

EUROPEAN FEDERATION OF CORROSION
EUROPÄISCHE FÖDERATION KORROSION
FÉDÉRATION EUROPÉENNE DE LA CORROSION



BOARD OF ADMINISTRATORS

Moscow, Russia

September 13, 2010

WORKING PAPERS

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WORKING PAPERS

Meeting of the Board of Administrators

of the

European Federation of Corrosion

Moscow, Russia, September 13, 2010

Venue of meeting: **Gubkin Russian State University of Oil and Gas
65, Leninsky prospekt
119991 Moscow
Russia**

Date and time of meeting: **Monday, September 13, 2010 - 14h00**

Chairman: **Pr. Philippe Marcus (EFC President)**

Secretary: **Mrs. Pascale Bridou Buffet (Paris Office)**

EUROPEAN FEDERATION OF CORROSION
MEETING OF THE BOARD OF ADMINISTRATORS, MOSCOW, 13th SEPTEMBER 2010, 14.00

PROPOSED AGENDA

- Item 01 Opening of the meeting
- Item 02 Apologies for absence
- Item 1 Approval of the Agenda and Adoption of the Minutes of the Last Meeting
- Item 2 Report on STAC Activities
- Item 3 Status of the Postal Votes for changes of the EFC Statutes
- Item 4 Extension of the Term of Office of the EFC President and Vice President
- Item 5 Administrative Matters
 - 5-1 Status of Elections to BoA
 - 5-2 Status of Elections to STAC
 - 5-3 Proposed Job Description for a Scientific Secretary/Public Relations Officer and Identification and Appointment of the new Scientific Secretary/Public Relations Officer
 - 5-4 EFC Membership: Status of Applications for EFC Membership
 - 5-5 Progress on the Proposal to form a sub-group of the President's Advisory Committee to consider the Introduction of a new EFC Membership Category for countries with a sub-critical corrosion community
- Item 6 Liaisons with other organisations
 - 6-1- EFC/NACE Collaboration
 - 6-2- World Corrosion Organisation
 - 6-3- FEMS
 - 6-4- ICC
 - 6-5- ISE
- Item 7 Finance
 - 7-1 Honorary Treasurer's Report
- Item 8 EUROCORN Series: 2010 to 2014
 - 8-1 EUROCORN 2010, Moscow (Russia) - Report
 - 8-2 EUROCORN 2011, Stockholm (Sweden) - Progress with Arrangements
 - 8-3 EUROCORN 2012, Istanbul (Turkey) - Report on Preliminary Arrangements
 - 8-4 EUROCORN 2013, Estoril (Portugal) - Initial Progress Report
 - 8-5 EUROCORN 2014- Call for Bids
- Item 9 EFC Activities and Projects
 - 9-1 Scientific Secretary's Report
 - 9-2 EFC Publications
 - 9-2.1 EFC Series
 - 9-2.2 EFC Electronic Newsletter
 - 9-2.3 Progress with items for Publication in 'Materials and Corrosion'
 - 9-3 EFC Web Site
- Item 10 EFC Accreditation of Short Courses
- Item 11 EFC Calendar of Events
- Item 12 Any other Business
- Item 13 Date and Place of next BoA

WORKING PAPERS OF THE EFC BOARD OF ADMINISTRATORS

Item 01 Opening of the meeting

Pr. Philippe Marcus, President of the EFC, chairman of the meeting, will welcome delegates.

Item 02 Apologies for Absence

Mrs. Pascale Bridou Buffet, Paris Office, will announce apologies for absence.

Item 1 Approval of the Agenda and Adoption of the Minutes of the last Meeting

1-1 BoA members will be asked to approve the proposed agenda.

1-2 BoA members will be asked to approve the minutes of the Nice meeting (6 September 2009) and to raise any matters not covered in the present agenda.

Item 2 Report on STAC Activities

Dr. Damien Féron, Chairman of STAC, will review progress in the STAC.

Item 3 Status on the Postal Votes for changes of the EFC Statutes

The last EFC President's Advisory Committee Meeting, held on June 24 in Paris, placed an action on the Frankfurt Office to seek the views of the BoA and GA Members by a postal vote on the following changes of the Statutes:

- 1- Bids to host EUROCORN can only be accepted from Member Societies that are in good financial standing.
- 2- The EFC President, Vice-President and the STAC Chairman must live and work in Europe and be a member of an European Member Society.

A report on the outcome of these postal votes will be presented by the Frankfurt Office.

Item 4 Extension of the Terms of Office of the EFC President and Vice-President

BoA Members will be requested to discuss the proposal of the EFC President's Advisory Committee to extend the Terms of Office of the present EFC President for 2 years and of the EFC Vice-President for 1 year.

Subject to the BoA agreement, this proposal will be presented to the GA for approval.

Item 5 Administrative Matters

5-1 Status of Elections to BoA

The Frankfurt Office had solicited nominations for BoA from the Member Societies. The responses received to date are as follows:

Belgium	:	Ir. Antoine POURBAIX (Founder Member country)
France	:	Mr. Marcel ROCHE (Founder Member country)
Germany	:	Prof. Bernd ISECKE (Founder Member country)
UK	:	Mr Don HARROP (Founder Member country)

Nominated by European Member Societies:

Austria	:	Prof. Dr. Gregor MORI (proposed for election)
Croatia	:	Dr. Sc. Darko RAJHENBAH (proposed for re-election)
Hungary	:	Dr. Judit TELEGDI (proposed for election)
Italy	:	Dr. Stefano TRASATTI (proposed for re-election)
Portugal	:	Prof. Mario G.S. FERREIRA (proposed for election)
Slovenia	:	Prof. Dr. Andraž LEGAT (proposed for election)
Turkey	:	Prof. Dr. Ali Fuak ÇAKIR (proposed for election)

Nominated by International Member Societies:

CAMPI (Israel)	:	Dr. Amir ELIEZER (proposed for election)
NACE Europe (Netherlands)	:	Mr. Sam McFARLAND (proposed for election)

The BoA will be requested to submit the above nominations to the General Assembly for approval. Since membership of the BoA is limited to twelve voting members, and the representatives from the four nominated administrators, plus the President and the Vice-President, occupy six of those positions, the General Assembly will be invited to elect six out of the eight individuals who have been proposed for election or re-election.

The CVs of the nominated persons received to date are provided in **Appendices 1 – 9**

5-2 *Status of Elections to STAC*

The Frankfurt Office had solicited nominations for STAC from the Members Societies. The responses received to date are as follows:

Austria	:	Dr.-Ing. Karl-Heinz STELLNBERGER (proposed for election)
Germany	:	Dipl.-Ing. Gerit SIEGMUND (proposed for election)
Hungary	:	Dr. Judit TELEGDI (proposed for re-election)
Portugal	:	Associate Prof. Dr. Alda SIMÕES (proposed for re-election)
Russia	:	Prof. Dr. Alexander V. MURADOV (proposed for election)
Switzerland	:	Dr. Jörg VOGELSANG (proposed for re-election)
UK	:	Dr. Don HARROP (proposed for re-election)
Turkey	:	Prof. Dr. Gören BEREKET (proposed for election)

The number of elected representatives to the STAC is 6. Since the Chairman occupies one of these positions, the BoA will be invited to elect five of the seven individuals who have been proposed for election or re-election.

The CVs of the nominated persons received to date are provided in **Appendices 10-17**.

It should be noted that the STAC now also includes all of the Working Party Chairmen as full members with voting rights.

5-3 Proposed Job Description for a Scientific Secretary/Public Relations Officer and Identification and Appointment of the new Scientific Secretary/Public Relations Officer

Due to health problems, the current Scientific Secretary has requested that a successor should be found at the earliest opportunity.

Consequently, the last EFC President's Advisory Committee Meeting decided to reconsider the tasks of the Scientific Secretary in conjunction with those of the recently proposed Public Relations Officer.

An action was placed on the Honorary Treasurer to draw up a job description combining the positions of EFC Scientific Secretary (without the tasks related to the EFC Book Series) and EFC Public Relations Officer (See **Appendix 18**).

The BoA Members will be invited to discuss this proposal and to adopt the final job description.

The BoA Members will be invited to identify possible candidate(s) for this position and decide the eventual appointment.

5-4 EFC Membership: Status of Applications for EFC Membership

The Frankfurt Office will report on the results of the postal vote on the application of new members:

European Member Society: Bond voor Materialenkennis, Eindhoven, The Netherlands,
Affiliate Member: Sulzer Metco Europe GmbH, Hattersheim, Germany.
 Lybian Corrosion Society, Benghazi, Lybia

Appendices 19 - 21 provide the signed agreements of these new applicants.

5-5 Progress on the Proposal to form a sub-group of the President's Advisory Committee to consider the Introduction of a new EFC Membership Category for countries with a sub-critical corrosion community

The EFC President will report on progress regarding the formation of a sub-group of the President's Advisory Committee to consider the introduction of a new EFC Membership Category for countries with a sub-critical corrosion community. This sub-group will include: the EFC President and Vice-President, Scientific Secretary, Honorary Treasurer, and the Representative of the Paris Office. It will probably be necessary to seek the assistance of a lawyer.

It is in EFC's interests to preserve the support that exists from its large members while also trying to take care of the small societies. Where small societies are having difficulty in dealing with administrative issues, EFC might be able to help by employing a retired person at one of its offices on a part-time basis to handle such matters for several of them. It must be appreciated that the formation of EFC-supported societies in small countries would necessitate a change to the EFC Statutes and thought would have to be given to exactly how small societies can be accommodated within the framework of the EFC with the Federation's support.

The sub-group would be given responsibility for introducing the necessary changes to the EFC Statutes and for defining the procedures to be followed in implementing them.

Item 6 Liaisons with other Organisations

6-1 EFC/NACE Collaboration

6-1.1 Meeting of EFC and NACE Presidents during the NACE Corrosion Conference, San Antonio, 14-18 March, 2010

The EFC President will report on EFC participation at the NACE CORROSION 2010 Conference in San Antonio, on 14-18 March 2010 (see **Appendix 22**).

6-2 World Corrosion Organisation

Progress on EFC/WCO collaboration will be presented by Mr. Schütze (see **Appendices 23 and 24**).

6-3 FEMS

A report on the recent developments in the Federation of European Materials Societies will be presented to BoA members (see **Appendix 25**).

6-4 ICC

During the last BoA meeting in Frankfurt, BoA Members were reminded of previous discussions about the situation regarding the ICC Congresses and the need to avoid two Corrosion Congresses in Europe during the same year. It had been decided that the EUROCORR and ICC Conferences should be organised separately at different places and on different dates since EFC is not looking to hold joint meetings with ICC now that EUROCORR has become such a successful event.

The next ICC conference will take place in Australia in 2011, and the following one in 2014, which gives enough time to reach an agreement.

BoA Members were informed in Frankfurt that the Czech Member Society was interested in organising a Corrosion Conference during 2014 in Prague. As the venue for EUROCORR 2014 has to be chosen within the next year, if the Czech Member Society bids by the end 2010, they should be informed that they will have to decide whether they want to organise EUROCORR or ICC in 2014.

6-5 ISE

The situation regarding the ISE Congresses had already been the subject of discussion on many occasions in an attempt to avoid a clash of dates between the ISE annual meeting and EUROCORR.

The BoA agreed in Frankfurt that the possibility of a written agreement to maintain a specified interval between EUROCORR and the ISE Annual Meeting should be discussed with ISE.

The EFC President will report on progress regarding a possible written agreement with ISE.

Item 7 Finance

7-1 *Honorary Treasurer's Report*

The Honorary Treasurer will present the EFC Financial Report (see **Appendix 26**).

BoA Members will be invited to approve the Honorary Treasurer's Report.

Item 8 EUROCORR Series: 2009 to 2013

8-1 *EUROCORR 2010 – Moscow (Russia) - Report*

A report on the preliminary results of the forthcoming EUROCORR 2010 in Moscow will be presented.

The EUROCORR 2010 organisers will report on the organisation of the EFC Presidents' Evening and of the first implementation of the new Prize of the best Young Author's Poster as outlined in Appendix 6 of the Working Papers for the Frankfurt meeting.

8-2 *EUROCORR 2011 – Stockholm (Sweden) - Progress with Preliminary Arrangements*

EUROCORR 2011 will be held on **5 - 8 September 2011 in Stockholm**.

The organisers of EUROCORR 2011 will report on the preliminary arrangements.

BoA Members are reminded that the Congress will start on Monday and will take place at the Stockholm International Fairs.

8-3 *EUROCORR 2012 – Istanbul (Turkey) - Report on Preliminary Arrangements*

EUROCORR 2012 will be held on **9 - 13 September 2012 in Istanbul**.

The organisers will report on the status of arrangements for EUROCORR 2012.

8-4 *EUROCORR 2013 – Estoril (Portugal) - Initial Progress Report*

EUROCORR 2013 will be held on **1 - 5 September 2013**, at Estoril Congress Centre, near Lisbon, starting on Sunday evening. This will avoid a direct clash with the dates of the ISE Annual Meeting in Mexico.

The general theme will be **"Corrosion control for a blue sky"**.

The organisers will report on the preliminary arrangements.

8-5 *EUROCORR 2014 – Call for Bids*

BoA Members are reminded that bids to host **EUROCORR 2014** should be submitted in writing by **31st December 2010** to the Frankfurt Office with copy to the Paris Office.

Item 9 EFC Activities and Projects

9-1 *Scientific Secretary's Report*

The report of the Scientific Secretary, covering activities since the last meeting, is presented in **Appendix 27**.

The BoA will be invited to approve the Scientific Secretary's Report.

9-2 *EFC Publications*

9-2-1 *EFC Series*

Appendix 28 provides the new titles currently in preparation in the EFC Series.

Dr. Roman Bender will report on the uploading of the new Maney publication procedure for EFC books onto the restricted area of the EFC Website.

9-2-2 *EFC electronic Newsletter*

As agreed during the Frankfurt Meeting, the first EFC e-Newsletter was circulated by Frankfurt Office on April 24, 2010, in conjunction with the first Corrosion Day, organised on the initiative of the WCO.

9-2-3 *Progress with items for Publication in "Materials and Corrosion"*

Dr. Roman Bender will report on progress regarding material provided by the EFC Working Party Chairmen for publication in "Materials and Corrosion".

9-3 *EFC Website*

Dr. Roman Bender will present the status of the latest improvements to the EFC Website.

During the last BoA Meeting in Frankfurt, BoA Members were invited to provide information about any future events of which they were aware.

An action was placed on Dr. Damien Féron to encourage the chairmen of WPs 5, 7, 17, 18 and 19 to provide updated information for the website. Dr. Roman Bender will report on the results of this action.

Item 10 EFC Accreditation of Short Courses

During the STAC Meeting in Nice, it was suggested that the EFC Member Societies should be requested to inform Mr. Robert Cottis, Chairman of WP7 (Education), about any courses of which they are aware over the next years so that these can be approved and published on the EFC web page following accreditation by a process to be carried out with the support of the WP Chairmen.

During the BoA Frankfurt Meeting, the Scientific Secretary reported that no progress had yet been possible due to Mr. Robert Cottis's indisposition with back trouble. It was decided to restrict the short courses to those organised or supported by the EFC Members and Affiliate

Members and an action was placed on the STAC Chairman to contact Mr. Robert Cottis to collect information from the Working Party Chairmen.

Dr. Damien Féron will report on the result of his contacts with Mr. Robert Cottis to collect information on short courses organised by EFC Member Societies and Affiliates and to forward it to Dr. Roman Bender.

Dr. Roman Bender will report on the publication of the information on short courses on the EFC Website.

Item 11 EFC Calendar of Events

Appendix 29 provides an update of forthcoming events in the EFC Calendar, which now includes important non-EFC events.

Item 12 Any other Business

Members are invited to raise any other matters.

Item 13 Date and Place of next BoA

The next BoA meeting will be held in spring 2011, on a date and in a place to be decided.

APPENDICES

CV of Prof. Dipl.-Ing. Dr.mont. Gregor Mori (Nominated for election to the BoA)

Ao. Univ.-Prof. Dipl.-Ing. Dr.mont. **Gregor Mori**

Gasteigergasse 9

A-8700 Leoben

Tel.: (+43)-664-923 7315

mori@unileoben.ac.at



Lebenslauf

Personaldaten:

Geburtsdaten: 1.10.1965 in Leoben

Staatsbürgerschaft: Österreich

Familienstand: verheiratet
2 Kinder

Bildungsweg, Berufserfahrungen:

1972 - 1976: Volksschule in Leoben Göß

1976 - 1984: BG und BRG Leoben

10/1984 - 3/1985: Grundwehrdienst in der Pionierkompanie Leibnitz

1985 - 1991: Studium des Hüttenwesens, Studienzweig Metallhüttenwesen an der Montanuniversität Leoben

1988 - 1989: Studienassistent am Institut für Physikalische Chemie, MU Leoben, bei Prof. Dr. H. Gamsjäger

1989 - 1991: Studienassistent am Institut für NE-Metalle, MU Leoben, bei Prof. Dr. P. Paschen

1991 - 1995: Universitätsassistent am Institut für NE-Metalle, MU Leoben, bei Prof. Dr. P. Paschen

6/1995: Promotion

6/1995: Ingenieurkonsulent für Hüttenwesen

seit 12/1995: Arbeitsgemeinschaft mit Prof. Dr. K.L. Maurer (Untersuchung von Schadensfällen, u.a. Bearbeitung von Motorschäden aus der Formel 1, des ICE-Unfalls von Eschede, des Unglücks von Kaprun)

1999-2004: Universitätsassistent am Institut für Allgemeine und Analytische Chemie, MU Leoben, bei Prof. Dr. W. Wegscheider: Betreuung des Fachgebiets Korrosionskunde gemeinsam mit Prof. Dr. H. Zitter

3/2004: Habilitation für das Fachgebiet „Korrosionskunde“ mit der Habilitationsschrift: Örtliche Korrosion hochbeständiger Werkstoffe

seit 10/2004: Ao. Univ.-Prof. für Korrosionskunde am Department Allgemeine, Analytische und Physikalische Chemie

seit 5/2007: Leiter des Christian Doppler Labors für Örtliche Korrosion

Veröffentlichungen und Vorträge:

über 100 Veröffentlichungen

über 100 Vorträge

Leoben, im Juni 2010

Gregor Mori

CV of Dr. Sc. Darko RAJHENBAH (Nominated for re-election to the BoA)**EUROPEAN
CURRICULUM VITAE
FORMAT****PERSONAL INFORMATION**

Surname(s) / First name(s)	Darko Reichenbach
Address(es)	Martićeva 60, 10000 Zagreb
Telephone(s)	+385 1 4650 957, 091 511 1869
Fax(es)	+385 1 6151 821
E-mail(s), Web address(s)	darko.rajhenbah@voda.hr
Nationality(-ies)	Croat
Date of birth	9 th July.1947
Identification number from Records of Scientific Workers	96883

WORK EXPERIENCE

• Dates (from – to)	1972 - 2002
Name and address of employer	Ericsson Nikola Tesla
Type of business or sector	Process engineer, manager
Occupation or position held	Plant engineer, plant manager
Main activities and responsibilities	Conducted the engineering processes in the field of chemical and electrochemical treatment of metals, metal deposition, quality control, inhibitors use and corrosion of materials. Design processes of electrochemical deposition of zinc, nickel, tin/lead, tin, copper and gold alloys. Solving a problems concerning organic coating. Dealing with problems of atmospheric corrosion of steel and zinc. Conducted researching and development of high speed gold alloy plating process. Environmental problems responsibility concerning emission to water, air and land.
• Dates (from – to)	2003-
Name and address of employer	Ministry of Regional Development, Forestry and Water management
Type of business or sector	Water management directorate
Occupation or position held	Head of Department
Main activities and responsibilities	Water management, water policy, RBMP implementation, water protection against pollutions, EU integration and legislation. Waste water treatment facilities, national legislation implementation, EU water directives implementation, project involvement concerning groundwater, dangerous substances, and project leader for WFD twinning project, participating in working group for dangerous substances, nitrates directive, bathing water directive of DG ENV. Contribution and involvement in activities of implementation of Protocol on water and health, Barcelona convention and UNEP MAP. Contribution in preparing implementation plans for Drinking water directive and Urban waste water directive.

CV of Dr. Sc. Darko RAJHENBAH (Continued)**EDUCATION**

Date	1966 - 1971
Place of education	Zagreb
Name and type of organisation providing education	Faculty of Chemical Technology, University of Zagreb
Title or qualification awarded	B.Sc. of Chemical Technology
Date	1974 - 1976
Place of education	Zagreb
Name and type of organisation providing education	Faculty of Chemical Technology, University of Zagreb
Title or qualification awarded	M.Sc. of Corrosion Engineering
Date	1983 - 1985
Place of education	Zagreb
Name and type of organisation providing education	Faculty of Chemical Technology, University of Zagreb
Title or qualification awarded	Ph.D. of Chemical Engineering

TRAINING

Year	1981 - 1982
Place of training	Berkeley, California, USA
Name and type of organisation providing training	University of California Berkeley
Principal subjects/Occupational skills covered	Chemical Engineering, mass transfer problems solving in flow cell for zinc deposition.
Year	2004
Place of training	Japan
Name and type of organisation providing training	YICA – Japan International cooperation agency
Principal subjects/Occupational skills covered	Industrial pollution and prevention
Year	2004
Place of training	Netherland
Name and type of organisation providing training	ADEPT
Principal subjects/Occupational skills covered	Management of accession funds EU, ISPA
Year	2007
Place of training	Netherland
Name and type of organisation providing training	ADEPT
Principal subjects/Occupational skills covered	Implementation of WFD and Flood directive

CV of Dr. Sc. Darko RAJHENBAH (Continued)**PERSONAL SKILLS AND COMPETENCIES**

Mother tongue(s)	Croatian
Other language(s)	
Language	English, German, Italian
Speaking	yes
Writing	yes
Understanding (listening and reading)	yes
SOCIAL SKILLS AND COMPETENCIES	
ORGANISATIONAL SKILLS AND COMPETENCIES	Management courses, seminars and workshops with respect to EU legislation, attending a conference concerning corrosion and materials protection. Organizing and conducting conference, seminars and workshops related to water policy, waste water treatment, corrosion and materials protection and environmental issues.
TECHNICAL SKILLS AND COMPETENCIES	European Union basic courses, Ministry of Foreign Affairs and European Integration, 2005, Zagreb. Contributing to project concerning inhibition of copper .Knowledge of ISO standards implementation, corrosion testing methods, quality assurance.
ARTISTIC SKILLS AND COMPETENCIES	
OTHER SKILLS AND COMPETENCIES	Long term assistant at the Faculty of Shipbuilding and Naval Architecture in the laboratory of Material Protection in Zagreb. Conducting research and teaching. The president of Croatian Society for Materials Protection since 2003.
DRIVING LICENCE(S)	yes
ADDITIONAL INFORMATION	45 scientific / technical published papers
ANNEXES	

SIGNATURE

Dr.sc. Darko Reichenbach

CV of Dr. Judit TELEGDI (Nominated for election to the BoA)

Place of work since 1970: Hungarian Academy of Sciences,
Chemical Research Center,
Budapest, Hungary

Position: scientific advisor

Education:

1970 chemistry, Eötvös Loránd University, Budapest



Scientific degrees:

1978 PhD

1979 candidate of sciences of the Hung. Ac. Sci. (CSc)

1980 2009 doctor of sciences of the Hung. Ac. Sci. (DSc)

Scientific fields:

Microbiologically influenced corrosion; synthesis of molecules with multifunctional properties; preparation, characterization and application of Langmuir-Blodgett films and self assembled molecular layers applied for inhibition of corrosion and microbial adhesion; nanocoatings with self healing and slow release microcapsules, scanning probe microscopy.

Training/Education activities

Teaching at the PhD School of the Pannon University Veszprém; head of practical courses for chemical students at the Budapest Technical University.

Number of publication: 143

Citation (without selfcitation): 574

Number of presentations at international conferences: 98

Membership in: Hungarian Chemical Society
Hungarian Corrosion Society
European Federation of Corrosion (EFC):

Functions in:

the Hungarian Corrosion Society: president

the EFC: representative of Hungarian Corrosion Society in the Science and Technology Advisory Committee as well as in the General Assembly of the European Federation of Corrosion

Participation in EU projects:

Marie Curie Research Training Network: 2005-2007 (Chiral expression and Transfer at the Nanoscale) (project leader)

PolyCond: Modification of carbon nanotubes 2007-2009

Marie Curie Initial Training Network: 2009-2012 (BIOCOR) (project leader)

CV of Dr. Judit TELEGDI (Continued)

Participation in COST Research and Development Projects: since 1992

- COST 511** “Interactions of Microbial Systems with Technical Materials” 1992-1996
(leader of the Hungarian team)
COST 520 “Biofouling and Materials” 1998-2001
(leader of the Hungarian team)
- COST E11 “Characterization Methods for Fibres and Paper”** 1998-2001.
(leader of the Hungarian team)
- COST D19 “Stereochemical effects on self-assembly and switching at the nanometer scale”** 2002-2004 (participant)
- COST E32 “Characterization of paper surfaces for improved printing paper grades”** 2004-2006. (participant)
- COST D33 “Nanoscale Electrochemical and Bio-processes (Corrosion) at Solid-aqueous Interfaces of Industrial Materials”** 2004-2009 (representative of Hungary, project leader)

Selected publications

- G. Diósi, **J. Telegdi**, Gy. Farkas, L.G. Gázsó, E. Bokori
Corrosion influenced by biofilms during wet nuclear waste storage
International Biodeterioration and Biodegradation **51**(2) 151-156 (2003)
- Kálmán E, Nagy P, Csanády A, Papp K, Csorbai HK, Hunyadi C, **Telegdi J**
AFM and SEM: Competing or complementary techniques?
Materials Science, Testing and Informatics
Materials Sciences Forum **414-4**, 241-251 (2003)
- Pradier CM, Karman F, **Telegdi J**, et al.
Adsorption of bovine serum albumin on chromium and molybdenum surfaces investigated by Fourier-transform infrared reflection-absorption spectroscopy (FT-IRRAS) and X-ray photoelectron spectroscopy
J PHYS CHEM B **107** (28): 6766-6773 JUL 17 2003
- Diósi Gábor, Farkas Gyöngyi, Gázsó Lajos, **Telegdi Judit**
Tervezett radioaktív hulladéktárolók környezeti biztonságának előzetes vizsgálata mikrobiológiai szempontból II. Biofilmek korróziós hatása radioaktív hulladéktárolókban
Egészségtudomány **47** 200-209 (2003)
- K. Kinzler, T. Gehrke, **J. Telegdi**, W. Sand
Bioleaching - a result of interfacial processes caused by extracellular polymeric substances (EPS)
Hydrometallurgy **71** (1-2): 83-88 OCT 2003 1-186 (2004)
- H. Otmačić, **J. Telegdi**, E. Stupnišek-Lisac
Protective properties of an inhibitor layer formed on copper in neutral chloride solution
J. Applied Electrochemistry **34** (5) 545-550 (2004)

CV of Dr. Judit TELEGDI (Continued)

- J. Telegdi, T. Rigó, E. Kálmán
Nanolayer barriers for inhibition of copper
Corrosion Engineering and Technology **39** 65-70 (2004)
- I Felhősi, Gy. Tolnai, F.H: Kármán, **J. Telegdi**, A. Pilbáth, G. Hegedüs, Á. Kovács-Stáhl, J. Bognár, P.M. Nagy, E. Kálmán
Ecologically Friendly Multifunctional Coating Systems with Anticorrosive Properties
Pitture E Vernici **81** 7-15 (2005)
- Felhősi I, Tolnai Gy, Mavre F, Kármán FH, **Telegdi J**, Pilbáth A, Hegedüs G, Kovács-Stahl Á, Bognár J, Nagy PM, Kálmán E:
Ecologically friendly multifunctional coating systems with anticorrosive properties,
Pitture Vernice-Coating, **81** (3) (2005) pp 7-15
- F. Al-Taher, T. Rigó, **J. Telegdi**, Kálmán E:
Inhibition of copper corrosion by Langmuir-Blodgett layers of hydroxamic acid salts,
Proceedings of the 10th European Symposium on Corrosion and Scale Inhibitors
(10SEIC), Annales of University of Ferrara, Italy, 2005, pp 925-933
- J. Telegdi**, T. Rigó, J. Beczner, E. Kálmán
Influence of Langmuir-Blodgett nanolayers on microbial adhesion
Surface Engineering **21**(2) 107-112 (2005)
- J. Telegdi**, T. Rigó, E. Kálmán
Molecular layers of hydroxamic acids in copper corrosion inhibition
J. Electroanal. Chemistry **582** 191-201 (2005)
- T. Rigó, A. Mikó, **J. Telegdi**, M. Lakatos-Varsányi, A. Shaban, E. Kálmán
Inhibition effect of hydroxamic- and phosphonic acids Langmuir-Blodgett films on
iron corrosion in sodium perchlorate solution
Electrochemical and Solid State Letters **8** B51-B54 (2005)
- Keszthelyi T, Pászti Z, Rigó T, **J. Telegdi**, et al.
Investigation of solid surfaces modified by Langmuir-Blodgett monolayers using
sum-frequency vibrational spectroscopy and X-ray photoelectron spectroscopy
JOURNAL OF PHYSICAL CHEMISTRY B **110** (17): 8701-8714 (2006)
- P. Gumpel, N. Arlt, **J. Telegdi**, et al.
Microbiological influence on the electro-chemical potential of stainless steel
Materials and Corrosion – Werkstoff und Korrosion **57** 715-723 (2006)
- F. Al-Taher, **J. Telegdi**, Erika Kálmán
Effect of divalent cations in Langmuir-Blodgett films on the protection of copper
against corrosion
Materials Science Forum **537-538**, 9-14 (2007)
- J. Telegdi**, H. Otmačić, K. Tadic, F. Al-Taher, E. Stupnišek-Lisac, E. Kálmán
Inhibition of copper corrosion by self assembled amphiphiles
Chemical and Biochemical Engineering Quarterly **21**, 77-82 (2007)
- A. Alagta, I. Felhősi, **J. Telegdi**, I. Bertóti, E. Kálmán
Effect of metal ions on corrosion inhibition of pimeloyl-1,5-di-hydroxamic acid for
steel in neutral solution
Corrosion Science **49** 2754-2766 (2007)

CV of Dr. Judit TELEGDI (Continued)

- E. Kuzmann, S. Stichleutner, Z. Homonnay, A. Vértes, A. Paszternák, F. Nagy, I. Felhősi, G. Pető, **J. Telegdi**, E. Kálmán
Amorphous iron formation due to low energy heavy ion implantation in evaporated ⁵⁷Fe thin films
J. Radioanalytical and Nuclear Chemistry, **277**, 699-702 (2008)
- L. Románszki, **J. Telegdi**, E. Kálmán
Comparative study of Langmuir- and Langmuir-Blodgett layers of amphiphilic carboxylic- and hydroxamic acids
Colloids and Surfaces A: Physicochemical and Engineering Aspects **321/1-3**, 20-28 (2008)
- F. Al-Taher, **J. Telegdi**, E. Kálmán
Langmuir films of monohydroxamic acid on various subphases
Colloids and Surfaces A: Physicochemical and Engineering Aspects **321/1-3**, 34-38 (2008)
- A. Paszternák, A. Pilbáth, Z. Keresztes I. Felhősi, **J. Telegdi**, E. Kálmán
Atomic force microscopy studies of alkyl-phosphonate SAMs on mica
Materials Science Forum **589**, 257-262 (2008)
- J. Telegdi**, T. Rigó, É. Pfeifer, T. Keszthely, E. Kálmán
Nanolayer coatings
Progress in Colloid Polymer Science, **135** 77-86 (2008)
- J. Telegdi**, L. Románszki, F. Al-Taher, E. Pfeifer, E. Kálmán
Nanolayers against microbial adhesion
NACE International *Corrosion* paper No. 3987 (2008)
- H. Otmacic-Curkovic, K. Marusic, E. Stupnisek-Lisac, **J. Telegdi**
Electrochemical and AFM study of corrosion inhibition with respect to application method
Chem. Biochem. Engineering Quarterly : **23** 61-66 (2009)
- J. Telegdi**, T. Szabó, F. Al-Taher, É. Pfeifer, E. Kuzmann, A. Vértes
Coatings against corrosion and microbial adhesion
Materials and Corrosion 2010 (in press)

Budapest, 19. 07. 2010

Judit Telegdi

CV of Dr. Stefano TRASATTI (Nominated for re-election to the BoA)

S. P. Trasatti is presently an Assistant Professor in the Physical Chemistry and Electrochemistry Department of the University of Milan. He received a PhD in Industrial Chemistry in 1995. In the same year he was awarded the Oronzio De Nora prize in the field of electrochemistry. He worked in private companies from 1996 to 2002, where he was responsible for surface treatments (Henkel Surface Technologies) and material testing (Centro Sviluppo Materiali). He is the author of about 25 peer-reviewed papers, 30 conference proceedings, 25 technical papers and one patent in the field of metallic corrosion. His research interests include active-passive alloys, corrosion monitoring and control, protective coatings as well as the use of artificial intelligence systems in the study of corrosion. S.P.Trasatti has been responsible for many research project committed by private companies.

EDUCATION

11/2002 Professor Assistant in the Corrosion and Metal Protection Laboratory, Dept. of Physical Chemistry and Electrochemistry at the University of Milan. Responsible of the Corrosion and Metal Protection Laboratory.

10/1995 Ph.D. studies (dissertation) in the Dept. of Physical Chemistry and Electrochemistry at the University of Milan with a graduate fellowship of the Ministero dell'Istruzione, dell'Università e della Ricerca Scientifica. Title of the Ph.D. thesis: "Crevice corrosion as the initiation step for localized corrosion of stainless steel in chloride containing cooling systems".

07/1991 Laurea in Industrial Chemistry, Summa cum laude, in the Dept. of Physical Chemistry and Electrochemistry at the University of Milan. Title of the thesis: "Influence of the hydrodynamic conditions on stainless steel corrosion in heat exchangers".

HONORS AND AWARDS

06/1995 Award "Dr. Ing. Oronzio de Nora" of the DeNora S.p.A., Milan, Italy

MEMBERSHIPS

- Elected member of the Board of Administrator (BOA) of the European Federation of Corrosion (EFC)
- Elected member of the Research Committee of the NACE International (USA)
- Member of the Executive Committee of the NACE Milano Italy Section of the NACE International
- Italian Delegate of the WP15 "Corrosion in the Refinery Industry" of the European Federation of Corrosion (EFC)
- Member of the Study Group on Corrosion of the Associazione Italiana di Metallurgia
- Coordinator of the Working Group "Corrosion in the refinery industry" of the NACE Milano Italy Section
- Member of the NACE International
- Member of the Associazione Italiana Metallurgia (AIM)

PRINCIPAL ACHIEVEMENTS

Organizer (chair) of the "2nd Workshop on Corrosion Modeling to Enable Corrosion Informed Material Selection to Life Prediction - CMLP2010" - 18-20 June 2010 - Villa Pamphili, Rome ITALY (users.unimi.it/trasatti/CMLP2010/).

- Organizer (chair) of the 1st Course on: Principles of Materials Selection for the Chemical Industry" – 18-19 June 2009 – Milan, Italy
- Organizer (chair) of the NACE Italy Section-EFC WP15 Joint Meeting "Corrosion in the refinery industry: where are we going?" - 31 March 2006 - Venezia Tecnologie, P.to Marghera Venezia, ITALY (www.dcf.unimi.it/word/stefano_trasatti_meeting.pdf)
- Organizer (chair) of the "First Workshop on Corrosion Modeling to Enable Corrosion Informed Material Selection to Life Prediction" - 29-31 July 2006 - Cernobbio Como Lake (Como) ITALY (<http://users.unimi.it/trasatti/CMLP/CMLP2006.html>)

CV of Dr. Stefano TRASATTI (Continued)

- Chairman of Session “Corrosion Mechanism” at the - National Congress on corrosion and protection” (2005) (www.aimnet.it)
- Chairman of Symposium “Corrosion” at the “31th AIM National Congress”, 22/24 November 2006, Milan, Italy (www.aimnet.it)
- Chairman of Session “Corrosion in the Industrial Plant” at the - National Congress on corrosion and protection” (2007) (www.aimnet.it)

VISITS FOR RESEARCH (SPONSORS & COLLABORATORS)

February 2006 Petrobras, CENPES, Rio de Janeiro, Brasil: Dr. R.Serra

April 2005 Institute for Corrosion and Multiphase Technology, Athens, Ohio, USA: Dr. S. Nesic

JOURNALS SERVED AS A REFEREE

Corrosion Science, Journal of Materials Science, Chemical Engineering Communications, Journal of Applied Electrochemistry

PATENTS

Process for electrolytic pickling using nitric acid-free solutions - US Patent 6565735 Issued on May 20, 2003, No. 786848 filed on 2001-07-13

COURSES TAUGHT

Dr. Stefano Trasatti's teaching at University of Milan focuses primarily in the areas of corrosion.

Corso di Laurea in Scienze Biologiche e Molecolari :

- Course on: General Chemistry with Elements of Physical Chemistry (2003-2009).

Corso di Laurea triennale in Chimica Applicata e Ambientale

- Course on: Structural Materials for the Chemical Industry (2006-2008).
- Supervision of the Analytical and Electroanalytical Chemistry Laboratory - (2003/2004).

Corso di Laurea triennale in Chimica Industriale

- Course on: Physical Chemistry Laboratory - (2008/09 – 2009/10).
- Corso di Laurea Specialistica in Chimica Industriale e Gestionale
- Course on (some teaching): Corrosion and Metal Protection - (since 2003).
 - Course on: Physical Chemistry of Materials with Laboratory (2007/08 – 2008/09 – 2009/10).
 - Supervision of the Electrochemistry Laboratory (since 2003).

Doctorate School

- Course on: Corrosion in Organic Liquids (April 2005).
- Course on: Electrochemical Noise for Corrosion Studies (May 2006).

PUBLICATIONS (2007-2010)

1. M. TRUEBA, TRASATTI S. (2010). Study of Al alloy corrosion in neutral NaCl by the pitting scan technique. MATERIALS CHEMISTRY AND PHYSICS, vol. 121; p. 523-533, ISSN: 0254-0584, doi: 10.1016/j.matchemphys.2010.02.022

2. M. TRUEBA, TRASATTI S. (2009). Characterization and corrosion performance of poly(pyrrole-siloxane) films on commercial Al alloys. JOURNAL OF APPLIED ELECTROCHEMISTRY, vol. 39; p. 2061-2072, ISSN: 0021-891X.

3. M. TRUEBA, TRASATTI S. (2009). Pyrrole-based silane primer for corrosion protection of commercial Al alloys. Part I: Synthesis and characterization. PROGRESS IN ORGANIC COATINGS, vol. 66; p. 254-264, ISSN: 0300-9440

CV of Dr. Stefano TRASATTI (Continued)

4. M. TRUEBA, TRASATTI S. (2009). Pyrrole-based silane primer for corrosion protection of commercial Al alloys. Part II: Corrosion performance in neutral NaCl. PROGRESS IN ORGANIC COATINGS, vol. 66; p. 265-275, ISSN: 0300-9440
6. A. J. INVERNIZZI, L. DE BENEDITTIS, TRASATTI S. (2008). Corrosion behaviour of duplex SAF2507 in aqueous organic acid solutions. METALLURGIA ITALIANA, vol. 100; p. 22-27, ISSN: 0026-0843
7. A.J. INVERNIZZI, TRASATTI S., E. SIVIERI (2008). Corrosion behaviour of Duplex stainless steel in organic acid aqueous solutions. MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol. 485; p. 234-242, ISSN: 0921-5093
8. M.TRUEBA, TRASATTI S. (2008). Pyrrole-based silane primer for corrosion protection of commercial AA2024T3. In: VINOD AGARWALA, FRANCESCO BELLUCCI, MARIO MONTUORI, JULIET IPPOLITO. Corrosion in the military II. vol. 38, p. 14-26, Trans Tech Publications Ltd
9. A.CAFISSI, A.J.INVERNIZZI, TRASATTI S. (2007). Electrochemical noise as a powerful tool for studying corrosion processes. CORROSION REVIEWS, vol. 25; p. 233-246, ISSN: 0334-6005
10. A.CAFISSI, S.BEDUSCHI, V.BALACCO, B.SACCHI, TRASATTI S. (2007). Chemical dechlorination of polychlorinated biphenyls (PCBs) from dielectric oils. ENVIRONMENTAL CHEMISTRY LETTERS, vol. 5; p. 101-106, ISSN: 1610-3653

CV of Prof. Mario G.S. FERREIRA (Nominated for election to the BoA)**Curriculum vitae****Curriculum vitae****1. Dados pessoais****1. Personal data**

Nome completo

Full name

Mário Guerreiro Silva Ferreira (Mario G S Ferreira)

BI

National identity card

27110

Local e data de Nascimento

Birth place and date

Lisboa 09-10-1947

País de nacionalidade

Nationality

PORTUGAL

Morada institucional

Institutional address

Departamento de Engenharia Cerâmica e do Vidro, Universidade de Aveiro

3810-193 Aveiro

PORTUGAL

Contactos

Contact data

Telephone: 234370354/963473408

Fax: 234425300

Email: mgferreira@ua.pt

2. Formação académica**2. Academic degrees**

Ano Year	Grau académico Academic degree	Instituição Institution	Classificação Classification
1993	Agregação (D.Sc.)	Instituto Superior Técnico	Approved
1981	Ph.D	UMIST, U.K.	Approved
1971	Degree (Diploma)	Instituto Superior Técnico	15

3. Actividades anteriores e situação actual em termos científicos e/ou profissionais

CV of Prof. Mario G.S. FERREIRA (Continued)

3. Previous and current scientific and/or professional activities

Período Period	Cargo ou categoria Position or category	Instituição Institution
1971-1981	Assistente	Instituto Superior Técnico
1981-1986	Professor Auxiliar	Instituto Superior Técnico
1986-1993	Professor Associado (Associate Prof.)	Instituto Superior Técnico
1991-1996	Professor Convidado	UMIST (U.K.),
1993-2001	Professor Associado com Agregação	Instituto Superior Técnico
2001-Presente	Professor Catedrático (Full Prof.)	Universidade de Aveiro
2001-Presente	Professor Catedrático Convidado	Instituto Superior Técnico

4. Área de actividade científica

4. Area of scientific activity

Surface Engineering

5. Domínio de especialização

5. Domain of specialization

Corrosion, Coatings, Electrochemistry

Actuais interesses de investigação

Present research interests

Degradation of materials; Corrosion and Protection of Materials; Passivation; Organic and inorganic coatings; Environmentally-friendly surface treatments; Development of advanced materials; Nanostructured hybrid coatings; Electrochemical processes.

Outras competências/actividades

Other skills/activities

Higher Education Policies

6. Experiência na orientação

6. Supervising experience

- Teses de Formação Avançada já concluídas (**Thesis already finished**)

No âmbito da sua actividade científica orientou ou co-orientou as seguintes teses e acções de formação, já concluídas:

Doutoramento (Ph.D)

- "Passivação e Corrosão Intersticial em Aço Inoxidável"
Alda Maria Pereira Simões

CV of Prof. Mario G.S. FERREIRA (Continued)

- Doutoramento em Engenharia Química, IST, 1990.
- "Estágios Iniciais da Corrosão Atmosférica do Ferro sob Condições Salinas: Aspectos Gravimétricos, Electroquímicos e Estruturais"
Adriano Manuel Gomes Pacheco
- Doutoramento em Engenharia Química, IST, 1992.
- "Estudos de Biocompatibilidade de Implantes de Aço Inoxidável 316L em Cirurgia Ortopédica"
Jacinto Manuel de Melo Oliveira Monteiro
- Doutoramento em Medicina, Faculdade de Medicina, Lisboa, 1993 (Co-Orientador com Prof. José Maria Vieira).
- "Estudo das Estruturas Electrónica e Cristalográfica dos Óxidos Anódicos do Titânio"
José Carlos Magalhães Duque da Fonseca
- Doutoramento em Engenharia Química, IST, 1994 (tendo como co-orientador o Doutor M. da Cunha Belo).
- "Localized Corrosion of Aluminium Alloys and Steels - Mechanistic Aspects and Control by Laser Surface Modification"
Ruiguo Li
- Doutoramento em Engenharia Química, IST, 1996.
- "Corrosão por Picadas em Alumínio Modificado por Implantação Iónica de Tungsténio"
João Carlos Salvador Santos Fernandes
- Doutoramento em Engenharia Química, IST, 1997.
- "Design and Properties of Nanocrystalline Materials"
Helena da Conceição Domingues Alves
- Doutoramento em Engenharia Química, IST, 1997 (tendo como co-orientador o Prof. U. Köster).
- "Caracterização dos Óxidos Formados no Iridio e na liga Ti-6Al-4V Implantada com Iridio para Aplicação em Electrodo Neuroestimuladores"
Maria Teresa Oliveira de Moura e Silva ,
Doutoramento em Engenharia Química, IST, 2001.
- Ana Maria Mateus Cabral
Doutoramento em Engenharia de Materiais, IST, 2006.
- Raquel Galamba Duarte
Doutoramento em Engenharia Química, IST, 2009.

Investigador Auxiliar (Assistant Researcher)

- "Corrosão do Aço no Betão. Novas Técnicas Electroquímicas para sua Detecção e Controle"
Maria Manuela Sequeira Ribeiro de Lemos Salta, LNEC (1987).
- "Corrosão do Aço Não-Ligado em Atmosferas Industriais"
Maria Júlia da Cunha Justo, LNETI (1988).

Mestrado (M.Sc.)

CV of Prof. Mario G.S. FERREIRA (Continued)

- "Efeito Catalítico do Ião Cloreto no Processo de Corrosão de Aços Inoxidáveis em Fendas"
Alda Maria Pereira Simões.
- Mestrado em Química dos Processos Catalíticos, IST, 1985.
- "Comportamento Face à Corrosão da Liga de Alumínio 2024 sem e com Anodização"
Maria Isabel D.C. Calheiros Godinho
- Mestrado em Engenharia de Materiais, IST, 1992.
- "Efeito da Temperatura e da Concentração de Cloretos na Iniciação da Corrosão por Picadas no Aço Inoxidável AISI 304"
Maria Alice Rosália Catarino
- Mestrado em Engenharia de Materiais, IST, 1993 (tendo como co-orientador a Doutora Alda Simões).
- "The Corrosion Behaviour of W Implanted Stainless Steel"
Ochana
- Mestrado em "Corrosion Science and Engineering", UMIST, 1994 (Co-orientador com Doutor R. Cottis).
- "The Corrosion Behaviour of Ni-Co Alloys Obtained by Laser Cladding on Steel"
S.M. Haq
- Mestrado em "Corrosion Science and Engineering", UMIST, 1994 (Co-orientador com Doutor R. Cottis).
- "Internal Oxidation and Transition to External Oxidation"
Marco A. Estrela
- Mestrado em Engenharia Química, IST, 1994 (Co-orientador com Prof. H. Stott).
- "Estudo do Efeito Protector de Revestimentos de Tintas com Medidas de Impedância Electroquímica"
Laila Hassane Ribeiro
- Mestrado em Engenharia Química, IST, 1995.
- "Anodização da Liga de Alumínio Al2024-T3 num Banho à Base de Ácido Sulfúrico /ÁcidoBórico. Ana Maria G. M. Cabral
- Mestrado em Ciência e Engenharia de Superfícies, Faculdade de Ciências da Universidade de Lisboa, 1999.

Provas de Aptidão Pedagógica e Científica

- "Caracterização Electroquímica do Comportamento do Alumínio Puro em Meios de Carbonatos".
João Carlos Salvador Santos Fernandes, IST, 1989.

Pós-Doutoramento (Pos-Doc)

- "Propriedades Electrónicas de Filmes de Anodização Formados em Ligas de Alumínio".
- Noureddine Hakiki, IST, 1998 (em colaboração com o Doutor M. da Cunha Belo).
- "Propriedades Semicondutoras de Filmes Passivos em Aços

CV of Prof. Mario G.S. FERREIRA (Continued)

Inoxidáveis”

- Sana Fatty, IST, 1999 (em colaboração com o Doutor M.da Cunha Belo).
- “The Electronic Properties of Sputtered Chromium and Iron Oxide Films”
- G.C.Goodlet, IST, 1998-2000 (em colaboração com Dr. M. da Cunha Belo).
- “Tratamentos de Conversão Amigos do Ambiente para Ligas de Alumínio”, Mikhail Zheludkevich, Universidade de Aveiro, 2003-2008.

7. Participação em projectos

7. Participation in research projects

He was the coordinator or coordinator of the Portuguese team of 38 Research and Development projects funded by national bodies (FCT, ADI, Industry) and international bodies (NATO, UE). Under the UE he was funded in several programmes, such as: BRITE- EURAM, ECSC, Science, COMETT, 6th Framework Programme.

8. Publications

Number of papers in international Journals: 200

Number of papers in Conferences: 320

Publications in 2009:

- N.C.T. Martins, T. Moura e Silva, M.F. Montemor, J.C.S. Fernandes, **M.G.S. Ferreira**, “Polyaniline coatings on aluminium alloy 6061-T6: electrosynthesis and characterization”, *Electrochimica Acta* in press, doi:10.1016/j.electacta.2009.12.007.
- L. Freire, M.J. Carmezim, **M.G.S. Ferreira**, M.F. Montemor, “The passive behaviour of AISI 316 in alkaline media and the effect of pH: A combined electrochemical and analytical study”, *Electrochimica Acta* in press, doi:10.1016/j.electacta.2009.10.026
- S.V. Lamaka, G. Knörmisch, D.V. Snihirova, M.G. Taryba, M.L. Zheludkevich, **M.G.S. Ferreira**, Complex anticorrosion coating for ZK30 magnesium alloy, *Electrochimica Acta*, 55 (2009) 131-141
- S. V. Lamaka, M.G. Taryba, M.L. Zheludkevich, **M.G.S. Ferreira**, Novel Solid-Contact Ion-Selective Microelectrodes for Localized Potentiometric Measurements. *Electroanalysis* 21 (2009) 2447 – 2453.
- R.G. Duarte, A.S. Castela, **M.G.S. Ferreira**, A new model for estimation of water uptake of an organic coating by EIS: The tortuosity pore model, *Progress in Organic Coatings*, 65 (2009) 197-205
- M.F.Montemor, R. Pinto, **M.G.S. Ferreira**, Chemical composition and

CV of Prof. Mario G.S. FERREIRA (Continued)

corrosion protection of silane films modified with CeO₂ nanoparticles, *Electrochimica Acta*, 54 (2009) 5179-5189

- Poznyac S.K., Tedim J., Rodrigues L.M., Salak A.N., Zheludkevich M.L., Dick L.F.P., **Ferreira M.G.S.**, "Novel Inorganic Host Layered Double Hydroxides Intercalated With Guest Organic Inhibitors for Anticorrosion Applications", *ACS Appl. Mater. Interfaces*, 1(10), (2009) 2353-2362

- Raps D., Hack T., Wehr J., Zheludkevich M.L., Bastos A.C., **Ferreira M.G.S.**, Nuyken O., Electrochemical Study of Inhibitor-Containing Organic-Inorganic Hybrid Coatings on AA 2024, *Corrosion Science*, 51, (2009) 1012-1021

CV of Prof. Dr. Andraž LEGAT (Nominated for election to the BoA)

European Federation of Corrosion (EFC)
Frankfurt Office of the General Secretariat
c/o DECHEMA e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt am Main, Germany

Ljubljana, 30th of June

Nomination for Board of Administrators (BoA)

Dear Sirs,

in the name of the Slovenian representative in European Federation of Corrosion (EFC) we would like to nominate Prof. Dr. Andraž Legat as a candidate for Board of Administrations (BoA).

He has been active in various field of corrosion, including extensive international activities, for almost two decades. Since, he combines well the research work and managing obligations, we believe that his experience could be beneficial also in BoA.

Previous Prof. Dr. Leopold Vehovar was member of BoA as representative of Slovenia, he retired several years ago, so we would like to nominate Prof. Dr. Andraž Legat.

Yours Sincerely,

Prof. Dr. Monika Jenko
Institute of Metals and Technology

Inštitut za kovinske materiale in tehnologije
Lepi pot 11 • p.p. 431 • 1001 Ljubljana • Slovenija
t: 01/4701 800 (h.c.) • f: 01/4701 939 • www.imt.si • e: imt@imt.si

CV of Prof. Dr. Andraž LEGAT (Continued)

List of publications - Andraž Legat

1. LEGAT, Andraž, ZEVIK, Ciril. The electrochemical noise of mild and stainless steel in various water solutions. *Corros. sci.*, 1993, vol. 35, no 5/8, 1661-1666.
2. LEGAT, Andraž, GOVEKAR, Edvard. Detection of corrosion by analysis of electrochemical noise. *Fractals*, 1994, vol. 2, no 2, 241-244.
3. LEGAT, Andraž, DOLEČEK, Valter. Corrosion monitoring system based on measurement and analysis of electrochemical noise. *Corrosion*, 1995, 51, št. 4, 295-300.
4. LEGAT, Andraž, DOLEČEK, Valter. Chaotic analysis of electrochemical noise measured on stainless steel. *J. Electrochem. Soc.*, 1995, 142, št. 6, 1851-1858.
5. BAJT LEBAN, Mirjam, LEGAT, Andraž, DOLEČEK, Valter, KUJAR, Viljem. Electrochemical noise as a possible method for detecting stress-corrosion cracking, *Materials science forum*, vol. 289-292, 1998, 157-162.
6. LEGAT, Andraž, OSREDKAR, Jurij, KUJAR, Viljem, BAJT LEBAN, Mirjam. Detection of various types of corrosion processes by the chaotic analysis of electrochemical noise, *Materials science forum*, vol. 289-292, 1998, 807-811.
7. BAJT LEBAN, Mirjam, DOLEČEK, Valter, LEGAT, Andraž, KUJAR, Viljem. Analiza elektrokemijskega šuma, generiranega z različnimi korozijskimi procesi = Analysis of electrochemical noise generated by different corrosion processes. *Kovine zlit. tehnol.*, 1998, letn. 32, št. 1/2, 105-109.
8. BAJT LEBAN, Mirjam, LEGAT, Andraž, DOLEČEK, Valter. Comparative analysis of electrochemical noise generated during stress corrosion cracking of AISI 304 stainless steel. *Corrosion*, 2000, vol. 56, no. 9, 921-927.
9. LEGAT, Andraž. Influence of electrolyte movement on measured electrochemical noise. *Corrosion*, vol. 56, no. 11, 1086-1092.
10. BAJT LEBAN, Mirjam, DOLEČEK, Valter, LEGAT, Andraž, KUJAR, Viljem. Primerjava sočasnih meritev elektrokemijskega šuma in mehanskih parametrov med procesi napetostno-korozijskega pokanja = Comparison between simultaneously performed measurements of electrochemical noise and mechanical parameters during stress-corrosion processes. *Mater. tehnol.*, 2000, letn. 34, št. 1/2, 37-41.
11. BAJT LEBAN, Mirjam, LEGAT, Andraž, DOLEČEK, Valter. Electrochemical noise during non-stationary corrosion processes. *Mater. corros.*, Jun. 2001, vol. 52, no. 6, 418-425.

CV of Prof. Dr. Andraž LEGAT (Continued)

12. BAJT, Žiga, KUCHAR, Viljem, LEGAT, Andraž, BAJT LEBAN, Mirjam, GOMBOC, Janez. Untersuchungen an Sesselliftklemmen. *ISR, Int. Seilbahn-Rundsch.*, 2001, no 4, 7-9.
13. BAJT, Žiga, KUCHAR, Viljem, LEGAT, Andraž, BAJT LEBAN, Mirjam, GOMBOC, Janez. Ugotavljanje poškodb vravnih prižemk in analiza vzrokov njihovega nastanka = An assessment of the damage to ropeway clips and an analysis of the source of the damage. *Mater. tehnol.*, 2001, letn. 35, št. 5, 291-295.
14. LEGAT, Andraž, BAJT LEBAN, Mirjam, BAJT, Žiga. Corrosion processes of steel in concrete characterized by means of electrochemical noise. *Electrochim. acta.*, 2004, vol. 49, iss. 17-18, 2741-2751.
15. BAJT LEBAN, Mirjam, BAJT, Žiga, LEGAT, Andraž. Detection and differentiation between cracking processes based on electrochemical and mechanical measurements. *Electrochim. acta.*, 2004, vol. 49, iss. 17-18, 2795-2801.
16. DONIK, Črtomir, JENKO, Monika, PIHLAR, Boris, LEGAT, Andraž, KROŠELJ, Vladislav, VOJVODIČ-TUMA, Jelena. Vpliv radioaktivnih odpadkov na korozijske lastnosti nerjavnih jekel = The influence of radioactive wastes on the corrosion resistance of stainless steels. *Mater. tehnol.*, 2004, letn. 38, št. 6, 345-348.
17. LEGAT, Andraž. The effect of electrolyte stirring and laminar flow on measured electrochemical noise = Der Einfluss der Elektrolytbewegung und der laminaren Strömung auf das gemessene elektrochemische Rauschen. *Mater. corros.*, 2004, vol. 55, no 10, 761-767.
18. ŠELIH, Jana, DUCMAN, Vilma, MLADENVIČ, Ana, SEVER ŠKAPIN, Andriana, PAVŠIČ, Primož, MAKARVIČ, Matjaž, LEGAT, Andraž. Možnosti uporabe odpadkov v gradbeništvu in industriji gradbenih materialov = The use of waste materials in building and civil engineering. *Mater. tehnol.*, 2004, letn. 38, št. 1/2, 79-86.
19. BAJT, Žiga, LEGAT, Andraž, ŠELIH, Jana. Spremljanje napredovanja poškodb upogibno obremenjenih armiranobetonskih elementov z analizo akustične emisije = Monitoring of damage propagation in flexurally loaded reinforced concrete elements by means of acoustic technique. *Gradb. vestn.*, 2005, letn. 54, št. 4, 95-102.
20. ZUPANČIČ, Rok, LEGAT, Andraž, FUNDUK, Nenad. Tensile strength and corrosion resistance of brazed and laser-welded cobalt-chromium alloy joints. *J Prosthet Dent*, 2006, vol. 96, no. 4, 273-282.
21. LEGAT, Andraž. Monitoring of steel corrosion in concrete by electrode arrays and electrical resistance probes. *Electrochim. acta*, 2007, issue 27, vol. 52, 7590-7598.
22. KOVAČ, Jaka, BAJT LEBAN, Mirjam, LEGAT, Andraž. Detection of SCC on prestressing steel wire by the simultaneous use of

CV of Prof. Dr. Andraž LEGAT (Continued)

electrochemical noise and acoustic emission measurements.
Electrochim. acta, 2007, vol. 52, 7607-7616.

23. ZUPANČIČ, Rok, LEGAT, Andraž, FUNDUK, Nenad. Electrochemical and mechanical properties of cobalt-chromium dental alloy joints = Elektrokemijske in mehanske lastnosti različnih spojev stellite dentalne zlitine. *Mater. tehnol.*, 2007, letn. 41, št. 6, 295-300.
24. KOVAČ, Jaka, BAJT LEBAN, Mirjam, LEGAT, Andraž. An attempt to detect SCC by combined measurements of electrochemical noise and acoustic emission. *Mater. corros.*, dec. 2007, vol. 58, no. 12, 970-976.
25. LEGAT, Andraž, MLADENVIČ, Ana, GOLEŽ, Mateja. European cultural heritage research : revitalisation of the Monastery at Žiče. *Public service review, European Union*, 2007, issue 14, 134-135.
26. BAJT, Žiga, BAJT LEBAN, Mirjam, KOVAČ, Jaka, LEGAT, Andraž. An attempt to detect various types of stress-corrosion cracking on austenitic stainless steels by simultaneous measurements of acoustic emission and electrochemical noise. *Stroj. vestn.*, 2008, vol. 54, no. 1, 25-36.
27. KOVAČ, Jaka, ALAUX, Carole, MARROW, T. J., GOVEKAR, Edvard, LEGAT, Andraž. Correlations of electrochemical noise, acoustic emission and complementary monitoring techniques during intergranular stress-corrosion cracking of austenitic stainless steel. *Corros. sci.*, jun. 2010, vol. 52, iss. 6, 2015-2025.
28. KOSEC, Tadeja, LEGAT, Andraž, MILOŠEV, Ingrid. The comparison of organic protective layers on bronze and copper. *Prog. org. coat.*, 2010, [10.1016/j.porgcoat.2010.04.010](https://doi.org/10.1016/j.porgcoat.2010.04.010).

CV of Prof. Dr. Andraž LEGAT (Continued)

Curriculum Vitae - prof. dr. Andraž Legat

Personal Record

- born in 1960, in Kranj, Slovenia
- graduated in physics in 1983, at the University of Ljubljana
- obtained M.Sc. in electrical engineering in 1991, at the University of Ljubljana
- obtained Ph.D. in chemistry and chemical engineering in 1995, at the University of Maribor
- in 1996 was a post-doctoral fellow at University of Virginia
- in 2003 habilitated as Prof. Assoc. for chemical engineering at the University of Maribor, the habilitation renewed in 2009
- he was Head of the Laboratory for Metals and Corrosion and head of the Department for Materials at the Slovenian National Building and Civil Engineering Institute (ZAG)
- he is at present Director of the Slovenian National Building and Civil Engineering Institute (ZAG)

Research work

- developing/upgrading electrochemical methods for characterization of corrosion processes: electrochemical noise, coupled multi-electrode arrays
- developing corrosion monitoring systems/probes: acoustic emission, electrical resistance probes
- detection and characterization of specific corrosion processes: stress-corrosion cracking, corrosion of steel in concrete, pitting corrosion
- evaluation and characterization of degradation processes in building materials
- implementation of research results (mentioned above) in corrosion protection of infrastructure (especially traffic infrastructure), nuclear waste, dentistry

Projects

- head of the research programme group Building Materials funded by the Ministry of Education, Science and Technology
- responsible leader of several research projects funded by the Ministry of Education, Science and Technology
- responsible leader of several research projects funded by the Ministry of Transport
- responsible leader of two research projects funded by the Ministry of Economical Affairs
- co-ordinator of bilateral USA - Slovenian project and bilateral UK - Slovenian project
- Slovenian co-ordinator of NATO CLG project
- Slovenian co-ordinator of 3 COST projects

CV of Prof. Dr. Andraž LEGAT (Continued)

- participates in several projects within 5th, 6th and 7th EU FM

Memberships

- European Federation of Corrosion: actively participates in WP 4 and WP 12
- International Association of Corrosion Engineers (NACE)
- Electrochemical Society (ECS)
- was a member of Executive Committee European Cooperative Group on Corrosion Monitoring of Nuclear Materials (ECG-COMON)
- was a member of High Level Group of European Construction Technology Platform (ECTP)

Positions

- President of ENBRI (European Network of Building Research Institutes)
- was a Vice-President of FEHRL (Federation of Highway Research Laboratories)

Bibliography

- published more than 30 refereed papers and about 20 un-refereed papers
- presented over 50 conference papers
- author or co-author of more than 50 technical reports
- his papers were cited more than 100 times in international scientific literature
- acts as a reviewer of Cement and Concrete Research, Journal of the Electrochemical Society, Corrosion Journal, Electrochimica Acta, Materials and Structures

CV of Prof. Dr. Ali Fuak ÇAKIR (Nominated for election to the BoA)

- Saygılı Sok. Derya Apt. No. 4 Daire A-12, Etiler , İSTANBUL, TURKEY
- İstanbul Technical University (ITU), Faculty of Chemical and Metallurgical Eng., Department of Metallurgy and Materials Eng., 34469 Maslak, ISTANBUL, TURKEY (Retired)

TELEPHONE : **90-212-285 3528 (ITU), **90-212-265 5661 (Home)
 GSM : ** 90-532-420 7907
 TELEFAX : **90-212-285 3427 (ITU)
 E – MAIL : afcakir@itu.edu.tr
 Nationality : Turkish
 Date and place of birth : 25/04/1938, İstanbul
 Marital status : Married, 2 children
 Languages : English, French

EDUCATION

1957	Lycee de Galatasaray - İstanbul
1962	Dipl. Eng. Technical University of İstanbul, Faculty of Mines - İstanbul
1971	Eng.Sc.D. Columbia University, Henry Krumb School of Mines, Mineral Engineering Department, New York, U.S.A.

TITLES AND POSITIONS

1962-64	Military Service Lieutenant, First Army Engineering Corps
1965	Assistant Technical University of İstanbul, Faculty of Mines - İstanbul
1969-70 :	Teaching Assistant Columbia University, Henry Krumb School of Mines, Mineral Engineering Department, New York, U.S.A.
1971	Preceptor Columbia University, Henry Krumb School of Mines, Mineral Engineering Department, New York, U.S.A.
1972	Assistant Professor Technical University of İstanbul, Faculty of Mines, İstanbul
1976	Associate Professor Technical University of İstanbul, Faculty of Mines, Department of Metallurgical Engineering, İstanbul
1982	Professor, Technical University of İstanbul, Faculty of Chemical and Metallurgical Engineering, Department of Metallurgical Engineering, İstanbul
2005	Retired

CV of Prof. Dr. Ali Fuak ÇAKIR (Continued)

AWARDS AND HONORS

1965		Award to study abroad, Technical University of Istanbul, Istanbul
1966-67		Campbell Fellowship, Columbia University, Newyork, U.S.A.
1967-68		Campbell Fellowship, Columbia University, Newyork, U.S.A.
1989-**		Elected to EAST membership, European Academy of Surface Technology, Schwaebish Gmünd, Germany
1994		Corrosion Association in Turkey Science Award
1998	:	Kape Memorial Medal, Best Paper Award, The Institute of Metal Finishing, UK
2009		Candidate of Corrosion Association in Turkey for “European Federation of Corrosion Award”
2009		R&D 100 Award (R&D Magazine, USA) “Superhard Slick Coating (SSC)”

ADMINISTRATIVE DUTIES

1976		Co-founder, Faculty of Metallurgy, Technical University of Istanbul, Istanbul
1976-82		Founder and Chairman, Electrometallurgy and Corrosion Chair, Faculty of Metallurgy, Technical University of Istanbul, Istanbul
1982-86		Assistant Head, Department of Metallurgical Engineering, Technical University of Istanbul, Istanbul
1983-85		Assistant Director, Materials Science and Production Technologies Research and Application Center, Technical University of Istanbul, Istanbul
1985-88		Vice Dean, Faculty of Chemical and Metallurgical Engineering, Technical University of Istanbul, Istanbul
1984-		Materials Laboratories Head, Department of Metallurgical Engineering, Technical University of Istanbul, Istanbul
1991-94		Head, Department of Metallurgical Engineering, Technical University of Istanbul, Istanbul
1994-1997		Dean, Faculty of Chemical and Metallurgical Engineering, Technical University of Istanbul, Istanbul
1997-2005		Senator, İstanbul Technical University Senat, İstanbul
2001-04		National Secretary IAEST, Turkey
2004-05		Interuniversity Board Member Representing İTÜ
2005		Retired

Prof. Dr. Ali Fuak ÇAKIR (Continued)

PROFESSIONAL SOCIETIES

1989- 1994 Co-Founder and Vice President,
Corrosion Association of Turkey

COURSES TAUGHT

1969 - 70	: Mnl.E.E. 3210X: Extractive Metallurgy Laboratory	:Columbia University Henry Krumb School of Mines, New York, USA
1971	: Mnl.E.4201Y: Engineering Application of Electrochemistry	: " " " "
1972 - 73	: Hydrometallurgy	: Department of Metallurgical Engineering, İ.T.Ü.
1972 - 73	: Electrometallurgy	: " " " "
1973 - 82	: Corrosion and Metal Coatings	: " " " "
1974 - 84	: Physical Chemistry II	: " " " "
1974 - 91	: Corrosion and its Applications	: " " " "
1974 - 80	: Advanced Hydrometallurgy	: (Graduate Course
1974 - 80	: Advanced Electrometallurgy	: (Graduate Course)
1977 - 79	: Electrical and Magnetic Properties of Materials	: Istanbul State Achitectural and Engineering Academy
1977 - 79	: Plastic Materials	: " " " "
1982 - 1991	: Corrosion	:Department of Metallurgical and Materials Engineering, İTÜ.
1991 - 2005	: Corrosion Protection	: " " " "
1982 - 2005	: Electrolytic Metal Coatings	: " " " "
1992 - 2005	: Man, Nature and Protection of Metals	: " " " "
1988 - 2004	: Corrosion	: Marmara University
1997 - 2004	: Metal Surface Treatment	: " " " "
1982 - 2005	: Protective Metal Coatings (English)	: Institute of Science and Technology İ.T.Ü. (Graduate School),
1988 - 2005	: Passivity of Metals (English)	: " " " "
1991 - 2005	: Cathodic Protection (English)	: " " " "
1997.-. 2005	: Engineering Ceramic Coatings (English)	: " " " "

INSTRUCTOR

Since 1972 he participated to various teaching activities related to “**Corrosion, Corrosion Prevention and Protection, Surface Treatment, Electrolytic Coatings, Cathodic Protection and Design**” as instructor.

Some of the Institutions and Organizations for which he served as instructor are:

- Ministry of Industry, Turkey
- State Waterworks Organization, Turkey
- State Railways Organization, Turkey
- Board of Metallurgical Engineers, Turkey
- Corrosion Association, Turkey
- Great Man Made River Authority, Libya
- Marie Curie Project, European Academy of Surface Technology, Schawabish Gmünd, Germany

CV of Prof. Dr. Ali Fuak ÇAKIR (Continued)

ACADEMIC ACTIVITIES:

NEW LABORATORIES ESTABLISHED AT THE DEPARTMENT

- Chemical Characterization Laboratory
- Corrosion Laboratory
- Physical Vapor Deposition Laboratory
- Hard Coatings Characterization Laboratory

ACADEMIC COOPERATION

1994 – 97: Academic Link with Loughborough University of Technology, UK (Prof. Dr. D. R. Gabe)

JOURNAL REFEREE

International Journals

- Applied Surface Science

National Journals

- Bulletin of the Istanbul Technical University
- Journal of the Istanbul Technical University
- Nature (Official Publication of Scientific and Research Council of Turkey)
- Journal of the Yıldız Technical University
- Journal of the Galatasaray University

PROJECT EVALUATION FOR

- State Planning Office (DPT)
- Scientific and Research Council of Turkey (TÜBİTAK)
- Turkish Technology Development Fund (TTGV)
- Technology Follow-up and Evaluation Board (TİDEB)
- Technology Award (TÜBİTAK-TTGV-TÜSİAD)
- Istanbul Technical University
- Yıldız Technical University
- Marmara University

RESEARCH INTERESTS

Surface technologies: electrolytic and conversion coatings, diffusion coating techniques, vacuum coating techniques, PVD coatings, composite coatings, waste treatment in surface treatment industries. **Corrosion and corrosion protection:** mechanism of corrosion reactions, pitting corrosion (stainless steel, aluminum alloys), stress corrosion cracking, **cathodic protection, sacrificial anodes**, economics of corrosion. **Applied electrochemistry:** electroanalytical techniques. **Hydro and Electrometallurgy:** electrolytic refining, electrowinning, electrochemical reaction kinetics, leaching, solvent extraction. **Archeometallurgy:** mercury gold gilding of copper and silver, gold-silver and gilded silver wires in textiles.

CV of Prof. Dr. Ali Fuak ÇAKIR (Continued)

PUBLICATIONS AND PRESENTATIONS

1. **A. F. Çakır**, and P. Duby, Electrochemical Reduction of Cassiterite in Hydrochloric Acid Solutions. AIME 101 th Meeting, San Francisco, March (1972)
2. **A. F. Çakır**, Computer Simulation of Copper Converter Operations, Bulletin of the Technical University of Istanbul, 32, 3, 25-32 (1974)
3. **A. F. Çakır**, The Most Widely Used Electrochemical Methods in Metallurgical Researches, Bulletin of the Technical University of Istanbul, 32, 4, 12-17 (1974)
4. F.Y.Bor and **A.F. Çakır**, Advances in Copper Metallurgy and Technology, Madencilik, Copper Special Issue, 12, 2, 57-58, (1974)
5. F.Y.Bor and **A.F. Çakır**, A General Outlook to Copper Metallurgy and Advances in Pyrometallurgy, Madencilik, Copper Special Issue, 12, 2, 59-74 (1974)
6. **A.F. Çakır** and F.Y.Bor, Advances in Copper Hydro and Electrometallurgy, Madencilik, Bakır Özel Sayısı, 12, 2, 75-95 (1974)
7. **A. F. Çakır**, A Computer Model for Zinc and Lead Production by Slag Fuming, V. Scientific Congress,
8. **A. F. Çakır**, *Principles of Hydrometallurgy*, Mining Faculty Publication (I.T.U.), pp 89, (1974)
9. **A. F. Çakır**, H. Aglarci, Precipitation of Copper (Cementation) by Iron from Copper Sulfate Leach Solutions Metalurji, 1, 2, 6-22 (1975)
10. **A. F. Çakır**, Production of Copper by Leaching-Solvent Extraction-Electrolysis Metalurji, 1, 5, 26-37 (1975)
11. **A. F. Çakır**, Tin and its Economy, Madencilik, 15, 3, 11-20 (1975)
12. **A. F. Çakır**, *Physical Chemistry II*, Mining Faculty Publication (I.T.U.), pp 61 (1976)
13. **A. F. Çakır**, *Physical Chemistry II (Problems)*, Mining Faculty Publication (I.T.U.), pp 24\ (1976)
14. V. Aytekin, E. Tuglar, E. Çavuşoğlu and F.Dikeç, **A.F. Çakır**, *Metallurgical Technologies*, Mining Faculty Publications (I.T.U.), pp 80 (1976)
15. **A. F. Çakır**, *Electrometallurgy*, Mining Faculty Publications (I.T.U.), pp 73 (1976)
16. **A.F. Çakır**, A. Yaman, M.Ürgen, Finishing Operations Applied to Anodized Aluminum Proceedings of the I. Aluminum Congress, Seydişehir, Turkey, 247-54 (1978)
17. **A. F. Çakır**, Ferric Chloride Leaching of Cu-Pb-Zn-Sn-Ag-Cd Complex Ore Concentrate of Harşit-Köprübaşı, Proceedings of the III. Scientific and Technical Congress of Metallurgy, Ankara, 103-137 (1979)
18. **A.F. Çakır**, S. Ay, O. Babacan The Effect of Process Variables on the Electrolytic Coloring of Anodized Aluminum.Chemica Acta Turcica, 9, 2, 401-408 (1981)
19. **A.F. Çakır**, A. Yaman and T. Ateş, Manganfaellung aus Schwelfsauren Lösungen durch Induzierte Oxidation. (), Chemica Acta Turcica, 10, 1, 51-58 (1982)
20. V. Aytekin, **A.F. Çakır**, F. Dikeç, E. Çavuşoğlu *The Present Situation and the Future of the Research and Development Activities in Turkey*, Scientific and Research Council of Turkey, Engineering Research Group, pp 21 (1982)
21. **A. F. Çakır**, *Electrolytic Copper Coatings*, SEGEM Publication, Ankara, pp 66 (1983)
22. *Electrolytic Nickel Coatings*, SEGEM Publication, Ankara, pp 66 (1983)
23. **A. F. Çakır**, orrosion in Construction Industry and Protection by Cathodic Protection, Civil Engineering Faculty Materials Seminar (I.T.U.), Istanbul (1984)
24. **A.F. Çakır**, V. Akgün and M. Ürgen, The Cost of Corrosion to Turkish Industry, Scientific and Research Council of Turkey VIII. Metallurgy Symposium, Istanbul (1984)
25. O. Babacan, M.Ürgen, **A.F. Çakır**, Pitting and Stress Corrosion Cracking of High Strength 2017 Al-Cu Alloy (), Scientific and Research Council of Turkey VIII. Metallurgy Symposium, Istanbul (1984)
26. A. Gülen, M. Ürgen, **A.F. Çakır**, Pitting of AISI 304 Stainless Steel Tubings in Formaldehyde Solutions Scientific and Research Council of Turkey VIII. Metallurgy Symposium, Istanbul (1984)
27. **A. F. Çakır**, Metallic Coatings in Automotive Industry: Today and the Future, Proceedings of the I. Automotive and Automotive Parts Symposium, TMMOB Chamber of Mechanical Engineers, Bursa, Turkey (1985)
28. **A. F. Çakır**, The Cost of Corrosion in Turkish Land Transportation by Cars, Proceedings of the I. Automotive and Automotive Parts Symposium, TMMOB Chamber of Mechanical Engineers, Bursa, Turkey (1985)
29. **A. F. Çakır**, *Electrolytic Zinc and Cadmium Coatings*, SEGEM Publication, Ankara, pp 136 (1986)
30. **A. F. Çakır**, *Design in Corrosion Control and Prevention*, SEGEM Publication, Ankara, pp 51 (1987)
31. **A. F. Çakır**, Metallic Coatings in Corrosion Protection, Proceedings of the I. Corrosion Symposium, 223-248, 24-27 November, Ankara (19988)
32. **A. F. Çakır**, Electroless Nickel Deposits and Their Applications, Korozyon, 1, 2, 55-62 (1989)

CV of Prof. Dr. Ali Fuak ÇAKIR (Continued)

33. M. Ürgen, **A.F. Çakır** and M. Gerçek, The Corrosivity and Inhibitor Efficiency Experiments of the Water Corrosivity and Inhibitor Efficiency Testing of a Crude Oil Pipeline, *Korozyon*, 1, 3, 131-42, (1989)
34. **A. F. Çakır**, Corrosion of Metals: Basic Principles, *Borusan Mail* No:22 (1989)
35. **A. F. Çakır**, Protection of Metals from Corrosion: Basic Principle I., *Borusan Mail* No:23 (1989)
36. **A. F. Çakır**, Protection of Metals from Corrosion: Basic Principle II., *Borusan Mail* No:24 (1989)
37. **A. F. Çakır**, Corrosion of Zinc Coated Pipes, *Borusan Mail*, No:25 (1989)
38. **A. F. Çakır**, Protection from Corrosion of Burried Pipes, *Borusan Mail*, No:26 (1989)
39. **A. F. Çakır**, Corrosion in Hot Water and Central Heating Boilers, *Borusan Mail*, No:27 (1989)
40. Cathodic Protection in Ships and Marine Structures, *Proceedings of The Turkish Loyd Serial Conferences III.*, 399-4218, Istanbul (1989)
41. K. Kırılı, **A.F. Çakır**, The Problems Encountered During the Atomic Absorption Spectrophotometric Analysis of Gold and Platinum in Gold Ores from Antakya Region VIII. Semi-International Spectroscopy Symposium, University of 19 May, Samsun, Turkey, 6-9 September (1989)
42. **A.F. Çakır**, M. Ürgen, Corrosion Behaviour of Stainless Steels in Marine Environments *Proceedings of The Turkish Loyd Serial Conferences IV.*, 398-428, November, Istanbul (1989)
43. Y. Taptık M. Ürgen, **A.F. Çakır**, Corrosion Damages, and Their Determination and Evaluation by Non-destructive Testing Methods, *Korozyon*, 2, 1, 24-31 (1990)
44. **A. F. Çakır**, The Concept of the Cost of Corrosion and its Cost to Turkish Economy, *Proceedings of the Corrosion and the Cathodic Protection Seminar*, State Waterworks Organization, Chapter I, 1-15, Bursa, Turkey (1990)
45. **A. F. Çakır**, Principles of Corrosion, *Proceedings of the Corrosion and the Cathodic Protection Seminar*, State Waterworks Organization, Chapter II, 1-10, Bursa, Turkey (1990)
46. **A. F. Çakır**, A General Outline of the Corrosion Protection Methodes, *Proceedings of the Corrosion and the Cathodic Protection Seminar*, State Waterworks Organization, Chapter III, 1-14, Bursa, Turkey (1990)
47. **A. F. Çakır**, he Control and Prevention of Corrosion by Design, *Proceedings of the Corrosion and the Cathodic Protection Seminar*, State Waterworks Organization, Chapter IV, 1-51, Bursa, Turkey (1990)
48. **A. F. Çakır**, Concrete as Corrosive Environment, *Proceedings of the Corrosion and the Cathodic Protection Seminar*, State Waterworks Organization, Chapter V, 1-35, Bursa, Turkey (1990)
49. K. Kırılı, **A.F. Çakır**, The Problems Encountered During the Atomic Absorption Spectrophotometric Analysis of Gold and Platinum in Gold Ores from Antakya Region *Science Journal of the University of 19 May*, Special Issue, 2, 1, 147-158 (1990)
50. Y. Taptık, M. Ürgen, **A.F. Çakır** The Evaluation of Life and Dependability Concepts in the Material Selection Applied to the Example of " Corrosion and Corrosion Control with Non-destructive Testing"(*Proceedings of the IV. National Machine Design and Production Congress*, 19-21 September, Ankara (1990)
51. A. Umay, M. Ürgen, **A.F. Çakır**, The Problems Encountered During the Testing of Al-Zn-In Sacrificial Anodes *Proceedings of the VI. National Metallurgy Congress*, October 31- November 4, Ankara (1990)
52. **A. F. Çakır**, The Corrosion of the Stainless Steel Anodes in the Nickel Based Electrolytic Coloring Solution for Aluminium, *Proceedings of the VI.National Metallurgy Congress*, 517-527, October 31- November 4, Ankara, (1990)
53. **A. F. Çakır**, Surface Technology in Turkey, II. Corrosion Symposium, 5-8 November, Ankara (1990)
54. F. Sertçelik, M. Ürgen, **A.F. Çakır**, The Effect of Molybdate, Sulfate and Chromate Ions on Pitting of Stainless Steels *Proceedings of the II. Corrosion Symposium*, 33-44, 5-8 November, Ankara (1990)
55. M. Ürgen, **A.F. Çakır**, The Effect of Molybdenum on the Corrosion of Stainless Steels, *Proceedings of the II. Corrosion Symposium*, 163-172, 5-8 November, Ankara (1990)
56. A. Umay, M. Ürgen, **A.F. Çakır**, Potentiostatic Method to be Used for the Evaluation of AL-Zn-In Sacrificial Anodes, , *Proceedings of the II. Corrosion Symposium*, 247-258, 5-8 November, Ankara (1990)
57. **A. F. Çakır**, The Role of Turkish Metal Plating and Surface Treatment Industry in the Environmental Polution and Proposal for Turkey, *Proceedings of the Priorities in Environmental Polution*, Bosphorus University, 348-365, 21-23 May, Istanbul (1991)
58. **A. F. Çakır**, The Future of Small and Medium Size Metal Plating Industries in Turkey, *Metal Plating Waste Treatment Symposium*, 16 December, Istanbul (1991)
59. N. Cansever, M. Ürgen, **A.F. Çakır** The Effect of Molybdate Ions On the Stress Corrosion Cracking of AISI 304 Stainless Steel in Boiling Sodium Chloride Solutions, *Proceedings of the III. National Fracture Conference*, 155-166, Istanbul (1991)
60. **A. F. Çakır**, A General Outlook of the Turkish Surface Technology: Problems and Proposals, *Korozyon*, 2, 3, 65-68 (1991)

CV of Prof. Dr. Ali Fuak ÇAKIR (Continued)

61. **A. F. Çakır**, Surface Technology in Turkey, "Oberflächentechnologie im Europa der 90 er Jahre", Berichtsband über de 1.East Kongress vom 4.bis 5.October, 1990 in Schwaebish Gmünd, 110-113, Eugen G.Leuze Verlag, Saulgau/Württ., (1991)
62. **A.F. Çakır** and F. Çağman, Goldsmiths and Fire Gilded Articles of the Topkapı Palace Before 1600 A.D., International Symposium on the Goldsmith's Tools and Workshops, Saint-Germain-en-Laye, Paris, January 1 **A. F. Çakır**, Electrolytic Coloring of Aluminium in Nickel Based Solutions, Proceedings of International Meeting on Surface Treatment of Aluminium, 24-37 May, Villa Olmo, Como, Italy (1991)
63. M. Ürgen, F. Sertçelik, **A.F. Çakır** The Effect of Sulfate and Molybdate Ions on the Temperature Dependent Pit Morphology of AISI 304 Stainless Steels in Neutral Chloride Solutions, Proceedings of Eurocorr91, Budapest, 21-25 October, Hungary (1991)
64. **A.F. Çakır**, H. Tezcan, Gold, Silver and Gold Gilded Silver Wires in Ottoman Textiles International Conference on The Precious Metals-Modern Technologies and Applications, Berichtsband über de 1.East Kongress vom 28.bis 29. November, 1991 in Schwaebish Gmünd, 135-141, Eugen G.Leuze Verlag, Saulgau/Württ., (1991).
65. M.Ürgen, **A.F. Çakır**, The Effect of Molybdate Ions on the Temperature Dependent Pitting Potential of Austenitic Stainless Steels in Neutral Chloride Solutions Corrosion Science, 4/5, 30, 377-391, (1991)
66. **A.F. Çakır**, M. Ürgen, Seminar on Corrosion and Corrosion Protection National Railways, pp 30, 8-9 May, Istanbul (1992)
67. **A. F. Çakır**, Prevention of Transpassive Dissolution of Austenitic Stainless Steel Counter Electrodes in Nickel Based Electrolytic Coloring Solutions for Anodized Aluminium, Werkstoffe und Korrosion, 43, 10-16, (1992)
68. **A. F. Çakır**, A General Outlook to the Corrosion of Metals, Meta44, 2, 13, 25-34 (1992)
69. With H. Yalçın, T. Koç and O. Akat, Under and Above Ground Corrosion and Cathodic Protection Chamber of Chemical Engineers Publication, Chapter I., 1-43, Bursa (1992)
70. **A. F. Çakır** and A. Yaman , Surface Technology of Aluminum in Turkey Proceedings of the International Conference on The Surface Treatment of Aluminium and Other Light Metals, 3. EAST Conference, 12-13 November, Schwaebish Gmünd, Almany, (1992) 90-95, Eugene G. Leuze Verlag, 1993
71. M. Ürgen, O.L. Eryılmaz, K. Tokmanoğlu, Corrosion of Nitride Based Thin Film Coated Materials Proceedings of the III. Corrosion Symposium, 33-44, 3-6 November, Ankara (1992)
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SOME IMPORTANT ACADEMIC AND INDUSTRIAL RESEARCH PROJECTS

1. **Electrolytic Coloring of Anodized Aluminium** (Project Director) (1980), Çuhadaroğlu A.Ş
2. **Grand National Assembly Special Funding to Establish a Corrosion Laboratory** (Project Director) (1990)
3. **Metallurgical Evaluation of Çinkur Leach Residues** (Analytical Section) (1981)
4. **Improvement of Money Dies, National Mint**(Project Director)(1982)
5. **Pitting of Type 304 Stainless Steel in Formaldehyde Solutions**(Project Director)(1983), İ.T.Ü. Research Found
6. **Water Corrosivity and Inhibitor Efficiency Tests for Water Samples to be Used in Hydraulic Testing of 2nd Expansion of Iraq-Turkey Crude Oil Pipeline**, (Project Director) I.T.U. Materials and Production Technologies Research and Application Centre
7. **Corrosion Check-up, Yarımcı Fertilizers Company** (Group Leader) (1987) I.T.U. Materials and Production Technologies Research and Application Centre
8. **Materials Improvement and Setting-up of the Quality control laboratories, Asphalt Factories**, (Project Director) Metropolitan İstanbul Municipality
9. **Materials Specification and Control Procedures for İSTON A.Ş.**(Project Director) (1987) Metropolitan İstanbul Municipality
10. **Similar Project (project 9) had been carried out for the Istanbul Metropolitan Municipality**, (Project Director)(1992) Metropolitan İstanbul Municipality
11. **Product Specification and Quality Control Procedures for İSTON A.Ş.**(Project Director) (1987) Metropolitan İstanbul Municipality
12. **Water Corrosivity Tests for Küçük Çekmece Lake Water to be used in Hydrulic Tests in Main Natural Gas Pipeline for İstanbul**,(Project Director), (1990) İ.T.Ü Malzeme Bilimleri ve Üretim Teknolojileri Uygulamalı Araştırma Merkezi
13. **Cathodic Protection of the Steel Piles of the Pier**,(Project Director) (1990) Petrochemical Industries, Izmir (PETKİM)
(Consultant for design and application)
14. **Cathodic Protection of Heat Exchangers**,(Project Director))(1991) Petrochemical Industries, Izmir (PETKİM)
(Consultant for design and application)
15. **Cathodic Protection of Pipelines**, (Project Director) (1992) Petrochemical Industries, Izmir (PETKİM)
(Consultant for design and application)
16. **The Effect of Indium on the Electrochemical Properties of Al-Zn Alloy System**.(Project Director) (1993), İ.T.Ü. Research Fund.
17. **The Cost of Metallic Corrosion on Turkish Economy, Decreasing-Controlling Methods and Proposals**. (Project Director) (1993) Scientific and Research Council of Turkey (TUBİTAK)
18. **Production and Characterization of Arc Physical Vapor Deposited Hard Ceramic Coatings**, (Vice Project Director), (1994) State Planning Organization of Turkey,
19. **Production - Characterisation and Development of Physical Vapor Deposited (PVD) Coatings**(Project Director) (1994-97) NATO, Science for Stability Programme III Project, NATO-TU-PVD COATINGS)

CV of Prof. Dr. Ali Fuak ÇAKIR (Continued)

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21. **Cathodic Protection of Underground Water Pipes** (Co-Project Director) (1997) İ.T.Ü. Development Foundation and PETKİM A.Ş.
(Consultant for design and application)
22. **Characterization of Alumina Based Electrical Ceramics** (Co-Project Director) (1997) İ.T.Ü. Development Foundation and METOP A.Ş.
23. **Characterisation of Hard Ceramic Coated Surfaces**(Co-Project Director) (1997) İ. T.Ü. Development Foundation and M.T.E. A.Ş.
24. **Development and Production of Multifunctional Physical Vapour Deposition (PVD) System and its Industrial Applications,** (Director) (1998) NATO Science for Peace Programme (NATO SfP-972420, NATO SfP-PVD Systems)
25. **Surface Quality and Corrosion Properties of AISI 430 Stainless Steel Sheets** İ. T.Ü. Development Foundation and Bosh Profilo Elektrikli Gereçler Sanayii A.Ş.. Co-director.
26. **Rebar Corrosion Analysis” Çakir Apartmanı Yönetimi.** (İ. T.Ü. Development Foundation Project, Co-director)
27. **Casting defect Analysis of JCB Gear Boxes ,** Döktaş Dökümcülük Tic. A.Ş. (İ. T.Ü. Development Foundation Project, Co-director İTÜ Geliştirme Vakfı. Eş-Direktör)
28. **Production and Characterisation of Mixed Metal Oxide Coated Anodes,** Ergil Makina San. Ve Tic. Ltd Şti. (İ. T.Ü. Development Foundation Project, Co-director)
29. **Characterisation of Agregate Samples, NUH Concrete A.Ş** (İ. T.Ü. Development Foundation Project, Co-director)
30. **Determination of Wear Properties of Different Motor Oils, Ford Otomotiv San. AŞ. (OTOSAN)** (İ. T.Ü. Development Foundation Project, Co-director)
31. **Salt Spray Testing Of Zinc Coated Window Accessories, PENTEK A.Ş.** (İ. T.Ü. Development Foundation Project, Co-director İTÜ Geliştirme Vakfı. Co-Director)
32. **Hydrogen Defect Free Enamelling Steels,** (1999) Borçelik Çelik Sanayii Ticaret A.Ş. (İ. T.Ü. Development Foundation Project, Co-director)
33. **Coating Optimisation of TiCN Hard ceramic Coatings,** Otomotiv Platinleri Sanayi veTicaret AŞ (İ. T.Ü. Development Foundation Project, Co-director)
34. **Improvement of Aluminium Casting Moulds ,** MİTA AŞ (İ. T.Ü. Development Foundation Project, Co-director İTÜ Geliştirme Vakfı. Eş-Direktör)
35. **Corrosion and Corrosion Protection in Underground Metro Wagons I and II** (2000) (İstanbul Ulaşım A.Ş) (İ. T.Ü. Development Foundation Project, Co-director)
36. **Surface Evaluation of Rolled Steel Products (2000)** Borçelik Çelik Sanayii Ticaret A.Ş. (İ. T.Ü. Development Foundation Project, Co-director)
37. **Stainless Steel Fuel Pipeline Corrosion at Sabiha Gökçen International Airport,.(** 2001) HES Mühendislik Ltd. Şti (İ. T.Ü. Development Foundation Project, Co-director)
(Bacterial corrosion determination and elimination)
38. **CathodicProtection Evaluation of PCCP Pipes, Libya (2002),** GMRA Libya, GAMA A.Ş. (İ. T.Ü. Development Foundation Project Director
(Competant Authority (GMRA), Consultant)
39. **Metal Plating and Product Quality Improvement in Furniture Hinges Production,** (2002) SAMET Kalıp A.Ş. TEYDEB-3020351 (Consultant)
40. **Copper Nickel Chromium Plating Plant ,** İstikbal, Kayseri, 2004, (Advisor)
41. **Trivalent Chromium Coating, Eczacıbaşı Sıhhat Gereçleri A.Ş. (** 2003) (İ. T.Ü. Development Foundation Project Co-Director)
42. **Nickel Recovery by Ion Exchange Process** (2005),) SAMET Kalıp A.Ş. , TEYDEB-3050314, (Consultant)
43. **Al Kufra Wellfield – Tazerbo- Ajdabia Water Supply Project, Kufra Conveyance, Cathodic protection ,** GMRALibya,, (2006), TEKFEN – TML Joint Venture
(Design Reviewer, CP Consultant)
44. **Leach – Solvent Extraction – Electrolysis of Oxidic Zinc Ores,** DEDEMAN Mining, (2006-2008) (Consultant)
45. **Cathodic Protection of Bulk Berth of Lisco Port of Libya Iron and Steel Company, Libya, (2007),** TML
(Consultant for design and application)

CV of Dr. Ami ELIEZER (Nominated for election to the BoA)

Name: Amir Eliezer

Date & place of birth: 18.09.1970 , Haifa, Israel

Citizenship: Israeli

Marital status: Married +3.

Affiliation: SCE - Sami Shamoon College of Engineering, Beer Sheva, P.O.B. 950, 84100.

Tel: +972-8-6475688.

E-mail: amir@sce.ac.il.

Tel

1. Academic education

- | | |
|------------|--|
| 2002-2003 | Post Doctoral Research Fellow. Ben-Gurion University of the Negev . |
| 1998-2002 | Ph.D , in Department of Materials Engineering, Ben-Gurion University of the Negev.
Dissertation title: “Mechanical Behavior of Mg-Alloys in Corrosive Environments under Static and Dynamic Loading”, Summa cum laude |
| 1998- 2001 | M.B.A. in School of Management, Ben-Gurion University of the Negev |
| 1995-1997 | M.Sc in Department of Materials Engineering, Ben-Gurion U niversity of the Negev.
Dissertation title:: “Mechanochemical Behavior, Corrosion Fatigue and Plasticity of Magnesium Alloys”, Summa Cum Laude. |
| 1992-1995 | B.Sc. in Department of Materials Engineering, Ben-Gurion University of the Negev.
Magna cum laude. |

2. Academic employment

- | | |
|------------|--|
| Since 2009 | Full Tenure- Sami Shamoon College of Engineering. |
| Since 2007 | Senior Lecturer , Civil Engineering Dept and Mechanical Engineering Dept, SCE – Sami Shamoon College of Engineering, Israel. |
| 2004-2007 | Senior Lecturer , Civil Engineering Dept, SCE – Sami Shamoon College of Engineering, Israel. |
| 2003-2004 | Lecturer. Civil Engineering Dept, SCE – Sami Shamoon College of Engineering, Israel. |
| 2000-2002 | Instructor, Department of Materials Engineering .Ben-Gurion University of the Negev, Israel. |
| 1998-2000 | Senior Assistant, Department of Materials Engineering .Ben-Gurion University of the Negev, Israel. |
| 1995-1997 | Assistant, Department of Materials Engineering .Ben-Gurion University of the Negev, Israel. |

3. Research Grants

3.1. Grants

Since 2003 a few grants were received each year on research fields such as Nano-materials, Biomaterials, Automotive and marine applications

4. Publications, lectures and seminars

More than 130 publications in Journals and papers - abstracts proceedings of Conferences
More than 35 invited lectures and seminars

CV of Dr. Ami ELIEZER (Continued)

5. Academic roles

- Since 2009 Co-Chair of the Educational Committee, Mechanical Engineering, Beer-Sheva Campus, (SCE – Sami Shamoon College of Engineering).
- Since 2005 Presents assistance in engineering programs within SCE
- Since 2005 Academic advisory for the Israeli Negev Student Section
- Since 2004 Director, Corrosion Research Center, Nano-Bio & Advanced Materials, (SCE – Sami Shamoon College of Engineering)

6. Editorship in journals/Conferences proceedings

- Since 09/2009 Editor of Electronic Journal of Corrodia. NACE INTERNATIONAL Europe
- 2009 Guest Editor for the Journal of Advanced Materials Research.
- Editor of 3 CAMPI International conferences proceedings

6.1. Reviewer of a few international Journals

7. Positions in conferences

1. Member of the International Conference Committee, Eurocorr 2010, Moscow, Russia, 2010.
2. Member of the International Conference Committee, Eurocorr 2009, Nice France. 2009.
3. STAC Member EFC Science and Technology Advisory Committee (Elected 2008-2010)
4. NACE INTERNATIONAL , NACE Europe Board Member (Elected 2007-2010)
CORROSION 2007, CORROSION 2008, CORROSION, 2009, CORROSION 2010.
5. Chairman of the of the Third Israeli Conference on Corrosion Advanced Materials and processes in Industry – (CAMPI) " Beer-Sheva, Israel, May 29-31, (2007)
6. Chairman of the second Israeli Conference on Corrosion Advanced Materials and processes in Industry – (CAMPI) " Beer-Sheva, Israel, June 1-2. (2005)
7. Chair of the Scientific Committee, member of the organising committee, first Israel Conference on Corrosion and Advanced Materials", NACE-Negev Academic College of Engineering, Beer-Sheva, Israel, ,May, 29 (2003).
8. Organization of Seminars and other activities within the Corrosion Research Center.

8. Main Membership in professional/scientific societies

- 2009 WCO-Board of Administrators (Elected 2009-2012)
- 2008 STAC Member EFC Science and Technology Advisory Committee (Elected 2008-2010)
- 2007 Present NACE Europe Board Member (Elected 2007-2010)
- 2007 WCO-Board Administrators (Elected 2007-2009)
- 2005 Present CAMPI-Chairman
- 2005 Present EFC- Member Society-General Assembly
- 2005 Present NACE International-Faculty Advisor of the Israeli Negev Student Section
- 2004 Present NACE International Corrosion Society
- 2003-2004 International Electrochemical Society
- Several years Minerals, Metals and Materials Society (TMS). International Society

9. Additional activities

- Since 2003 Present - (National Elections) Elected (Volunteer) second term councillor of the Local Council of Omer, Board of directors,
Chair of a few committees and member of a few other committees
- Board of "Hapoel Omer' Sports Club.

CV of Mr. Sam McFARLAND (Nominated for election to the BoA)

Name : Sam McFarland (British, DOB 08-03-1962)

Specialist Area : Materials, Corrosion and Integrity in Oil and Gas Operations

Summary

General

I am an experienced engineer with over 20 years experience in the resolution of materials, corrosion and integrity issues in the oil and gas industry, following an initial four year period in the shipbuilding industry and Naval dockyards.

My oil and gas industry experience has been mainly upstream but I have also had involvement in downstream and chemicals plants. I also have experience of materials, corrosion and integrity practices in other major operators, particularly bp. I am primarily experienced in the UK North Sea but have also worked in the Middle East (Qatar, Oman, Saudi Arabia, Syria, Kuwait), North Africa and Russia.

Much of my experience has been field and site-based, including extended time offshore and four years based on a sour gas plant as Integrity Team Leader. I have also worked on various sour gas design and construction projects, most recently on the Pearl GTL project for Qatar.

I am a subject matter expert for the Plant Readiness Programme (Flawless) in the areas of Cleanliness, Tightness and Mechanical Integrity (Static) and have been involved in giving PRP workshops at the Kayan site in Saudi Arabia over the past two years.

I am recognised outside Shell as a technical expert, currently being both Chair of NACE Specific Technology Group 31 (responsible for coordination of the development of NACE standards) and also the Chair of the European Region of NACE. I am also currently involved in the development of a number of ISO standards related to the specification of metallic materials and corrosion mitigation measures.

I have completed ISO 9000 Lead Auditor training and I am an IRCA Certificated Internal Auditor. I am fully familiar with a wide range of QA/QC requirements, construction codes and best practices relevant to our industry.

I have a proven track record of providing technical excellence in my own work across a wide range of activities while leading a diverse team of fellow engineers to deliver an effective and essential service.

On 1st January 2010, I was appointed Shell's Principal Technical Expert for Materials Performance in Oil and Gas Operations.

Professional Experience

In Shell

Jan 2010 to date

Position : Team Leader – Metallurgy, Fabrication and Fitness for service (EMEA)

Location : Shell Projects and Technology, The Netherlands

- Manage the regional sub-discipline Metallurgy, Fabrication, and FFS team in MMI including SME/PTE positions
- Provide technical leadership and deliver personally, high value added technical services, review and approval of services as a subject matter expert
- Promote, support and develop strategies for the application of new technological developments
- Assessment of flaws in process equipment, development of repair/replacement strategies, assessment and mitigation of equipment stresses for the purposes of support to operating equipment or new designs
- Deep knowledge of welding and repair methodologies and QA/QC processes, and prediction of remaining life of equipment under specific operating conditions.
- Leading the steel mill assessment programme in EMEA, including audit of potential suppliers
- Participate as Shell representative on API and ISO standards development committees
- This group also provides fabrication QA and QC support for projects and the CP-1/TAMAP initiatives, working in cooperation with the Integration and Project Support group.

CV of Mr. Sam McFARLAND (Continued)

July 2006 to December 2009

Position : Technical Group Leader, Materials Corrosion Engineering

Location : Shell Global Solutions Upstream, The Netherlands

- Head of nine-man team of specialists, providing materials and corrosion support to a wide range of new projects, development opportunities, research assignments and exiting operating assets, for Shell, JVs and third parties.
- Materials, Corrosion, Inspection, Integrity and Chemistry consultancy for major Shell Projects globally.
- FAIR-ERs and FAIR-MSs in Oman, Egypt, Syria, Kuwait and Russia
- Shell Subject Matter Expert for Metallic Materials: Facilities and Topsides
- Project Lead for our support to a number of developing projects that are looking at opportunities for new CO2 capture, storage and enhanced oil recovery.
- Maintenance of best practices and technical standards

1989 to 1994

Position : Senior Materials/Corrosion Engineer and Senior Inspection Engineer

Location : Shell UK Exploration and Production, UK

- Materials, Corrosion, Inspection, Integrity and Chemistry consultancy for the Northern Fields Unit offshore platforms and pipelines.
- Specific responsibilities for integrity of topsides equipment, wells and subsea pipelines
- Responsibilities for structural inspection matters in support of structural integrity assurance
- Coordination of offshore inspection activities.

Outside Shell 1996 to 2006

Position : Integrity Team Leader

Location : Lloyd's Register, UK

- Materials, Corrosion, Inspection, Integrity and Chemistry consultancy for various major projects for oil companies.
- Based on site for four years at BHP Billiton's Point of Ayr sour gas terminal as Integrity Team Leader
- Pressure Systems Competent Person as per UK Pressure Systems Safety Regulations
- Setting of risk based inspection principles and practices for pressure equipment

1994 to 1996

Position : Senior Inspection Engineer

Location : Oceaneering, UK

- Materials, Corrosion, Inspection, Integrity and Chemistry consultancy for BP's Forties field, specifically topsides equipment, pipelines and wells.
- Leading a team of six onshore and eight offshore personnel, providing materials, corrosion and inspection services
- Materials selection recommendations for modifications and new facilities

1885 to 1989

Position : Design Engineer

Location : Yarrow Admiralty Research Department, UK

- Materials selection, chemicals treatments and corrosion mitigation measures for Naval vessels and dock facilities.
- Materials, QA/QC and fabrication support to construction of facilities at Clyde Submarine Base Faslane and Royal Naval Armaments Depot Coulport for support of the Trident submarine fleet development

CV of Mr. Sam McFARLAND (Continued)

Education

BSc (Hons) Metallurgy, University of Strathclyde, UK
MSc Corrosion Engineering, University of Manchester, UK

Other Qualifications

Chartered Engineer Member of The Institute of Materials, Minerals and Mining (MIMMM)
Member of The Institute of Marine Engineers (MIMarES)

Languages

English

Industry Competence

- Materials selection,
- Corrosion Engineering
- Integrity Management
- Metallurgy
- Chemical treatments
- Fitness for service assessments
- Fabrication
- Inspection
- Failure analysis
- Static equipment design and operation.

Methodological Competence

- FAIR-ER and FAIR-MS
- Integrity assessment
- Risk based inspection
- Risk assessment
- Incident investigation
- Root cause analysis
- PRP/Flawless
- Technical auditing

CV of Dr.-Ing. Karl-Heinz STELLNBERGER (Nominated for election to the STAC)

PERSONAL DATA

Name: Dr.-Ing. Karl-Heinz Stellnberger

Address: Kirchholz 3
4491 Niederneukirchen

Tel.: +43/664/6159774

E-mail: karl-heinz.stellnberger@voestalpine.com

Date of birth/place: 07.04.1964, Linz

Nationality: Austria



EDUCATION

1995 – 1998 Doctorate of Material Sciences at the Faculty for Corrosion and Surface Technologies University Erlangen /Germany
Title: „Chromatierung von verzinkten Feinblechen in Hinblick auf Cr (VI)-Ersatz“

1989 – 1994 Technical and Economic Engineering in Chemistry University Linz, (completed in minimum time)
Thesis: „Transfergrößen einwertiger Kationen in Acetonitril-Wasser-Gemischen“

1984 – 1989 Technical College / Linz completed Electrical Technology Studies with distinction

1979 – 1983 Training as Laboratory Assistant from Vocational College IV / Linz completed with distinction

1978 – 1979 Sixth Form College Lentia 2000 / Linz

1974 – 1978 Secondary School Langholzfeld / Pasching

1970 – 1974 Primary School Langholzfeld / Pasching

MILITARY SERVICE

4/1983 – 11/1983 First Aid Assistant (PzStbB 3, Raabkaserne, Mautern / A)

PROFESSIONAL EXPERIENCE

2005 Team Leader for Corrosion and Corrosion Protection, Department B3E, voestalpine

1996 – 2005 Research Engineer, Project Leader as well as Project Manager in the Department B3E, Developing Organic Coatings, voestalpine

1983 – 1989 Laboratory Assistant in the Department for Corrosion and Surface Technologies, SFO1, voestalpine

1979 – 1983 Laboratory Assistant Apprentice in the Department for Analysis, voestalpine / Linz

CV of Dr.-Ing. Karl-Heinz STELLNBERGER (Continued)

selected PUBLICATIONS

- [1] **K.-H. Stellnberger**, G. Gritzner, A. Lewandowski und M. Orlik; Thermodynamic Transfer Properties for Na⁺, Tl⁺ and Ag⁺ to Water-Acetonitrile Mixtures; J. Chem. SOC. Faraday Trans., 1995, **91**(5), 875-880
 - [2] **K.-H. Stellnberger**, M. Wolpers, T. Fili, C. Reinartz, T. Paul and M. Stratmann, Electrochemical Quartz Crystal Microbalance in Modern Corrosion Research, Study of the Pretreatment of Galvanized Steel; Faraday Discuss, 1997, **107**, 307-322
 - [3] **K.-H. Stellnberger**, Chromatierung von verzinkten Feinblechen in Hinblick auf Cr (VI)-Ersatz, Dissertation, 1998, Universität Erlangen-Nürnberg
 - [4] F.A. Androsch, K. Kösters and **K.-H. Stellnberger**, ECCA, 1999
 - [5] F.A. Androsch, **K.-H. Stellnberger**, M. Wolpers, L. Jandel, D. Drescher, J. Sander and R. Seidel, Chromate-free Coil Coating and One Year of Production Expertise, ECCA, Monte Carlo, 1999
 - [6] F. M. Androsch, K. Kösters and **K.-H. Stellnberger**, Accelerated Corrosion Tests for Corrosion Protection Systems on Steel Sheets for the Automotive Industry; Stahl und Eisen, 121 (2001), **6**, 37-46
 - [7] F.A. Androsch, **K.-H. Stellnberger**, Chromate-free Coil Coating – the Future is Now, ECCA, 2003
 - [8] F. Beier, I. Maronna und **K.-H. Stellnberger**, Stahl, **3**, 2003, 56-57
 - [9] **K.H. Stellnberger**; Weldable Thin Organic Films First and Second Generation University of Stockholm, 2003
 - [10] **K.H. Stellnberger**; Korrosion und Korrosionsschutz von Stahlfeinblechen, Korrosion an verschiedenen Werkstoffen, Mödling, 2004
 - [11] **K.H. Stellnberger**; ECCA, Haus der Technik, Schnittflächenschutz für organisch beschichtete Stahlfeinbleche Lösungsansatz für kundenrelevante Probleme?, Essen 2005
 - [12] P. Hoffmann-Löser, A. Schnell, **K.-H. Stellnberger**, F. M. Androsch, T. Reier, J. Lewandoski, C. Filthaut, A. Besseyrias, C. Dane, G. Steinbeck, Status of Corrosions Protection Primers for the Automotive Industry, SCT 2005, Wiesbaden
 - [13] **K.-H. Stellnberger**; Der Einsatz von Korrosionsschutzprimern in der Automobilindustrie, 1. Korrosionsschutzsymposium, St. Goar, 2005
 - [14] **K.-H. Stellnberger**; Flanschkorrosion, Die gefährlichste Korrosionsart in der Automobilindustrie, GfKORR, 2006, Frankfurt
-

CV of Dipl.-Ing. Gerit SIEGMUND (Nominated for election to the STAC)

CV Gerit Siegmund

- Studied chemistry at University of Essen, Germany
- Joined BEB (joint interest of Exxon and Shell) in 1983
- Since 1983 working on corrosion engineering and production chemistry in oil and gas production in Germany
- Focus on sour gas applications (downhole, top site equipment, plants)
- Since 2002 merger : ExxonMobil Production Germany
- Responsible for corrosion- and materials engineering ('subject matter expert')
- Member of
 - GFKorr (German corrosion society),
 - EFC
 - NACE
- Vice chairman of the European section of NACE
- Member of ISO TC 67 WG7 working on ISO 15156 (International sour gas standard)

CV of Dr. Judit TELEGDI (Nominated for re-election to the STAC)

Place of work since 1970: Hungarian Academy of Sciences,
Chemical Research Center,
Budapest, Hungary

Position: scientific advisor

Education:

1970 chemistry, Eötvös Loránd University, Budapest



Scientific degrees:

1981 PhD

1982 candidate of sciences of the Hung. Ac. Sci. (CSc)

1983 2009 doctor of sciences of the Hung. Ac. Sci. (DSc)

Scientific fields:

Microbiologically influenced corrosion; synthesis of molecules with multifunctional properties; preparation, characterization and application of Langmuir-Blodgett films and self assembled molecular layers applied for inhibition of corrosion and microbial adhesion; nanocoatings with self healing and slow release microcapsules, scanning probe microscopy.

Training/Education activities

Teaching at the PhD School of the Pannon University Veszprém; head of practical courses for chemical students at the Budapest Technical University.

Number of publication: 143

Citation (without selfcitation): 574

Number of presentations at international conferences: 98

Membership in: Hungarian Chemical Society
Hungarian Corrosion Society
European Federation of Corrosion (EFC):

Functions in:

the Hungarian Corrosion Society: president

the EFC: representative of Hungarian Corrosion Society in the Science and Technology Advisory Committee as well as in the General Assembly of the European Federation of Corrosion

Participation in EU projects:

Marie Curie Research Training Network: 2005-2007 (Chiral expression and Transfer at the Nanoscale) (project leader)

PolyCond: Modification of carbon nanotubes 2007-2009

Marie Curie Initial Training Network: 2009-2012 (BIOCOR) (project leader)

CV of Dr. Judit TELEGDI (Continued)

Participation in COST Research and Development Projects: since 1992

- COST 511** "Interactions of Microbial Systems with Technical Materials" 1992-1996
(leader of the Hungarian team)
COST 520 "Biofouling and Materials" 1998-2001
(leader of the Hungarian team)
- COST E11 "Characterization Methods for Fibres and Paper"** 1998-2001.
(leader of the Hungarian team)
- COST D19 "Stereochemical effects on self-assembly and switching at the nanometer scale"** 2002-2004 (participant)
- COST E32 "Characterization of paper surfaces for improved printing paper grades"** 2004-2006. (participant)
- COST D33 "Nanoscale Electrochemical and Bio-processes (Corrosion) at Solid-aqueous Interfaces of Industrial Materials"** 2004-2009 (representative of Hungary, project leader)

Selected publications

- G. Diósi, **J. Telegdi**, Gy. Farkas, L.G. Gázsó, E. Bokori
Corrosion influenced by biofilms during wet nuclear waste storage
International Biodeterioration and Biodegradation **51**(2) 151-156 (2003)
- Kálmán E, Nagy P, Csanády A, Papp K, Csorbai HK, Hunyadi C, **Telegdi J**
AFM and SEM: Competing or complementary techniques?
Materials Science, Testing and Informatics
Materials Sciences Forum **414-4**, 241-251 (2003)
- Pradier CM, Karman F, **Telegdi J**, et al.
Adsorption of bovine serum albumin on chromium and molybdenum surfaces investigated by Fourier-transform infrared reflection-absorption spectroscopy (FT-IRRAS) and X-ray photoelectron spectroscopy *J PHYS CHEM B* **107** (28): 6766-6773 JUL 17 2003
- Diósi Gábor, Farkas Gyöngyi, Gázsó Lajos, **Telegdi Judit**
Tervezett radioaktív hulladéktárolók környezeti biztonságának előzetes vizsgálata mikrobiológiai szempontból II. Biofilmek korróziós hatása radioaktív hulladéktárolókban
Egészségtudomány **47** 200-209 (2003)
- K. Kinzler, T. Gehrke, **J. Telegdi**, W. Sand
Bioleaching - a result of interfacial processes caused by extracellular polymeric substances (EPS) *Hydrometallurgy* **71** (1-2): 83-88 OCT 2003 1-186 (2004)
- H. Otmačić, **J. Telegdi**, E. Stupnišek-Lisac
Protective properties of an inhibitor layer formed on copper in neutral chloride solution
J. Applied Electrochemistry **34** (5) 545-550 (2004)

CV of Dr. Judit TELEGDI (Continued)

- J. Telegdi, T. Rigó, E. Kálmán
Nanolayer barriers for inhibition of copper
Corrosion Engineering and Technology **39** 65-70 (2004)
- I Felhősi, Gy. Tolnai, F.H: Kármán, **J. Telegdi**, A. Pilbáth, G. Hegedüs, Á. Kovács-Stáhl, J. Bognár, P.M. Nagy, E. Kálmán
Ecologically Friendly Multifunctional Coating Systems with Anticorrosive Properties
Pitture E Vernici **81** 7-15 (2005)
- Felhősi I, Tolnai Gy, Mavre F, Kármán FH, **Telegdi J**, Pilbáth A, Hegedüs G, Kovács-Stahl Á, Bognár J, Nagy PM, Kálmán E:
Ecologically friendly multifunctional coating systems with anticorrosive properties,
Pitture Vernice-Coating, **81** (3) (2005) pp 7-15
- F. Al-Taher, T. Rigó, **J. Telegdi**, Kálmán E:
Inhibition of copper corrosion by Langmuir-Blodgett layers of hydroxamic acid salts,
Proceedings of the 10th European Symposium on Corrosion and Scale Inhibitors
(10SEIC), Annales of University of Ferrara, Italy, 2005, pp 925-933
- J. Telegdi**, T. Rigó, J. Beczner, E. Kálmán
Influence of Langmuir-Blodgett nanolayers on microbial adhesion
Surface Engineering **21**(2) 107-112 (2005)
- J. Telegdi**, T. Rigó, E. Kálmán
Molecular layers of hydroxamic acids in copper corrosion inhibition
J. Electroanal. Chemistry **582** 191-201 (2005)
- T. Rigó, A. Mikó, **J. Telegdi**, M. Lakatos-Varsányi, A. Shaban, E. Kálmán
Inhibition effect of hydroxamic- and phosphonic acids Langmuir-Blodgett films on
iron corrosion in sodium perchlorate solution
Electrochemical and Solid State Letters **8** B51-B54 (2005)
- Keszthelyi T, Pászti Z, Rigó T, **J. Telegdi**, et al.
Investigation of solid surfaces modified by Langmuir-Blodgett monolayers using
sum-frequency vibrational spectroscopy and X-ray photoelectron spectroscopy
JOURNAL OF PHYSICAL CHEMISTRY B **110** (17): 8701-8714 (2006)
- P. Gumpel, N. Arlt, **J. Telegdi**, et al.
Microbiological influence on the electro-chemical potential of stainless steel
Materials and Corrosion – Werkstoff und Korrosion **57** 715-723 (2006)
- F. Al-Taher, **J. Telegdi**, Erika Kálmán
Effect of divalent cations in Langmuir-Blodgett films on the protection of copper
against corrosion
Materials Science Forum **537-538**, 9-14 (2007)
- J. Telegdi**, H. Otmačić, K. Tadic, F. Al-Taher, E. Stupnišek-Lisac, E. Kálmán
Inhibition of copper corrosion by self assembled amphiphiles
Chemical and Biochemical Engineering Quarterly **21**, 77-82 (2007)
- A. Alagta, I. Felhősi, **J. Telegdi**, I. Bertóti, E. Kálmán
Effect of metal ions on corrosion inhibition of pimeloyl-1,5-di-hydroxamic acid for
steel in neutral solution
Corrosion Science **49** 2754-2766 (2007)

CV of Dr. Judit TELEGDI (Continued)

- E. Kuzmann, S. Stichleutner, Z. Homonnay, A. Vértes, A. Paszternák, F. Nagy, I. Felhősi, G. Pető, **J. Telegdi**, E. Kálmán
Amorphous iron formation due to low energy heavy ion implantation in evaporated ⁵⁷Fe thin films
J. Radioanalytical and Nuclear Chemistry, **277**, 699-702 (2008)
- L. Románszki, **J. Telegdi**, E. Kálmán
Comparative study of Langmuir- and Langmuir-Blodgett layers of amphiphilic carboxylic- and hydroxamic acids
Colloids and Surfaces A: Physicochemical and Engineering Aspects **321/1-3**, 20-28 (2008)
- F. Al-Taher, **J. Telegdi**, E. Kálmán
Langmuir films of monohydroxamic acid on various subphases
Colloids and Surfaces A: Physicochemical and Engineering Aspects **321/1-3**, 34-38 (2008)
- A. Paszternák, A. Pilbáth, Z. Keresztes I. Felhősi, **J. Telegdi**, E. Kálmán
Atomic force microscopy studies of alkyl-phosphonate SAMs on mica
Materials Science Forum **589**, 257-262 (2008)
- J. Telegdi**, T. Rigó, É. Pfeifer, T. Keszthely, E. Kálmán
Nanolayer coatings
Progress in Colloid Polymer Science, **135** 77-86 (2008)
- J. Telegdi**, L. Románszki, F. Al-Taher, E. Pfeifer, E. Kálmán
Nanolayers against microbial adhesion
NACE International *Corrosion* paper No. 3987 (2008)
- H. Otmacic-Curkovic, K. Marusic, E. Stupnisek-Lisac, **J. Telegdi**
Electrochemical and AFM study of corrosion inhibition with respect to application method
Chem. Biochem. Engineering Quarterly : **23** 61-66 (2009)
- J. Telegdi**, T. Szabó, F. Al-Taher, É. Pfeifer, E. Kuzmann, A. Vértes
Coatings against corrosion and microbial adhesion
Materials and Corrosion 2010 (in press)

Budapest, 19. 07. 2010

Judit Telegdi

CV of Associate Prof. Dr. Alda SIMOES (Nominated for re-election to the STAC)

Curriculum Vitae
of
Alda Simões
May 2010

PERSONAL IDENTIFICATION

Name: Alda Maria Pereira Simões

Date of birth: 8 May 1958

Telephone: +351-218417963

E-mail address: alda.simoes@ist.utl.pt

EDUCATION

2009- Habilitation in Chemical Engineering, Instituto Superior Técnico, Technical University of Lisbon (IST / TULisbon)

1990- Doctor in Chemical Engineering, IST (*"Passivation and Crevice Corrosion on Stainless Steel"*)

1985- Master in Catalysis, Instituto Superior Técnico

1982- Degree of Chemical Engineering, Instituto Superior Técnico, Lisbon

ACADEMIC AND RESEARCH ACTIVITY

Associate Professor of Instituto Superior Técnico, Chemical Engineering Department, since 1995.

Assistant professor of IST, 1990-1995.

Teaching assistant, 1983-1990.

This results in more than 25 years of experience in teaching undergraduate students in several areas of Chemical Engineering, including Electrochemistry and Corrosion.

In 2004 – 2005, a sabbatical year was spent at the Department of Coatings and Polymeric Materials of the NDSU (North Dakota State University, ND, USA), for collaboration with Prof. Gordon Bierwagen.

SUPERVISION OF POST-GRADUATE DISSERTATIONS

1. António Alexandre da Cunha Bastos, Doctorate Dissertation, "Electrochemical Study of the Effect of Mechanical Deformation on the Anti-Corrosion Performance of Coil-Coated Steel", graduated in 2005.
2. António S. L. Castela, Doctorate Dissertation, "Effect of Ageing on the Corrosion Resistance of Pre-painted Steel", graduated in 2002.
3. Maria de Fátima Montemor, Doctorate Dissertation, "Influence of Flyash Addition on the Corrosion of Steel in Concrete", graduated in 1994.
4. José Ricardo Assunção Godinho, Master on Chemistry, "Optimization of TiB₂ coatings electrodeposited from halide melts", co-supervisor (work developed at Echem, Austria), 2007
5. Ilda Leonor Lobato Narciso, Master on Materials Engineering, "Passive films on zinc and zincalloys", co-supervisor with Dr. M.J. Carmezim, 2006.
6. Maria João Marques, Master on Science of Materials and Surfaces, "Corrosion Behaviour of zinc electrodeposits: pre-phosphatation and zinc-nickel coatings", co-supervisor with Dr. E. Almeida 2003.
7. Maria Teresa de los Rios Serra, Master on Corrosion Science and Engineering, "Characterization of the semiconductivity of Passive Films on AISI 304 and AISI316 Stainless Steel", co-supervisor with Prof. D. Scantlebury, UMIST, UK, 1995.
8. Manuel Paulo Cunha, Master on Corrosion Science and Engineering, "Influence of Fly Ash on the Corrosion of Reinforcing Concrete", co-supervisor with Prof. D. Scantlebury, UMIST, UK (1994)

CV of Associate Prof. Dr. Alda SIMOES (Continued)

MAIN SCIENTIFIC INTERESTS

Main scientific interest is in the area of the study Corrosion mechanisms, corrosion protection and corrosion monitoring. The techniques used for these studies are mostly electrochemical and surface analysis. In terms of electrochemistry, the technique of election has been mostly Electrochemical impedance spectroscopy, although lately there has been a growing interest on spatially-resolved electrochemical techniques, namely the Scanning Electrochemical Microscope and the Scanning Vibrating Electrode Technique. In the past decade several projects dealt with the protection of coilcoated galvanized steel for arquitectural applications and for the automotive industry, namely related with the loss of corrosion resistance resulting from the induced mechanical stresses. The development of methods for diagnosing and early detection has also been a major concern. Emphasis has also been put on the development of new pre-treatments for coated steel, aiming at the development of low toxicity systems, and of the mechanisms of corrosion at coil-coated steel cut edges.

Another area of interest is on the understanding of passivity, both in what concerns the composition of passive films formed in different conditions and in the semiconductor properties of these films.

ORGANIZATION OF SCIENTIFIC EVENTS AND BOOK EDITION

Chairperson of the International Workshop “Application of Electrochemical Techniques to Organic Coatings”, and ISO TC 35 Working Party “Coatings”; Sintra, Portugal, October 2003.

Member of the Scientific Committee of the Intercorr Conferences, Brazil.

Member of the local Organizing committee of EUROCORR2005 (Lisbon).

Editor of the special issue of Prog Org Coat vol 52, issue 4.

Co-editor of other publications, namely “Innnovative pre-treatments to prevent corrosion of metallic surfaces”, EFC edition n° 54.

PARTICIPATION IN INTERNATIONAL PROJECTS OF R&D

1. KINSREP - PREDICTION OF THE KINETICS OF SELF-REPAIR OF FORMING-INDUCED DEFECTS ON THIN FUNCTIONAL PRIMERS FOR ADVANCED AUTOMOTIVE APPLICATIONS, RFSR-CT-2008-00028 (36 months, 2008-2011). Partners: University of Paderborn, Dortmunder Oberflaechen Centrum, Voestalpine Stahl Linz GmbH, Centro Sviluppo Materiali SPA, Universidade de Aveiro, Salzgitter Mannesmann Forschung GmbH, Instituto Superior Técnico; role: general Project Coordinator.
2. NEW ADVANCES ON CATHODIC PROTECTION FOR RE-HABILITATION OF REINFORCED CONCRETE STRUCTURES, Portuguese Inovation Agency (36 months, 2003-2006). Partners: Zetacorr, A2P, Instituto Superior Técnico, University of Vigo; role: IST coordinator.
3. SELF-HEALING AT CUT-EDGE OF COIL COATED GALVANIZED STEEL SHEET, RFCS contract RFS-CR-04021 (36 months, 2004- 2007). Partners: Max-Planck Institute für Eisenforschung GmbH; Arcelor Research; Dortmunder Oberflaechen Centrum, Fundacion ITMA, Voestalpine Stahl Linz; role: IST coordinator.
4. FORMABILITY AND SELF-REPAIR PROPERTIES OF ADVANCED WELDABLE PRIMERS (PRIMEFORM), RFCS contract RFS-CR-04031 (36 months, 2004 –2007). Partners: Max-Planck Institute für Eisenforschung GmbH; Dortmunder Oberflaechen Centrum, Voestalpine Stahl Linz; Centro Sviluppo Materiali SPA, Universidade de Aveiro; Instituto Superior Técnico; role: IST coordinator.
5. INVESTIGATION OF DAMAGING MECHANISMS OF COIL-COATED STEEL SHEET DURING FORMING IN ORDER TO ENHANCE THE PREDICTABILITY OF FINISHED PARTS, ECSC contract n°7210-P/189 (1999-2002). Partners: Max-Planck Institute für Eisenforschung GmbH; Dortmunder Oberflaechen Centrum, Voestalpine Stahl Linz; role: IST coordinator.
6. ENVIRONMENTALLY FRIENDLY PRE-TREATMENT TECHNOLOGIES FOR MULTISUBSTRATE APPLICATIONS, ECSC contract n° 7210-PR/066 (1997- 2000). Partners: Corus/ British Steel; Force Institute; Instituto Superior Técnico ; role: IST coordinator.
7. ELEVATED AND LOW TEMPERATURE PERFORMANCE OF COATED STEEL PRODUCTS, contract UE/ECSC n° 7210- TS/941 (1996-1999). Partners: Corus/ British Steel; Rautaruukki Oy; Instituto Superior Técnico; role: team member.
8. EFFECT OF FORMING ON THE CORROSION RESISTANCE OF STRETCHED POLYMER FILMS ON ORGANIC - COATED STEEL - PHASE 2, contract UE/ECSC N° 7210.KB936 (1993- 1995). Partners: British Steel plc; Instituto Superior Técnico; role: team member.

CV of Associate Prof. Dr. Alda SIMOES (Continued)

PUBLICATIONS

The scientific activity is reported in more than 100 publications, divided in book chapters (7), SCI journals (60), national publications (18) and conference proceedings (30).

Of these, a few selected references are presented below.

BOOK CHAPTERS

1. Guido Grundmeier, Alda Simões; Encyclopedia of Electrochemistry, Ed. Allen Bard and Martin Stratmann; Vol.4- Corrosion and Oxide Films, pp 500- 566, Wiley-VCH Verlag GmbH, Weinheim, 2003.
2. M.F.Montemor, A.M.P.Simões, “Corrosion of Steel in Concrete”, in “Atmospheric Corrosion – Portugal Maps”, (in Portuguese), eds. M. Elisabete Almeida e M.G.S.Ferreira, INETI, 1997.
3. Ferreira MGS, Belo MDC, Simões AMP, Passivation and Localized Corrosion, in Electrochemical and Optical techniques for the Study and Monitoring of Metallic Corrosion, eds. Mário G.S. Ferreira and Carlos A. Melendres, Kluwer Academic Publishers, Dordrecht, 485-520 (1991).

SELECTED PAPERS

1. AM Simões, J.Torres, R. Picciochi, JCS Fernandes, “Corrosion inhibition at galvanized steel cut edges by phosphate pigments”, J. APPLIED ELECTROCHEMISTRY, doi:10.1016/j.electacta.2009.01.065.
2. R.M. Souto, Y. González-García, A.C. Bastos and A.M. Simões, Investigating corrosion processes in the micrometric range: A SVET study of the galvanic corrosion of zinc coupled with iron, CORROSION SCIENCE, 49 (2007) 4568-4580.
3. A.M. Simões, D. Battocchi, D.E. Tallman and G.P. Bierwagen, SVET and SECM imaging of cathodic protection of aluminium by a Mg-rich coating, CORROSION SCIENCE 49 (2007) 3838-3849.
4. Montemor MF, Simões AM, Carmezim MJ; Characterization of Rare-earth conversion films formed on the AZ31 magnesium alloy and its relation with corrosion protection, APPLIED SURFACE SCIENCE 253 (2007) 6922-6931.
5. E. Kikuti, N.Bocchi, JL Pastol, MGFerreira, MF Montemor, MDC Belo, AM Simões, Composition and Structure of Coloured Oxide Films on Stainless Steel Formed by Triangular Current Scan and Cathodic Hardening Treatment, CORROSION SCIENCE, 49 (2007) 2303-2314.
6. A.S.L.Castela, A.M.Simões, M.G.S.Ferreira, “EIS Evaluation of Attached and Free Polymer Films”; PROGRESS IN ORGANIC COATINGS, 38 (2000) p. 1-7.
7. M.F.Montemor, A.M.Simões, M.G.S.Ferreira, B.Williams, H.Edwards, “The Corrosion Performance of Organosilane Based Pre-Treatments for Coatings on Galvanised Steel”; PROGRESS IN ORGANIC COATINGS, (2000) p. 17-26.
8. M.F.Montemor, A.M.P.Simões, M.M.Salta, “Effect of Flyash on Concrete Reinforcement Corrosion Studied by EIS”; CEMENT & CONCRETE COMPOSITES, (2000).
9. M.F.Montemor, A.M.P.Simões, M.G.S.Ferreira, “Analytical Characterization of the Passive Film Formed on Steel in Solutions Simulating the Concrete Interstitial Electrolyte”; CORROSIONNACE, 54 (1998) p. 347-353.
10. N.E.Hakiki, M.da Cunha Belo, A.M.P.Simões, M.G.S.Ferreira, “Semiconducting Properties of Passive Films on Stainless Steel. Influence of the Alloying Elements”, J. ELECTROCHEM. SOC., 145 (1998) p. 3821-3829.
11. Lorang G, Belo MDC, Simões AMP, Ferreira MGS; “Chemical Composition of Passive Films on AISI 304 Stainless Steel”, J. ELECTROCHEM. SOC., 141 (1994) 3347-3356.
12. Simões AMP, Ferreira MGS, B.Rondot e Belo MDC; “Study of Passive Films Formed on AISI 304 Stainless Steel by Impedance Measurements and Photoelectrochemistry”, J. ELECTROCHEM. SOC., 137 (1990) 82-87.

CV of Prof. Dr. Alexander V. MURADOV (Nominated for election to the STAC)

Personal information

Dr. Alexander V. Muradov
 Director General
 International Scientific & Educational Corrosion
 Centre „ANTIKOR“
 Gubkin Russian State University of Oil & Gas
 Lenin Avenue, 65
 119991 Moscow, Russian Federation
 Tel. +7 (915) 239 35 61, tel/fax +7 (495) 135 72 86
 E-Mail: muradov@gubkin.ru

Date of birth: 14/11/1950

Place of birth: Baku, Azerbaidjan, USSR

Education

1968 - 1973 – Azerbaidjan Institute of Oil and Chemistry named after M.Azizbekov, Engineer's Diploma in Physical Chemistry
 1979 – PhD, dissertation „Development and Research of a Composite Polymeric Coating for the Protection of Oil & Gas Producing Equipment“
 2002 – Doctor in technical sciences, thesis „Bases of a Choice of a Design of Paint & Varnish and the Polymeric Coating with the Specific Anticorrosive Action and Planned service Life for the External Surfaces of Oil & Gas Pipelines“

Employment history

1973-1975 Engineer of Chemistry Department in Azerbaidjan Institute of Oil and Chemistry named after M.Azizbekov
 1975-1976 младший научный сотрудник Azerbaidjan Institute of Oil Refinery Equipment Construction
 1976-1979 post graduate student, Moscow Institute of Oil, Gas and Refinery Industry named after I.M.Gubkin
 1979-1981 senior engineer, Moscow Institute of Oil, Gas and Refinery Industry named after I.M.Gubkin
 1981-1983 junior мнс, Moscow Institute of Oil, Gas and Refinery Industry named after I.M.Gubkin
 1983 – 1985 senior снс, Moscow Institute of Oil, Gas and Refinery Industry named after I.M.Gubkin
 1985 – 1986 leading внс, Moscow Institute of Oil, Gas and Refinery Industry named after I.M.Gubkin
 Since 1986 – until now Deputy Dean, Engineering Mechanics Faculty, Moscow Institute of Oil, Gas and Refinery Industry named after I.M.Gubkin, later Gubkin Russian State University of Oil and Gas
 Since 1988 – Director General of „ANTIKOR“, International Scientific & Educational Corrosion centre
 2001 – 2007 – EFC STAC elected member
 2001 – 2010 – EFC BoA elected member
 Since 2005 – Professor of Metals and Non-Metallics Materials Science, Gubkin Russian State University of Oil and Gas
 Since 2008 – Pro-rector in scientific activities, Gubkin Russian State University of Oil and Gas

Awards

Prof. Muradov has been awarded with Russian State order and medals, he has twice received Gubkin Award (1996, 2002), “Honoured Gas Industry Worker” (2000), “Honoured Oil Industry Worker” (2000)

Professional & Scientific Activities

Prof. Muradov has been working in the field of corrosion since 1976.

He has published 3 monographs and over 60 articles including “Anti-corrosive protection of oil and gas pipelines with insulating coatings” (in Russian, Moscow, 2001) and “Service Lifetime Prediction of Buried Oil and Gas Pipelines Insulating Coatings” (in Russian, Moscow, 2002). He is a member of National Organisation of Corrosion Engineers (NACE) since 2001.

At present Prof. Muradov is the Director General of „ANTIKOR“, International Scientific & Educational Corrosion centre c/o Gubkin Russian State University of Oil & Gas and coordinates activities in the field of corrosion in oil and gas industry in Russia. Prof. Muradov is the chairman of International Scientific Committee of EUROCORR'2010.

Scientific Interests

Electrochemistry – Adhesion - Corrosion in oil and gas industry
 Buried pipelines – corrosion protection
 Protective coatings – lifetime prediction
 Cathodic protection
 Diagnostics

CV of Dr. Jörg VOGELSANG (Nominated for re-election to the STAC)**Jörg A. Vogelsang, Dr. rer. nat., Dipl. Chem.**

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joerg.vogelsang@web.de

born 1. 3. 1961 in Lörrach, married, no children, German citizen

Education

1981 Abitur at Hans – Thoma – Gymnasium in Lörrach

July 81 – Sept. 82 Military service in Bruchsal and Sigmaringen (Germany)

Oct. 82 Studies in Chemistry at the University of Stuttgart

July 87 Diploma examination

until Jan. 88 Diploma thesis in the group of Prof. Dr. M. Hauser at the Institute of Physical Chemistry of the University of Stuttgart

until Oct. 91 PhD thesis: „Faltungskinetische Behandlung verschiedener Mechanismen der Excimerbildung mit Berücksichtigung der nichtstationären Diffusion und molekularkinetischer Einflußgrößen“ (“convolution kinetics treatment of various excimer formation mechanisms with respect to non – stationary diffusion and molecular reaction parameters”) in Prof. Dr. M. Hauser’s group, Institute of Physical Chemistry of the University of Stuttgart

Professional Experience

Nov. 1991 Scientific assistant of the Institute of Physical Chemistry, University of Stuttgart, beside of research activities responsible for training of students in seminars and lab exercises

Mai 1992 Lab manager of the basic research lab for corrosion and corrosion protection in the research and development department of Sika Chemie GmbH Stuttgart, leader of research projects in various topics, as weathering and testing of coatings, electrochemical characterization of steel in various conditions, instrumental analysis, concrete admixtures and inhibitors, evaluation of coating performance using many different techniques

1993 Active member of the Working Party „Coatings“ of the European Federation of Corrosion (EFC)

1995 Member of several national standardizing committees (DIN NAB 7 and 10, including subcommittees)

1997 Head of the basic research and analytical department, additional responsibility for the analytical lab dealing with claims, competitive intelligence, trouble shooting, financial responsibility for the department.

German Delegate in ISO/TC 104 SC3 "Electrochemical test methods for assessing the influence of admixtures on reinforcement corrosion"

CV of Dr. Jörg VOGELSANG (Continued)

1998	Election as Chairman of the Working Party “Coatings” of the European Federation of Corrosion (EFC)
1999	Appointed as member of the Scientific Committee of the German Corrosion Society (Gesellschaft für Korrosion und Korrosionsschutz GfKORR e.V.)
1999	German Delegate in ISO TC35 SC9 “General test methods for paints and varnishes”
2000	Appointed as member of the scientific committee of the German Chemical Society (GdCh) subgroup “Paints and Pigments”
2000	Chairman of the Working Group “Corrosion Protection by Organic Coatings” of the GfKORR e.V.
2000	German Delegate in ISO TC35 SC14 “Corrosion protection by organic coatings“, member of the German mirror committees NAB 10
2001	Convenor of the WG29 in ISO TC 35 SC9 “Electrochemical Test Methods” (standardization of Electrochemical impedance Spectroscopy for high ohmic applications)
2001	Chairman of the Scientific and Technical Advisory Committee (STAC) of the European Federation of Corrosion (EFC)
2001	Appointed member of the scientific board of the “Karl – Winnacker” research – institute of the DECHEMA e.V.
2001	Member of the board of administrators of the German Corrosion Society, GfKORR e.V.
2002	Move to the central research facilities of Sika AG, Zürich, responsible for “Surface Science“ in the position of a senior scientist
2005	Head of the Surface Science Lab of Sika Technology AG, position as “Principle Scientist Surface Science”
2008	Head “Corporate Analytic Service” of Sika Technology AG
2009	elected as AiF – Evaluator of the German Ministry of Economy

Member of following Scientific Organizations

GfKORR e.V., DECHEMA e.V., Subgroups “Construction Chemistry“ and “Paints and Pigments“ of the German Chemical Society GdCh, NACE, Section “Polymeric Materials Science and Engineering“ of the American Chemical Society

Specially experienced and knowledge in

Weathering and corrosion testing, all major electrochemical techniques, methods of concrete repair, evaluation methods for corrosion of reinforcements in concrete, all major analytical and surface analytical techniques.

Project management, coordination of international research groups, organization of meetings, seminars, workshops and conferences

Hobbys

Sport (running, skiing, mountain biking), photography, modern art, cooking

CV of Dr. Don HARROP (Nominated for re-election to the STAC)

Donald Harrop – BSc(Hons), FICorr

Date and Place of Birth

- 1st November 1949
- Ashton under Lyne, Lancashire (now part of Tameside)



Education

- Littlemoss Boys Secondary Modern (1962 – 66)
 - ‘O’ levels: Maths, Physics, Chemistry, Eng Lang, History, Art, Tech Drawing
- Audenshaw Grammar (1966 – 68)
 - ‘A’ Levels: Maths, Physics, Chemistry
- Chelsea College (subsequently combined with Kings College), University of London
 - Degree: Upper Second Class Honours, Chemistry, University of London (1971)

Professional Recognition

- Vice President, World Corrosion Organisation (WCO), 2010 to 2012
- President of the European Federation of Corrosion (EFC), 2001 to 2003
- Honorary Fellow of the Institute of Corrosion, 2001
- President of the Institute of Corrosion (ICorr), 1994 to 1996

CAREER

Current Roles in BP Exploration (since 2007)

E&P Engineering Technical Authority, Materials & Corrosion

- Strategic and tactical responsibility for ensuring the global discipline health of Materials, Corrosion & Welding (MCW) remains fit-for-purpose across the E&P segment through: recruitment; managed internal moves for optimum resource deployment and staff development; competency of all Strategic Performance Unit (SPU) MCW Technical Authorities.
 - Global MCW discipline health review recently completed for E&P Ops, HSSE & Engineering Technology Vice President including alternative model for future delivery of engineering support to Operations and Major Projects.
- Establish and support 10 year career development plan (Challenge Graduate plus) for all MCW discipline engineers.
- Ensure BP’s Engineering Technical Practices (ETPs) for the MCW discipline remain fit-for-purpose, cover primary engineering requirements for new projects and operations, are consistently complied with, and review/endorse where major deviations become necessary.
 - Of the 28 E&P Segment Defined ETPs (compliance in entirety mandated) six address materials and corrosion covering corrosion management, corrosion monitoring, materials for sour service, erosion, corrosion under insulation and materials selection for topsides facilities.
- Lead the MCW discipline Community of Practice in timely sharing and putting into practice lessons learnt from across the E&P segment and industry through: provision of an interactive CoP website; indentifying engineering issues and areas for targeted Continuous Improvement projects; capture of external learning, best practice, technical alerts and national/international standards activities.
- Facilitate technology transfer between SPUs and field trials and uptake of new technology coming out of the Inherently Reliable Facilities (IRF) flagship technology programme. Recent examples include:
 - All SPUs using D2D delivered CO2 and erosion models developed by IRF.
 - All new major projects using as basis of design the highly reliable chemical injection skid developed by IRF.
- Take part in Engineering Discipline Reviews (EDRs) and Project Health, Safety, Security and Environment Reviews (PHSSERs) at various stages in the Capital Value Process (CVP) for delivering Major Projects. Recent examples include:
 - Materials & Corrosion subject matter expert on Proof of Concept review of Foinaven Subsea Separation Project. Project was put on re-cycle to rework economics of engineering design.

CV of Dr. Don HARROP (Continued)

- On-going technical review of materials selection and corrosion management design required for first stage development of Oman Gas project.
- Review of concept options as affected by materials selection and approach to corrosion management for West Nile Delta offshore project development.
- Review of viability of running carbon steel plus corrosion inhibition in-field flowlines for Shah Deniz Phase 2 (Azerbaijan) development.
- Lead Peer Reviews and Assists at the request SPU's to address technical issues and ensuring best practice affecting facilities integrity, safe operating practice and technical sound project delivery. Recent examples include:
 - Member (team of 4) of North Sea VP led senior technical team that reviewed and benchmarked the Inspection & Corrosion Management resource and structural construct of the North Sea SPU. Recommendations in full adopted by North Sea SPU Leadership and Operations & HSSE Technology Vice President.
 - Led review (team of 4) of Gulf of Suez offshore facilities and operations following major failure of a riser with recommendations on use of improved inspection (guided wave and eddy current techniques) and coatings (Armawrap & TSA) technology subsequently implemented.
 - Led review (team of 4) of Wytch Farm Corrosion Management Strategy for high environmentally sensitive onshore operating site. Recommendations in full adopted by North Sea SPU Leadership.
 - Member (team of 4) of senior technical team that conducted a Corrosion Management Strategy review at Sullom Voe Terminal following the issue of H&SE improvement notices. Recommendations in full adopted by North Sea SPU Leadership.
 - Led review (team of 8) of completely revised Alaska Corrosion Management Strategy (in response to 2006 oil spill). Recommendations in full accepted by Alaska SPU Leadership and President, BP America.
- Teach on the BP Engineering Management Program run in conjunction with the University of Manchester.

Senior Advisor, Corrosion Management

- Technology advancement:
 - Champion and provide strategic oversight to the IRF flagship technology program with regular progress review against primary objectives and alignment with technology needs of the E&P Materials, Corrosion & Welding (MCW) Community of Practice (CoP); and help facilitate timely SPU field trials of IRF technology.
 - Promote timely sharing and transfer of local SPU developed / proven technology across the MCW CoP (eg. GIS inspection management / visualisation system developed by Alaska).
 - Work with the MCW CoP to identify common technical issues and where there is a need for defect elimination to be addressed by Continuous Improvement projects (eg. projects currently in place are addressing improved management of in-field corrosion inhibitor availability / deployment, and improving metallurgical quality of as-supplied duplex stainless steel fittings and components).
 - Further strategic links and collaborations with selected universities and 3rd party research bodies.
- Functional excellence:
 - Responsible for prioritising and approving MCW external representation activity plan covering Standards, professional bodies, and conferences.
 - Lead the MCW Subject Matter Experts (SMEs) supporting development and maintenance of Engineering Technical Practices ensuring the right balance of experience, expertise and cross SPU versus Engineering Centre representation is maintained.
 - Provide strategic direction and tactical intervention for assuring MCW discipline competence and training is being appropriately and consistently maintained across the E&P segment.
- External reputation:
 - Leadership positions on key MCW professional bodies - currently EFC, NACE, WCO, ICC.
 - Organisation committee for key MCW external conferences - currently EFC (Eurocorr) and SPE.
 - Present, often invited, papers at selected conferences (eg. SPE, ICorr) and to university departments (eg. Manchester Corrosion Engineering MSc).
 - Serve on government research funding committees (eg. EPSRC, BIS/NMO).
 - Sit on the International Advisory Board of Werkstoffe und Korrosion (Materials and Corrosion) Journal
 - External examiner PhD examiner (currently for Imperial College).
- Organisational capability:
 - Provide mentoring to all levels of MCW discipline engineers across the E&P segment.
 - Primary mentor and sit on the review panel for all MCW discipline engineers on the accelerated Engineering Development Program.
 - Provide oversight and participate in interviewing for MCW positions in the EPT centre - both into IRF and the Mechanical Engineering team.

CV of Dr. Don HARROP (Continued)

Chair, E&P Technology Innovation Board

- Chair a multidiscipline Board with a mix of experience from Challenge Graduate to Senior Advisor level located in Sunbury and Houston, that meets virtually every 2 weeks to review submissions and progress on funded portfolio of ideas.
- Operate with an annual budget of ~\$2M to seed fund fledgling innovative ideas on any E&P related topic.
- Apply a light touch review process for quick (within 2 weeks) approve/decline funding - typically \$15k to \$50k in the first instance - with supporting mentoring on IP and project delivery to compelling business case, ready for moving either into mainstream R&D programmes or straight through to business unit application.
- Notable recent successes include:
 - Automated control system for stabilising oil and gas flow in wells and risers - deployed on BP's **fieldofthefuture™** IT platform (won 2008 BP Helios Award for Innovation) - seeing increased use in the North Sea and growing interest from GoM.
 - Use of sniffer dogs to detect illegal hot taps in buried onshore hydrocarbon pipelines - now being used in Azerbaijan to great effect.
 - Suppressing vortex induced vibration (VIV) in deepwater drilling risers by encapsulating the riser in a loose-fitting "ventilated trouser" formed from a light, flexible net - field trial scheduled in 2010.

2003 – 2007: E&P Technology Programme Manager, Integrity Management

Responsible for the strategic direction, programme content and delivery of BP's E&P Integrity Management (IM) technology programme and establishing its core recognition and growth from \$2M in 2004 to \$11.6M including field trials in 2007. The IM technology programme was the major foundation for the current Inherently Reliable Facilities (IRF) technology flagship R&D programme.

Notable successes to come from the IM program area;

- Ring Pair Corrosion Monitor (RPCM) spool for deepwater and HPHT applications - 2007 BP Helios Award (innovation category) commended group finalist. 10 spools will deployed as part of BP's Angola Block 31 deepwater development.
- Platelets technology for remotely sealing internal leaks in pipelines - world first subsea (500 m water depth) deployment on BP Foinaven (2004) and BP Helios Award (innovation category) commended regional entry.
- The use of plastic liners for *in situ* pipeline rehabilitation (eg production flowlines) and as a cost effective design option (eg. now standard for new sea water injection flowlines)
- Aerially deployed gas leak detection based on laser and infra red technologies now being widely deployed by BP's North America Gas Strategic Performance Unit for rapid inspection of remote and large gas transmission infrastructures.
- Novel and exclusive development of fibre optic sensor pipeline leak detection with successful \$3.8M field trial at onshore Forties Pipeline System site.
- A range of advanced corrosion and erosion predictive models as engineering design tools and real-time running risk assessment modules suitable for deployment on **fieldofthefuture™** IT platforms.
- Full life cycle Structural Integrity Management (SIM) integrated planning tool ensuring conformance with the Group Integrity Management Standard and compliance with industry standards such as API and ISO.
- New higher strength casing and tubing materials (125+ ksi) for HPHT applications (first used on BP Rhum) working exclusively with Sumitomo as part of a global supply agreement.

A member of two senior internal teams led by the BP Group Director of Engineering that reviewed in 2004 the approach to corrosion management and application of current corrosion and inspection technology being undertaken on the North Slope, Alaska and then in 2006 following the oil spill against the recommendations for improvement made in 2004.

1997 – 2003: Upstream Technology Group, BP Exploration, Sunbury

Team Leader, Facilities Development (2000 – 2003)

This was a multi-disciplined team – materials & corrosion, mechanical, civil, structural – providing consultancy and technical support to upstream operations and new projects. The team provided a lot of support to the early design stages for most of BP's current portfolio of deepwater developments in the Gulf of Mexico and offshore Angola and its expansion into Russia, Azerbaijan, Vietnam and Indonesia.

CV of Dr. Don HARROP (Continued)

Senior Research Associate, Corrosion (1989 – 1993)

A strateg

Principal Engineer, Corrosion and Materials (1997 – 2000)

Heavily involved in supporting the sanction and development of new projects eg. Alaska expansions, Algeria, West of Shetlands (Foinaven, Schiehallion, Clair), Colombia, Gulf of Mexico. This involved developing technical specifications and implementation of novel technology for moving into deepwater developments.

A major piece of work was modelling and assessment of the damage and development of a treatment and repair package for recovering acceptable and safe corrosion fatigue life for the 9 flexible risers damaged during installation on Foinaven and Schiehallion FPSOs in 500 m water depth, West of Shetland. This involved full size fatigue testing of riser sections in a damaged and fully treated and repaired state to demonstrate a safe fatigue life recovery of 10 years (from a position of less than 1 year if untreated) and in fact the risers were eventually retired after 12 years. A further outcome of the work was the development of a Technical Risk Assessment Process (TRAP) which is now a common process applied throughout BP's upstream Major Projects.

1993 – 1997: Engineering Shared Service, BP International, Sunbury

Principal Engineer, Corrosion & Materials

During this period I worked predominantly in providing technical and front end engineering support to new projects and current operations including technical audits.

I had responsibility for directing and managing the upstream technology programme in the area of corrosion and materials representing an annualised spend of about \$1.5M. A key element of the programme was getting a better handle on the cost of corrosion within BP operations and the impact on the design of new projects, and setting Key Performance Indicators (KPIs) for managing down these costs. This resulted in an R&D programme called "No Corrosion" working on the following developments:

- Super 13%Cr alloys for downhole
- Weldable Martensitic 13%Cr linepipe
- Low chromium (5%) corrosion resistant steel
- Microalloying corrosion resistance
- Reliable/cost effective sand screen metallurgy
- HT polymeric liners
- Flexible composite pipe, risers and jumpers
- Raw sea water injection
- Erosion modeling
- Green inhibitors
- Long range UT inspection techniques
- Corrosion Awareness Campaign – eventually outsourced as a service available to all operators.

1977 – 1993: BP Research, Sunbury

ic role, in support of the BP Director of Research (Prof Sir John Cadogan), setting the direction, content and funding levels for corporate research; and strengthening relationships with key university departments. Also undertook a growing interfacial role working between BP Research and BP Engineering to establish better continuity for the development and implementation of new technology. A consequence of the latter was the subsequent combining of research and engineering into one group at one location (Sunbury) – member of the group charged with implementing this in the area of materials & corrosion and mechanical engineering. This resulted in the formation of the Engineering Shared Service.

During this period my primary research interest was in molecular modelling of production chemicals eg. corrosion inhibitors, scale inhibitors, hydrate inhibitors, drag reducers. This was a precursor to the development of polyaspartate chemistry for corrosion and scale inhibitors offering excellent environmental properties. While much of this work remains confidential it has resulted in a number patents and subsequent commercial products, via technology licensing agreements, offered by Clariant Oilfield Chemicals and Baker Petrolite. It also had some influence on improving the performance of imidazolines in terms of optimising their chain length and functionality of the imidazoline ring to improve adsorption characteristics.

CV of Dr. Don HARROP (Continued)

Team Leader, Corrosion & Metallurgy (1984 – 1989)

The team varied in size between 14 and 20 over the period comprising graduate and postgraduate technologist covering the discipline areas of metallurgy, chemistry, chemical engineering and mechanical engineering.

The team provided global support to the BP Group through conducting R&D (business funded and corporate) and technical service work for new projects and existing operations – the size of the team's funded programme portfolio in 1989 was £1.2 million addressing an estimated annualised corrosion cost to BP of about £250 million. Examples from cost benefit analysis (externally audited by Hay/McKinsey) of the value of the team's work at the time included: £1.5M associated with maintaining the internal integrity of the Forties Main Oil Line through the effective selection and application of corrosion inhibitor; support to BP Chemicals in development of the A5 process for producing acetic anhydride played a key part in the right selection of £15M worth of materials of construction as well as providing materials cost savings of about £2M in future A5 plants.

Notable work:

- Development of a suite of test facilities and methodology (eg. Bubble Test, RCE, glass and HPHT flowloops and jet impingement) for the evaluation and selection of corrosion inhibitors for oil and gas line applications. Inhibitor performance was studied using a range of DC and AC electrochemical techniques. Development of such a lab capability set the benchmark for others to follow, notably the inhibitor suppliers while setting the standard for other operators and the industry at large to adopt. Much of the work undertaken at this time provided the foundation for the widely referenced and drawn on BP guidelines on inhibitor testing and selection which have contributed significantly to EFC publication #39 entitled *The Use of Corrosion Inhibitors in Oil and Gas Production*
- Development of electrochemical noise for studying localised corrosion especially in the presence of a corrosion inhibitor. At the time BP was one of the leaders here with particular application to inhibition under multiphase flow conditions. A field instrument was developed and used extensively in Alaska to optimise inhibitor selection and subsequent protection of thousands of miles of inter-well and inter-field flowlines. Part of the development linked electrochemical noise measurements with real time acoustic and x-ray based slug detection/monitoring.
- Working with the then Analytical Group at Sunbury in the development of *in situ* laser spectroscopy techniques for studying the adsorption characteristics and bonding strength of corrosion inhibitors. This led to development of a technique called Second Harmonic Generation – capturing the reflected laser light from a corroding steel substrate and its modification due to the presence and orientation of a surface film. The *in situ* SHG measurement is combined with an RCE arrangement and developed further to also incorporate an impinging jet. This work has continued with much success and broader application into the study of other surface phenomena with the Sunbury group transferring to the chemistry department at Cambridge University (Prof David Klennerman).
- Development of the pH/ppH₂S domain approach to materials selection for sour service. This was directed at producing a less conservative and more fit-for-purpose approach to that set out in NACE MR0177 and was work undertaken in collaboration with Elf and INTEVEP (Venezuela). The approach has since been widely accepted and embraced eg. EFC publications #16 & #17 dealing with the selection of carbon steels and Corrosion Resistant Alloys (CRAs) respectively for sour service. The domain approach is now principal element of ISO 15156 and in BP's internal standard on materials selection for sour service.
- Part of the technical expertise resource underpinning BP Chemicals' move into the oilfield chemicals business in the mid '80s setting up the company OFRIC. I was a principal member of the technology team developing product and application strategy. While such a small business activity never really sat comfortably within the BP portfolio it did develop a number of new/improved production chemicals eg. much improved corrosion inhibitor for the Forties Main Oil Line based on imidazoline chemistry. The business was subsequently sold to Baker Hughes as a going concern.
- Development of the slow strain rate techniques for assessing a material's susceptibility to stress corrosion cracking. Applied to CRAs in chloride and H₂S environments in support of defining safe application domains; and to alloys used in acetic acid/anhydride plant where it quickly became the principal approach for rapidly assessing the impact of changing operating conditions/catalyst on the integrity of the reactor.

Senior Technologist, Corrosion & Metallurgy (1977 – 1984)

Recruited to establish and build up a strong electrochemical corrosion research capability resulting in the introduction of a range of DC and AC techniques and methodology for addressing corrosion problems from across the three main BP business streams – E&P, refining and petrochemicals.

CV of Dr. Don HARROP (Continued)

Notable work:

- Determining pitting and subsequent risk of SCC in materials of construction for reactors and associated pipework in the production of acetic acid and acetic anhydride. This covered a range of austenitic and super austenitic stainless steels, titanium, tantalum and zirconium. It required the developed of novel high temperature electrochemical test facilities (150°C at around 20 barg) and corrosion probes for installation in pilot plant at the main production site at Hull. This was at a time when BP Chemicals was investing heavily in improving the acetic acid/anhydride process through catalyst development to maintain a leading market position and distinctive technology advantage and consequently much of the work remains confidential. It also supported sale of the technology into the Far East, China and Russia and the subsequent purchase of Monsanto's technology in this area.
- Test methodology for assessing the performance of the then new range of aluminium based sacrificial anodes, notably through the addition of indium. This included work with the manufacturers on experimental alloy compositions and their development as well as already commercialised alloys. The work formed the basis of guidelines for anode selection for all BP upstream offshore pipelines and structures – offering significant weight savings and reduced risk of anode passivation at elevated temperatures as well as being more environmentally friendly than zinc anodes.
- Optimising the treatment and the required process facilities for sea water injection into producing reservoirs to maintain reservoir pressure and so enhance oil recovery. This involved both lab and extensive field work where the latter saw the early use of DC electrochemical techniques for measuring *in situ* corrosion rates in support real time optimisation of the injection water treatment (eg. acceptable residual dissolved O₂, treatment with oxygen scavenger and ensuring no damaging over dosing, velocity limits). The operating criteria developed remain the basis of current guidelines and best practice.
- The lab and field application of DC and AC electrochemical techniques to study the performance and selection of oilfield corrosion inhibitors. This included pioneering field work both offshore (BP's North Sea fields) and at the export pipeline terminal (Sullom Voe and Kinneil) to confirm and characterise the performance of corrosion inhibitors addressing how they partition between oil and water, the role/criticality of the nature of oil, compatibility issues with other production chemicals present, and the influence of flow.

1975 – 1977: Building Research Establishment, Department of the Environment

Higher Scientific Officer working on the corrosion of reinforcing steel in concrete structures. Developed the application of galvanostatic and potentiostatic polarisation methods to determine rebar corrosion rates and pitting potentials in simulated concrete pore environments and cast concrete test specimens. The work was directed at the impact of chloride contamination or its purposeful addition as a cement set accelerator on rebar corrosion and subsequent concrete spalling together with carbonation damage affecting concrete integrity. The findings of the work lead to major changes in Codes of Practice (eg. CP110) applied to the use of reinforced concrete as a building material and in particular the banning of chloride additions.

The work considered the use of carbon steel, galvanized steel and stainless steel rebars, organic admixtures as set accelerators/moderators, the addition of corrosion inhibitor to the concrete mix, and the application of cathodic protection and electrochemical chloride removal.

The work resulted in a number of internal reports being produced and for further information contact Prof Ken Treadaway (BRE) who was the group leader at the time.

1971 – 1974: Chemistry Department, Chelsea College, University of London

Postgraduate research on electrochemistry under Dr Peter Draper (now at Birkbeck College) and tuition to undergraduate science students at all levels. Worked on the anodic deposition of alumina films on various metal substrates (carbon steel, aluminium, titanium and zirconium) for either protective and/or decorative applications. The Parker Pen Co. patented a similar process based on their in-house research which essentially curtailed the work.

CV of Dr. Don HARROP (Continued)

PROFESSIONAL ACTIVITIES

Institute of Corrosion (ICorr)

A member since 1981 and made an Honorary Fellow in March 2001.

Served on many committees and held a number of positions including:

- Chairman of the Working Party on Corrosion Inhibition – mid to late '80s
- Chairman of the Corrosion Engineering joint venture with NACE in the late '80s early '90s
- Chairman of the annual conference organising committee 1993 and 1994 (incorporated Eurocorr 94)
- Member of Council and Executive during the '90s
- ICorr President 1994 to 1996

European Federation of Corrosion (EFC)

- A member of the Scientific and Technical Advisory Committee since the mid '90s
- A member of the Board of Administrators since 1999.
- Chairman of the organising committee for Eurocorr 2000 held at Queen Mary College, London.
- President of the EFC 2001 to 2003.

NACE International

A professional member since 1981 and a member of several technical committees over the years including: CO₂ Corrosion; Oilfield Corrosion Inhibition; Materials for Sour Service.

World Corrosion Organisation (WCO)

The WCO was formed in 2007 as a collaborative initiative led by NACE and EFC: founding members are the latter plus the Australasian Corrosion Association and Chinese Society for Corrosion and Protection. The WCO is currently awaiting formal NGO recognition by the UN. I was involved in writing the WCO's statutes and elected Vice President in 2010.

International Corrosion Council (ICC)

UK elected representative since 1995.

Society of Chemical Industry (SCI)

A professional member since 1985 and chairman of the Materials Group late '80s to early '90s.

Engineering & Physical Sciences Research Council (EPSRC)

A member of the Structural Materials College since the mid '90s review university EPSRC funding submissions and progress/satisfactory completion of funded research.

UK Government, Department of Business, Innovation and Skills (BIS)

A member since 2005 of the Materials Metrology Working Party, within the National Measurement Office of BIS (was originally in the Department of Industry), representing oil & gas industry interests. The remit of the WP is to review and prioritise UK Government research funding in the area materials metrology mainly undertaken at the National Physical Laboratory.

University Contacts

- Over the years I have been the industrial supervisor for a number of PhD students at Cambridge (Prof Burstein), Oxford (Prof Sykes), UMIST (Prof Newman), Imperial College (Prof Kelsall) and UCL (Prof Williams).
- Involved in setting up, with EPSRC funding, an MSc course at Imperial College on the Corrosion of Engineering Materials, chaired the Steering Committee, and developed the *Corrosion in the Oil & Gas Industry* module and gave all the module lectures between 1997 and 2002.
- A member of the University of Manchester Corrosion Engineering MSc Steering Committee since 2001 and latterly the Manchester Materials Masters Industrial Steering Committee.
- Served as an external PhD examiner at Imperial College and Sheffield University.

The following two tables give examples of internal technical reports and external publications/presentation written to show the range of corrosion and materials issues and topics addressed during my career.

CV of Dr. Don HARROP (Continued)

INTERNAL BP TECHNICAL REPORTS

An Electrochemical Study of the Corrosion Behaviour of Uddeholm 904L Stainless Steel as Used in a Chlorine Drying System in Service at BPCL, Baglan Bay	1978	Harrop D
An Electrochemical Study of the Corrosivity of a Number of Polyformates to Reinforcing Steel	1978	Harrop D
Evaluation of Inhibitors for Use in Residual Ballast Water in Laid-Up Tankers	1979	Harrop D Waite D F
An Introduction to the Electrochemical Aspects of Corrosion	1979	Harrop D
DF Acetic Acid Plant Reactor Corrosion - A Laboratory Electrochemical Study of the Corrosion Behaviour of Materials of Construction	1980	Harrop D
An Electrochemical Evaluation of Corrosion in the Forties Delta Water Injection System	1980	Harrop D, Bown J L
An Electrochemical Evaluation of the Effect of Servo CK 196A Corrosion Inhibitor on the Corrosivity of Separated Water on Forties Delta and at Kinneil	1980	Harrop D, Horner R A
DF Acetic Acid Plant Reactor Corrosion. A High Temperature Electrochemical Study of the Corrosion Behaviour of Materials of Construction	1980	Harrop D, Mckendrick R D
Forties Water Injection Systems. The Effects of Magna Treat OS Oxygen Scavenger and Malaco Wt810FX Corrosion Inhibitor on System Corrosivity	1980	Harrop D, Horner R A
Forties Charlie Water Injection System - The Effects of Changes in Operational Variables on System Corrosion	1981	Harrop D, Horner R A
Laboratory Evaluation of Commercial Sacrificial Anodes. 1 - Development of Test Procedures & Evaluation of Zinc Anode Material at Elevated Temperatures	1981	Harrop D, Mckendrick R D
Laboratory Evaluation of Commercial Sacrificial Anodes. 2 - Evaluation of Aluminium Anode Materials at Elevated Temperatures	1981	Harrop D, Mckendrick R D
Marine Fuel Contamination, Marcus Hook Refinery, Philadelphia - Corrosion Investigations	1981	Harrop D, Waite D F
An Electrochemical Evaluation of the Anti-Corrosion Properties of Paint Pigments Developed Within Project 949, RCS	1982	Harrop D
LNG Cargo Tank Corrosion: Visit To SS Norman Lady at Sembawang Shipyard, Singapore From 27 April to 1 May 1982	1982	Harrop D
Evaluations of Corroded Corrosometer Probes From the Kinneil Effluent Plant	1983	Harrop D Bown J L
An Electrochemical Evaluation of the Performance of Servo CK 196A Corrosion Inhibitor in the Ninian Pipeline	1983	Harrop D, Horner R A
An Electrochemical Evaluation of The Anti-Corrosion Properties of a Number of Paint Pigments Developed at the BP Research Centre, Sunbury	1984	Harrop D Duncan A C
An Electrochemical Assessment of Bimetallic Corrosion Resulting From Carbon Steel/Duplex Stainless Steel Galvanic Couple	1984	Harrop D Duncan A C
A Further Electrochemical Assessment of the Ability of Two Commercial Corrosion Inhibitors to Control Bimetallic Corrosion Between Carbon Steel and Duplex Stainless Steel at 70 Degrees C	1985	Harrop D Duncan A C
An Initial Study on the Monitoring of Corrosion Induced Cracking of Reinforced Concrete	1985	Harrop D, Mckendrick R D, Collins M P
The Deoxygenation of Injection Seawater - An Assessment of the Implications of Modifying Current Practice and Performance Specifications	1985	Harrop D, Morgan G E, Crouch B A
Proposed Co-operative Structure for Engineering Materials Research Development and Technical Services Effort at Sunbury	1986	Harrop D, Begg A R
The Use of AC Impedance Measurements to Evaluate the Performance of Calcium/Silica Ion-Exchange Coatings in Affording Corrosion Protection to Mild Steel	1986	Harrop D Duncan A C
BP/Intevep Collaborative Research Programme into Oilfield Corrosion.	1989	Harrop D, Hau J, Pattinson J, Vera J
BP/Elf Aquitaine Collaborative Programme into Aspects of Sour Service Corrosion	1989	Harrop D, Crolet J L, Kermani M B
Laboratory Investigation into Corrosion Under Thermal Insulation Associated with Sullom Voe Terminal	1989	Harrop D, Waite D F, Cooling P J, Maccaish R
Evaluation of the Performance of XWH, Alaska Nominated Corrosion Inhibitors Under Simulated Conditions for Prudhoe Bay Western Operating Area	1989	Harrop D, White C W, Partridge G J, Leila R I
Carbon Dioxide and Corrosion in Forties	1989	Harrop D, Mccracken I R, Osborne C G
Testing High Pressure Gas Condensate Wells in the UKCS - A Case History.	1991	Harrop D, Wood D J, Martin J W, Webster S
CO2 Corrosion Prediction.	1991	Harrop D, Webster S
Predicting CO2 Corrosion Associated With Oil and Gas Production and Transportation	1991	Harrop D
Corrosion Inhibitors for Amethyst Export Gas Line	1992	Harrop D, Partridge G J, Leila R
An Audit of the Forties Pipeline System Corrosion Management Strategy	1994	Harrop, D.
Geosel-Manosque : Pipeline Corrosion Audit	1996	Harrop, D.
Corrosion Inhibitor Test Methods; Detailed Test Protocols to Select Corrosion Inhibitors for Oil and Gas Production And Transportation Facilities	1996	Harrop D, Webster S, McMahon A J, Paisley D M E
Forties Asset - Evaluation of the Corrosion and Erosion Risks for Wells	1997	Harrop, D.
Foinaven Phase 1 Project - R8 Gas Injection Riser - Service Life Update	2002	Harrop D, Martin J, Percy R
BPXA Corrosion Management System Technical Review	2005	Baxter J, Hinchcliffe M, Harrop D, Bradley I, Boyle J
Alaska Transit Pipeline Technology Review	2006	Baxter J, Harrop D, Owen L, Bradley I, Wicklund T, Mohammed I, Hinchcliffe M
North Sea SPU, Sullom Voe - Corrosion Management Strategy Review	2007	Harrop D, Ray D, McLachlin I, Robertson H

CV of Dr. Don HARROP (Continued)

EXTERNAL PRESENTATIONS/ PUBLICATIONS

The Mechanism and Morphology of Anodically Deposited Alumina Films.	1973	Harrop D, Draper P	Conference of the International Society of Electrochemistry	Brighton
Hot Riser Corrosion: Field Experience	1981	Harrop D	Corrosion & Corrosion Prevention Offshore	Short Course, Cranfield Institute of Technology
The Selection of Inhibitors for Crude Oil Pipelines	1983	Harrop D	Development and Use of Corrosion Inhibitors	London Press Centre
The Forties Water Injection: A Review of Corrosion Control	1984	Harrop D, Bown J, Horner R	UK Corrosion 1984	Wembley
Corrosion Inhibitors in the Petroleum Industry	1986	Harrop D	Corrosion Control by Inhibitors	Short Course, University of Nottingham/ICorrST
The Impact of Corrosion on the Oil and Gas Industry	1986	Harrop D, Kermain B	SPE Production & Facilities	
Internal Corrosion Prevention of Submarine Pipelines by Inhibition and Product Pre-Treatment	1986	Harrop D	External & Internal Corrosion Control of Submarine Pipelines - Design & Practice	London Press Centre
Application of Electrochemical Methods to the Study of Corrosion Inhibitors	1987	Harrop D	UK Corrosion 1987	Brighton
The Study of Corrosion Inhibitors Using Electrochemical Methods	1988	Harrop D	Offshore Materials & Corrosion Engineering	Seminar, Newcastle Upon Tyne Poly
Chemical Inhibitors for Corrosion Control	1988	Harrop D	RSC/ICorrST - International Symposium on Chemical Inhibitors for Corrosion Control	UMIST
Corrosion Inhibitors in the Petroleum Industry	1989	Harrop, D	Corrosion Control by Inhibitors	Short Course, University of Nottingham/ICorrST
Sulphide Stress Corrosion Cracking of Downhole Tubular Steels	1991	Harrop D, Kermani B, Vera J	NACE Corrosion 1991	Cincinnati, Ohio, USA
Experimental Limits of Sour Service for Tubular Steels	1991	Harrop D, Kermani B, Crolet J-L, Truchon M	NACE Corrosion 1991	Cincinnati, Ohio, USA
Laboratory Procedures for the Selection of Oilfield Corrosion Inhibitors	1991	Harrop D, Webster S	UK Corrosion 1991	
A Case History for Corrosion Inhibitor Selection for the Forties Export Pipeline	1993	Harrop D, White C, Webster, S, Merrett S	Corrosion Science	
Materials Selection for Oil and Gas Production and Transportation Facilities	1993	Harrop D, Kermani B	Third Iranian Corrosion Congress	Tehran, Iran
The Application of the Electrochemical Noise Technique for Corrosion Monitoring Under Multiphase Flow Conditions	1994	Harrop D, Webster S	ASTM Symposium - Electrochemical Noise Measurement for Corrosion Applications	Montreal, Quebec, Canada
Maintain Optimum Lifetime And Productivity: Successfully Controlling Corrosion To Manage Pipeline Integrity	1994	Harrop D	IIR - Managing Corrosion in the Oil & Gas Industry	Aberdeen
Green Corrosion Inhibitors: An Oil Company Perspective	1995	Harrop D, McMahon A	NACE Corrosion 1995	Orlando
Experimental Comparison of the Rotating Cylinder Electrode and Full Pipe Flow for the Evaluating Flow Induced CO2 Corrosion	1995	A J McMahon, S Webster, D M E Paisley, T Moros and D Harrop	NACE Corrosion 1995	Orlando
The Impact of Corrosion on the Oil and Gas Industry	1995	Harrop D, Kermani B	SPE Middle East Oil Show	Bahrain
Corrosion Prediction in the Oil & Gas Industry - Introductory Overview	1997	Harrop D	OPT '97 - Offshore Pipeline Corrosion Prediction Workshop	Amsterdam
Drag Reducing Chemical Enables Increased Seawater Injection Without Increasing the Oxygen Corrosion Rate	1997	Harrop D, McMahon, A	NACE 97	New Orleans
Corrosion Prediction Modelling for Risk Assessment	1997	Harrop D, Paisley D	Egyptian Corrosion Society Conference	Egypt
Future Corrosion Challenges in the Oil & Gas Industry	1998	Harrop D	25th Anniversary of the Corrosion & Protection Centre, UMIST	Manchester
Pipeline Failure: the Roles Played by Corrosion, Flow and Metallurgy	1999	Harrop D, Paisley D	NACE 1999	San Antonio
The Corrosion Inhibitor Availability Model	2000	Harrop D, Hedges W, Woollam R	NACE 2000	Orlando
Assuring Technical Competence	2000	Harrop D	ICorr - Yorkshire Branch meeting on Education in Corrosion	Sheffield
Corrosion Under Insulation	2003	Harrop D	IQPC - Corrosion Management for Upstream Oil & Gas	Aberdeen
CUI: A Perennial Challenge for Innovation	2004	Harrop, D	The Production Eng. Association - International Hydrocarbon: Fostering innovation in the oil & gas industries	London
Corrosion Inhibitors - Advancing an Enduring Corrosion Control Technology	2004	Harrop D	IQPC - Corrosion Management for Upstream Oil & Gas	Kuala Lumpur
Chemical Inhibition in Demanding Environments: Assuring Continuing Asset Integrity Through Best Practice Deployment	2004	Harrop D	IQPC - Asset Management	Aberdeen
Corrosion Inhibitors - Still up to the Challenge (Keynote Speaker)	2004	Harrop D	SPE - 1st International Conference on Oilfield Corrosion	Aberdeen
Corrosion Prediction: Choosing Accurate Models for Integrity Management	2005	Harrop D	IQPC - Integrity Management Summit	Aberdeen
Keeping Hydrocarbons in the Pipe: Not if Corrosion has Its Way! So what's New? (Keynote Speaker)	2007	Harrop D	UK Corrosion 2007	Sheffield
Evolving Corrosion Prediction and Monitoring	2007	Harrop D	Marcus Evans - Global Corrosion Management Forum for the Oil & Gas Industry	Amsterdam
Field Corrosion Control Design Options	2008	Harrop D	SPE - Workshop on Oilfield Corrosion	Aberdeen
Using Modelling and Data Analytics to Signal Change	2008	Harrop D, Durnie W	SPE - 4th International Conference on Oilfield Corrosion	Aberdeen

CV of Prof. Dr. Gözen BEREKET (Nominated for election to the STAC)

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Languages : English

Education (degrees, dates, institutions):

MSc. in chemistry, 1974, METU

Ph.D., 1982, Ankara University

Research Interest:

Inhibition of corrosion, study of correlation between the chemical structure of molecules and their inhibitive action both experimentally and by quantum chemical calculations, electropolymerization, corrosion inhibition with conductive polymers.

Work Experience:

Since 1993: at Eskişehir Osmangazi University, Faculty of Arts and Science, Chemistry Department, Eskişehir-TURKEY

Publications:

1. "Formation and reduction of surface oxides" Gözen Bereket, Melike Kabasakaloğlu, Communications, 28, 19, 1982.
2. "Formation characteristics of cuprous oxides" Gözen Bereket, Melike Kabasakaloğlu, Communications, 28, 89, 1982.
3. "Potentiometric titration of bibenzimidazole derivatives in various solvent mixtures" Gözen Bereket, Temir Ali Demir, Cemil Öğretir, Chim. Acta Turk, 17, 745, 1989.
4. "The inhibiting effect of some organics on al-alloys" A.S.Şaraç, G.Bereket (7 SEIC) Ann Univ. Ferrara N.S. V. Suppl. N. 9, 1990.
5. "Monitoring of heavy metal pollution of traffic origin in Eskişehir" Gözen Bereket, Ersin Yücel, Doğa, 14, 266, 1990.
6. "Corrosion behaviour of tin electrode in citric acid, malic acid and glutamic acid" Gözen Bereket, Arzu Yedigün, Communications, 37, 81, 1991.
7. "Trafik kökenli ağır metal kirliliğinin çeşitli liken türleri ile izlenmesi" Gözen Bereket, Ayşen Özdemir, Marmara University Publication, 4, 221, 1992.
8. "Bazı 2-(4-substitüe fenil)oxoazolo(4,5-b) piridin türevlerinin susuz ortamda potansiyometrik titrasyonu" Cemil Öğretir, Gözen Bereket, Mehmet Poyraz, Marmara University Publication, 4, 221-224, 1992.
9. "Potentiometric titration of some 2-substituted 5-nitrobenzimidazole derivatives in nonaqueous solvent" Ayşe Pütün, Gözen Bereket, Esra Keskin, Journal of Chemical and Engineering Data, 40, 221-224, 1995.

CV of Prof. Dr. Gören BEREKET (Continued)

10. "Potentiometric titration of some imidazole derivates in nonaqueous solvent, communications" Ayşe Pütün, Gözen Bereket, Nurgül Özbay, 42, 1-7, 1996.
11. "The effect of hdroxycarboxylic acids and amino acids on the corrosion of aluminium base alloys in 0.1 M NaCl solution" G.Bereket, A.S. Saraç, M. Köse, Communications, 42, 39, 1996.
12. "Removal of pb(II), cd(II), cu(II), and zn(II) from aqueous solutions by adsorption on bentonite" G. Bereket, A.Z. Aroğuz, M.Z. Özel, Journal of Colloid and Interface Science, 187 (2): 338-343, 1997.
13. "Quantum chemical studies of some pyridine derivatives as corrosion inhibitors" C. Ögretir, B. Mihci, G. Bereket, Journal of Molecular Structure-Theochem 488 (1): 223-231, 1999.
14. "The inhibition effect of amino acids and hydroxy carboxylic acids on pitting corrosion of aluminum alloy 7075" G. Bereket, A. Yurt, Corrosion Science 43 (6): 1179-1195, 2001.
15. "Quantum mechanical calculations on some 4-methyl-5-substituted imidazole derivatives as acidic corrosion inhibitor for zinc" G. Bereket, C. Ogretir, A Yurt, Journal of Molecular Structure-Theochem, 571: 139-145, 27, 2001.
16. "Quantum chemical studies on some imidazole derivatives as corrosion inhibitors for iron in acidic medium" G. Bereket, E. Hur, C. Ogretir, Journal of Molecular Structure-Theochem 578, 79-88, 14, 2002.
17. "Inhibition of the corrosion of low carbon steel in acidic solution by selected quaternary ammonium compounds" G. Bereket, A. Yurt, Anti-Corrosion Methods and Materials, 49 (3): 210-220, 2002.
18. "Tautomeric studies on 2-mercapto pyrimidines and their significance in corrosion process" G. Bereket, C. Ogretir, M. Yaman, Journal of Molecular Structure-Theochem 625: 31-38, 2003.
19. "A theoretical search on metal-ligand interaction mechanism in corrosion of some imidazolidine derivatives" C. Ogretir, S. Calis, .G. Bereket, Journal of Molecular Structure-Theochem 626, 179-186, 2003.
20. "Quantum chemical studies on the inhibition efficiencies of some piperazine derivatives for the corrosion of steel in acidic medium" G. Bereket, C. Ogretir, C. Ozsahin Journal of Molecular Structure-Theochem, 663 (1-3): 39-46, 2003.
21. "Inhibition of the corrosion of low carbon steel in acidic solution by selected polyelectrolytes and polymers" G.Bereket, A.Yurt, H. Türk, Anti-Corrosion Methods and Materials, 50, 422, 2003.
22. "Investigation on some schiff bases as HCl corrosion inhibitors for carbon steel" G. Bereket, A. Yurt, A. Balaban, S. Ü. Kandemir, B. Erk, Material Chemistry and Physics, 85, 420-426, 2004.
23. "Benzimidazole-2-tione and benzoxazole-2-tione derivatives as corrosion inhibitors for aluminium in hydrochloric acid" G. Bereket, A. Pinarbasi, C. Ogretir, Anti-Corrosion Methods and Materials, 51 (4): 282-293, 2004.
24. "Electrochemical thermodynamic and kinetic studies of the behaviour of aluminium in hydrochloric acid containing various benzotriazole derivatives" G. Bereket, A. Pinarbasi Corrosion Engineering Science and Technology, 39 (4): 308-312, 2004.

CV of Prof. Dr. Gören BEREKET (Continued)

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Draft Advert Job Description

European Federation of Corrosion (EFC)
Science and General Secretary
(Part-time averaging two days per week)

EFC is a federation of over 30 societies with the aim of advancing the science and technology of the corrosion and protection of materials by promoting cooperation in Europe and collaboration internationally. The federation is registered in Belgium and has secretariats in France, Germany and the UK.

Activities include a prestige annual conference and the publication of reports and books based on the work of eighteen working parties devoted to various aspects of corrosion and overseen by the Science and Technology Advisory Committee (STAC). The majority of EFC work is carried out by volunteers.

The Board of Administrators (BoA) is seeking a proactive and suitably qualified scientist preferably with an interest in corrosion to support, facilitate and promote all EFC activities. Principal responsibilities include the coordination and development of STAC activities, the provision of full secretarial services to its meetings and liaison with working parties, attending and reporting progress to meetings of the BoA, its supporting committees and the General Assembly. Other responsibilities include liaison with like-minded bodies, public relations and the promotion of EFC activities through its newsletter and calendar of events. The role will involve travel throughout and occasionally outside Europe.

If you are interested in this role, please email your C.V. and covering letter to

European Member Society Application: Bond voor Materialenkennis, Eindhoven, The Netherlands

**FÉDÉRATION EUROPÉENNE DE LA CORROSION
EUROPEAN FEDERATION OF CORROSION
EUROPÄISCHE FÖDERATION KORROSION**



EFC MEMBERSHIP APPLICATION FORM

The principal objective of the EFC is to contribute to the general advancement of the science of corrosion and the protection of materials by promoting cooperation in Europe between scientific and technical societies and organisations and by collaboration with similar scientific and technical societies and organisations throughout the world.

Subject to the approval of the EFC Board of Administrators and the EFC General Assembly, full membership of the EFC is available to organisations that are not-for-profit and support the above objective, in the following categories:

- 1) European Membership is available within the full member states of the Council of Europe;
- 2) International Membership is available in all other countries (subject to the support of three European Member Societies in good standing*).

EFC Member Societies qualify for a number of important benefits, which include the following:

- Participation by their members in EFC Working Parties as of right;
- Reduced registration fees for their members at the EFC annual EUROCORR Conference;
- Discounted prices to their members on all EFC publications;
- Access by their members to the restricted area of the EFC Website containing EFC Working Party minutes and the electronic proceedings of past EUROCORR Conferences;
- Participation in the EFC General Assembly (with voting rights);
- Opportunities to nominate individuals for the EFC Awards and for election to the EFC Board of Administrators
- Availability of Affiliate Membership of the World Corrosion Organisation (WCO) at no additional cost subject to the approval of the WCO Board of Administrators and the WCO General Assembly

In addition, European Member Societies may submit bids to host the EUROCORR Conference.

A reduced membership fee (50 % off) of €763.5 will be offered during the first two years of membership. If you would like to apply on behalf of your society to join the EFC as either a European Member Society or an International Member Society, please complete the form and submit it to one of the three offices of the EFC General Secretariat given below.

Name of Society: Bond voor Materialenkennis

Address: Postbus 359, NL-5600 AJ, EINDHOVEN, The Netherlands

Tel: +31 40 2969913

Fax: +31 40 2969926

E-mail: info@materialenkennis.nl

Website: www.materialenkennis.nl

President: Dr. ir. H.W. (Eddy) Brinkman

Address: Kruisstraat 74, NL-5612 CJ, EINDHOVEN, The Netherlands

Tel: +31 573 44 28 65

Fax: +31 573 44 28 67

E-mail: eddy.brinkman@betase.nl

Confirmation of Not-For-Profit Status:

I hereby confirm that the above society supports the objective of the EFC, as outlined overleaf, and operates on a not-for-profit basis.

Signed:

Position: Bond voor Materialenkennis - President

June 21, 2010

* This support will be organised on behalf of the applicant by the EFC

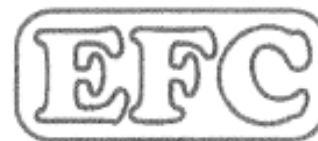
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Affiliate Member Application: Sulzer Metco Europe GmbH, Hattersheim, Germany

FEDERATION EUROPEENNE DE LA CORROSION
 EUROPEAN FEDERATION OF CORROSION
 EUROPÄISCHE FÖDERATION KORROSION



Re: Affiliate Membership of the European Federation of Corrosion
 (Companies)

AFFILIATE MEMBERSHIP AGREEMENT

The European Federation of Corrosion (EFC)* grants Affiliate Membership of the EFC to:

Sulzer Metco Europe GmbH
 Am Eisernen Steg 18
 D-65795 Hattersheim
 Germany

(The Affiliate)

The Affiliate undertakes to support the aim of the EFC to advance the science of corrosion and protection of materials by promoting cooperation in Europe and collaboration internationally by providing financial support currently amounting to €1,500 per annum to EFC funds. In return for this contribution, the EFC undertakes to provide the following benefits to the Affiliate:

- Participation in EFC Working Parties (of which there are currently 18) as of right;
- Reduced registration fees at the EFC annual EUROCORN Conference;
- Discounted prices for EFC publications (of which there are now over fifty);
- Access to the restricted area of the EFC Website containing EFC Working Party minutes and the electronic proceedings of past EUROCORN Conferences;
- Participation in the EFC General Assembly (without voting rights);
- Availability of Affiliate Membership of the World Corrosion Organisation (WCO) at no additional cost subject to the approval of the WCO Board of Administrators and the WCO General Assembly

Signed:

Date:

Post Held:

For the EFC

Signed:

Date:

June 15, 2010

Post Held:

Vice President, Head Region Europe

For the Affiliate

* Subject to the approval of the EFC Board of Administrators and the EFC General Assembly

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Affiliate Member Application: Lybian Corrosion Society, Benghazi, Lybia

FEDERATION EUROPEENNE DE LA CORROSION
EUROPEAN FEDERATION OF CORROSION
EUROPÄISCHE FÖDERATION KORROSION



Re: Affiliate Membership of the European Federation of Corrosion
(Universities and Research Organisations)

AFFILIATE MEMBERSHIP AGREEMENT

The European Federation of Corrosion (EFC)* grants Affiliate Membership of the EFC to:

Libyan Corrosion Society (LCS)

(The Affiliate)

The Affiliate undertakes to support the aim of the EFC to advance the science of corrosion and protection of materials by promoting cooperation in Europe and collaboration internationally by providing financial support currently amounting to €1,000 per annum to EFC funds. In return for this contribution, the EFC undertakes to provide the following benefits to the Affiliate:

- Participation in EFC Working Parties (of which there are currently 18) as of right;
- Reduced registration fees at the EFC annual EUROCORN Conference;
- Discounted prices for EFC publications (of which there are now over fifty);
- Access to the restricted area of the EFC Website containing EFC Working Party minutes and the electronic proceedings of past EUROCORN Conferences;
- Participation in the EFC General Assembly (without voting rights);

Signed:

Signed:

Date:

Date:

05/07/2010

Post Held:

Post Held:

LCS General Manager

For the EFC

For the Affiliate

* Subject to the approval of the EFC Board of Administrators and the EFC General Assembly

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**THE NACE-EFC OFFICERS' MEETING
SAN ANTONIO, 16 MARCH 2010**

Present:	Mark Byerley	NACE President	(MB)	
	Chris Fowler	NACE Vice-President		(CF)
	Delmar Doyle	NACE Interim Executive Director	(DD)	
	Oliver Moghissi	NACE Vice-President Elect	(OM)	
	Philippe Marcus	EFC President	(PhM)	
	Rolf Gubner	EFC Vice-President		(RG)
	Michael Schütze	EFC Past President	(MS)	
	Paul McIntyre	EFC Scientific Secretary	(PM)	

The purpose of the meeting was to review progress in the various areas of collaboration between NACE and EFC and to identify new areas of joint activity.

1. Joint Publications

PM reported that progress was being made on a book entitled “Corrosion Behaviour of Alloys used in the Offshore Marine Environment – A Guide for New Engineers”. This is being developed as a joint EFC-NACE activity under the leadership of Ulf Kivissäk of EFC WP9 on Marine Corrosion. Because the first joint publication was published by NACE, this book would be published by EFC with a similar arrangement on the division of royalties between the two organisations.

OM announced a new joint venture between NACE STG08 and EFC WP13 to develop a joint publication on “Corrosion Management in Pipelines”. Bijan Kermani is involved on behalf of the EFC and at present each organisation is working on its own document, the intention being that these will be harmonised in due course.

It was agreed that a future topic for cooperation could be “Mechanisms of Hydrogen Assisted Cracking”.

2. International Maritime Organisation

Last year NACE gained NGO status as a coatings organisation in the International Maritime Organisation (IMO). Tony Keane, the then Executive Director of NACE requested EFC representation on its organising council. Ulf Kivissäk, the chairman of EFC WP9 on Marine Corrosion was approached about this but was unable to participate due to other commitments. Instead, Anne-Marie Grolleau of WP9 will take part. There will be a panel discussion of the organising council at EUROCORR 2010 in Moscow to determine its mode of operation.

3. NACE MR0175/ISO 15156

There will be a meeting of the Maintenance Panel for NACE MR0175/ISO 15156 during EUROCORR 2010 in Moscow.

4. Electronic Publications

CF undertook to provide PM with background information about the European Region of NACE for inclusion in EFC's new Electronic Newsletter. Furthermore, PM offered to submit an article about EFC and its activities to Amir Eliezer, the new editor of NACE-European Region's electronic publication “Corrodia”.

It was agreed that NACE can include the EFC logo in “Corrodia” and PM undertook to forward a copy of it to CF.

5. Industrialisation of the EUROCORR Exhibition

MB offered to provide help from NACE to increase participation by industrial companies in the EUROCORR 2010 Exhibition in Moscow. NACE will advertise the exhibition on its website and will send e-mails to potential exhibitors. The exhibition at EUROCORR 2011 in Stockholm will be actively publicised during NACE Technology Week, which takes place two weeks after EUROCORR 2010.

6. Reciprocal Advertising of Conferences

EFC will continue to advertise NACE CORROSION Conferences prominently on its website in return for which NACE will give prime billing to EUROCORR on its home page during January and May-June each year.

7. Joint NACE/EFC Meetings

Last year's plan to hold a joint meeting in Rotterdam on "Corrosion in Refineries" fell through because of adverse economic circumstances on both sides of the Atlantic.

CF suggested that a joint meeting about NACE MR0175 and ISO 15156 could instead be held in Stockholm in conjunction with EUROCORR 2011. It was proposed that the organisers would include:

Chris Fowler
Thierry Cassagne
Stein Olsen
Thierry Chevrot
Linda Goldberg

CF will initiate a conference call within the next 2 or 3 months to ensure a timely start to the planning process. The anticipated participation level is about 100 and DECHEMA will be asked about a suitable venue for the event, which is expected to extend over the Friday and Saturday at least. Efforts will be made to provide participants with an attractive package deal in conjunction with EUROCORR 2011.

8. Third Edition of EFC 17

CF reported that work on the manuscript had been completed following meetings with Alan Turnbull of NPL and Stuart Bond of TWI to finalise the appendix on strain gauging. He undertook to provide PM with the completed manuscript for final checking within the next few days.

10. Technical Committees

It was agreed that participation in each others' technical meetings makes an important contribution to the coordination of activities between NACE and EFC. Senior representatives from NACE will be invited to participate in the EFC Science and Technology Advisory Committee on 13 September in Moscow and PM was invited to participate in meetings of the NACE Research Committee, Technical Coordination Committee and Technical and Research Activities Committee on 18 March in San Antonio.

11. Participation by NACE European Region in EFC

Now that NACE-Europe is an International Member of EFC it is eligible to nominate candidates for election to the EFC Board of Administrators and Science and Technology Advisory Committee. CF confirmed that NACE would soon be submitting candidates for election to each of these bodies during the EFC General Assembly in Moscow.

12. Exchange of Minutes

The action on Linda Goldberg to try to identify corresponding chairmen of EFC Working Parties and NACE Specific Technology Groups was continued. This information will facilitate the exchange of minutes between the EFC and NACE personnel in connection with which EFC is developing a restricted area on its website to which appropriate NACE personnel will be given access. It was felt that Linda Goldberg should be invited to participate in future meetings between the officers of NACE and EFC.

13. Exhibition Booths

It was agreed that the current arrangements relating to the provision of complimentary registrations and reciprocal display areas in the exhibitions at the NACE Corrosion and EUROCORR conferences are working well and should continue in accordance with the NAC/EFC Agreement.

P. McIntyre
18 March 2010

UNITED NATIONS NATIONS UNIES

POSTAL ADDRESS-ADDRESS POSTAGE: UNITED NATIONS, NY 10017
CABLE ADDRESS-ADDRESS TELEGRAPHIC: NATIONS NEW YORK

7 July 2010

Dear Mr. Schuetze,

The Committee on Non-Governmental Organizations of the Department of Public Information (DPI) met on 30 June 2010 to consider new applications from non-governmental organizations (NGOs) for association with DPI. I am pleased to inform you that the Committee approved the **World Corrosion Organization** for association with the Department, effective immediately.

This association constitutes a commitment on the part of your organization to disseminate information and raise public awareness about the purposes and activities of the United Nations and issues of global concern. Associated NGOs are expected to focus a portion of their publications and information activities on the work of the United Nations. You are encouraged to cooperate with the United Nations Information Centres or Services in your country and with representatives of other parts of the United Nations in the area of your expertise.

You are also expected to keep DPI/NGO Relations informed of the activities you undertake and to send us relevant publications and other materials. In the case of an amendment to your organizational structure or bylaws, please send us a copy of the amended documents. Also, you should inform us of all changes in your name or address or representatives to this Department.

In this regard, I would like to take this opportunity to inform you that as an associated NGO, you are entitled to designate one main and one alternate representative, who will be granted United Nations photo grounds passes which are renewable annually. Please fill out and return a 2010 Accreditation Form, available on our website at <http://www.un.org/dpi/ngosection/index.asp>. **This is mandatory for all newly associated NGOs.** Please note that your representative(s) should go to the Pass and ID Office located at 45th and First Avenue **in person** with a government – issued photo ID to receive the grounds pass. The pass will give your representative(s) access to United Nations facilities and to all open meetings of the United Nations bodies, which they can attend as observers. Representatives are also invited to attend the Thursday NGO briefings organized by the Department, featuring United Nations officials, Government delegates and other experts, including NGOs.

Mr. Ing Michael Schuetze, President
World Corrosion Organization
P.O. Box 2544,
New York, NY 10116-2544
United States of America

UN DPI/NGO Conference

If you are interested in registering for the 63rd Annual UN DPI/NGO Conference entitled "Advance Global Health: Achieve the MDGs" scheduled for 30 August until 1 September in Melbourne, Australia, please send in your accreditation form as soon as possible to receive your ID and password. Please visit the conference website at www.undpingoconference.org.

Your organization will also be listed on our Directory of NGOs associated with DPI, which is disseminated via our website noted below.

Your organization will start receiving emails of relevant United Nations materials and information on United Nations conferences, seminars, briefings and other events. These materials will be sent to your Headquarters unless you instruct us to send them elsewhere. Information on these events is also available on our website at: <http://www.un.org/dpi/ngosection/index.asp>.

I would like to inform you that association of NGOs with DPI does not constitute their incorporation into the United Nations system, nor does it entitle associated organizations or their staff to any kind of privileges, immunities or special status.

Use of the UN Emblem

Please also note that only the United Nations can use the UN emblem. The UN emblem may not be used unless approval has been granted by the Legal Office of the UN. You may refer to your association with DPI in the following way: the name of your organization followed by a phrase such as "associated with the Department of Public Information of the United Nations". On your business cards, please refer to yourself as representative of your organization associated with the Department of Public Information of the United Nations. It would be incorrect to refer to yourself as a delegate or representative to the UN since these terms can only be used by Member States.

Again, it is my pleasure to welcome your organization among NGOs associated with DPI and to assure you that the staff of the DPI/NGO Relations and I, look forward to a productive partnership in the pursuit of our common goals.

Yours sincerely,



Maria-Luisa Chavez
Chief, NGO Relations
Department of Public Information

cc: Mr. Eric Falt, Director, Outreach Division, DPI
Mr. Jeffrey Huffines, Chair, NGO/DPI Executive Committee
Mr. William Davis, Director, UNIC Washington DC

FEMS REPORT

The tenth biennial conference in the FEMS JUNIOR EUROMAT series took place in Lausanne on 15-19 July 2010. It attracted 320 young materials scientists and engineers from 33 different countries, the largest contingents coming from Germany, Czech Republic, Poland, Russia and the United Kingdom. As usual, it was organised as a poster conference where all 291 contributions were displayed as posters, the authors of which were given the opportunity to present a brief (3 minutes with up to 3 slides) oral summary of their posters in the lecture theatre. The fourteen different topics covered virtually every aspect of Materials Science and Engineering, from nano to bio and from mechanical and physical properties to processing. Prizes of up to €250 were awarded to the best posters. Plenary lectures were presented by Prof. Ludwig Schultz of the Leibniz Institute for Solid State and Materials Research in Dresden whose talk was entitled “Riding on Magnetic Fields - The Miraculous World of Superconductors”, and by Prof. Hanns-Ulrich Harbermeier of the Max Planck Institute for Metals Research in Stuttgart who spoke about functional ceramic thin films.

Next year, FEMS EUROMAT 2011, the major European materials conference which is also held biennially, will take place in Montpellier on 12-15 September 2011. It is being organised jointly by FEMS Member Societies in France and Italy (SF2M and AIM, respectively). The Scientific Committee is chaired by Prof. Jean-Marc Chaix of CNRS and Institut Polytechnique de Grenoble.

I gave notice of my intention to resign both as FEMS Secretary and as a member of the EUROMAT 2011 Scientific Committee due to failing health on 7 January 2010 and following interviews held in Berlin on 30 June a successor has now been appointed, subject to the approval of the FEMS General Assembly. That person will take over from me with effect from 1 August.

Paul McIntyre
FEMS Secretary
26 July 2010

EUROPEAN FEDERATION OF CORROSION
HONORARY TREASURER'S REPORT

I am pleased to attach the following for your consideration:

1 Annual financial statement for the year ended 31 December 2009 (Annex 1, pages 1 to 3)

The results for the year are shown on page 1. I am pleased to report a surplus of €19,280 which comfortably exceeds both the 2008 result and the budget for the year.

Total income was higher than budget whilst total costs were lower than budget. There was a small exchange gain following the large loss in 2008 and the vast majority of funds are now held in euros. Costs were generally lower than budget but WCO costs were higher following the earlier payment of the latest subscription to WCO resulting in two subscriptions being included in the year.

As a result of the surplus, reserves increased to €70,427 at the year end and represent 121% of budgeted expenditure for 2010. This has been achieved mainly through the success of Eurocorr over the last few years. One of the corporate aims in the strategic plan was to increase reserves to 100% of budgeted expenditure for the following year. It was considered that this level of reserves would ensure the financial stability of EFC and enable it to achieve the other corporate aims set out the strategic plan.

2 Subscriptions (Annex 2)

The statement summarises the amount of subscriptions due up to 31 December 2009 and the amounts received in 2010.

3 Budget for 2011 (Annex 3)

The annex shows the results for 2009, the agreed budget for 2010 and the proposed budget for 2011. The 2011 budget has been prepared mainly on the basis of the assumptions contained in the strategic plan and shows an operating surplus of €2,310.

The budget allows for increased spending on membership services (such as working parties and the website), publicity and international visibility of EFC.

4 Approval

Approval is sought from the Board of Administrators and the General Assembly for the:

- Annual financial statement for the year ended 31 December 2009
- Budget for 2011

Ray Milbank
 12 July 2010

EUROPEAN FEDERATION OF CORROSION	Treasurers report
Income and expenditure account for the year ended 31 December 2009	Annex 1
	Page 1

	Note	2009 budget		2009 results		2008 results	
		€	€	€	€	€	€
Income							
Net subscriptions receivable			34 220		35 584		32 000
Eurocorr levy			16 800		20 000		20 000
Publishing income			6 300		6 469		7 959
Other income			1 000		0		0
Total			<u>58 320</u>		<u>62 053</u>		<u>59 959</u>
Expenditure							
Membership services							
Science secretary costs	(1)	13 335		11 280		11 276	
Support for working parties	(2)	2 400		520		1 000	
Newsletter		1 574		1 476		1 229	
Website		4 200		4 000		0	
Eurocorr Corrosion Medal		1 000		1 000		0	
			<u>22 509</u>		<u>18 276</u>		<u>13 505</u>
Membership/product development growth							
Publicity		2 250		0		829	
History of EFC		0		1 826		0	
			<u>2 250</u>		<u>1 826</u>		<u>829</u>
International visibility							
NACE participation costs		3 000		2 640		2 886	
World Corrosion Organisation		3 675		4 523		2 115	
Other costs		1 050		0		0	
			<u>7 725</u>		<u>7 163</u>		<u>5 001</u>
Administrative costs							
Science secretary costs	(1)	13 335		11 279		11 276	
Paris secretariat costs		7 140		4 772		6 313	
Honorary Officers expenses		2 100		1 349		1 032	
			<u>22 575</u>		<u>17 400</u>		<u>18 621</u>
Other costs							
Exchange losses/(gains)		0		(1 929)		7 297	
Bank charges		200		35		34	
			<u>200</u>		<u>(1 894)</u>		<u>7 331</u>
Total			<u>55 259</u>		<u>42 771</u>		<u>45 287</u>
Surplus for the year			<u>3 061</u>		<u>19 282</u>		<u>14 672</u>
Surplus brought forward			51 145		51 145		36 473
Surplus carried forward			<u>54 206</u>		<u>70 427</u>		<u>51 145</u>

EUROPEAN FEDERATION OF CORROSION	Treasurers report
Balance sheet at 31 December 2009	Annex 1
	Page 2

		31/12/09 €	31/12/08 €
Current assets			
Outstanding subscriptions	(4)	7 127	7 500
Other debtors	(5)	25 910	27 959
Amount held by IoM3		42 727	21 105
Bank balance		2 257	2 292
		<u>78 021</u>	<u>58 856</u>
Current liabilities			
Creditors and accruals	(6)	3 569	3 686
Net assets		<u>74 452</u>	<u>55 170</u>
 General fund		 70 427	 51 145
Education fund		4 025	4 025
Total funds		<u>74 452</u>	<u>55 170</u>

EUROPEAN FEDERATION OF CORROSION		Treasurers report	
Notes to the financial statements for the year ended 31 December 2009		Annex 1	
		Page 3	
	2009	2008	
	€	€	
1) Scientific Secretary costs			
Fees	15 342	15 450	
Office facilities	5 000	7 000	
Travel & incidental expenses	3 083	774	
Postage & courier costs	104	78	
	<u>23 529</u>	<u>23 302</u>	
<i>Allocated as follows:</i>			
Membership services	11 280	11 276	
Support for working parties	0	0	
NACE participation costs	970	750	
Administrative costs	11 279	11 276	
	<u>23 529</u>	<u>23 302</u>	
2) Support for working parties			
Scientific Secretary fees	0	0	
Other support costs	520	1 000	
	<u>520</u>	<u>1 000</u>	
3) NACE participation costs			
Scientific Secretary fees	970	750	
Travel and other costs	1 670	2 136	
	<u>2 640</u>	<u>2 886</u>	
4) Subscriptions outstanding			
This represents subscriptions due prior to 31 December 2009 that have been received in 2010 up to the date of this report.			
5) Other debtors			
Publication royalties	5 910	7 959	
Eurocorr levy	20 000	20 000	
	<u>25 910</u>	<u>27 959</u>	
6) Creditors and accruals			
Scientific secretary's fees/expenses	2 413	953	
Paris secretariat costs	1 156	1 733	
Working party expenses	0	1 000	
	<u>3 569</u>	<u>3 686</u>	

EUROPEAN FEDERATION OF CORROSION MEMBERS SUBSCRIPTIONS	Treasurers report Annex 2
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SOCIETY	COUNTRY	Fees due 2009 €	Arrears €	Received in 2009 €	Owing 31/12/09 €	Received in 2010 €	Unpaid €
The Austrian Society of Metallurgy & Materilas	Austria	1 120		1 120	0		0
CEBELCOR	Belgium	1 527		1 527	0		0
Force Instituttet	Denmark	1 527	1 500	3 027	0		0
FINNCORR	Finland	1 527		1 527	0		0
CEFRACOR	France	1 527	1 500	3 027	0		0
FFC (SCI)	France	1 527		1 527	0		0
GfKORR	Germany	1 527		1 527	0		0
DECHEMA eV	Germany	1 527		1 527	0		0
Associazione Italiana di Metallurgia AIM	Italy	1 120	1 000		2 120		2 120
Norsk Korrosjonsteknisk Forening	Norway	1 527	1 500	3 027	0		0
INETI	Portugal	1 120		1 120	0		0
Sociedade Portuguesa de Quimica	Portugal	1 120		1 120	0		0
Sociedad Espanola de Qumica Industrial	Spain	1 120		1 120	0		0
Swedish Corrosion Institute	Sweden	1 527			1 527	1 527	0
SGO	Switzerland	1 120	1 000	2 120	0		0
Institute of Corrosion	UK	1 527		1 527	0		0
The Institute of Materials	UK	1 527		1 527	0		0
Croatian Society for Materials Protection	Croatia	1 120		700	420		420
Czech Association of Corrosion Engineers	Czech Republic	1 120		1 120	0		0
Hungarian Corrosion Society	Hungary	1 120			1 120	1 120	0
Polskie Stowarzyszenie Korozyjne	Poland	1 120	1 000	1 000	1 120	1 120	0
Ukranian Association of Corrosionists	Ukraine	1 120	1 000		2 120		2 120
Corrosion Comm. of the Romanian Academy	Romania	1 120	1 000	1 000	1 120	1 120	0
ANTI KOR – Int. Sci. & Educ. Corr. Centre	Russia	1 527		1 527	0		0
The Corrosion Association	Turkey	1 120		1 120	0		0
Albanian Corrosion Society	Albania	1 120			1 120		1 120
Svuom S.R.O.	Czech Republic	1 120		1 120	0		0
Campi	Israel	1 120	1 000	1 000	1 120	1 120	0
Israeli Corrosion Forum	Israel	1 120			1 120	1 120	0
Polytechnic of Gdansk		1 000		1 000	0		0
		38 364	10 500	35 957	12 907	7 127	5 780

EUROPEAN FEDERATION OF CORROSION Budget for the year ending 31 December 2011	Treasurers report Annex 3
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	2009 results		2010 budget		2011 budget	
	€	€	€	€	€	€
Income						
Net subscriptions receivable		35 584		37 332		39 000
Eurocorr levy		20 000		17 640		18 500
Publishing income		6 469		6 615		6 900
Other income		0		1 000		0
		<u>62 053</u>		<u>62 587</u>		<u>64 400</u>
Total						
Expenditure						
Membership services						
Science secretary costs		11 280		14 002		14 700
Support for working parties		520		3 600		3 960
Newsletter		1 476		1 653		1 735
Website		4 000		4 410		4 630
Eurocorr Corrosion Medal		1 000		0		1 000
		<u>18 276</u>		<u>23 665</u>		<u>26 025</u>
Membership/product development growth						
Publicity		0		2 363		2 480
History of EFC		1 826		0		0
		<u>1 826</u>		<u>2 363</u>		<u>2 480</u>
International visibility						
NACE participation costs		2 640		3 150		3 300
World Corrosion Organisation		4 523		3 859		4 050
Other costs		0		1 103		1 150
		<u>7 163</u>		<u>8 112</u>		<u>8 500</u>
Administrative costs						
Science secretary costs		11 279		14 002		14 700
Paris secretariat costs		4 772		7 497		7 870
Honorary Officers expenses		1 349		2 205		2 315
		<u>17 400</u>		<u>23 704</u>		<u>24 885</u>
Other costs						
Exchange losses/(gains)		(1 929)		0		0
Bank charges		35		200		200
		<u>(1 894)</u>		<u>200</u>		<u>200</u>
Total		<u>42 771</u>		<u>58 044</u>		<u>62 090</u>
Surplus/(deficit) for the year		<u>19 282</u>		<u>4 543</u>		<u>2 310</u>
Surplus brought forward		51 145		70 427		74 970
Surplus carried forward		<u>70 427</u>		<u>74 970</u>		<u>77 280</u>

REPORT OF THE SCIENTIFIC SECRETARY
TO THE BOARD OF ADMINISTRATORS (September 2010)

My previous report was prepared on 7 February at which time I and my colleagues, including the EFC President, Past President and Vice-President were preparing to represent EFC at annual NACE CORROSION Expo to be held in San Antonio on 14 - 19 March. The conference was one of the most successful in the series in recent years, attracting 5,904 delegates. The exhibition included 55 booths, one of which was shared by the EFC, the World Corrosion Organisation and the Australasian Corrosion Association. On 14 March Roman Bender and I set up the EFC display, which included copies of the latest additions to the EFC Series of books, the EFC Newsletter, and official journals of the EFC (*Materials and Corrosion* and *Corrosion Engineering, Science and Technology*). This was the subject of steady interest throughout the week. On 15 March I attended the meeting of NACE-Europe Board and presented a report on progress in the EFC during the past year. It was announced that Sam McFarland of Shell Global Solutions would be appointed as Chairman of the European Area of NACE from 1 July 2010 to 30 June 2011. On 16 March meetings of the WCO BoA and GA took place at which I took minutes. There was also a meeting between senior officers of EFC and NACE International on which I subsequently prepared a report summarising the 12 areas for ongoing and future collaboration between the parties that had been discussed (see the Appendix to Item 6.1.1 of these Working Papers).

The meeting in San Antonio also provided the opportunity for me to participate at a meeting of the NACE Research Committee on the morning of 18 March at which emerging problems that require further investigation were discussed. These included 'Chinese' dry-walls manufactured in China and used in buildings in the United States since 2001. Too high a sulphur content causes outgassing of H₂S, resulting in the deterioration of copper and steel in the walls including electrical wiring, switches and thermostats, and the risk of health hazards. Other concerns included the corrosion of fittings in cross-linked polyethylene (PEX) plumbing systems, and leaks from tritium pipelines in nuclear plant. Later the same day I attended the meeting of the NACE Technical and Research Activities Committee which aims to identify strategic issues for attention over the next five years. Virtual attendance meetings via video conferencing will be used to streamline the development of standards. Attention will be paid to potential problems with CO₂ capture at coal-fired power stations and to leaks from water piping in nuclear power plant. Finally, there was discussion of the need for improved monitoring to maintain the integrity of marine coatings. A coordinated programme of research covering cathodic protection, sensing and monitoring, coatings, training and certification should allow current gaps to be closed.

During recent months, I have completed the scientific editing of the proofs of four new books in the EFC Series (EFC 58, 59, 60 and 61) see the Appendix to Item 9-2-1 of these Working Papers. I also edited the first issue of the new EFC e-Newsletter for uploading to the website on 24 April (the first ever Corrosion Awareness Day).

On April 13 I led the UK delegation to a one-week meeting of ISO Technical Committee 156 on Corrosion of Metals and Alloys. Unfortunately, my return was delayed by over two weeks due to the volcanic eruption in Iceland. By the time I returned to England in May I was gravely ill and CT scans showed that the cancer from which I had suffered four years ago had now spread to other vital organs and was both inoperable and incurable. I am currently receiving chemotherapy to retard the further spread of the disease. I am unable to travel, so had to miss the meetings of the President's Advisory Committee and the EFC Strategy Group in Paris on 23-24 June, although I was able to prepare the agendas for these meetings. Since then I have helped to prepare the Working Papers for the meetings of the BoA and GA in Moscow, and I am now turning my attention to those for the STAC and I am collecting contributions for the EFC Newsletter. I intend to continue doing what little I can for EFC for as long as I am able or until a successor can be found, whichever occurs soonest.

Paul McIntyre
 25 July 2010

EFC PUBLICATIONS

Maney's publication schedule for EFC books to be published in 2010 is shown below, where the abbreviations PE and PM represent the Production Editor (Cheryl Merritt) and Paul McIntyre, respectively:

Manuscript title	1st proofs to PE and PM	Corrected proofs back from PM	Revises to be sent to editors	Corrections due from editors	Copies to be mailed
EFC 56 Corrosion Monitoring in Nuclear Systems: Research and Applications	01-Mar-10	15-Mar-10	31-Mar-10	16-Apr-10	16-Jun-10

Manuscript title	Manuscript title 1st proofs to PE and PM	Corrected proofs back from PM	Revises to be sent to editors & authors	Corrections due from editors & authors	Copies to be mailed
EFC 58 Self-Healing Properties of New Surface Treatments	30-Mar-10	13-Apr-10	26-Apr-10	04-May-10	28-Jun-10

Manuscript title	1st proofs to PE and PM	Corrected proofs back from PM	Revises to be sent to editors	Corrections due from editors	Copies to be mailed
EFC 60 Methodology of Crevice Corrosion Testing for Stainless Steels in Natural and Treated Sea Waters	15-Feb-10	01-Mar-10	17-Mar-10	31-Mar-10	24-May-10

Manuscript title	1st proofs to PE and PM	Corrected proofs back from PM	Revises to be sent to editors	Corrections due from editors	Copies to be mailed
EFC 61 Inter-Laboratory Study on Electrochemical Methods for the Characterisation of CoCrMo Biomedical Alloys in Simulated Body Fluids	19-Mar-10	26-Mar-10	06-Apr-10	20-Apr-10	10-Jun-10

This schedule allowed between one and two weeks for the Scientific Secretary to correct the first proofs and return them to Maney. In three out of the four cases the specified deadlines were met, as follows:

Manuscript	Deadline for Correction of the First Proofs by PM	Actual Date of Return of Corrected Proofs to Maney
EFC 60 Methodology of Crevice Corrosion Testing for Stainless Steels in Natural and Treated Sea Waters	1 March 2010	25 February 2010
EFC 56 Corrosion Monitoring in Nuclear Systems: Research and Applications	15 March 2010	11 March 2010
EFC 61 Inter-Laboratory Study on Electrochemical Methods for the Characterisation of CoCrMo Biomedical Alloy in Simulated Body Fluids	26 March 2010	25 March 2010
EFC 58 Self-Healing Properties of New Surface Treatments	13 April 2010	5 May 2010

The reason for the late return on EFC 58 to Maney was that the Scientific Secretary was stranded in Shanghai, together with the manuscript of the book, by the volcanic eruption in Iceland until early May.

An enquiry about progress to the Production Editor on 12 July provided confirmation that all four of the above books would be published in time for EUROCORR 2010. EFC 56 and EFC 60 had been sent to press and were due to be printed by the end of July. The other two books were to be printed as soon as agreement was obtained that EFC would bear the cost of essential colour plates, in accordance with the current Publishing Agreement between EFC and Maney. However, since then, Maney has found that one chapter of EFC 58 has already been published elsewhere, meaning that the book cannot be published until explicit consent to do so has been obtained from Elsevier. Michael Gallico has requested that the authors of contributions to EFC books should be told not to submit their manuscripts to scientific journals.

Other books still in preparation include:

EFC 17 (3rd Edition) “Corrosion Resistant Alloys for Oil and Gas Production: Guidance on General Requirements and Test Methods for H₂S Service”, edited by C. Fowler of WP13 on Corrosion in Oil and Gas Production. (Manuscript not yet received).

EFC 57 “Protective Systems for High Temperature Applications: From Theory to Industrial Implementation”, edited by M. Schütze and W. J. Quadackers of WP3 on Corrosion by Hot Gases and Combustion Products. (Editing of final proofs has been delayed by the Scientific Secretary’s illness).

EFC 59 “Sulphur-Assisted Corrosion in Nuclear Disposal Systems”, edited by F. Druyts on behalf of WP4 on Nuclear Corrosion. (Manuscript not yet submitted).

Anticipated future publications (EFC Numbers not yet allocated) include:

"The Corrosion Performance of Metals for the Marine Environment - A Basic Guide", proposed by Ulf Kivisäkk of WP13 on Marine Corrosion as a joint EFC/NACE publication under EFC lead.

“Testing Tribocorrosion for supporting Innovation, Research and Industrial Implementation” proposed by J.P. Celis and P. Ponthiaux of WP18 on Tribocorrosion.

EFC Calendar of Forthcoming Events

13-17 September 2010 Moscow Russia	EUROCORR 2010 (EFC Event No. 324)	Andrea Köhl DECHEMA e.V., EUROCORR Congress Office, Theodor-Heuss-Allee 25 60486 Frankfurt am Main, Germany Fax: ++49 69 75 64 299 E-mail: koehl@dechema.de Website: www.eurocorr.org
16-18 September 2010 Cluj-Napoca Romania	5th National Conference with International Participation "Corrosion and Anticorrosion Protection"	S. C. BETAK S.A. 4, Industrial Street, Cod 420063 Bistrița, Romania Fax: ++40 263 234 312 E-mail: betak@betak.ro Website: www.betak.ro
19-22 September Abu Dhabi United Arab Emirates	5th Annual Corrosion Management Summit	Olivia Modisakeng International Quality and Productivity Centre (IQPC) FZ LLC, Block 11, Office #111, Knowledge Village, Dubai, United Arab Emirates Fax: +971 4 363 1938 E-mail: enquiry@iqpc.ae Website: www.corrosionmanagementme.com/Event.aspx?id=326074
19-24 September 2010 Orlando FL USA	NACE Corrosion Technology Week 2010	CaLea McDermott, NACE Headquarters 1440 South Creek Drive Houston, Texas 77084-4906 USA Fax: +1 281-228-6300 E-mail: calea.mcdermott@nace.org Website: www.nace.org
21-24 September 2010 Cannes Mandelieu France	EMNT 2010 - 8th International Symposium on Electrochemical Micro & Nanosystem Technologies (EFC Event No. 341)	Michel Pierre CEFRACOR, Centre Francais de l'Anticorrosion 28 rue Saint-Dominique F-75007 Paris, France Fax: 0033 1 45 55 90 74 E-mail: info@cefracor.org Website: www.cefracor.org
23-26 September 2010 Goa India	CORCON 2010 - East Asia Pacific Area Section Corrosion Conference and Expo	NACE International Gateway India 305-A Galleria, Hiranandani Gardens Powai, Mumbai - 400076 India Fax: +91 22 66921572 E-mail: info@corcon.org Website: corcon.org
26 September - Electrochemistry 1 October 2010 Nice France	61st Annual Meeting of the ISE "Electrochemistry from Biology to Physics"	International Society of Rue de Sébeillon 9b, CH-1004 Lausanne Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: http://event10.ise-online.org

3-5 October 2010 Orlando, Florida (ITA) USA	Titanium 2010 - 26 th Annual Conference and Exhibition of the International Titanium Association	Jennifer Simpson International Titanium Association 2655 West Midway Blvd., Suite 300. Broomfield, CO 80020-7186 USA Fax: ++1 303 404 9111 E-mail: conference@titanium.org Website: www.titanium.org
10-15 October 2010 Las Vegas, Nevada USA USA	218 th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, Fax: ++1 609 737 2743 E-mail: ecs@electrochem.org Website: www.electrochem.org/meetings
12-14 October 2010 Stuttgart Germany	COROSAVE - Trade fair for Corrosion Protection, Preservation and Packaging	Hartmut Herdin fairXperts GmbH Hauptstraße 7, 72 639 Neuffen , Germany Fax: +49 (0) 7025 / 84 34-20 E - mail: info@fairXperts.de Website: www.corosave.com
18-22 October 2010 Nantes France	MATÉRIAUX 2010	Secrétariat des Congrès / Matériaux 2010 28, rue Saint-Dominique, 75007 Paris France Fax: ++33 (0)145 55 40 33 E-mail: materiaux@materiaux2010.net Website: www.materiaux2010.net
21-22 October 2010 Bath UK	Systems Engineering in Ship & Offshore Design Sustainability	The Conference Department, RINA The Royal Institution of Naval Architects 10 Upper Belgrave Street London SW1X 8BQ, UK Fax: ++44 (0)20 7259 5912 E-mail: conference@rina.org.uk Website: www.rina.org.uk/events
7-10 November 2010 Toronto Canada	AMP 2010 - International Workshop on “Ageing Management of Nuclear Plants and Waste Disposal Structures” (EFC Event No. 334)	Dr. Valérie L’Hostis CEA-Saclay, Bât 158, PC2 91 191 Gif-sur-Yvette, France Fax: ++33 16908 8441 E-mail: valerie.lhostis@cea.fr Website: www.amp2010toronto.com
8-10 November 2010 São Paulo Brazil	Practical Solutions for Wear and Corrosion A joint symposium from the ASM Thermal Spray Society and NACE International	ASM Member Services 9639 Kinsman Road Materials Park, Ohio 44073-0002, USA Fax: +1 440 338 4634 E-mail: memberservicecenter@asminternational.org Website: asmcommunity.asminternational.org/ content/Events/corrosionwear/contact.jsp
14-17 November 2010 Victoria 3129 Australia	Corrosion & Prevention 2010	Wesley Fawaz Suite 1, 458 Middleborough Road Blackburn, Victoria 3130, Australia Fax: +61 3 9890 7866 E-mail: conference@corrosion.com.au Website: www.corrosion.com.au

24-26 November 2010 Poraj Poland	15 th Corrosion Symposium “New Achievements in Corrosion Research and Engineering” (EFC Event No. 338)	Professor Henryk Bala Department of Chemistry, Częstochowa University of Technology Częstochowa, Poland 42-200 Fax: ++483 4325 0602 E-mail: hbala@mim.pcz.czest.pl Website: www.symp-kor-apcs.wip.pcz.pl
30 November 2010 - 2 December 2010 Manager Düsseldorf Germany	Valve World 2010 Conference and Exhibition	Elisa Hannan Corporate Events & Events Marketing Valve World Conference & Exhibition 2010 PO Box 396, NL-7200 AJ Zutphen The Netherlands Fax: ++31 575 511 099 E-mail: e.hannan@kci-world.com Website: www.valve-world.net
14-16 December 2010 Alexandria Egypt	Egyptian Corrosion Society 29 th Annual Conference on “Corrosion Mitigation and Surface Protection Technologies”	Dr. Nabil Abdel Ghany Physical Chemistry Department National Research Centre (NRC) El-Behoos St., Dokki 12622, Cairo, Egypt Fax: +202 333 70931 E-mail: na_manakhly@yahoo.co.uk Website: www.egyccorr.org
13-17 March 2011 Houston, Texas USA	CORROSION 2011/NACE Conference and Exhibition	Jackie Hune, NACE Headquarters 1440 South Creek Drive Houston, Texas 77084-4906 USA Fax: +1 281-228-6300 E-mail: firstservice@nace.org Website: www.nace.org
13-16 April 2011 Mons (Hainaut) Belgium	7 th AETOC “Application of Electrochemical Techniques to Organic Coatings” (EFC Event No. 335)	Prof. Marie-Georges Olivier Department of Materials Science University of Mons (UMONS) Rue de l'Épargne, 56 7000 Mons, Belgium Fax: +32 6537 4416 E-mail: marjorie.olivier@fpms.ac.be Website: www.fpms.ac.be
1-6 May 2011 Montreal Canada USA	219 th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, Fax: ++1 609 737 2743 E-mail: ecs@electrochem.org Website: www.electrochem.org/meetings
9-11 May 2011 Turku Finland	9 th Spring Meeting of the International Society of Electrochemistry “Electrochemical Sensors from Nanoscale Engineering to Industrial Applications”	International Society of Electrochemistry Rue de Sébeillon 9b, CH-1004 Lausanne Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: www.ise-online.org

21-23 June 2011 Aix-en-Provence France	5 th Seminar on Cathodic Protection and Associated Coatings (EFC Event No. 336)	Michel Pierre CEFRACOR, Centre Francais de l'Anticorrosion 28 rue Saint-Dominique F-75007 Paris FRANCE Fax: 0033 1 45 55 90 74 E-mail: info@cefracor.org Website: www.cefracor.org
5-8 September 2011 Stockholm Sweden	EUROCORR 2011 (EFC Event No. 325)	Andrea Köhl DECHEMA e.V., EUROCORR Congress Office, Theodor-Heuss-Allee 25 60486 Frankfurt am Main Germany Fax: ++49 E-mail: koehl@dechema.de Website: www.efcweb.org/Events
11-16 September 2011 "Electrochemical Niigata Japan France	International Society of Electrochemistry Frontier for Global Environment and Energy	62 nd Annual Meeting of the ISE Rue de Sébeillon 9b, CH-1004 Lausanne, Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: www.ise-online.org
9-14 October 2011 Boston, MA USA USA	220 th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, Fax: ++1 609 737 2743 E-mail: ecs@electrochem.org Website: www.electrochem.org/meetings
18-22 September 2011 Headquarters Las Vegas, NV USA	NACE Corrosion Technology Week 2010	CaLea McDermott, NACE 1440 South Creek Drive Houston, Texas 77084-4906 USA Fax: +1 281-228-6300 E-mail: calea.mcdermott@nace.org Website: www.nace.org
20-24 November 2011 Perth Australia	18 th International Corrosion Congress ICC	18 th ICC Congress Secretariat c/o Australasian Corrosion Association Suite 1, 458 Middleborough Road, Blackburn, Victoria 3130, Australia Fax: +61 3 9890 7866 E-mail: conference@corrosion.com.au Website: www.18iccpert2011.com
11-15 March 2012 Salt Lake City, UT USA	CORROSION 2012/NACE Conference and Exposition	Jackie Hune, NACE Headquarters 1440 South Creek Drive Houston, Texas 77084-4906 USA Fax: +1 281-228-6300 E-mail: firstservice@nace.org Website: www.nace.org

16-19 April 2012 Perth Australia	10 th Spring Meeting of the International Society of Electrochemistry	International Society of Electrochemistry Rue de Sébeillon 9b, CH-1004 Lausanne Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: www.ise-online.org
6-11 May 2012 Seattle, Washington USA USA	221 st ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, Fax: ++1 609 737 2743 E-mail: ecs@electrochem.org Website: www.electrochem.org/meetings
20-25 May 2012 Les Embiez Island Var France France	High-Temperature Corrosion and Protection of Metals - HTCPM (EFC Event No. 342)	Dr. Daniel Monceau Institut Camot CIRIMAT ENSIACET 4, allée Emile Monso BP-44362, 31432 Toulouse Cedex 4, Tel. +33 5 34 32 34 22 E-mail: daniel.monceau@enciacet.fr
23-25 May 2012 Washington DC USA	11 th Spring Meeting of the International Society of Electrochemistry	International Society of Electrochemistry Rue de Sébeillon 9b, CH-1004 Lausanne Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: www.ise-online.org
2-7 September 2012 Electrochemistry Prague Czech Republic	63 rd Annual Meeting of the ISE	International Society of Rue de Sébeillon 9b, CH-1004 Lausanne, Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: www.ise-online.org
9-13 September 2012 Istanbul Turkey	EUROCORR 2012 (EFC Event No. 330)	Prof. Dr. Mustafa Doruk Middle East Technical University Metallurgy and Materials Engineering Department, Room No. B-307 Ankara, TURKEY Fax : + 90 312 210 2518 E-Mail:
korozyon@korozyondernegi.org.tr		
17-21 March 2013 Orlando FL USA	CORROSION 2013/NACE Conference and Exposition	Jackie Hune, NACE Headquarters 1440 South Creek Drive Houston, Texas 77084-4906 USA Fax: +1 281-228-6300 E-mail: firstservice@nace.org Website: www.nace.org

1-5 September 2013 **EUROCORR 2013**
Estoril **(EFC Event No. 343)**
Dept.
Portugal

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Chemical and Biological Engineering

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8-13 September 2013 **64th Annual Meeting of the ISE**
Electrochemistry
Santiago de Querétaro
Mexico

International Society of

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Website: www.ise-online.org

1-6 September 2014 **65th Annual Meeting of the ISE**
Electrochemistry
Lausanne
Switzerland

International Society of

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