deterioration <i>J. Telegdi, F. Al-Taher, L. Románszki, E. Kálmán, Hungarian Academy of Sciences, Budapest/H</i> | 14:25-14:50 |
| 14:50-15:15 | Corrosion monitoring of carbon steel in pasty clayey mixture as function of temperature <i>C. Bataillon, F. Martin, M. Roy, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F</i> | Chromate-free surface treatment on zinc <i>A. Pilbáth, F.H. Kármán, I. Felhősi, J. Telegdi, L. Nyikos, I. Bertóti, E. Kálmán, Hungarian Academy of Sciences, Budapest/H</i> | 14:50-15:15 |
| 15:15-15:40 | Local corrosion behaviour of Zr-1% Nb cladding in VVER primary coolants at room and high temperature <i>A. Somogyi, Z. Kerner, J. Balog, G. Nagy, KFKI Atomic Energy Research Institute, Budapest/H</i> | Study of the inhibition mechanism of environmentally-friendly inhibitors for organic coatings by classical and local electrochemical techniques <i>C. Motte, M. Poelman, M.-G. Olivier, Materia Nova, Mons/B; R. Hellouin, M. Jourdir, Arcelor Research Liège/B</i> | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| | Session C: Nuclear Corrosion | | |
| <i>Chair:</i> | <i>D. Féron, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F</i> | | |
| 16:10-16:35 | Compatibility of materials in a closed Brayton cycle helium working gas containing reactive impurities <i>M.M. Hall Jr., Bechtel Bettis Inc., West Mifflin, PA/USA</i> | Corrosion inhibition of pimeloyl-1,5-di-hydroxamic acid for carbon steel in neutral solution <i>A. Alagta, I. Felhősi, E. Kálmán, Hungarian Academy of Sciences, Budapest/H</i> | 16:10-16:35 |
| 16:35-17:00 | Steels protection experiments in flowing Pb <i>A. Gessi, G. Benamati, Ente per le Nuove Tecnologie, Camugnano/I</i> | Influence of hydrodynamic condition on co-inhibitive behaviour of sodium silicate and HEDP on corrosion control of carbon steel pipelines <i>M. Salasi, National Iranian Oil Company, Tehran/IR; T. Shahrabi, Tarbiat Modares University, Tehran/IR; E. Roayaei, National Iranian Oil Company, Tehran/IR</i> | 16:35-17:00 |
| | | Investigation into the effect of film forming corrosion inhibitors on carbon steel in saline water <i>S.R. Allahkaram, A.J. Arabzadeh, University of Tehran/IR</i> | 17:00-17:25 |

SCIENTIFIC LECTURE PROGRAMME

Tuesday, 11 September 2007

| | | | |
|---------------|---|--|---------------|
| 09:00-09:45 | INVITED PLENARY LECTURE Are all corrosion problems with automobiles already solved? Challenges and solutions K.-H. Stellnberger, voestalpine AG, Linz/A | | 09:00-09:45 |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Session L: Corrosion in Oil and Gas Production | Session G: Physico-Chemical Methods of Corrosion Testing | |
| <i>Chair:</i> | <i>S. Olsen, Statoil Research Centre, Trondheim/N</i> | <i>J.M.C. Mol, Delft University of Technology/NL</i> | <i>Chair:</i> |
| 09:50-10:15 | Composition, sources and formation mechanisms of black powder in sales gas transmission pipelines <u>A.M. Sherik, S.A. Jutaily, A.I. AbdulHadi, J.P. Perez, Saudi Aramco, Dhahran/SAR</u> | Fast, easy and reliable corrosion detection with DC monitoring techniques <u>G. Schäfer, Pfaudler Werke GmbH, Schwetzingen/D</u> | 09:50-10:15 |
| 10:15-10:40 | Principles of reliable operation of main oil pipelines exposed to active corrosion and corrosion mechanical influence in Russia <u>I. Vjunitsky, M. Kosterina, A. Sachkov, E. Vasin, VNIIST-Oil and Gas Engineering Company, Moscow/RUS</u> | Electrical resistance zinc sensors to monitor corrosion rate of hot dip galvanized steel pipes in warm water <u>M.Ø. Hansen, L.R. Hilbert, Technical University of Denmark, Lyngby/DK</u> | 10:15-10:40 |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | Internal corrosion assessment for dry gas and multiphase pipelines using corrosion prediction models <u>R.D. Kane, S. Srinivasan, V. Legad, Honeywell Process Solutions, Houston, TX/USA</u> | Electrochemical random signal analysis on galvanic corrosion of anodized aluminum alloy in chloride environments <u>M. Sakairi, Y. Shimoyama, Hokkaido University, Sapporo/J</u> | 11:10-11:35 |
| 11:35-12:00 | Importance of elemental sulfur detected in the corrosion products obtained during a pipeline inner cleaning procedure <u>G. Zavala Olivares, R. Garcia Esquivel, M.J. Hernandez Gayosso, Mexican Petroleum Institute, México D.F./MEX</u> | The appropriate range for the amplitude of the perturbation signal for the EFM (electrochemical frequency modulation) technique and the response of this technique for different stainless steels during pitting without and with preheat treatment <u>A. Rauf, Katholieke Universiteit Leuven/B</u> | 11:35-12:00 |
| 12:00-12:25 | Lean duplex corrosion testing and evaluation for use as flexible pipe carcass <u>R. Clements, Wellstream International Limited, Newcastle upon Tyne/UK</u> | Electrochemical investigation of chloride induced pitting of stainless steel influenced by a magnetic field <u>P. Linhardt, G. Ball, Vienna University of Technology/A</u> | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| 14:00-14:25 | A kinetic model of CO₂ corrosion in the confined environment of flexible pipe annulus <u>E. Remita, Institut Français du Pétrole, Rueil Malmaison/F et Vernaison/F; B. Tribollet, Centre Nationale de la Recherche Scientifique, Paris/F; E. Sutter, École Nationale Supérieure de Chimie de Paris/F; F. Ropital, Institut Français du Pétrole, Rueil Malmaison/F et Vernaison/F; X. Longaygue, Institut Français du Pétrole, Rueil Malmaison/F; J. Kittel, Institut Français du Pétrole, Vernaison/F; C. Taravel-Condât, N. Desamais, Technip, Le Trait/F</u> | Investigation of CO₂ corrosion of carbon and low-alloy steels by neural network <u>S.P. Trasatti, University of Milan/I; G. Gabetta, ENI S.p.A., Milan/I; G. Zangari, Consultant, Rome/I</u> | 14:00-14:25 |
| 14:25-14:50 | Initiation and propagation mechanism for IGSCC of super martensitic stainless steel welded joint in sweet environment <u>H. Amaya, A. Taniyama, K. Ogawa, Sumitomo Metal Industries Ltd., Amagasaki, Hyogo/J; M. Ueda, Sumitomo Metal Industries Ltd., Wakayama/J</u> | Electrochemical investigation of the influence of Cu on corrosion of model AlMgSi(Cu) alloys <u>H. Zhan, Netherlands Institute for Metals Research, Delft/NL; J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Netherlands Institute for Metals Research, Delft/NL and Vrije Universiteit Brussel/B; J.H.W. de Wit, Netherlands Institute for Metals Research, Delft/NL and Delft University of Technology/NL</u> | 14:25-14:50 |
| 14:50-15:15 | No chance for corrosion <u>M. Holdefer, Pepperl+Fuchs GmbH, Mannheim/D</u> | Electrochemical Behaviour of Cu-30 Zn alloy in LiBr Solution <u>E. Abd El Meguid, National Research Centre, Cairo/ET</u> | 14:50-15:15 |
| 15:15-15:40 | Use of acoustic emission for the study of hydrogen induced cracking in steels <u>V. Smanio-Renaud, Total S.A., Lyon/F; T. Cassagne, Total S.A., Pau/F; F. Ropital, J. Kittel, Institut Français du Pétrole, Vernaison/F; M. Fregonese, B. Normand, Institut National des Sciences Appliquées, Lyon/F</u> | | |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | Hydrogen induced cracking (HIC) assessment of low alloy steel line-pipe for sour service applications <u>J.W. Martin, BP Exploration Operating Co. Ltd., London/UK; J. Kittel, Institut Français du Pétrole, Vernaison/F; T. Cassagne, Total S.A., Pau/F; C. Bosch, Salzgitter Mannesmann Forschung GmbH, Duisburg/D</u> | | |
| 16:35-17:00 | Hydrogen insertion mechanisms in iron in sulfide media <u>M. J. Cancio, T.E. Perez, Tenaris, Campana/RA; J.R. Collet-Lacoste, Comisión Nacional de Energía Atómica, Buenos Aires/RA</u> | | |
| 17:00-17:25 | Evaluation of corrosion and erosion-corrosion resistances of mild steel in sulfide polluted NaCl solution <u>M. Shoeb, A.S. Hamdy, Central Metallurgical Research and Development Institute, Cairo/ET; A.G. Sa'eh, University of Tripoli/LAR; Y. Barakat, Tabbin Institute for Metallurgical Studies, Cairo/ET</u> | | |
| 17:25-17:50 | Experimental study of under deposit corrosion (UDC) in presence of iron sulfide <u>M. Achour, J. Kolts, M. Joosten, ConocoPhillips, Bartlesville, OK/USA</u> | | |

Tuesday, 11 September 2007

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| 09:00-09:45 | INVITED PLENARY LECTURE Are all corrosion problems with automobiles already solved? Challenges and solutions K.-H. Stellnberger, voestalpine AG, Linz/A | | 09:00-09:45 |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Workshop: Bio-Tribocorrosion | Session P: Automotive Corrosion | |
| <i>Chair:</i> | <i>S. Mischler, École Polytechnique Fédérale de Lausanne/CH; P. Ponthiaux, École Centrale Paris/F</i> | <i>F. Hannour, Corus Research Development and Technology, Ijmuiden/NL</i> | <i>Chair:</i> |
| 09:50-10:15 | Tribocorrosion in the food industry M.S. Jellesen, L.R. Hilbert, P. Møller, Technical University of Denmark, Lyngby/DK | Keynote Next generation galvanized steel for the automotive industry N.C. Hosking, Ford Motor Company Ltd., Essex/UK and The University of Nottingham/UK; M.A. Strom, Volvo Car Corporation, Goteborg/S; P.H. Shipway, C.D. Rudd, The University of Nottingham/UK | 09:50-10:15 |
| 10:15-10:40 | Tribocorrosion of nickel alloys in the media formed by the pyrolysis of tributyl phosphate Q. Tran, P. Fauvet, B. Fioulaine, T. Dufrenoy, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F; O. Pagny, AREVA NC, Beaumont Hague/F | Hydrogen permeation in different high strength steels and influence of the microstructure C. Ly, M. Jerome, École Centrale Paris, Châtenay-Malabry/F; J. Sojka, Technical University of Ostrava/CZ; N. Ruscassier, J.B. Guillot, École Centrale Paris, Châtenay-Malabry/F | 10:15-10:40 |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | Tribocorrosion of 304 stainless steel in PWR J. Perret, S. Mischler, École Polytechnique Fédérale de Lausanne/CH; A. Beaudouin, J.P. Vernot, AREVA NP Centre Technique, Le Creusot/F | Factors determining corrosion resistance of stainless steels in automotive exhaust systems P. Gümpel, C. Hoffmann, Konstanz University of Applied Sciences/D; N. Art, ThyssenKrupp Nirosta GmbH, Düsseldorf/D | 11:10-11:35 |
| 11:35-12:00 | Tribocorrosion in discontinuous sliding contact conditions: influence of the latency time on wear D. Deforge, EDF R&D Renardières, Moret-sur-Loing/F; P. Ponthiaux, F. Wenger, École Centrale Paris, Châtenay-Malabry/F; J.M. Boursier, A. Lina, A. Ambar, EDF R&D Renardières, Moret-sur-Loing/F | Accelerated corrosion tests in the automotive industry: a comparison of the performance towards cosmetic corrosion N. LeBozec, French Corrosion Institute, Brest/F; N. Blandin, PPG Industries France, Marly/F; D. Thierry, French Corrosion Institute, Brest/F | 11:35-12:00 |
| 12:00-12:25 | Influence of potential on the tribocorrosion of tungsten in H₂SO₄ J. Stojadinovic, S. Mischler, D. Bouvet, M. Declercq, École Polytechnique Fédérale de Lausanne/CH | Corrosion and mechanical behavior of Magnesium alloy AM50 produced by die casting and rolling A. Eliezer, Sami Shamoan College of Engineering, Beer-Sheva/IL; P.E. Krajewski, General Motors R&D Center, Warren, MI/USA | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| 14:00-14:25 | Investigation of nanostructured cermet coatings by electrochemical impedance A. Basak, J.P. Celis, Katholieke Universiteit Leuven/B; P. Ponthiaux, F. Wenger, École Centrale Paris, Châtenay-Malabry/F; P. Matteazzi, University of Florence/I; M. Vardavoulias, PyroGenesis SA, Lavrion/GR | Corrosion behaviour of weldable primers for automotive applications E. Montemor, A.M.P. Simoes, P. Cecilio, A.C. Bastos, M.L. Zheludkevich, M.G.S. Ferreira, Instituto Superior Técnico, Lisbon/P | 14:00-14:25 |
| 14:25-14:50 | Accelerated wear of UHMWPE for joint prosthesis in physiological solutions containing protein and lipid Y. Sawae, T. Murakami, A. Yamamoto, Kyushu University, Fukuoka/J | The relation between processing, microstructure and corrosion behavior of new wrought Mg alloys G. Ben-Hamu, D. Eliezer, Ben-Gurion-University, Beer-Sheva/IL | 14:25-14:50 |
| 14:50-15:15 | Effects of solution chemistry on tribocorrosion behaviour of CoCrMo biomedical alloys A. Igual, Universidad Politecnica de Valencia/E; S. Mischler, École Polytechnique Fédérale de Lausanne/CH | A novel hot-dip zinc alloy for automotive applications W.J. van Ooij, University of Cincinnati, OH/USA | 14:50-15:15 |
| 15:15-15:40 | Some thoughts on micro-abrasion-corrosion mapping of a Co-Cr/UHMWPE couple M. Stack, University of Strathclyde, Glasgow/UK | Corrosion preventive waxes for the automotive industry P. Williams, EFTEC Ltd., Aberdare/UK | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| <i>Chair:</i> | <i>M. Stack, University of Strathclyde, Glasgow/UK; L.A. Rocha, Universidade do Minho, Guimarães/P</i> | | <i>Chair:</i> |
| 16:10-16:35 | Evaluation methods of erosion corrosion specimens exposed to a high velocity multi phase flow J. Haberl, G. Mori, University of Leoben/A; M. Oberndorfer, W. Havlik, OMV Exploration and Production GmbH, Vienna/A | Pretreatment trends in Automotive paint shops T. Nitschke, Chemetall GmbH, Frankfurt am Main/D | 16:10-16:35 |
| 16:35-17:00 | Fretting test monitoring by acoustic emission M. Boinet, A. Proust, J.-C. Lenain, Euro Physical Acoustics S.A., Sucy-en-Brie/F; G.R.Y. Njankeu Sabeya, J.-Y. Paris, J. Denape, École Nationale d'Ingénieurs de Tarbes/F | Keynote Means relating to the body-in-white for the development of corrosion protection at Volkswagen T. Krusche, Volkswagen AG, Wolfsburg/D | 16:35-17:00 |
| 17:00-17:25 | Repassivation current transient from iron surface during downward micro-indentation in pH 8.4 borate solution K. Fushimi, T. Yamamoto, M. Seo, H. Habazaki, Hokkaido University, Sapporo/J | Title to be confirmed B. Rendahl, Corrosion and Metals Research Institute, Stockholm/S | 17:00-17:25 |

SCIENTIFIC LECTURE PROGRAMME

Wednesday, 12 September 2007

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| 09:00-09:45 | INVITED PLENARY LECTURE | | 09:00-09:45 |
| | Corrosion challenges for a reliable and sustainable development of the chemical, refinery and petrochemical industries F. Ropital, Institut Français du Pétrole, Vernaison/F | | |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Workshop: Self Healing Properties of New Surface Treatments | Session B: Corrosion by Hot Gases and Combustion Products | |
| <i>Chair:</i> | <i>L. Fedrizzi, University of Udine/I, G. Schmitt, Iserlohn University of Applied Sciences/D</i> | <i>M. Schütze, DECHEMA e.V., Frankfurt am Main/D</i> | <i>Chair:</i> |
| 09:50-10:15 | Keynote Anticorrosive pigments and pre-treatment – introduction and basics about self-healing properties J.A. Vogelsang, Sika Technology AG, Zurich/CH | Potential high temperature corrosion problems due to co-firing of biomass and fossil fuels M. Montgomery, Technical University of Denmark, Lyngby/DK; T. Vilhelmsen, Vattenfall Nordic, Odense/DK; S.A. Jensen, DONG Energy, Copenhagen/DK | 09:50-10:15 |
| 10:15-10:40 | Anti-corrosion properties of silane films filled with nanoparticles and corrosion inhibitors F. Montemor, Instituto Superior Técnico, Lisbon/P; M.G. Ferreira, M. Zheludkevich, Universidade de Aveiro/P | Corrosion in biomass combustion systems K.E. Coleman, P.J. Kilgallon, N.J. Simms, J.E. Oakey, Cranfield University/UK | 10:15-10:40 |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | Corrosion protection behaviour of new hybrid sol-gel thin films V. Barranco, N. Carmona, S. Feliu, M.A. Villegas, J.C. Galván, Spanish National Research Council, Madrid/E | Low pressure pulsed CVD siliconizing of steel tubes K. Maile, K. Berreth, A. Lyutovich, Materialprüfungsanstalt Universität Stuttgart/D | 11:10-11:35 |
| 11:35-12:00 | Characterization of silane-pyrrole based primers for corrosion protection of Al alloys M. Trueba Urra, S.P. Trasatti, University of Milan/I | Influence of Si on the high temperature corrosion of nickel-base alloys in the presence of a molten ZnCl₂ mixture A. Ruh, Forschungszentrum Karlsruhe GmbH/D; M. Spiegel, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D | 11:35-12:00 |
| 12:00-12:25 | Sol-gel derived hybrids as functional coatings for metal surfaces J. Kron, K.-J. Deichmann, Fraunhofer-Institut für Silicatforschung, Würzburg/D | Compatibility of AISI 316L and ASTM 106 steels in stagnant molten salts L.A. Terzi, Università di Bologna/I; C. Foletti, G. Scaddozzo, G. Benamati, Ente per le Nuove Tecnologie, Camugnano/I | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| 14:00-14:25 | Novel self-healing coatings for anticorrosion protection V. Sauvant-Moynot, J. Kittel, S. Gonzalez, Institut Français du Pétrole, Vernaison/F | High temperature oxidation behavior of bulk-MoSi₂ elaborated by M.A.S.P.S.: influence of microstructure on pesting G. Cabouro, S. Chevalier, Université de Bourgogne, Dijon/F; E. Gaffet, Université de Technologie de Belfort-Montbéliard/F; Y. Grin, Max-Planck-Institut für Chemische Physik fester Stoffe, Dresden/D; F. Bernard, Université de Bourgogne, Dijon/F | 14:00-14:25 |
| 14:25-14:50 | Cerium doped hybrid silica-methacrylate self-healing coatings for AA 2024 aluminium alloys N.C. Rosero-Navarro, S. Pellice, Y. Castro, M. Aparicio, A. Durán, Instituto de Cerámica y Vidrio, Madrid/E | Comparison of oxidation behaviour of various thermally sprayed MCrAlY coatings D. Maghet, G. Marginean, University of Applied Sciences Gelsenkirchen/D; I. Mitelea, University Politehnica Timisoara/RO; W. Brandl, University of Applied Sciences Gelsenkirchen/D | 14:25-14:50 |
| 14:50-15:15 | Influence of the doping agent on the corrosion protection properties of polypyrrole grown on Al A. Balaskas, P. Liatsi, I. Danilidis, I. Kartsonakis, G. Kordas, National Centre for Scientific Research, Athens/GR | High-temperature oxidation of FeCrAl alloys with Pt and/or Y T. Amano, A. Shiino, Shonan Institute of Technology, Kanagawa/J; T. Shishido, Tohoku University, Sendai/J | 14:50-15:15 |
| 15:15-15:40 | Corrosion resistance of novel developed environmental friendly anti-corrosive pigment for paint O. Ogawa, Y. Ishida, M. Nagai, H. Tana, Dai Nippon Toryo Co., Ltd., Ohtawara/J | Ruthenium modification for reducing secondary reaction zone formed during oxidation of an aluminised Ni-base single crystal superalloy S. Taniguchi, Osaka University, Suita/J; Y. Matsuoka, A. Sato, Y. Aoki, K. Chikugo, T. Suzuki, Y. Matsunaga, K. Nakagawa, K. Ishige, Osaka University, Yokohama/J | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | Electrochemical model study of local corrosion inhibition of aluminum-copper alloy with anticorrosion pigments V.I. Pokhmurskii, I.M. Zin, L.M. Bily, M.B. Ratushna, National Academy of Sciences of Ukraine, Lviv/UA; S.B. Lyon, The University of Manchester/UK | Influence of helium impurities on the corrosion behaviour of the nickel-base alloy Inconel 617 in very high temperature reactor environment J. Chapovaloff, G. Girardin, AREVA NP, Le Creusot/F; D. Kaczorowski, AREVA NP, Lyon/F; K. Wolski, M. Pijolat, École Nationale Supérieure des Mines, Saint-Étienne/F | 16:10-16:35 |
| 16:35-17:00 | Study of vinyltriethoxysilane, Bis 1,2-[triethoxysilyl]ethane, and Bis-(3-[triethoxysilyl]-propyl); tetrasulfide films containing rare earth nitrates as protective layers for hot dip galvanized and Zinc-iron coated steel M.C.G. Santos, C.M.A. Freire, M.C. Ballester, Universidade Estadual de Campinas/BR | Innovation of novel protective coatings for high temperature oxidation resistance of Ti-alloy IMI 834 L. Gurrappa, A. Wilson, H.L. Du, Northumbria University, Newcastle upon Tyne/UK | 16:35-17:00 |
| 17:00-17:25 | EIS study on electrochemical behaviour of conversion coatings on aluminium alloys developed by immersion and thermal activation M. Bethencourt, University of Cadiz, Puerto Real/E; M.J. Cano, M. Marcos, University of Cadiz/E; J.M. Sánchez-Amaya, L. González-Rovira, F.J. Botana, University of Cadiz, Puerto Real/E | Influence of H₂O, CO₂ and N₂ on the oxidation behavior of TiAl-based alloys M. Yoshihara, Yokohama National University/J; S. Taniguchi, T. Kubota, Osaka University, Suita/J | 17:00-17:25 |
| 20:00-24:00 | Conference Dinner at „Historisches Kaufhaus“ | | 20:00-24:00 |

Wednesday, 12 September 2007

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| 09:00-09:45 | INVITED PLENARY LECTURE Corrosion challenges for a reliable and sustainable development of the chemical, refinery and petrochemical industries F. Ropital, Institut Français du Pétrole, Vernaison/F | | 09:00-09:45 |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Workshop: Bio-Tribocorrosion – COST 533/Eureka-ENIWEP-Meeting | Session H: Marine Corrosion | |
| <i>Chair:</i> | A. Igartua, <i>TEKNIKER, Eibar/E</i> ; A. Fischer, <i>University of Duisburg-Essen, Duisburg/D</i> | U. Kivisäkk, <i>AB Sandvik Materials Technology, Sandviken/S</i> | <i>Chair:</i> |
| 09:50-10:15 | Micro-mechanical and micro-electrochemical behavior of worn surfaces V. Vignal, <i>Université de Bourgogne, Dijon/F</i> ; H. Krawiec, <i>AGH University of Science and Technology, Cracow/PL</i> ; P. Ponthiaux, <i>F. Wenger, École Centrale Paris, Châtenay-Malabry/F</i> | Corrosion resistant alloys against marine atmosphere S. Ito, H. Kihira, M. Kimura, <i>Nippon Steel Corporation, Futtsu City, Chiba/J</i> | 09:50-10:15 |
| 10:15-10:40 | Degradation and biocorrosion of HD polyethylene modified by polyaspartic acid J. Pieliowski, J. Polaczek, <i>Cracow University of Technology/PL</i> | Atmospheric corrosion of carbon steel at marine sites in Saudi Arabia A.I. Almarshad, S. Syed, <i>King Abdulaziz City for Science and Technology, Riyadh/SAR</i> | 10:15-10:40 |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | Corrosion and tribocorrosion of dental restorative materials in sliding contact with human teeth R. Galo, <i>Universidade do Minho, Guimarães/P</i> ; M.G.C. Mattos, <i>University of São Paulo/BR</i> ; L.A. Rocha, <i>Universidade do Minho, Guimarães/P</i> | Long term indoor atmospheric corrosion test by new cyclic corrosion test device H. Masuda, <i>National Institute for Material Science, Tsukuba/J</i> | 11:10-11:35 |
| 11:35-12:00 | Study of DLC coatings on micro and macrolevel E. Zdravceková, <i>Technical University of Kosice/SK</i> ; J. Suchanek, <i>Czech Technical University, Prague/CZ</i> ; M. Vojs, <i>Slovak University of Technology, Bratislava/SK</i> ; A. Gmterko, J. Tkacova, S. Fescu, <i>Technical University of Kosice/SK</i> | Ways towards an accelerated formation of protective layers on CuNi 90/10 in artificial seawater S. Friedrich, M. Langer, <i>Institute for Corrosion Protection Dresden GmbH/D</i> | 11:35-12:00 |
| 12:00-12:25 | Electrochemical test methods for characterising CoCrMo biomedical alloys in simulated body fluids: first outcome of Round Robin testing on tribocorrosion behaviour A.I. Muñoz, <i>Polytechnic University of Valencia/E</i> ; S. Mischler, <i>École Polytechnique Fédérale de Lausanne/CH</i> | Improved ship's safety by corrosion protection? D. Engel, T. Lohmann, <i>Germanischer Lloyd AG, Hamburg/D</i> | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| | Short Course: Bio-Tribocorrosion | | |
| <i>Chair:</i> | J.-P. Celis, <i>Katholieke Universiteit Leuven/B</i> | | |
| 14:00-14:25 | Introduction to tribosystems and the nature of contacts A. Fischer, <i>University of Duisburg-Essen, Duisburg/D</i> | A study on the effect of cathodic polarization on pitting corrosion of AA 5083-H321 Aluminum-Magnesium alloy in 3.5% NaCl solution K. Jafarzadeh, T. Shahrabi, <i>Tarbiat Modares University, Tehran/IR</i> ; M.G. Hosseini, <i>Tabriz University, Tabriz/IR</i> | 14:00-14:25 |
| 14:25-14:50 | Friction: some fundamentals and significances in bio-tribocorrosion T.M. Mathew, <i>Universidade do Minho, Guimarães/P</i> | Corrosion behaviour of copper alloys in natural sea water and polluted sea water V. Debout, H. Le Guyader, A.M. Grolleau, <i>DCNS Cherbourg-Octeville/F</i> ; J.P. Pautasso, <i>DGA Centre Technique d'Arcueil/F</i> ; J.L. Heuzé, <i>DGA Service des Programmes Navals, Paris/F</i> | 14:25-14:50 |
| 14:50-15:15 | Identifying wear mechanisms in corrosive environments: mapping a route of the combined action of wear and corrosion M. Stack, <i>University of Strathclyde, Glasgow/UK</i> | The influence of bio species and some inhibitors on crevice corrosion of stainless steel in natural and biological inert sea water O. Lahodny-Sarc, L. Krstulovic, B. Kulusic, D. Sambrailo, J. Ivic, <i>Croatian Academy of Sciences, Dubrovnik/HR</i> | 14:50-15:15 |
| 15:15-15:40 | Tribocorrosion and bio-tribocorrosion: an introduction L.A. Rocha, <i>Universidade do Minho, Guimarães/P</i> | Evaluation of copper-nickel as a sheathing material for hot riser protection on offshore platforms C.A. Powell, <i>Copper Development Association, Hemel Hempstead/UK</i> ; W. Schleich, <i>KM Europa Metal AG, Osnabrück/D</i> ; V.A.D. Souza, <i>AMEC PLC, Aberdeen/UK</i> | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| <i>Chair:</i> | S. Mischler, <i>École Polytechnique Fédérale de Lausanne/CH</i> | | |
| 16:10-16:35 | Implementing electrochemical measurements in classical tribological tests to identify mechanical degradation of surface layers and repassivation phenomena during combined corrosion-wear tests J.-P. Celis, <i>Katholieke Universiteit Leuven/B</i> ; P. Ponthiaux, <i>École Centrale Paris, Châtenay-Malabry/F</i> | Corrosion protection systems for offshore wind power plants – compared field and laboratory investigations P. Plagemann, <i>Fraunhofer Institute for Manufacturing Technology and Applied Materials Research, Bremen/D</i> ; A. Momber, <i>Muelhan AG, Bremen/D</i> ; V. Stenzel, <i>Fraunhofer Institute for Manufacturing Technology and Applied Materials Research, Bremen/D</i> ; M. Schneider, <i>Fraunhofer-Institute for Ceramic Technologies and Systems, Dresden/D</i> | 16:10-16:35 |
| 16:35-17:00 | Materials deterioration in bio-tribocorrosion, mechanisms, modelling S. Mischler, <i>École Polytechnique Fédérale de Lausanne/CH</i> | Atmospheric corrosion resistance of Si- and Al-bearing ultrafine grained weathering steel T. Nishimura, <i>National Institute for Material Science, Tsukuba/J</i> | 16:35-17:00 |
| 17:00-17:25 | Biotribochemical reactions of metal-on-metal hip joints in humans A. Fischer, <i>University of Duisburg-Essen, Duisburg/D</i> | Effect of seawater chlorination on the erosion behaviour of CuNi90/10 W. Schleich, <i>KM Europa Metal AG, Osnabrück/D</i> | 17:00-17:25 |
| 20:00-24:00 | Conference Dinner at „Historisches Kaufhaus“ | | 20:00-24:00 |

SCIENTIFIC LECTURE PROGRAMME

Wednesday, 12 September 2007

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|---------------|--|---|---------------|
| 09:00-09:45 | INVITED PLENARY LECTURE | | 09:00-09:45 |
| | Corrosion challenges for a reliable and sustainable development of the chemical, refinery and petrochemical industries F. Ropital, Institut Français du Pétrole, Vernaison/F | | |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Session L: Corrosion in Oil and Gas Production | Session N: Corrosion in the Refinery Industry | |
| <i>Chair:</i> | <i>S. Olsen, Statoil Research Centre, Trondheim/N</i> | <i>F. Ropital, Institut Français du Pétrole, Vernaison/F</i> | <i>Chair:</i> |
| 09:50-10:15 | Mechanism of protective film formation during CO₂ corrosion of X65 pipeline steel T. Li, K. Gao, Y. Yang, M. Lu, University of Science and Technology, Beijing/PRC | The effects of aging on the corrosion performance of a new age-hardenable Ni-Cr-Mo alloy N.S. Meck, P. Crook, L. Pike, Haynes International, Inc., Kokomo, IN/USA | 09:50-10:15 |
| 10:15-10:40 | Corrosion rate estimation of carbon steel in crude oil by electrochemical noise (EN) and electrochemical impedance spectroscopy (EIS) J. Neshati, Research Institute of Petroleum Industry, Tehran/IR | Metal dusting in CCR platforming unit J. Dampc, Lotos Group, Gdansk/PL; Z. Grzesik, AGH University of Science and Technology, Cracow/PL; J. Hucińska, Gdańsk University of Technology/PL | 10:15-10:40 |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | CO₂ corrosion in the presence of acetic acid: turbulent-flow conditions M. Che Ismail, PETRONAS University of Technology, Perak/MAL; S. Turgoose, CAPCIS Ltd., Manchester/UK | Naphthenic acid corrosion study A. Groysman, N. Brodsky, J. Pener, D. Shmulevich, Oil Refineries Ltd., Haifa/IL | 11:10-11:35 |
| 11:35-12:00 | Test methods to assess corrosion and inhibition under simulated top-of-line conditions S. Turgoose, G. Economopoulos, J.W. Palmer, D. Roulston, T. Porter, CAPCIS Ltd., Manchester/UK | Utilizing the chemical plant control system for real-time, online corrosion monitoring and process optimization R.D. Kane, J. Hernandez, Honeywell Process Solutions, Houston, TX/USA; K. Briegel, Rohm and Haas Company, Houston, TX/USA | 11:35-12:00 |
| 12:00-12:25 | The influence of microstructure of low-alloy steels on CO₂ corrosion R. Labbaf, T. Shahrazi, Tarbiat Modares University, Tehran/IR | Automatic classification of defects in a corrosion environment A. Romero Ramirez, N. Pearson, J. Mason, Swansea University/UK | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| 14:00-14:25 | Erosion-corrosion in oil and gas – performance of passive films on stainless steels I. Bargmann, A. Neville, University of Leeds/UK; S. Hertzman, Outokumpu Stainless AB/S; A.B. Bin Mohd Arif, Petronas Carigali, Kuala Lumpur/MAL | Prediction system for sour water corrosion quantification and management in refineries S. Srinivasan, V. Lagad, R.D. Kane, Honeywell Process Solutions, Houston, TX/USA | 14:00-14:25 |
| | Joint Session: Inhibition in Oil and Gas Production | | |
| <i>Chair:</i> | <i>S. Olsen, Statoil Research Centre, Trondheim/N</i> | | |
| 14:25-14:50 | Investigation of carbon steel corrosion inhibition in the model stratum water in the presence of H₂S and CO₂ L. Tsygankova, V. Vigdorovich, Derzhavin State University, Tambov/RUS; V. Kichigin, Naturally-Scientific Institute, Perm/RUS | Potentiometric evaluation of intermediary sulfur compounds used as corrosion inhibitors in waste waters in refineries L. Candido, J.A.C. Ponciano Gomes, Federal University of Rio de Janeiro/BR | 14:25-14:50 |
| 14:50-15:15 | Development of a corrosion inhibitor and comparison of testing methodologies for corrosion mitigation in an export pipeline experiencing localised corrosion under deposits I.G. Winning, A.M. Linde, Clariant Oil Services, Aberdeen/UK; G. Jones, Total E&P UK PLC, Aberdeen/UK; E. Gulbrandsen, Institute for Energy Technology, Kjeller/N; J. Palmer, CAPCIS Ltd., Manchester/UK; C. MacPherson, N. MacCallan, Total E&P UK PLC, Aberdeen/UK | Electrochemical method for conversion of sulphur compounds in residual water of refineries H. Jambo, L. Candido, J.A.C. Ponciano Gomes, Federal University of Rio de Janeiro/BR | 14:50-15:15 |
| 15:15-15:40 | CO₂ corrosion inhibitor performance under sand deposits – test method development A. Pedersen, K. Bilkova, E. Gulbrandsen, R. Nyborg, Institute for Energy Technology, Kjeller/N | EIS and polarization studies on corrosion behavior of carbon steel in alkanolamine and sour water mixtures M. Askari, M. A. Golozar, K. Raeissi, Isfahan University of Technology/IR | 15:15-15:40 |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | Corrosion inhibition in petroleum production: formulation and evaluation of corrosion inhibitor from industrial byproducts N.A. Abdel Ghany, R.M. Saleh, A.A. El Hosary, National Research Centre, Cairo/ET | Impact of fouling on refinery overhead corrosion P. Eaton, Champion Technologies Inc., Houston, TX/USA | 16:10-16:35 |
| | Inhibition in Petroleum Refining | | |
| | <i>F. Ropital, Institut Français du Pétrole, Vernaison/F</i> | | <i>Chair:</i> |
| | Chemical inhibition of high temperature sulphidic corrosion in lab evaluations and petroleum refinery applications C. Claesen, Nalco Energy Services, Kontich/B; S. Lordo, Nalco Energy Services, Sugar Land, TX/USA; D. Noto, ERG Raffinerie Mediterranee SpA, Syracuse/I | | 16:35-17:00 |
| | Correlation of electrochemical corrosion measurement and short time weight loss tests for efficiency testing of film forming corrosion inhibitors J.-M. Morel, W. Paulus, University of Rennes 1/F; E. Bobillon, M. Urschey, W. Hater, Henkel KGaA, Düsseldorf/D | | 17:00-17:25 |
| 20:00-24:00 | Conference Dinner at „Historisches Kaufhaus“ | | 20:00-24:00 |

Wednesday, 12 September 2007

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| 09:00-09:45 | INVITED PLENARY LECTURE | | 09:00-09:45 |
| | Corrosion challenges for a reliable and sustainable development of the chemical, refinery and petrochemical industries F. Ropital, Institut Français du Pétrole, Vernaison/F | | |
| 09:45-09:50 | Break for Changing the Lecture Hall | | 09:45-09:50 |
| | Joint Session: Cathodic Protection of Steel in Concrete | Session R: Corrosion of Polymer Materials | |
| <i>Chair:</i> | <i>M. Raupach, RWTH Aachen/D; M. Roche, Total S.A., Paris-La Défense/F</i> | <i>R. Morach, Ciba Spezialitätenchemie AG, Basel/CH</i> | <i>Chair:</i> |
| 09:50-10:15 | Cathodic protection of reinforcement in concrete J. Mork, maxit Group AB, Oslo/N; K. Rosenbom, maxit Group AB, Albergaria-a-Velha/P; S. Mayer, maxit Group AB, Eindhoven/NL | Keynote Non-metallic liners for sour gas pipelines K.E. Szklarz, Shell Canada Limited, Alberta/CDN | 09:50-10:40 |
| 10:15-10:40 | Rate of consumption for Zinc Ribbon used to protect 4 meter diameter prestressed concrete cylinder pipeline R. Elaish, S. Elkoum, Great Man Made River Project, Benghazi/LAR | | |
| 10:40-11:10 | Coffee Break | | 10:40-11:10 |
| 11:10-11:35 | Long-term experience with cathodic protection of reinforced concrete structures F. Wenk, D. Oberhänsli, Helbling Beratung + Bauplanung AG, Zurich/CH | Some aspects of the theory of abrasive wear – results from laboratory and field studies with fibre reinforced plastics G. Kappenstein, M. Jäger, Ashland Composite Polymers, Kehl/D; C. Gauthier, Institut Charles Sadron, Strasbourg/F | 11:10-11:35 |
| 11:35-12:00 | 17 years experience for the concrete's rehabilitation by means of electrochemical treatment J. Bourcy, Renofors - Novbeton, Amay/B | Defining the engineering specification for frp gratings located in boat landing areas of offshore platforms R.J. Valdez Vallejo, M. Ismail, D.K. Seling, Sarawak Shell Berhad, Miri/MAL | 11:35-12:00 |
| 12:00-12:25 | Built-in and retrofit cathodic protection systems for large diameter prestressed concrete cylinder pipe (PCCP) using Zinc Sacrificial anodes – an innovation design and technical evaluation S. Elkoum, R. Elaish, Great Man Made River Project, Benghazi/LAR | Performance of fluoropolymers in harsh environments P. Fossati, G. Biressi, G. Maggi, B. Neubauer, A. Rapetti, A. Sanguineti, Solvay Solexis, Bollate/I | 12:00-12:25 |
| 12:25-14:00 | Lunchtime | | 12:25-14:00 |
| 14:00-14:25 | Investigations on the re-passivation of carbon steel in consequence of cathodic polarization B. Isecke, T. Eichler, A. Burkert, Federal Institute for Materials Research and Testing, Berlin/D | Testing the environmental stress crack resistance of polycarbonate by the use of the increasing load method W. Michaeli, J. Henseler, A. Potthoff, Institute of Plastics Processing (IKV), Aachen/D | 14:00-14:25 |
| 14:25-14:50 | Qualitative model of concrete acidification of cathodic protection systems for concrete W.H.A. Peelen, R.B. Polder, TNO Built Environment and Geosciences, Delft/NL; E. Redaelli, L. Bertolini, Politecnico di Milano/I | Ageing of polymers as a cause for failure S. Pongratz, Freudenberg Forschungsdienste KG, Weinheim/D | 14:25-14:50 |
| 14:50-15:15 | Numerical design for cathodic protection systems for concrete R.P. Polder, W.H.A. Peelen, TNO Built Environment and Geosciences, Delft/NL | Studying the ageing behavior of PP-pipes using imaging techniques R. Brüll, G. Geertz, M. Rudschuck, Deutsches Kunststoff-Institut, Darmstadt/D; J. Wüst, K. Engelsing, M. Wenzel, Süddeutsches Kunststoff-Zentrum, Würzburg/D | 14:50-15:40 |
| 15:15-15:40 | Impressed current cathodic protection of prestressed concrete including case study of calliope jetty in New Zealand I. Godson, Ian Godson & Associates Pty Ltd, Melbourne/AUS; Z. Lourenco, Zetacorr LDA, Lisbon/P | | |
| 15:40-16:10 | Coffee Break | | 15:40-16:10 |
| 16:10-16:35 | Effect of cathodic protection (CP) on macro cell currents: a viable method to monitor and control the efficiency of CP? W. Schwarz, CAS Composite Anode Systems GmbH, Vienna/A; J. Tritthart, Graz University of Technology/A | Investigation of rubber lined tanks used for 34 % HCl after 4 and 15 years in service – correlating field observations with laboratory data P. Eriksson, J. Samuelsson, Corrosion and Metals Research Institute, Stockholm/S | 16:10-16:35 |
| 16:35-17:00 | 20 years of cathodic protection on reinforced concrete structures in Norway – facts and figures from 160+ installations C. Nerland, DNV Energy, Høvik/N; J. Eri, Protector AS, Mjøndalen/N; K.A. Grefstad, Public Roads Administration Norway, Oslo/N; Ø. Vennesland, Norwegian University of Science and Technology, Trondheim/N | Chemical resistance behaviour of industrial polymeric piping system components against (highly) concentrated sulphuric acid S. Schübler, Georg Fischer DEKA GmbH, Dautphetal/D; H.J. Sommer, Georg Fischer Piping Systems Ltd., Schaffhausen/CH | 16:35-17:00 |
| 17:00-17:25 | Corrosion monitoring under submerged conditions M. Raupach, RWTH Aachen/D | | 17:00-17:25 |
| 20:00-24:00 | Conference Dinner at „Historisches Kaufhaus“ | | 20:00-24:00 |

SCIENTIFIC LECTURE PROGRAMME

Thursday, 13 September 2007

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| 09:30-10:15 | INVITED PLENARY LECTURE Progress in corrosion control of reinforced and prestressed concrete structures B. Elsener, ETH Hönggerberg, Zurich/CH | | 09:30-10:15 |
| 10:15-10:20 | Break for Changing the Lecture Hall | | 10:15-10:20 |
| | Session D: Environment Sensitive Fracture | Workshop: Drinking Water Systems | |
| <i>Chair:</i> | <i>C. Fleck, Technical University of Berlin/D; A. Turnbull, National Physical Laboratory, Teddington/UK</i> | <i>J.W. Erning, Federal Institute for Materials Research and Testing, Berlin/D</i> | <i>Chair:</i> |
| 10:20-10:45 | Hydrogen production and permeation in relation to transgranular stress corrosion cracking in neutral pH environments <i>S. Asher, P. Singh, Georgia Institute of Technology, Atlanta, GA/USA</i> | Corrosion related problems with UNS S 31803 duplex steel riser pipe in water wells for the Great Man Made River Project – Libya <i>S. Elkoum, E. Elaish, Great Man Made River Project, Benghazi/LAR</i> | 10:20-10:45 |
| 10:45-11:10 | Corrosion of steel and copper in clay rich soils <i>D. Sanders, A.W. Hassel, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D; S. Kaufhold, R. Dohrmann, Bundesanstalt für Geowissenschaften und Rohstoffe, Hannover/D</i> | Uniform copper corrosion in drinking water systems: pipe-rig and Wieland-bench scale corrosion test in a comparative study <i>T. Merkel, A. Nalaskowski, R. Werner, Wieland Werke AG, Ulm/D</i> | 10:45-11:10 |
| 11:10-11:35 | Coffee Break | | 11:10-11:35 |
| 11:35-12:00 | Criterion of stainless steels inclination to corrosion fatigue <i>M.S. Khoma, V.A. Vynar, National Academy of Sciences of Ukraine, Lviv/UA</i> | Qualification of materials for use in drinking water applications: test method for stainless steel <i>J.W. Erning, A. Mikó, Federal Institute for Materials Research and Testing, Berlin/D; H. Schlerkmann, Salzgitter Mannesmann Forschung GmbH, Duisburg/D; T. Mathiesen, Force, Copenhagen/DK</i> | 11:35-12:00 |
| 12:00-12:25 | Novel images of the evolution of stress corrosion cracks from corrosion pits <i>A. Turnbull, National Physical Laboratory, Teddington/UK; B.J. Connolly, D.A. Horner, University of Birmingham/UK; S. Zhou, National Physical Laboratory, Teddington/UK</i> | Tools and methods for detecting metal dissolution in potable water <i>L. Carpén, VTT Technical Research Centre of Finland, Espoo/FIN; Y. Miyano, National Institute of Advanced Industrial Science and Technology, Osaka/J; T. Kaunisto, VTT Technical Research Centre of Finland, Espoo/FIN and Drinking Water Institute Finland, Rauma/FIN; P. Pohjanne, VTT Technical Research Centre of Finland, Espoo/FIN</i> | 12:00-12:25 |
| 12:25-12:50 | Effect of cyclic mixed mode loading upon crack initiation from corrosion pits <i>E. Contreras-Cordero, R. Díaz-Hernández, J. González Sánchez, N. Acuña, Universidad Autónoma de Campeche/MEX</i> | Effects of NOM and sodium alginate on copper pipes corrosion in a long term experiment <i>A. Reyes, M. Letelier, G. Lagos, Pontificia Universidad Católica de Chile, Santiago/RCH</i> | 12:25-12:50 |
| 12:50-14:00 | Lunchtime | | 12:50-14:00 |
| 14:00-14:25 | Combined mechanical and electrochemical SCC testing of austenitic CrNiMo stainless steels in chloride containing media <i>S. Holzleitner, W. Kranz, University of Leoben/A; S. Eglisaeer, Bohler Edelstahl GmbH & Co. KG, Kapfenberg/A; G. Mori, University of Leoben/A</i> | Development of a test method to determine lead on brass surfaces: from the idea to a standardized procedure, an European round-robin-test <i>J.W. Erning, Federal Institute for Materials Research and Testing, Berlin/D; M. Ebner, Wieland Werke AG, Ulm/D; S. Priggemeyer, KME Germany AG, Osnabrück/D</i> | 14:00-14:25 |
| 14:25-14:50 | Atmospheric stress corrosion cracking of austenitic stainless steel in conditions modelling swimming pool halls <i>A.K. Iversen, Outokumpu Stainless AB, Avesta/S; T. Prosek, French Corrosion Institute, Brest/F</i> | Inauguration meeting of a Working Party: Corrosion in Drinking Water Systems | 14:25-15:15 |
| 14:50-15:15 | Cyclic deformation of newly developed magnesium wrought alloys microalloyed with calcium in corrosive environment <i>P. Maier, C. Fleck, Technical University of Berlin/D</i> | | |
| 15:15-15:20 | Break for Changing the Lecture Hall | | 15:15-15:20 |
| 15:20-15:40 | Closing Remarks | | 15:20-15:40 |
| 15:40 | End of Scientific Programme | | 15:40 |

Thursday, 13 September 2007

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| 09:30-10:15 | INVITED PLENARY LECTURE | | 09:30-10:15 |
| | Progress in corrosion control of reinforced and prestressed concrete structures B. Elsener, ETH Hönggerberg, Zurich/CH | | |
| 10:15-10:20 | Break for Changing the Lecture Hall | | 10:15-10:20 |
| | Workshop: Heat Exchangers for Sea Water Cooling | Session O: Cathodic Protection | |
| <i>Chair:</i> | <i>U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S; S. Olsen, Statoil Research Centre, Trondheim/N</i> | <i>M. Roche, Total S.A., Paris-La Défense/F</i> | <i>Chair:</i> |
| 10:20-10:45 | Nickel alloys and high alloyed stainless steels for chlorinated seawater applications <i>H. Alves, D. Aberle, ThyssenKrupp VDM GmbH, Werdohl/D; F. Stenner, ThyssenKrupp VDM GmbH, Altena/D ; M. Schmitz-Niedererau, Uhde GmbH, Dortmund/D</i> | Keynote Competence of personnel active in cathodic protection and progress in certification systems <i>M. Roche, Total S.A., Paris-La Défense/F</i> | 10:20-11:10 |
| 10:45-11:10 | Some applications of Z100 superduplex stainless steel in marine heat exchangers <i>R. Francis, G. Warburton, Weir Materials and Foundries, Manchester/UK</i> | | |
| 11:10-11:35 | Coffee Break | | 11:10-11:35 |
| 11:35-12:00 | Evaluation of Ni-based alloys and high alloyed stainless steel for plate heat exchanger in chlorinated seawater <i>D. Festy, D. Thierry, French Corrosion Institute, Brest/F</i> | Effectiveness of cathodic polarization for protection of main pipelines against underground corrosion and stress corrosion cracking <i>I. Vjunitsky, M. Komarov, V. Pritula, VNIIST-Oil and Gas Engineering Company, Moscow/RUS</i> | 11:35-12:00 |
| 12:00-12:25 | Performance of hyper duplex in severe chloride containing environments <i>M.-L. Nyman, U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S; M. Holmquist, Sandvik Materials Technology, Schiedam/NL; K. Göransson, Sandviken/S</i> | Evaluation of the effect of cathodic protection levels on the AC corrosion on pipelines <i>M. Büchler, C.-H. Voüte, Swiss Society for Corrosion Protection, Zurich/CH; H.-G. Schöneich, EON-Ruhrgas AG, Essen/D</i> | 12:00-12:25 |
| 12:25-12:50 | Corrosion testing of sea water cooled plate heat exchanger materials <i>P. Hazeldine, Special Metals Wagon Limited, Hereford/UK; J. Peschel, GEA Ecoflex GmbH, Hamburg/D; J. Crum, L. Shoemaker, Special Metals Corporation, Huntington, WV/USA</i> | AC induced corrosion under cathodic protection <i>I. Ibrahim, H. Takenouti, B. Tribollet, V. Vivier, Pierre & Marie Curie University, Paris/F; X. Campaignolle, Gaz de France, Saint-Denis-La-Plaine/F; S. Fontaine, P. France, GRTgaz, Compiègne/F; H.-G. Schöneich, EON-Ruhrgas AG, Essen/D</i> | 12:25-12:50 |
| 12:50-14:00 | Lunchtime | | 12:50-14:00 |
| | | Advantages of the use of potential probes to control CP of pipelines <i>L. Lazzari, M. Ormellese, Politecnico di Milano/I; B. Bazzoni, Cescor Srl, Milano/I</i> | 14:00-14:25 |
| | | Electrochemical methods for soil corrosion investigation <i>J.R. Oliveira, J.A.C. Ponciano, Federal University of Rio de Janeiro/BR</i> | 14:25-14:50 |
| | | An advanced cathodic protection diagnostic technology <i>Z. Lukacs, Z. Talpai, T-Modul Ltd., Szeged/H</i> | 14:50-15:15 |
| 15:15-15:20 | Break for Changing the Lecture Hall | | 15:15-15:20 |
| 15:20-15:40 | Closing Remarks | | 15:20-15:40 |
| 15:40 | End of Scientific Programme | | 15:40 |

SCIENTIFIC LECTURE PROGRAMME

Thursday, 13 September 2007

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| 09:30-10:15 | INVITED PLENARY LECTURE Progress in corrosion control of reinforced and prestressed concrete structures B. Elsener, ETH Hönggerberg, Zurich/CH |
| 10:15-10:20 | Break for Changing the Lecture Hall |
| | Session K: Corrosion of Steel in Concrete |
| | <i>Chair: M. Raupach, RWTH Aachen/D</i> |
| 10:20-10:45 | Potential mapping technique for the detection of corrosion in reinforced concrete structures: investigation of parameters influencing the measurement and determination of the reliability of the method Y. Schiegg, M. Büchler, M. Brem, Swiss Society for Corrosion Protection, Zurich/CH |
| 10:45-11:10 | Characterization of long-term corrosion of rebars embedded in concretes from French Historical Buildings aged from 50 to 80 years V. L'Hostis, L. Vincent, V. Praca, D. Neff, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F; L. Bellot-Gurlet, Centre National de la Recherche Scientifique, Thiais/F |
| 11:10-11:35 | Coffee Break |
| 11:35-12:00 | Electrochemical investigations of corrosion on small cathodes in reinforced concrete B. Isecke, M. Beck, Federal Institute for Materials Research and Testing, Berlin/D |
| 12:00-12:25 | Effect of environmental factors on corrosion rate of reinforcement in LWA concrete Ø. Vennesland, Norwegian University of Science and Technology, Trondheim/N; J. Havdahl, SINTEF Materials and Chemistry, Trondheim/N |
| 12:25-12:50 | Development of corrosion test procedures for the use of acrylic gels in reinforced concrete parts M. Raupach, J. Harnisch, L. Wolff, RWTH Aachen/D |
| 12:50-14:00 | Lunchtime |
| 14:00-14:25 | Development of a calculation procedure for the statistical interpretation of the results of potential mapping for reinforced concrete structures J. Gulikers, Rijkswaterstaat Bouwdienst, Utrecht/NL |
| 14:25-14:50 | Effect of inhibitor concentration and admixed chloride on the electrochemical corrosion behaviour of mild steel rebar embedded in concrete C.A. Loto, Covenant University, Canaanland, Ota/WAN |
| 14:50-15:15 | Durability evaluation of a realkalisation treatment using sacrificial anodes Y. Tong, V. Bouteiller, Laboratoire Central des Ponts et Chaussées, Paris/F; E. Marie-Victoire, Laboratoire de Recherche des Monuments Historiques, Champs sur Marne/F; S. Joiret, Université Pierre et Marie Curie, Paris/F |
| 15:15-15:20 | Break for Changing the Lecture Hall |
| 15:20-15:40 | Closing Remarks |
| 15:40 | End of Scientific Programme |

Programme subject to change.

Working Party Business Meetings

The working party business meetings are scheduled by the working party chairs. Please find the actual information at www.eurocorr.org.

The posters will be displayed continuously throughout the conference. They should be put up latest on Monday, 9 September 2007 at 09:00 and removed at the end of the conference.

The poster authors are requested to be present at their poster(s) for discussions during the poster discussion on Monday, 10 September 2007 (detailed information – on page 36) and also during all coffee breaks.

Session A: **Corrosion and Scale Inhibition**

- A 1 **Study of SS-316L exposed to LiBr-H₂O solution applying electrochemical techniques and the conventional weight loss method**
C. Cuevas-Arteaga, M. Concha Guzman, Universidad Autónoma del Estado de Morelos, Cuernavaca/MEX
- A 2 **Experimental study for determining the corrosion in situ of SS-304 in heat transformers applying electrochemical techniques**
C. Cuevas-Arteaga, R.J. Romero, Universidad Autónoma del Estado de Morelos, Cuernavaca/MEX
- A 3 **Copper corrosion inhibition in sulphate media**
H. Otmacic Curkovic, K. Marusic, E. Stupnisek-Lisac, University of Zagreb/HR
- A 4 **Progresses in localized corrosion control in cooling water systems**
A. Schiopescu, M. Moraru, I. Camenita, Petroleum-Gas University of Ploiesti/RO; D. Rosu, E. Stefanescu, SNGN ROMGAZ S.A., Medias/RO; V. Branzoi, Politechnic University of Bucharest/RO
- A 5 **Electrochemical behaviour of brass in acidic chloride solutions: effect of organic inhibitors**
Z. Avramovic, TiR-Copper Smelter and Refinement plant, Bor/YU; M. Antonijevic, University of Belgrade, Bor/YU
- A 6 **Alteration of the open circuit potential of duplex stainless steels in LiBr solutions by cavitation**
D.M. García-García, J. García-Antón, A. Igual-Muñoz, Universidad Politécnica de Valencia/E
- A 7 **Effect of temperature on the galvanic corrosion of the titanium-welded titanium pair in LiBr solutions**
E. Blasco-Tamarit, A. Igual-Muñoz, J. García-Antón, Universidad Politécnica de Valencia/E
- A 8 **Effect of bromide ion activity on the Pourbaix diagrams for nickel in concentrated aqueous lithium bromide solutions**
M.J. Muñoz-Portero, J. García-Antón, J.L. Guiñón, V. Pérez-Herranz, Universidad Politécnica de Valencia/E
- A 9 **Influence of pH on the electrochemical behaviour of a duplex stainless steel in heavy brine LiBr solutions**
V. Guiñón-Pina, A. Igual-Muñoz, J. García-Antón, Universidad Politécnica de Valencia/E
- A 10 **Hydrodynamic conditions influence on the galvanic corrosion of the Copper/AISI304 pair in LiBr solutions by using a zero resistance ammeter (ZRA)**
M.T. Montañés, J. García-Antón, R. Sánchez-Tovar, R. Leiva, Universidad Politécnica de Valencia/E
- A 11 **Microalloyed steel corrosion inhibition efficiency by a IMP ICCA 9710 imidazoline-type inhibitor under sour environment conditions**
E. Valenzuela, Universidad Politécnica de Chiapas, Tuxtla/MEX; S. Serna, J.G. González-Rodríguez, Universidad Autónoma del Estado de Morelos, Cuernavaca/MEX; B. Campillo, Universidad Nacional Autónoma de México D.F., México/MEX; A. Torres, Universidad Autónoma del Estado de Morelos, Cuernavaca/MEX; J. Juárez-Islas, Universidad Nacional Autónoma de México D.F., México/MEX
- A 12 **Hydrodynamic conditions influence on copper pitting corrosion inhibition at hydrocarbonate-chloride solutions by benzotriazole**
E. Skrypnikova, S. Kaluzhina, Voronezh State University/RUS
- A 13 **Electrochemical and surface studies of pure zinc in neutral and alkaline media in presence and absence of some organic inhibitors**
I. Branzoi, A. Pruna, F. Branzoi, University of Bucharest/RO
- A 14 **Corrosion inhibition of Ti₆₀Cu₄₀ in aerated 1N HCl at 25°C by Benzotriazole (BTAH)**
A. Benchettara, H. Bouchemel, Université des Sciences et de la Technologie, Algiers/DZ
- A 15 **Inhibition of copper corrosion studied by electrochemical and EQCN techniques**
M. Finsgar, I. Milosev, Jozef Stefan Institute, Ljubljana/SLO
- A 16 **Inhibition of copper and steel corrosion by phthalonitrile derivatives**
E. Sezer, B. Ustamehmetoglu, Z. Altuntas-Bayir, K. Coban, A. Kalkan, Istanbul Technical University/TR
- A 17 **Blue stain in domestic fixtures exposed to drinking water: chemical characterization**
M. Letelier, G. Lagos, A. Reyes, Pontifical Catholic University of Chile, Santiago/RCH
- A 18 **Corrosion of sensitized 304SS in acidic-chloride media containing molybdate ions as inhibitors**
A. Alshamsi, N. Alameri, United Arab Emirates University, Al-Ain/UAE
- A 19 **Corrosion behaviour of superferritic stainless steels cathodically modified with minor additions of ruthenium in reducing environments**
J.H. Potgieter, C.N. Machio, P.A. Olubambi, E.-S.M. Sherif, University of the Witwatersrand, Johannesburg/ZA
- A 20 **Modified hydrochloric acid**
K. Chen Ke Zhong, Guangzhou Research Institute of Electric Apparatus/PRC

Session A: **Corrosion and Scale Inhibition**

- A 21 **The effect of synergism on the corrosion inhibition of Aluminum 3000 by 2-Butyne 1-4 diol and tartrate in 0.5 M NaCl**
M.G. Hosseini, University of Tabriz/IR; A.R. Yazdizad, T. Shahrabi, Tarbiat Modares University, Tehran/IR
- A 22 **Effects of some organic inhibitors on aluminium corrosion in chloride solutions of different concentrations**
F. Golgovici, V. Branzoi, F. Branzoi, University of Bucharest/RO

Session B: **Corrosion by Hot Gases and Combustion Products**

- B 1 **Oxidation behavior in an air-water mixture of hafnium diboride coatings obtained by electrochemical synthesis in molten salts**
S.A. Kuznetsov, S.V. Kuznetsova, Russian Academy of Sciences, Apatity/RUS; E.V. Rebrov, J.C. Schouten, Eindhoven University of Technology/NL
- B 2 **Protection coatings for heat exchanging surfaces of waste incineration boilers**
 J. Cizner, SVUM A.S., Prague/CZ; J. Pitter, Advanced Technology Group Ltd., Prague/CZ
- B 3 **Influences of the base element and of the density of carbides on the high temperature oxidation behaviour of M-Cr-C alloys**
P. Berthod, L. Aranda, R. Podor, C. Rapin, Université Henri Poincaré Nancy 1, Vandoeuvre-les-Nancy/F
- B 4 **Effect of tantalum on the high temperature oxidation kinetics of Fe-base, Fe-Ni-base and Ni-base alloys containing carbides**
P. Berthod, Y. Hamini, L. Aranda, Université Henri Poincaré Nancy 1, Vandoeuvre-les-Nancy/F
- B 5 **High temperature oxidation behaviour of alloys containing very high densities of carbides**
P. Berthod, P. Lemoine, L. Aranda, Université Henri Poincaré Nancy 1, Vandoeuvre-les-Nancy/F
- B 6 **Peculiarities of the oxide scale developed on the Fe-Cr-Al-Ni-La alloy during high temperature oxidation**
O. Tsursumia, E. Kutelia, Georgian Technical University, Tbilisi/GE; S.I. Bakhtiyarov, New Mexico Institute of Mining and Technology, Socorro, NM/USA
- B 7 **Corrosion resistant material for the synthesis of ultramarine**
 G. Bochmann, US Sächsisches Blaufarbenwerk GmbH, Zschorlau/D; V. Seidel, SWB Seidel Werkzeugbau GmbH, Brand-Erbisdorf/D; M. Zumdick, H.C.Starck GmbH & Co. KG, Goslar/D; B. Kloeden, Fraunhofer Institute for Manufacturing and Advanced Materials, Dresden/D
- B 8 **Semiconductivity of thin films on Ni-Cr alloys and their relevance to hot corrosion**
 C.A.C. Sequeira, D.M.F. Santos, Instituto Superior Técnico, Lisbon/P
- B 9 **Hot corrosion evaluation of 80Ni-20Cr thermal spray coating exposed to a high sulphate salt applying electrochemical techniques**
C. Cuevas-Arteaga, Universidad Autónoma del Estado de Morelos, Cuernavaca/MEX
- B 10 **Interdiffusion modelling of TiAlCr-coated TiAl system in open system (static air) at 750 °C using generalised Darken method**
T. Dudziak, A. Wilson, H. Du, Northumbria University, Newcastle upon Tyne/UK; M. Fröhlich, DLR-German Aerospace Centre, Cologne/D
- B 11 **Oxidation at high temperature (815°C and 1100°C) of new silicide and aluminide coatings for Nb- and Mo-alloys**
R. Podor, N. David, J.M. Fiorani, F. Zamoum, M. Vilasi, Université Henri Poincaré Nancy 1, Vandoeuvre-les-Nancy/F

Workshop: **Stress Corrosion Cracking**

- C 1 **Evaluation of SCC susceptibility of materials using SSRTs**
Y. Yi, K. Kim, Korea Atomic Energy Research Institute, Daejeon/ROK
- C 2 **Characterization of Zn-containing oxide films formed on alloy 600**
C. Neves, G. Alvial, M. Schwartzman, CNEN – National Nuclear Energy Commission, Belo Horizonte/BR

Session C: **Nuclear Corrosion**

- C 3 **Long-term effects of the AP-Citrox decontamination procedure on the protective oxide-layer formed on stainless steel**
B. Baja, K. Varga, Z. Németh, K. Rádó, D. Oravetz, K.E. Makó, University of Pannonia, Veszprém/H; Z. Homonnay, E. Kuzmann, Eötvös Loránd University, Budapest/H; J. Schunk, Paks Nuclear Power Plant Ltd., Paks/H
- C 4 **A novel corrosion database for steam generators of VVER-type nuclear reactors**
Z. Németh, K. Varga, B. Baja, K. Rádó, University of Pannonia, Veszprém/H; J. Schunk, Paks Nuclear Power Plant Ltd., Paks/H
- C 5 **Elaboration of a chemical decontamination technology: laboratory and semi-plant findings**
K. Varga, K. Rádó, R. Buják, Z. Németh, A. Horváth, L. Fodor, University of Pannonia, Veszprém/H; J. Schunk, Paks Nuclear Power Plant Ltd., Paks/H

Session C: Nuclear Corrosion

- C 6 **Comprehensive study of Uranium and Transuranium (Pu, Am, Cm) accumulation on stainless steel surfaces**
P. Kádár, K. Varga, I. Varga, Z. Németh, K. Rádó, University of Pannonia, Veszprém/H; N. Vajda, Budapest University of Technology and Economics, Budapest/H; Z. Stefanka, Hungarian Academy of Science, Budapest/H; T. Pintér, J. Schunk, Paks Nuclear Power Plant Ltd., Paks/H
- C 7 **Influence of the chromium content on the oxidation behavior of Fe-based alloys in Pb melt**
V. Tsisar, O. Yeliseyeva, V. Fedirko, National Academy of Sciences of Ukraine, Lviv/UA

Workshop: Corrosion Monitoring in Nuclear Plants

- C 8 **Analysis of acoustic emission signals generated from SCC propagation**
M.G. Alvarez, P. Lapitz, J. Ruzzante, Centro Atómico Constituyentes, Buenos Aires/RA
- C 9 **Development of online corrosion products monitoring system for the application in nuclear power plants**
J.-S. Moon, Korea Electric Power Research Institute, Daejeon/ROC

Session D: Environment Sensitive Fracture

- D 1 **Employing of the EPR method on damage of the martensitic stainless steel**
V. Cihal, Technical University of Ostrava/CZ; E. Kalabisova, SVUOM Ltd., Praha/CZ; V. Janik, Technical University of Prague/CZ; S. Lasek, M. Blahetova, Z. Krhutova, Technical University of Ostrava/CZ
- D 2 **The relation between microstructure and hydrogen induced cracks of stainless steels**
A. Haim, G. Ben-Hamu, D. Eliezer, Ben-Gurion-University, Beer-Sheva/IL
- D 3 **Resistance to HIC and SSC of TM-rolled fine grain structural steel**
J. Malina, M. Malina, University of Zagreb, Sisak/HR; G. Vruèinic, ZIT d.o.o. Zagreb/HR; A. Begic Hadzipasic, University of Zagreb, Sisak/HR
- D 4 **IGSCC of governor valve stem plug**
M. Al-Rabie, A. Al-Ahmari, I. Westhuizen, A. Babakr, Saudi Basic Industries Corporation, Jubail/SAR
- D 5 **Investigation on blade failure in steam turbines from an aspect of physical-chemistry of water**
D.S. Pacheco, C.V. Franco, M.M. Medeiros, Universidade Federal de Santa Catarina, Florianópolis/BR; L.A.M. Torres, Tractebel Energia S.A., Capivari de Baixo/BR; A.R.F. Ellwanger, Tractebel Energia S.A., Capivari de Baixo/BR
- D 6 **Theoretical effect of notch size on fatigue corrosion behaviour of an AISI 316L austenitic stainless steel**
H.Sedjal, Tizi Ouzou University/DZ; L. Rouibah, F. Hellal, National Polytechnic School, Algiers/DZ

Session E: Surface Science

- E 1 **Separation of metals by controlled anodic corrosion**
L. Binder, G. Koscher, Graz University of Technology/A
- E 2 **Effect of laser surface treatment on pitting corrosion behaviour of AISI 304 stainless steels in 3.5wt% NaCl**
A. Pardo, M.C. Merino, R. Arrabal, F. Viejo, S. Feliú Jr., D. López, Universidad Complutense, Madrid/E
- E 3 **EIS study on pitting corrosion of AA5083-H321 aluminum-magnesium alloy in stagnant 3.5% NaCl solution**
K. Jafarzadeh, T. Shahrabi, Tarbiat Modares University, Tehran/IR; M.G. Hosseini, Tabriz University, Tehran/IR
- E 4 **Effect of heat input on the corrosion behaviour of 316L root side of welds**
A. Vázquez, A. Fernández-Vicente, V. Pintos, AIMEN Technological Centre, Porriño/E; X.R. Nóvoa, Universidad de Vigo/E
- E 5 **Corrosion behaviour of Zn electrodeposits from spent Zn-MnO₂ batteries**
P. Brito, L. Rodrigues, A. Oliveira, Instituto Politécnico de Portalegre/P; C. Sequeira, D. Santos, Instituto Superior Técnico, Lisbon/P
- E 6 **Critical potential of morphological surface disordering of Ag-Au and Cu-Au alloys**
O.A. Kozaderov, O.V. Koroleva, A.V. Vvedenskii, Voronezh State University/RUS
- E 7 **The anodic oxidation of silver in chloride-alkaline solutions**
N.N. Lesnykh, L.E. Volkova, N.M. Tutukina, I.K. Marshakov, Voronezh State University/RUS
- E 8 **Anodic dissolution of Cu, Ag and their alloys with gold at potentials of formation of chloride films**
A. Vvedenskii, S. Grushevskaya, D. Kudryashov, Voronezh State University/RUS
- E 9 **Corrosion behavior of an Al-Si alloy processed by semi-solid rheocasting**
A. Forn, Universitat Politécnica de Catalunya, Vialnova i la Geltrú/E; J.M. Bastidas, CENIM – National Centre of Scientific Investigations, Madrid/E; M. Baile, E. Rupérez, I. Espinosa, Universitat Politécnica de Catalunya, Vialnova i la Geltrú/E
- E 10 **Study of the mechanical and electrochemical behavior of anodic "Al-Cu" alloys**
F. Chahinez, École Nationale Préparatoire aux Etudes d'Ingéniorat, Algiers/DZ; M.A. Belouchrani, T. Boukharouba, Université des Sciences et de la Technologie Houari Boumediene, Algiers/DZ
- E 11 **The investigation of copper anodic oxidation in perchlorate solutions in presence of α -alanine**
S.A. Kaluzhina, E.V. Orlova, E.A. Scrypnikova, Voronezh State University/RUS

Session E: **Surface Science**

- E 12 **The effect of nitrogen and boron ion implantation on the corrosion resistance of titanium alloy Ti-6Al-4V in solutions of hydrochloric and sulphuric acids**
V. Pokhmurskij, O. Kalakhan, G. Okhota, National Academy of Sciences of Ukraine, Lviv/UA; H. Pokhmurska, B. Wielage, Chemnitz University of Technology, Chemnitz/D; N. Levintant, Polish Academy of Sciences, Warsaw/PL
- E 13 **Passivity of a non-equilibrium Fe-25at%Sn supersaturated solid solution in phosphoric acid**
 S.M. Seyedinasab, M.H. Moayed, J. Vahdati-Khaki, Ferdowsi University of Mashhad/IR
- E 14 **Growth of porous anodic films on aluminium in sulfamic acid solutions**
I.A. Kanazirski, A.S. Zahariev, A.A. Girginov, T.B. Tzvetkoff, University of Chemical Technology and Metallurgy, Sofia/BG
- E 15 **Corrosion behaviour of C45 steel cone after a flat punch deformation**
 T. Hryniewicz, K. Rokosz, Koszalin University of Technology/PL; W. Malorny, University of Applied Sciences Neubrandenburg/D; L. Rypina, A. Biniek, Koszalin University of Technology/PL
- E 16 **Influence of additives on the transpassive dissolution of ferritic steels in phosphoric acid – acetic acid electrolytes**
 T. Tzvetkoff, University of Chemical Technology and Metallurgy, Sofia/BG
- E 17 **A new laser set-up: application to improvement of steel corrosion resistance**
C. Sortais, F.-A. Miannay, S. Cayols, P.-Y. Thro, O. Raquet, E. Herms, Commissariat à l'Énergie Atomique (CEA)/Saclay, Gif-sur-Yvette/F

Session F: **Corrosion Education and Computer Applications**

- F 1 **Electronic structures mechanical behavior and adsorption of oxygen on alloy NiAl {001} by density functional theory**
 T. Yingyuan, Shenyang Institute of Aeronautical Engineering/PRC; Z. Shenglong, W. Weitao, Institute of Metal Research, Shenyang/PRC
- F 2 **Evaluation of the resistance of alloy 31 and alloy 59 for the transport of mixed acids in tanks**
M. Weltschey, R. Bäßler, Federal Institute for Materials Research and Testing, Berlin/D; H. Werner, Institut für Korrosionsschutz Dresden GmbH/D; H. Alves, ThyssenKrupp VDM GmbH, Werdoh/D
- F 2 **Corrosion and their costs: an outstanding subject**
 M.V. Biezma, J.R. San Cristóbal, University of Cantabria, Santander/E

Session G: **Physico-Chemical Methods of Corrosion Testing**

- G 1 **Correlation analysis between electrochemical noise resistance in time and frequency domain for mild steel and stainless steel in solutions within all pH Scale**
A. Torres Islas, J. Uruchurtu, S. Serna, J.G. Gonzalez Rodriguez, Universidad Autonoma del Estado de Morelos, Cuernavaca/MEX
- G 2 **Ultrasonic detection of stainless steels sensitization to intergranular corrosion**
J. Pitter, Advanced Technology Group Ltd., Prague-Letnany/CZ; P. Louda, S. Tumova, P. Prokopcakova, Technical University of Liberec/CZ; J. Suchanek, Technical University of Prague/CZ
- G 3 **Monitoring exfoliation corrosion of AA2024 by means of electrochemical noise**
J.M. Sanchez-Amaya, M. Bethencourt, L. González-Rovira, F.J. Botana, University of Cadiz, Puerto Real/E
- G 4 **RRDE – Photopotential spectroscopy combined method for investigation of thin oxide films**
A. Vvedenskii, S. Grushevskaya, D. Kudryashov, S. Ganzha, Voronezh State University/RUS
- G 5 **Monitoring of steel structure corrosion state**
V. Korolov, Y. Vysotsky, A. Ryzhenkov, Open Joint-Stock Company "V. Shimanovsky Ukrainian Research and Design Institute of Steel Construction", Donetsk/UA
- G 6 **Measurement of hydrogen diffusion coefficient in micro alloy API steels – role of microstructure and specimen orientation**
J. Sojka, Technical University of Ostrava/CZ; L. Rytirova, M. Jerome, École Centrale Paris/F
- G 7 **Comparison between ECN (electrochemical noise) and EFM (electrochemical frequency modulation) measurements during pitting**
 A. Rauf, Katholieke Universiteit Leuven/B
- G 8 **The anodic oxidation of silver in chloride-alkaline solutions**
 N.N. Lesnykh, Voronezh State University/RUS
- G 9 **Experimental potential-pH diagrams of AISI 316L stainless steels in sulfate-containing aqueous solutions constructed by cyclic polarisation method: effect of solution temperature**
 S. Sodanil, K. Rattanasongkram, J. Boonnakka, P. Wardkhean, S. Danjarearn, K. Khumpai, S. Chandraambhorn, King Mongkut's Institute of Technology North Bangkok/THA
- G 10 **Pitting corrosion of some superaustenitic steels in NaBr solution**
E.A. Abd El Meguid, A.A. Abd El Latif, National Research Centre, Cairo/ET

Session H: **Marine Corrosion**

- H 1 **Study of corrosion of marine steel in the salty water of Urmia Lake**
R. Jafari Khushemehr, Azad University of Bonab, Tabriz/IR
- H 2 **Studies of the behaviour of the nitrate-reducing bacterium *Garcicella nitratireducens* in biocorrosion of steel alloys**
M. Bethencourt, University of Cadiz, Puerto Real/E; E. Miranda, Colegio de la Frontera Sur, Chetumal/MEX;
A. Corzo, University of Cadiz, Puerto Real/E; M.L. Fardeau, Universités de Provence et de la Méditerranée,
Marseille/F; J.M. Sánchez-Amaya, L. González-Rovira, F.J. Botana, University of Cadiz, Puerto Real/E
- H 3 **Monitoring the corrosion of steel sheet piles by means of ultrasound and corrosion potential measurements**
M. Bethencourt, J.M. Sánchez-Amaya, L. González-Rovira, F.J. Botana, University of Cadiz, Puerto Real/E
- H 4 **Inhibiting effect of certain substances biochemical on corrosion carbon steel in marine environment**
L. Touafri, University Center, Khemis Miliana/DZ; N. Aimeur, N. Benbrahim, A. Kadri, Tizi Ouzou University/DZ
- H 5 **Filling water test procedures for above-ground LNG storage tanks with Seawater**
G. Nakayama, Ishikawajima-Harima Heavy Industries Co., Ltd., Yokohama/J; K. Shibuya, H. Tatsuke,
Ishikawajima-Harima Heavy Industries Co., Ltd., Tokyo/J
- H 6 **Effect of ruthenium addition on the passivation of duplex stainless steel in aerated 3.5% NaCl solutions**
E.-S. M. Sherif, J.H. Potgieter, J.D. Comins, University of the Witwatersrand, Johannesburg/ZA; L. Cornish, Mintek,
Randburg/ZA; P.A. Olubambi, C.N. Machio, University of the Witwatersrand, Johannesburg/ZA
- H 7 **Modeling of calcareous deposit formation by pulse current cathodic protection on carbon steel in sea water**
M. Zamanzade, T. Shahrabi, Tarbiat Modares University, Tehran/IR
- H 8 **Study on anaerobic adhesives which used in the engineering equipment**
S. Zhang, Academy of Armored Forces Engineering, Beijing/PRC
- H 9 **Investigation of calcareous deposits formation on copper and 316L stainless steel in artificial seawater**
M. Sarlak, T. Shahrabi, M. Zamanzade, A. Sabour, Tarbiat Modares University, Tehran/IR
- H 10 **Corrosion of building's steel in the water-alcohol environment**
A. Sofronkov, A. Gawdzik, S. Gajda, University of Opole/PL; S. Kurmashev, University of Odessa/UA
- H 11 **An electrochemistry assessment on the galvanic corrosion in condenser of a fuel thermoelectric plant**
C.L. Chostak, D.S. Pacheco, C.V. Franco, Universidade Federal de Santa Catarina, Florianópolis/BR; L.A.M. Torres,
R. Coelho, Tractebel Energia S.A., Capivari de Baixo/BR

Session J: **Microbial Corrosion**

- J 1 **Iron corrosion by *Methanogenic Archaea* using CO₂ as a sole carbon source**
K. Ito, Nippon Steel Corporation, Chiba/J; T. Uchiyama, K. Mori, T. Lino, H. Tsurumaru, S. Wakai, National Institute of
Technology and Evaluation, Chiba/J; O. Miki, Nippon Steel Corporation, Chiba/J; S. Harayama, National Institute of
Technology and Evaluation, Chiba/J
- J 2 **The influence of photosynthetic organisms on the stainless steel ennoblement in seawater**
L. Orfei, S. Simison, J.P. Busalmen, Universidad Nacional de Mar del Plata/RA
- J 3 **Influence of different natural freshwaters on the electrochemical behaviour of stainless steels**
D. Aouali, Université de Technologie Compiègne/F; C. Marconnet, École Centrale Paris/F; C. Richard, Université de
Technologie Compiègne/F; C. Dagbert, École Centrale Paris/F; C. Lemaitre, Université de Technologie Compiègne/F

Session K: **Corrosion of Steel in Concrete**

- K 1 **Corrosion monitoring systems for the surveillance of degradation of steel reinforced concrete structures in waste water treatment plants**
P. Brito, L. Rodrigues, Instituto Politécnico de Portalegre/P; M. Cunha, Escola Superior da Maia/P
- K 2 **Monitoring of concrete electrochemical chloride removal (ECR)**
P. Brito, L. Rodrigues, R. Pires, Instituto Politécnico de Portalegre/P; M. Cunha, Escola Superior da Maia/P;
C. Sequeira, D. Santos, Instituto Superior Técnico, Lisbon/P
- K 3 **Thermodynamic approach to investigation of carbon steels passivation nature**
N.A. Muratova, S.A. Kaluzhina, Voronezh State University/RUS
- K 4 **Galvanic corrosion protection (GCP) of steel reinforcement by a novel zinc anode / solid electrolyte system**
W. Schwarz, CAS Composite Anode Systems GmbH, Vienna/A; P. Linhardt, Vienna University of Technology/A;
J. Tritthart, Graz Technical University/A
- K 5 **Application of carboxylic acids as inhibitors for chloride induced reinforcing steel corrosion**
L. Valek, S. Martinez, M. Serdar, I. Stipanović-Oslaković, University of Zagreb/HR
- K 6 **Corrosion behaviour of raw construction materials**
S. Aracic, D. Krumes, I. Kladaric, Mechanical Engineering Faculty, Slavonski Brod/HR
- K 7 **The corrosion resistance of chromium-nickel steel in calcium-hypochlorite solution**
D.V. Toskovic, Faculty of Technology, Zvornik/BIH; C. Lacnjevac, M.B. Rajkovic, Faculty of Agriculture, Belgrade/YU;
D. Stanojevic, Faculty of Technology, Zvornik/BIH

Session L: Corrosion in Oil and Gas Production

- L 1 **Monitoring of biofilm formation in pipelines**
F. Francisca Pessôa de França, E.F. Campoprese Servulo, A. Costa da Silva, D. Simas Bernardes Dias, L. Jordão da Silva, Federal University of Rio de Janeiro/BR; A. Villaça Simões, Transpetro/Petrobras, Rio de Janeiro/BR
- L 2 **Synthesis and evaluation of some Schiff base surfactants as a mild steel-corrosion inhibitor and SRB-biocide**
I. Aiad, N. Nigm, Egyptian Petroleum Research Institute, Cairo/ET
- L 3 **A study of the electrochemical behavior of niobium in relation to hydrogen charging**
A. Silva, H. de Araújo Ponte, A. Pashchuk, C.E.B. Marino, Universidade Federal do Paraná, Curitiba/BR
- L 4 **Erosion-Corrosion at water injection piping in GNPOC oil field**
W. Liu, S. Jian, China University of Petroleum, Beijing/PRC; X. Chen, G. Wang, Y. Wang, China National Oil & Gas Exploration and Development Corp., Beijing/PRC
- L 5 **Selection of pipes for gas mains subjected to stress corrosion cracking**
S. Lubensky, G. Rakitina, S. Dolgov, Joint-Stock Company "GAZPROM", Moscow/RUS
- L 6 **No chance for corrosion**
M. Holdefer, Pepperl+Fuchs GmbH, Mannheim/D
- L 7 **Corrosion monitoring of buried pipelines using fiber optic sensor**
D.S. de Freitas, H.S. Maranhão Bodstein, National Institute of Technology, Rio de Janeiro/BR; A. Braga, Catholic University of Rio de Janeiro/BR

Session M: Coatings

- M 1 **Modification of anodic layers on aluminium alloys**
S.K. Weidmann, DECHEMA e.V., Frankfurt am Main/D; M. Schneider, Fraunhofer-Institute for Ceramic Technologies and Systems, Dresden/D; W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D
- M 2 **Influence of Cu cementation coatings on corrosion resistance of AISI 304 stainless steel in 30wt% NaCl**
A. Pardo, M.C Merino, A.E. Coy, F. Viejo, R. Arrabal, J. De Ramón, Universidad Complutense, Madrid/E
- M 3 **Electro-polymerization of m-aminophenol on mild steel and its corrosion protection effect**
G. Bereket, E. Hur, B. Duran, D. Ozdemir, Eskisehir Osmangazi University/TR; Y. Sahin, Anadolu University/TR
- M 4 **Corrosion protection by multilayered polyaniline and poly(2-iodoaniline) coatings**
G. Bereket, D. Ozdemir, E. Hur, Eskisehir Osmangazi University/TR; Y. Sahin, Anadolu University/TR
- M 5 **Optimization of wear-corrosion properties of diamond like carbon films using filtered cathodic arc deposition**
A.H. Tan, Ching Yun University, Jung-Li/RC; Y.C. Cheng, National Central University, Jung-Li/RC; C.K. Lee, Ching Yun University, Jung-Li/RC; S.L. Lee, National Central University, Jung-Li/RC
- M 6 **The influence of carbon layers on corrosion of Rex 734 and Panacea P558 alloys in 0.5 M NaCl and Tyrode's solutions**
T. Błaszczyk, H. Scholl, A. Leniart, B. Burnat, W. Kaczorowski, University of Lodz/PL; L. Klimek, Technical University of Lodz/PL
- M 7 **Effects of plasma process parameters on wear properties of zirconia coatings**
K. Brinkiene, J. Cesniene, R. Kezelis, V. Mecius, A. Zunda, Lithuanian Energy Institute, Kaunas/LT
- M 8 **Effect of physical parameters on the killed steel in hot-dip galvanizing**
J. Ben nasr, École Nationale d'Ingénieurs de Sfax/TN; A. Snoussi, Institut Supérieur des Etudes Technologiques de Sfax/TN; C. Bradai, F. Halouani, École Nationale d'Ingénieurs de Sfax/TN
- M 9 **Influence of oil composition coatings on kinetics of electrode processes on carbon steel in NaCl solutions in the SO₂ presence**
L. Tsygankova, V. Vigdorovich, N. Shel, A. Osetrov, Derzhavin State University, Tambov/RUS
- M 10 **Corrosion of coated cast iron in aqueous solutions**
R. Mehra, A. Soni, Maharshi Dayanand Saraswati University, Ajmer/IND
- M 11 **The evaluation of rust stabilization coating for weathering steel**
J. Cho, Pohang Iron and Steel Company/ROK
- M 12 **Electrodeposition of nickel-based coatings with some useful functional properties**
N. Sotskaya, O. Dolgikh, Y. Kravtsova, Voronezh State University/RUS
- M 13 **Influence of sealing and two-steps anodizing on the morphology and corrosion behaviour of anodized AA1050**
L. González-Rovira, J.M. Sánchez-Amaya, M. Bethencourt, F.J. Botana, University of Cadiz, Puerto Real/E
- M 14 **Effect of H₂ and O₂ gases on the wear-corrosion resistance properties of diamond films deposited by a hot filament CVD**
C.K. Lee, Ching Yun University, Jung-Li/RC
- M 15 **Corrosion resistance behaviour of new epoxy-siloxane hybrid coatings**
I. Díaz, D. de la Fuente, J. Simancas, M. Morcillo, National Center for Metallurgical Research, Madrid/E
- M 16 **Corrosion protection of AISI 316L by sol-gel films in 0.1M NaCl**
C. Martinez, M.A. Páez, M. Sancy, L. Tamayo, J. Pavez, H. Torres, A. Monsalve, Universidad de Santiago de Chile/RCH
- M 17 **Comparison study between different systems of pipeline coating**
N. Hamdy, PETROJET, Cairo/ET

Session M: Coatings

- M 18 **Corrosion protection of electrodeposited sol-gel films on aluminium and stainless steel**
E. García-Lecina, I. Etxeberria, N. Imaz, J.A. Díez, Centre for Electrochemical Technologies, Donostia – San Sebastián/E
- M 19 **Evaluating alternatives to coal tar epoxy coatings for partially immersed steel structures in estuary and seawater**
J.P. Figueiredo, J.H. Alexandre, M.C. Ferreira, A.S. Vieira, National Institute of Engineering, Technology and Innovation, Lisbon/P
- M 20 **Investigation of the electrochemical properties of sol-gel TiO₂ nanoparticle coating on chemically pre-treated mild steel substrate**
A. Shanaghi, M. Zamanzade, A. Sabour Rouhaghdam, Tarbiat Modares University, Tehran/IR
- M 21 **Corrosion protection of aluminium in 0.5%NaCl solution with applied a TiO₂ nanoparticle coating by sol-gel method**
A. Shanaghi, M. Zamanzade, A. Sabour Rouhaghdam, Tarbiat Modares University, Tehran/IR
- M 22 **Intrinsically conductive polymer coatings for aluminium alloys**
A. Tsirimpis, University of Athens, Ag. Paraskevi/GR; I. Kartsonakis, P. Liatsi, I. Danilidis, G. Kordas, University of Athens/GR
- M 23 **Morphology and microstructure of continuously electrocoated zinc**
M.B. Cardona, R.M. Rapelli, Universidade Estadual de Campinas/BR
- M 24 **Corrosion behavior on aluminium alloy 6061 samples covered with nickel-phosphorous alloys obtained by autocatalytic method**
M.E. Castro, J.A. Barbero, E. Bubach, A. Wiesztort, Comisión Nacional de Energía Atómica, Bariloche/RA
- M 25 **Photo cathodic protection coating fabricated by warm spray**
J. Kawakita, T. Shinohara, S. Kuroda, National Institute for Materials Science, Tsukuba/J; M. Suzuki, S. Sodeoka, National Institute of Advanced Industrial Science and Technology, Tsukuba/J
- M 26 **Niobium electrodeposition in fluoride melts and its corrosion behaviour**
C.A.C. Sequeira, D.M.F. Santos, Instituto Superior Técnico, Lisbon/P
- M 27 **Tribological properties of ARC sprayed coatings of aluminium based cored wires**
V. Pokhmurskii, M. Student, V. Dovhunya, V. Vynar, G.V. Karpenko, National Academy of Sciences of Ukraine, Lviv/UA; H. Pokhmurska, B. Wielage, T. Grund, University of Technology, Chemnitz/D
- M 28 **Corrosion protection of copper and steel by conducting polymer coating**
S. Tayyar, K. Coban, B.F. Senkal, E. Sezer, B. Ustamehmetoglu, Istanbul Technical University/TR
- M 29 **Corrosion performance of nanoparticle-containing polyaniline films on AA3105 aluminium alloy**
O. Zubillaga, F.J. Cano, Inasmet, San Sebastian/E; A.M. Cabral, P.J. Morais, Instituto de Soldadura e Qualidade, Porto Salvo/P; I.S. Molchan, P. Skeldon, G.E. Thompson, The University of Manchester/UK; T. Schmidt, M. Schem, Leibniz Institut für Neue Materialien gGmbH, Saarbrücken/D
- M 30 **Corrosion protection of copper and steel by conductive polypyrrole-methyl ethyl ketone formaldehyde resin copolymer coating**
P. Yazici, K. Coban, E. Sezer, B. Ustamehmetoglu, N. Kizilcan, A. Akar, Istanbul Technical University/TR
- M 31 **Influence of the addition of various alkoxysilanes on the corrosion inhibition of organic-inorganic urea/polydimethylsiloxane hybrids on AA 2024 aluminium alloy**
A. Surca Vuk, M. Fir, M. Kozelj, B. Orel, National Institute of Chemistry, Ljubljana/SLO
- M 32 **Inhibition of pyrite corrosion and photocorrosion by PNVCz and copolymers with MEKF-R**
B. Ustamehmetoglu, E. Sezer, N. Kizilcan, P. Yazici, S. Tayyar, Istanbul Technical University/TR
- M 33 **Effect of saccharine addition on characterization and corrosion performance of polypyrrole coating**
N. Attarzadeh, K. Raeissi, M.A. Golozar, S. Mallakpour, Isfahan University of Technology/IR
- M 34 **Electrochemical study of the molten salt nitriding process in a NaCNO-modified (Li,Na,K)₂CO₃ mixture**
A. Littner, ALMA Consulting Groupe, Lyon/F; R. Podor, C. Rapin, M. Vilasi, LCSM UMR7555, Vandoeuvre/F
- M 35 **Electrochemical corrosion behavior of electroless Ni-W-P/Pr₂O₃ plating**
Y. Huang Yanbin, Academy of Armored Forces Engineering, Beijing/PRC
- M 36 **Advanced electroless Ni-P coatings containing tungsten or nano-sized alumina particles: the effect of kinetic parameters**
A.S. Hamdy, Central Metallurgical Research and Development Institute, Cairo/ET; H. Hady, Saqr Factory for Advanced Militaries Industries, Cairo/ET; M. Shoeib, Central Metallurgical Research and Development Institute, Cairo/ET; O.F. Abdel Salam, University of Cairo/ET
- M 37 **Electrochemical impedance studies on Ni-P-W and Ni-P-Al₂O₃ nano-composite alloy coatings in 3.5% NaCl**
A.S. Hamdy, Central Metallurgical Research and Development Institute, Cairo/ET; H. Hady, Saqr Factory for Advanced Militaries Industries, Cairo/ET; M. Shoeib, Central Metallurgical Research and Development Institute, Cairo/ET; O.F. Abdel Salam, University of Cairo/ET
- M 38 **Corrosion resistance of 304 stainless steel coated with gel-silica film**
M.M.R. Castro, V.F.C. Lins, C.H.S. Bouças, W.L. Vasconcelos, Federal University of Minas Gerais, Belo Horizonte/BR
- M 39 **New corrosion inhibiting nanoparticles for chromium-free self-healing coatings on AA 2024**
M. Schem, T. Schmidt, H. Caparotti, M. Wittmar, J. Adam, R. Drumm, M. Aslan, M. Veith, Leibniz-Institut für Neue Materialien gGmbH, Saarbrücken/D

SCIENTIFIC POSTER PROGRAMME

Session M: **Coatings**

- M 40 **Influence of UV-radiation on the physical-mechanical properties of nitrodope**
S. Cakic, Faculty of Technology, Leskovac/YU; C. Lacnjevac, Faculty of Agriculture, Belgrade-Zemun/YU;
M. Gligoric, Faculty of Technology, Zvornik/BIH; M. Barac, Faculty of Agriculture, Belgrade/YU;
D. Dordevic, Faculty of Technology, Leskovac/YU; L. Kostic-Despotovic, Pomoravlje, Nis/YU
- M 41 **Performance of two-component aqueous polyurethane coatings affected by the structure of the acrylic polyol component and the catalyst's selectivity**
C. Lacnjevac, Faculty of Agriculture, Belgrade/YU; S. Cakic, Faculty of Technology, Leskovac/YU;
M. Barac, Faculty of Agriculture, Belgrade/YU; Lj. Takic, Faculty of Technology, Leskovac/YU;
M. Gligoric, Faculty of Technology, Zvornik/BIH; M. Rajkovic, Faculty of Agriculture, Belgrade/YU
- M 42 **Layered double hydroxides for aluminium alloys corrosion resistance**
C.M. Rangel, M.A Travassos, Instituto Nacional de Engenharia, Tecnologia e Inovacao, Lisbon/P
- M 43 **Corrosion behavior of the electrodeposited Ni-P-Cr alloy and the nano-composite Ni-P-Cr-x Al₂O₃ on brass**
M. Shoeib, F. Bayoumi, Central Metallurgical Research and Development Institute, Cairo/ET;
O. El-Farouk, Cairo University/ET; A. Yousef, Aircraft Factory (AOI) Helwan, Cairo/ET
- M 44 **Investigation corrosion behavior of hard chromium coatings obtained from direct and pulse electroplating in salt fog environments**
M. Saghi, M. Khameneh, University of Tabriz/IR
- M 45 **Structure and protective qualities of ion-plasmas coatings of chrome alloys on steel**
T.V. Cheban, A.D. Sokolov, A.I. Kostrzhitskiy, Odessa National Academy of Food Technology/UA
- M 46 **Theoretical aspects of corrosion processes development on the porous coating surface**
A. Kalinkov, A.V. Shalygin, Odessa National Academy of Food Technology/UA

Session N: **Corrosion in the Refinery Industry**

- N 1 **Catastrophic failures of storage tanks bottom plates**
M. Al-Sonidah, A. Babakr, Saudi Basic Industries Corporation, Jubail/SAR
- N 2 **Determination of the equilibrium constants of coordination of naphthenic acid with the metal ions Mg(II) and Ca(II) to improve the understanding of salt hydrolysis and overhead corrosion**
A.L.V Cubas, M.G. Zippert, B. Szpoganicz, C.V. Franco, M. Silva, Universidade Federal de Santa Catarina, Florianopolis/BR

Session O: **Cathodic Protection**

- O 1 **Cathodic protection of buried pipeline by solar energy: a case study**
B. Laoun, S. Lazhar, Applied Research Unit in Renewable Energies, Ghardaia/DZ
- O 2 **A simple model to study the effect of coating ageing on the potential of cathodic protection of a buried pipeline**
B. Laoun, S. Lazhar, Applied Research Unit in Renewable Energies, Ghardaia/DZ
- O 3 **Cathodic protection against corrosion in Bulgaria**
Zh. Zhekov, Elkaprin Engineering, Sofia/BG
- O 4 **Measurements of galvanic currents in a cell with superimposed alternating currents**
M. Høyer-Hansen, A. Nysveen, Norwegian University of Technology and Science, Trondheim/N;
J.K. Lervik, SINTEF Energy Research, Trondheim/N
- O 5 **Rotating cylinder electrode study on the influence of turbulent flow on the corrosion of Al-Zn-Mg alloys in artificial seawater media**
M.C. Quevedo, J. Genesca, Universidad Nacional Autonoma México, México D.F./MEX
- O 6 **Cathodic disbondment in high performance coatings: experimental and numerical results**
D.S. Freitas, National Institute of Technology, Rio de Janeiro/BR; S.L.D.C. Brasil, Federal University of Rio de Janeiro/BR;
W. Baptista, Petrobras/Cenpes, Rio de Janeiro/BR; J.C.F. Telles, J.A.F. Santiago, Federal University of Rio de Janeiro/BR;
J.H.L. Oliver, Petrobras/Transpetro, Rio de Janeiro/BR
- O 7 **Neural networks prediction of different frequencies' effects on calcareous deposits formation under pulse cathodic protection**
M. Zamanzade, T. Shahrabi, Tarbiat Modares University, Tehran/IR
- O 8 **Influence of surface nitriding on the pipelines steel resistance to hydrogen pickup**
I. Vjunitsky, S. Tyurin, N. Pokrovskaya, V. Pritula, VNIIST, Moscow/RUS

Session P: **Automotive Corrosion**

- P 1 **Influence of microstructure on the corrosion performance of dual phase steels**
 D. Farias, J.M.C. Mol, H. Terryn, J.H.W. de Wit, Technical University of Delft/NL;
 F. Hannour, Corus Research Development and Technology, Ijmuiden/NL

Workshop: **Bio-Tribocorrosion**

- Q 1 **Tribocorrosion resistance of plasma carburizing stainless steel AISI 316L and AISI 304 with the STCcell**
 C.B. Santos, Fraunhofer Institute for Manufacturing Engineering and Automation, Stuttgart/D; J. Zoppas Ferreira, S.J. Gobbi, R. Jacques, L. Teischmann, T.R. Strohaecker, Universidade Federal do Rio Grande do Sul, Porto Alegre/BR; H. Holeczek, Fraunhofer Institute for Manufacturing Engineering and Automation, Stuttgart/D
- Q 2 **Tribocorrosion characterization of titanium alloy for medical applications**
 T.M. Manhabosco, C.B. Santos, I.L. Müller, Universidade Federal do Rio Grande do Sul, Porto Alegre/BR; J. Bohnet, K. Schmid, Fraunhofer Institute for Manufacturing Engineering and Automation, Stuttgart/D
- Q 3 **Characterization of „run-off“ effects of metal materials exposed at atmosphere using artificial neural network**
 M. Halama, Technical University of Kosice/SK; D.P. Jerolitsch, Vienna University of Technology/A; S. Blazic, University of Ljubljana/SLO
- Q 4 **Effect of the lubricating degradation on the tribocorrosion of grey cast iron**
 A. de Frutos, M.A. Arenas, A. Conde del Campo, B.J. Fernández, J. de Damborenea, Centro Nacional de Investigaciones Metalúrgicas, Madrid/E
- Q 5 **Assessment of bio-tribo-corrosion for an orthopaedic implant material high carbon CoCrMo alloy by in-situ electrochemical measurements**
 Y. Yan, A. Nevill, D. Dowson, J. Fisher, University of Leeds/UK
- Q 6 **An attempt to correlate mechanical and electrochemical responses in a tribocorrosion system**
 A. Berradja, G. Willems, J.-P. Celis, Katholieke Universiteit Leuven/B

Workshop: **Corrosion in Drinking Water Systems**

- DW 1 **Performance of stainless steels against corrosion in peroxide solutions**
 A. Singh, IIT-Roorkee, Saharanpur/IND; A. Sharma, V. Chowdhary, JVJain College, Saharanpur/IND

Poster Award Information

The poster presentation of latest results is an important facet of the scientific programme. This role will be emphasised in Freiburg by the Best Student Poster Award which will be made for 3 student posters. The ceremony will take place during the conference dinner on Wednesday, 12 September 2007.

Last-Minute Poster Submission

Further poster contributions can be accepted as last-minute posters, subject to approval by the International Scientific Committee and as long as free capacity is available. These last-minute posters will be announced in the last-minute information available to participants at the beginning of the conference.

Submission of last-minute posters is possible until **10 August 2007** at the latest. Papers can only be accepted via online submission. For full information and submission: www.eurocorr.org
Please note: the registration fee cannot be waived for authors.

Proceedings

Full papers of all lectures and posters submitted by the authors will be available on CD-ROM at the congress.

Exhibition

The exhibition part of the congress offers a forum for companies in the field of corrosion. They are invited to display their full spectrum of instruments, equipment and services to an international audience. Located in the area of the coffee breaks and poster sessions, the exhibition will be a showcase for all participants and a valuable communication tool.

We accept further registration as long as stand space will be available.

Exhibition Opening Hours:

| | |
|------------------------------|---------------|
| Monday, 10 September 2007 | 09:00 – 19:30 |
| Tuesday, 11 September 2007 | 09:00 – 17:25 |
| Wednesday, 12 September 2007 | 09:00 – 17:25 |
| Thursday, 13 September 2007 | 09:00 – 15:40 |

For further details regarding the exhibition please contact:

By Friday, 7 September 2007

DECHEMA e.V.
EUROCORR exhibition office
Ms. Karin Bambach
Theodor-Heuss-Allee 25
60486 Frankfurt am Main/D
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From Sunday, 9 September 2007 and during the conference

Konzerthaus Freiburg
EUROCORR exhibition office
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Internet: www.eurocorr.org

List of Exhibitors (as of 25 May 2007)

ACCOATAccoat A/S
Kvistgaard/DK**EFC**EFC – European Federation of Corrosion
Frankfurt am Main/D and London/UK
and Paris/F**NACE**
INTERNATIONALNACE International
Houston, TX/USA**alicon**
imagingAlicona Imaging GmbH
Graz/A**EKT technologies**
Zukunftsträchtige Messtechnik zu fairen PreisenEKTechnologies GmbH
Wesel/D**PEPPERL+FUCHS**Pepperl+Fuchs GmbH
Mannheim/D**Borin**
Manufacturing, Inc.BORIN Manufacturing
Los Angeles, CA/USA**GAMRY**
INSTRUMENTSGamry Instruments Inc.
Warminster, PA/USAPoligrat GmbH
München/D**BUTTING**Butting GmbH & Co. KG
Knesebeck/D**GfKORR**GfKORR e.V., Society for
Corrosion Protection
Frankfurt am Main/D**STELAX**Stelax International Ltd.
Kirkland, WA/USA**Corrocont**Corrocont Ltd.
Budapest/H**IPS**
Ingenieurbüro Peter SchremsIngenieurbüro Peter Schrems
Münster/D**V&C**
cathodic
protectionV&C Kathodischer
Korrosionsschutz Ges.m.b.H.
Pressbaum/A**DECHEMA e.V.**DECHEMA e.V., Society
for Chemical Engineering
and Biotechnology
Frankfurt am Main/D**RUSTROL**
SYSTEMSInterprovincial Corrosion Control
Company Limited
Burlington/CDN**THE WORLD
CORROSION
ORGANIZATION**WCO – World Corrosion Organization
Morristown, NJ/USA**DE NORA DEUTSCHLAND GmbH**
GRUPPO DE NORADeNora Deutschland GmbH
Rodenbach/D**HAYNES**
InternationalHaynes International
Cergy-Pontoise/F**WIKON**WIKON Kommunikationstechnik GmbH
Kaiserslautern/D

Registration and Welcome Reception**Sunday, 9 September 2007**

The conference will start with a welcome reception for all participants on Sunday, 9 September 2007 from 16:30 to 19:00 in the Konzerthaus Freiburg. Drinks and snacks will be served by invitation of the organisers.

Please fill in the attached registration form (free of charge).

Poster Discussion/Poster Party**Monday, 10 September 2007**

Visit the posters and talk to the exhibitors and to your colleagues over a glass of beer. All participants are invited to the poster party which will take place on Monday, 10 September 2007 (from 17:00 to 19:30) in the foyer of the lecture halls amidst the posters and the exhibition stands.

Drinks and snacks will be served by invitation of **WILEY-VCH Verlag**, Weinheim/D.



Registration is necessary. Please fill in the attached registration form (free of charge).

Conference Dinner at the "Historisches Kaufhaus"**Wednesday, 12 September 2007**

The conference dinner will take place at the "Historisches Kaufhaus" (Historical Merchants' Hall), 20:00-24:00 h.

Situated on the Münsterplatz and thus in the heart of the city, the Historical Merchants' Hall is one of the architectural treasures of historical Freiburg. The provincial parliament of Baden used to hold its meetings here before the two German federal states, Baden and Württemberg, were united.

Cost per person: € 65.00 (incl. 19% VAT) inclusive buffet and drinks.

To register, please fill in the attached registration form.

Please note: seats are limited, so we recommend early registration.



Saturday, 8 September 2007

11:00 – approx. 18:00

Guided Mountain Bike Tour to the Famous "Schauinsland"

Meeting point: 11:00 main entrance, Konzerthaus Freiburg

This tour is a good opportunity to enjoy the beautiful countryside. Beside the impressive hills you will experience the Black Forest and mountains of Freiburg, including wonderful panoramic views of the city and the Rhine valley.

Distance: approx. 45 km, 1000 m difference in altitude,
condition: normal physical fitness, streets and gravel roads, no risks involved.

Different levels according to skills are possible, stops at nice countrystyle restaurants can complement the tour.

You can bring your own mountain bike or you can rent a bike. For bike rental please contact the local bike shops at: www.extratour-freiburg.de (prices between 20.00 € - 35.00 € per day). Please provide your own snacks and drinks (sufficient water).



Registration is necessary, please register until 5 September 2007 (free of charge). Please fill in the attached registration form.

Tuesday, 11 September 2007

18:30 – approx. 20:00

Sight-Seeing Tour of Freiburg

An English-speaking guide will introduce you to Freiburg's beautiful sights to give you an impression of the city's extraordinary flair. As you walk through the old town you will become acquainted with the city's most interesting streets, squares and buildings.

Cost per person: € 7.00 (incl. 19% VAT)

Minimum number of participants: 15, maximum number of participants: 30.

To register, please fill in the attached registration form.

Tuesday, 11 September 2007

18:30 – approx. 22:00

Sight-Seeing Tour of Freiburg with Wine Tasting

This extended sight-seeing tour of Freiburg will also take you through the old town of Freiburg with its fascinating streets, squares and buildings. The tour will end with a wine tasting at the "Alte Wache" House of Baden Wines where you will have the opportunity to taste 6 different Baden wines. A light meal will be served.

Cost per person: € 40.00 including the wine tasting and light meal.

Minimum number of participants: 15, maximum number of participants: 30.

To register, please fill in the attached registration form.



Tuesday, 11 September 2007

20:15 – approx. 21:30

Organ recital in the "Freiburger Münster"

Participants will have the opportunity to attend an organ recital in the famous "Freiburger Münster".

Cost per person: € 5.50

To register, please fill in the attached registration form.

Please note: seats are limited, so we recommend early registration.



Further sight-seeing tours or excursions can be booked individually at Freiburg Kultour (contact details on page 41).

GENERAL INFORMATION

Congress Site

Konzerthaus Freiburg
 Konrad-Adenauer-Platz 1
 79098 Freiburg im Breisgau/D
 Internet: www.konzerthaus.freiburg.de

Congress Office

By Friday, 7 September 2007

DECHEMA e.V.
 Ms. Andrea Köhl
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From Sunday, 9 September 2007 and during the conference

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 E-Mail: eurocorr@dechema.de

Office Hours:

The congress office is open:

| | |
|------------------------------|---------------|
| Sunday, 9 September 2007 | 16:00 – 19:00 |
| Monday, 10 September 2007 | 08:00 – 18:00 |
| Tuesday, 11 September 2007 | 08:30 – 18:00 |
| Wednesday, 12 September 2007 | 08:30 – 18:00 |
| Thursday, 13 September 2007 | 09:00 – 16:00 |

Congress Language

The congress language is English.

Registration

Please register online at www.eurocorr.org or complete the enclosed registration form and return it to DECHEMA e.V., Andrea Köhl. Please use a separate copy for each participant.

In general there is no registration deadline as long as free capacity is available. Please note: registrations received after **15 August 2007** are not guaranteed to entry in the list of participants.

Confirmation of registration and an invoice will be sent after receipt of the registration form. Conference ticket, name tag, full paper CD-ROM, a book of abstracts, as well as the tickets for the conference dinner and/or sight-seeing tours will be available at the congress office in Freiburg.

Registration Fees

The registration fees include admission to all sessions, the company and poster exhibition, the list of participants, the full paper CD-ROM as well as the welcome reception on Sunday, 9 September 2007, the poster party on Monday, 10 September 2007, and soft drinks during the coffee breaks.

Congress Tickets¹⁾

| | Early registration by 15 July 2007 | Late registration from 16 July 2007 |
|--|---------------------------------------|--|
| EFC Members / EFC Passport Holders ²⁾ | € 610.00 | € 710.00 |
| Regular | € 660.00 | € 770.00 |
| Students ²⁾ | € 250.00 | € 300.00 |
| Day ticket | € 270.00 | € 320.00 |

1) No VAT requested acc. to § 4.22 UStG

2) proof of status must be attached

Remittance of Fees

Fees should be remitted after receipt of the invoice in favour of DECHEMA e.V., using the keyword EUROCORR 2007 and stating the invoice number and the name of the participant, to one of the accounts given on the invoice.

Payment by credit card (Mastercard, VISA, AMEX, DINERS) is also accepted.

Please note that at the congress office only payment in cash or by credit card in Euros can be accepted, but not in other currencies.

Cancellation and Refunds

€ 30.00 administrative costs will be charged for cancellations of registrations received before **15 August 2007**. Thereafter, 80% of the registration fee will be invoiced. Cancellations have to be made in writing (letter, fax or email).

Cancellations for the congress dinner and the sight-seeing tours will be accepted free of charge until **15 August 2007**. After that date the full amount will be charged.

Lunch

Lunches are **not included** in the conference fee. The congress site is surrounded by numerous restaurants or bars. A list of addresses will be available at the congress office in Freiburg.

Visa Formalities

Participants from a number of countries may need an entry visa for the Federal Republic of Germany. It is recommended that this is applied for well in advance of the meeting. If a formal invitation letter is needed please contact the congress office at DECHEMA e.V. (www.eurocorr.org) in good time.

Insurance

The organisers cannot accept responsibility for loss or damage to the private property of participants and accompanying persons which may occur either during or arising from the conference. Participants should therefore take whatever steps they consider necessary for their insurance.

Accompanying Persons – Meeting Point

From Monday, 10 September 2007, to Thursday, 13 September 2007, there will be a meeting point at 10:00 in the morning for accompanying persons on the ground floor of the Konzerthaus Freiburg.

This meeting point gives an opportunity to contact each other, for example to plan sight-seeing tours in a group.

GENERAL INFORMATION

Accommodation

Accommodation has been reserved for conference participants at a special discount. Reservations should be made directly by the participants with the keyword "EUROCORR" before **31 July 2007**

at the

Dorint **Novotel** am Konzerthaus
Konrad-Adenauer-Platz 2
79098 Freiburg im Breisgau/D
Phone: +49 / (0)761 / 3889-0
Fax: +49 / (0)761 / 3889-100
E-Mail: H5383-re@accor.com
Internet: www.accorhotels.com

(single room from € 124.00 (incl. VAT) per person per night incl. breakfast)

Further hotel rooms are available at different rates and in different categories, all located near the Konzerthaus Freiburg, through the

Cooperation Office

"Freiburger Private City Hotels"
Heinrich-von-Stephan-Str. 8
79100 Freiburg im Breisgau/D
Phone: +49 / (0)761 / 30 80 7
Fax: +49 / (0)761 / 37 87 4
E-Mail: info@freiburg-hotels.de
Internet: www.freiburg-hotels.de

We highly recommend booking hotel rooms at your earliest convenience.

The reservations are binding. Charges for rooms which are not used, must be paid by the participant.

City of Freiburg

Freiburg – located between the Black Forest mountains and the plains of the Rhine Valley – is a small beautiful town in the southwest of Germany in the region where three countries meet: France, Switzerland and Germany. Freiburg has a reputation as an attractive historical town.

The conference centre (Konzerthaus Freiburg) is located near the city centre within walking distance of the shopping areas and many restaurants.



How to reach Freiburg

Arriving by car

From the north and south you can reach Freiburg via the A5 Rhine Valley motorway (Karlsruhe-Basel), the A81 motorway (Stuttgart-Singen) or the B3, and from the east via the B31 through "Höllental". Connections to French and Swiss motorway networks are given. The Konzerthaus is well signed out. Car parking is possible in the "Konzerthausgarage", directly located under the Konzerthaus (subject to charge).

Arriving by air

The Basel-Mulhouse-Freiburg EuroAirport (on French territory) serves more than 100 direct destinations, a shuttle bus is provided to/from Freiburg city centre (main railway station/Konzerthaus). Freiburg is also accessible via Frankfurt (direct trains from Frankfurt airport available), Zurich, Strasbourg and Stuttgart airports.

Further information: www.euroairport.com, www.frankfurt-airport.de, www.bahn.de

Arriving by train

Freiburg is accessible by Intercity Express, Intercity and Eurocity. Travellers coming by train are rewarded by short distances in the city. The Konzerthaus is located directly vis-à-vis the Freiburg main railway station.

Further information: www.bahn.de

Further Sight-Seeing Information

A wide range of different sight-seeing tours will be available in Freiburg and surroundings, in the Black Forest as well as excursions to Alsace, France.

Sight-seeing information and booking of sight-seeing tours:

Freiburg Kultour

Rathausplatz 2-4

79098 Freiburg im Breisgau/D

Phone: +49 / (0)761 / 290 74 47

Fax: +49 / (0)761 / 290 74 49

Email: info@freiburg-kultour.com

Internet: www.freiburg-kultour.com

Opening hours:

Monday – Friday 09:30 – 18:00

Saturday 09:30 – 14:30 (only May to October)

Closed Sunday!

General tourist information:

Freiburg Wirtschaft Touristik und Messe GmbH & Co. KG

Rathausplatz 2-4

79098 Freiburg im Breisgau/D

Phone: +49 / (0)761 / 3881-880

Fax: +49 / (0)761 / 3881-887

Email: touristik@fwtm.freiburg.de

Internet: www.fwtm.freiburg.de

Opening hours (June to September):

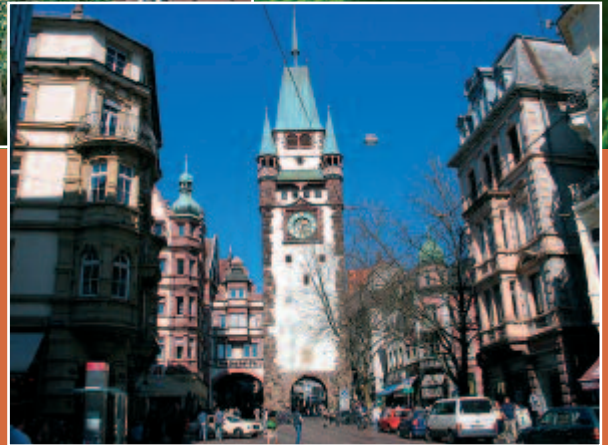
Monday – Friday 09:30 – 20:00

Saturday 09:30 – 17:00

Sunday 10:00 – 12:00

Photos: Karl-Heinz Raach / Rüdiger Buhl

Freiburg Wirtschaft und Touristik GmbH & Co. KG



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