

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



BOARD OF ADMINISTRATORS

Estoril, Portugal

September 1st, 2013

WORKING PAPERS

No part of the present text shall be reproduced or passed on to third persons (even in abridged form) without the authorisation of the European Federation of Corrosion.

WORKING PAPERS

Meeting of the Board of Administrators
of the
European Federation of Corrosion
Estoril, Portugal, September 1st, 2013

Venue of meeting: **Estoril Congress Center**
Avenida Amaral
2765-192 Estoril - Portugal
Room D1

Date and time of meeting: **Sunday, September 1st, 2013 - 14h00**

Chairman: **Prof. Lorenzo Fedrizzi (EFC President)**

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

**EUROPEAN FEDERATION OF CORROSION
MEETING OF THE BOARD OF ADMINISTRATORS
ESTORIL, 1st SEPTEMBER 2013, 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 Administrative Matters
 - 3-1 Status of Elections to BoA
 - 3-2 Status of Elections to STAC
 - 3-3 Status of Applications for EFC Membership
 - 3-4 Status on the Nomination of Delegates by the Member Societies in the Working Parties
 - 3-5 Status on the Revision of the EFC Bye-Laws
 - 3-6 Proposal for the Revision of the EFC Medal Rules
 - 3-7 Proposal for the Introduction of “Fellow Honour of the EFC”
- Item 4 Interaction with other Organisations
 - 4-1 EFC/NACE Collaboration
 - 4-2 World Corrosion Organisation
 - 4-3 ICC: Collaborations including possibility of joint Event in 2017
 - 4-4 EFC/ACA Collaboration
- Item 5 EFC Activities and Projects
 - 5-1 Report of the Scientific Secretary
 - 5-2 Report of the Public Relation Officer
 - 5-3 EFC Publications
 - 5-3.1 EFC Book Series
 - 5-3.2 EFC Electronic Newsletter
 - 5-3.3 EFC Newsletter
 - 5-3.4 Progress with items/articles for the Publication in the three EFC Journals
 - 5-3.5 Status on the other Partner Journals
 - 5-4 EFC Website, including the Progress on the use of the EFC Restricted Areas by the member Societies
- Item 6 Finance
 - 6-1 Honorary Treasurer’s Report
 - 6-2 EFC Subscription Fees for 2014
- Item 7 EUROCORR Series: 2013 to 2017
 - 7-1 EUROCORR 2013, Estoril (Portugal) - Report
 - 7-2 EUROCORR 2014, Pisa (Italy) - Progress with Arrangements
 - 7-3 EUROCORR 2015, Graz (Austria) - Report on Preliminary Arrangements
 - 7-4 EUROCORR 2016 - Initial Progress Report
 - 7-5 EUROCORR 2017 - Call for Bids
 - 7-6 Progress on Exhibition Advisory Board
- Item 8 EFC Events and Calendar of Events
- Item 9 Any other Business
- Item 10 Date and Place of next BoA

WORKING PAPERS OF THE EFC BOARD OF ADMINISTRATORS

Item 01 Opening of the meeting

Prof. Lorenzo Fedrizzi, President of the EFC and 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 Lisbon meeting (26 March 2013) 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 of the STAC.

Item 3 Administrative Matters

3-1 Status of Elections to BoA

It is reminded that the Board of Administrators (BoA) is constituted of twelve members as follows:

- one member representing each of the General Secretariat offices (France, Germany and UK);
- one from the country of registration in law of the EFC (Belgium);
- three representing Member Societies drawn from European Members in countries other than the four administrators referred to above;
- five drawn from the EFC members at large i.e. European and International Members.

The Frankfurt Office has solicited nominations for election of the new BoA from the Member Societies. At the date of writing the present Working Papers, the responses received 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	:	Representative to be announced later (Founder Member country)

Nominated by European Member Societies:

ASMET (Austria)	: Prof. Dr. Gregor MORI (proposed for re-election)
AKI (Czech Republic)	: Dr. Tomas PROSEK (proposed for election)
GfKORR (Germany)	: Dr. Jörg VOGELSANG (proposed for election)
AIM (Italy)	: Prof. Dr. Luciano LAZZARI (proposed for election)
SPM (Portugal)	: Dr. João Salvador FERNANDES (proposed for election)
Corrosion Association (Turkey)	: Prof. Dr. Ali Fuat ÇAKIR (proposed for re-election)

Nominated by International Member Societies:

NACE Europe (USA)	: Mr. Sam McFARLAND (proposed for re-election)
-------------------	--

The BoA consists of a President and Vice-President as the most powerful executives of the EFC, the Immediate Past President and twelve administrators, all with full voting rights, including the representatives from the four nominated administrators occupy four of the twelve positions.

The BoA will be requested to submit the nominations to the General Assembly (GA) for approval.

The GA will be invited to elect up to eight individuals who have been proposed for election or re-election.

The CVs of the nominated persons received at the date of writing the present Working Papers are provided in **Appendices 1 – 7**.

3-2 Status of Elections to STAC

The Frankfurt Office has solicited nominations for STAC from the Members Societies. At the date of writing the present Working Papers, the responses received are as follows:

CEFRACOR (France)	: Mr. Marcel ROCHE (proposed for election)
GfKORR (Germany)	: Prof. Dr.-Ing. Ralf FESER (proposed for election)
SPM (Portugal)	: Associate Prof. Dr. Alda SIMÕES (proposed for re-election)
Corrosion Association (Turkey)	: Prof. Tunç TÜKEN (proposed for election)

Nominated by International Member Societies:

NACE Europe (USA)	: Prof. Dr. Thomas LADWEIN (proposed for election)
-------------------	--

The BoA will be requested to submit the nominations to the GA for approval. The maximum number of elected representatives to the STAC is 6. The GA will be invited to elect up to six representatives of the individuals who have been proposed for election or re-election.

The CVs of the nominated persons received at the date of writing the present Working Papers are provided in **Appendices 8 - 11**.

It is reminded that the STAC also includes all the Working Party Chairmen as full members with voting rights.

3-3 Status of Applications for EFC Membership

The Frankfurt Office will report on progress of the action on clarification of the situation of the two Serbian Societies, the Serbian Society of Corrosion and Materials Protection (UISKoZaM) and her daughter organisation, the Engineering Society of Corrosion (ESC), both emanating from the former Yugoslavian EFC Member Societies.

The Frankfurt Office will also report on the application of new members.

3-4 *Status on the Nomination of Delegates by the Member Societies in the Working Parties*

The Frankfurt Office will report on the answers received from the Member Societies further to the mails sent in November 2012 and summer 2013.

3-5 *Revision of the EFC Bye-Laws*

Further to the last revision of the Bye-Laws approved without modification by the BoA in Lisbon (see Appendix 1 of Lisbon BoA Working Papers), some minor modifications have been proposed by the Frankfurt Office. This new version will be presented to the General Assembly (GA) for approval subject to the BoA recommendation after an e-mail voting process during summer.

3-6 *Proposal for the Revision of the EFC Medal Rules*

During the last BoA Meeting, it has been proposed to modify the rules of the EFC Medal as follows:

- To accept BoA Members as applicants provided they are not belonging to the jury;
- To attribute the EFC Medal every year instead of every 2 years.

The BoA will be requested to approve the proposal of the STAC, to be taken during its meeting to be held on September 1st, 2013 in Estoril, see in **Appendix 12** the proposed revised version.

The GA will be informed of the BoA decision.

3-7 *Proposal for the Introduction of “Fellow Honour of the EFC”*

During the last BoA Meeting, it has been proposed to introduce a new EFC Award named “Fellow Honour of the EFC” in recognition of persons who served EFC during several years before leaving their position (WP Chairs mainly, but also elected members of the STAC or of the BoA for instance).

The BoA will be asked to approve this new Award and the rules proposed by the STAC, see **Appendix 13**.

The GA will be informed of the BoA decision.

Item 4 *Interaction with other Organisations*

4-1 *EFC/NACE Collaboration*

A meeting between EFC and NACE took place in Orlando on March 20, 2013, during The NACE CORROSION Conference. **Appendix 14** provides the minutes of this meeting.

The EFC President, Prof. Lorenzo Fedrizzi, will report on progress of the organisation of the joint workshop on CUI (Corrosion Under Insulation) “Bring On The Heat” (BOTH) to be held in 14 and 15 November 2013 at the Dechema House in Frankfurt (see

Appendix 15). It is reminded that the Working Party 15, Corrosion in the Refinery Industry, is involved in this EFC event n° 370 co-organised by Dechema and GfKORR on behalf of EFC and NACE International.

Prof. Philippe Marcus will report on the progress of the revised version of the Memorandum of Understanding (MoU) between EFC and NACE. The BoA will be requested to approve the final MoU (if ready) for presentation to the GA.

The EFC STAC Chairman, Dr. Damien Féron, will report on the progress concerning the Memorandum of Understanding concerning the collaboration between NACE and EFC for writing Corrosion and Coatings Standards on behalf of NATO.

4-2 *World Corrosion Organisation*

Prof. Michael Schütze will be invited to present the progress on EFC/WCO collaboration.

4-3 *ICC: Collaborations including possibility of joint Event in 2017*

The EFC President, Prof. Lorenzo Fedrizzi, will report on progress on collaboration between ICC and EFC, especially concerning the possible organization of a joint ICC Conference and EUROCORR in 2017. BoA members are reminded that during the last Lisbon BoA Meeting, the EFC President, Prof. Lorenzo Fedrizzi, has proposed to invite the ICC representatives next March 2014 to involve them at the selection of EUROCORR 2017.

4-4 *EFC/ACA Collaboration*

The EFC President, Prof. Lorenzo Fedrizzi, will report on progress of the relations between EFC and Australasian Corrosion Association (ACA).

It is reminded that ACA has proposed to provide grants to lecturers from EFC Working Parties to visit Australia and give lectures. Dr. Damien FERON, STAC Chairman, will report on the selection by the STAC of ACA guest lecturer(s) together with the topics proposed by the EFC WP Chairmen.

Item 5 EFC Activities and Projects

5-1 *Report of the Scientific Secretary*

The report of the Scientific Secretary, Dr. Roman Bender, is presented in **Appendix 16**.

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

5-2 *Report of the Public Relation Officer*

The report of the Public Relation Officer, Mrs. Juliet Ippolito, is presented in **Appendix 17**.

The BoA will be invited to approve the Public Relation Officer Report.

5-3 EFC Publications

5-3.1 EFC Book Series

The EFC STAC Chairman, Dr. Damien Féron, will report on the progress in the preparation of the EFC Book Series.

He will also report on the progress with the agreement between Woodhead and Maney concerning the sale of the existing Green Books.

It has to be noted that the Australasian Corrosion Association (ACA) is no more interested in distributing the Green Books in Australia.

The Frankfurt Office will report on the progress concerning the announcement of the new publisher (Woodhead) on the EFC website.

Further to the BoA agreement given last March in Lisbon, the Scientific Secretary, Dr. Roman Bender, will report on the progress of the publication in Croatian by the Croatian Society for Materials Protection of the Green Book n° 63 on "The corrosion performance of metals for the marine environment: a basic guide".

5-3.2 EFC Electronic Newsletter

An EFC e-Newsletter has been circulated for the occasion of the WCO Corrosion Awareness Day on 24 April 2013, an initiative of the WCO (see **Appendix 18**).

5-3.3 EFC Newsletter

The hardcopy Newsletter N° 21 will have been prepared by Mrs. Juliet Ippolito for distribution on the occasion of EUROCORR 2013.

5-3.4 Progress with items/articles for the Publication in the three EFC Journals

It is reminded that the last Lisbon BoA requested the Scientific Secretary to provide periodically the three EFC Journals, "Materials and Corrosion", "Corrosion Engineering, Science and Technology (CST)" and "Matériaux et Techniques" with the same information coming from EFC Working Parties activities collected by systematic contacts with the Working Party Chairmen.

Dr. Roman Bender will report on progress regarding this action.

5-3.5 Status on the other Partner Journals

During the June President Advisory Committee Meeting (PACM), an action was placed on the PRO, Mrs Juliet Ippolito to contact the EFC Member Societies to ask them to propose journals which could become EFC Partner Journals on the basis of the report of the EFC President, Prof. Lorenzo Fedrizzi already given as Appendix 1 of the minutes of the Lisbon March 2013 BoA meeting.

Mrs. Juliet Ippolito will report on progress regarding this action.

5-4 EFC Website, including the Progress on the use of the EFC Restricted Areas by the Member Societies

The BoA members are reminded of the login and new password, which allows them direct access to the BoA restricted area of the website:

Login: efc-boa
Password: Istanbul12

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

An action has been placed on the PRO to check the current situation of the use by the EFC Member Societies of a restricted area on their website having a link with the EFC Website restricted area and to encourage those who have not yet implemented this possibility to do it.

The PRO will report on the progress regarding this action.

The STAC Chairman will report on the use of a restricted area on the Working Parties web pages.

Item 6 Finance

6-1 Honorary Treasurer's Report

The Honorary Treasurer, Mr. Ray Milbank, will present the EFC Financial Report (see **Appendix 19**), including the situation of the EFC Membership Fee arrears.

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

An action was placed on the EFC President to send a letter asking unpaid Members to clarify their membership status by either paying their overdue membership fees or withdraw from EFC member. The EFC President will report on this action.

6-2 EFC Subscription Fees for 2014

During the spring PAC Meeting, it has been decided to propose to the BoA to formally adopt the subscription fees for the year 2014 (in accordance with the current Strategic Plan 2009 – 2013) for recommendation to the GA.

Item 7 EUROCORR Series: 2013 to 2017

7-1 EUROCORR 2013 - Estoril (Portugal) - Report

A report on the preliminary results of **EUROCORR 2013** in **Estoril** will be presented.

Appendix 20 provides the EUROCORR Report Form I.

7-2 EUROCORR 2014 - Pisa (Italy) - Progress with Arrangements

EUROCORR 2014 will be held on **8 - 12 September 2014** in Pisa, Italy, at the Palazzo dei Congressi. The general theme will be **"Improving Materials Durability: from Cultural Heritage to Industrial Applications"**.

The organisers will report on the preliminary arrangements for EUROCORR 2014.

7-3 *EUROCORR 2015 - Graz (Austria) - Report on Preliminary Arrangements*

EUROCORR 2015 will be held on **6 - 10 of September 2015** at the Congress Center in **Graz, Austria**. The general theme will be “**Earth, Fire, Water, Air, Corrosion happens everywhere**”.

The organisers will report on the initial progress for EUROCORR 2015.

7-4 *EUROCORR 2016 - Montpellier (France) - Initial Progress Report*

EUROCORR 2016 will be held on **11 - 15 September 2016** in **Montpellier, France**. The general theme will be “**Advances in Linking Science and Engineering**”.

The organisers will report on the initial progress for EUROCORR 2016.

7-5 *EUROCORR 2017 - Call for Bids*

Members are reminded that bids to host **EUROCORR 2017** should be submitted in writing to the Frankfurt Office **by 15 January 2014** with a copy to the Scientific Secretary and the Paris Office.

7-6 *Progress on Exhibition Advisory Board*

BoA Members are reminded that Mr. Don Harrop has accepted to chair the “EUROCORR Exhibition Advisory Board”. During the last PACM, an action was placed on Mr. Don Harrop to identify and to invite some persons to join him in a Task Force on Exhibition with one member of the STAC, one member of the BoA, one representative of the DECHEMA and one exhibitor. Mr. Don Harrop will report on progress of this action.

Item 8 *EFC Events and Calendar of Events*

Appendix 21 provides an update of forthcoming events in the EFC Calendar prepared by the Scientific Secretary.

BoA Members are reminded that the Calendar of Events is regularly updated on the EFC website by Dechema and also includes non EFC-sponsored events in an attempt to draw outside interest to the EFC as a central source of information on corrosion events throughout the world.

An application form is available in the restricted area for the BoA Members to apply for an EFC Event Number.

Item 9 *Any other Business*

Members are invited to raise any other matters.

Item 10 *Date and Place of next BoA*

The next BoA meeting will be held in Spring 2014, at a time and place to be announced at a later date.

APPENDICES

CV of Prof. Dipl.-Ing. Dr.mont. Gregor MORI (Nominated for re-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. Tomas PROSEK (Nominated for election to the BoA)

CURRICULUM VITAE

Tomas PROSEK

Born August 5th, 1973 in Jilemnice, Czech Republic

Affiliation: Institut de la Corrosion / French Corrosion Institute
220 rue Pierre Rivoalon, 292 00 Brest, France

Phone: +33 630 614 808 Fax: +33 298 050 894

E-mail: tomas.prosek@institut-corrosion.fr, prosekt@seznam.cz

EDUCATION

1996–2001:

Ph. D. study, Department of Metals and Corrosion Engineering, Institute of Chemical Technology (VŠCHT) Prague, Czech Republic; thesis *Influence of heat transfer on localized corrosion of stainless steel*

1991–1996:

M. Sc. study, Department of Metals and Corrosion Engineering, Institute of Chemical Technology (VŠCHT) Prague, Czech Republic; thesis *Conversion of ammonium aluminate to ammonium sulphate*

EXPERIENCE

2007–present:

Institut de la Corrosion / French Corrosion Institute, Brest, France;
Research & Development Leader: Building and Infrastructure

- Team leader
- Responsibility for project acquisition and execution in field of infrastructure, construction, and building industry with main focus on coil-coated materials and stainless steels
- Acquisition and coordination of European projects (6th FP, 7th FP, RFCS)
- Secretary of Member Research Consortium *Corrosion protection of coil-coated materials* (grouping of 15 steel makers and suppliers)

2004–2007:

Institut de la Corrosion / French Corrosion Institute, Brest, France;
Senior Researcher and Project Leader

- Corrosion protection of coil-coated materials
- Development of novel zinc-based protective coatings
- Corrosion monitoring in the atmosphere, development of corrosion sensors
- Accelerated corrosion testing and testing under natural weathering conditions
- Irregular forms of corrosion of stainless steel in the atmosphere

2003–2004:

Department of Metals and Corrosion Engineering, Institute of Chemical Technology (VŠCHT) Prague, Czech Republic; *Lecturer*

- Corrosion and corrosion engineering with a focus on atmospheric corrosion and protection with organic coatings

CV of Dr. Tomas PROSEK (Nominated for election to the BoA) (Continued)

2001–2003:

Swedish Corrosion Institute (currently Swerea KIMAB AB), Stockholm, Sweden;
Guest Researcher

- Chromate inhibiting mechanism under conditions of atmospheric corrosion
- Study of mobility of inhibitors in the system coil-coated coating / bare metal

1999–2001:

Department of Metals and Corrosion Engineering, Institute of Chemical Technology (VŠCHT) Prague, Czech Republic; *Research Fellow*

Participation in projects on:

- Effect of heat flux and surface temperature on irregular forms of corrosion of stainless steels
- Electrochemical noise measurement as a method of corrosion monitoring
- Desalination of waste waters from underground (*in situ*) uranium leaching
- Kinetics study of zinc oxide leaching in sulphuric acid solutions
- Thermodynamics of mercury separation from sulphide, oxide and chloride wastes

Language proficiency

- Czech – Mother language
- English – Advanced knowledge, including reading, writing and speaking (1998: the First Certificate in English [Cambridge] Test)
- French – Intermediate level
- Russian – Basic knowledge

Education training

- Electrochemistry, Electrochemical Engineering and Electrochemical Technology, 5 days, Schools of Chemistry and Engineering Sciences, University of Southampton, UK, 2010
- Time management of IV. Generation, 5 days, Pragoeduca, Prague, 2008
- Leadership, 3 days, EDCONSIA Prague, 2007
- Presentation skills, 2 days, Positive Prague, 2006

Honors

- Kurt Schwabe Prize for year 2006 awarded by European Federation of Corrosion (EFC) in recognition of the scientific and technical contribution to the field of corrosion
- The Czech Business Council for Sustainable Development Award for year 1996 (Conversion of ammonium aluminium sulphate to aluminium sulphate)
- Award of EnviOptimum Foundation for 1996 (the same work)

Recent key projects

- Duplex stainless steel in storage tanks, DUPLEXTANK, RFS-PR-08038, Research Fund for Coal and Steel, 09/2009–12/2012: *Coordinator*
- Protection of cultural heritage by real-time corrosion monitoring, MUSECORR, Grant agreement No. 226539, Seventh Framework Programme, Collaborative Project, Theme 6: Environment, 06/2009–07/2012: *Deputy coordinator*

CV of Dr. Tomas PROSEK (Nominated for election to the BoA) (Continued)

- Automated corrosion sensors as on-line real time process control tools, CORRLOG, Contract No. 018207, Sixth Framework Programme, Horizontal research activities involving SMEs, Co-operative research project, 09/2005–02/2008: *Deputy coordinator*
- Outdoor performance of Zn-Mg(-Al) coatings for building applications as a function of corrosivity, MG COATINGS, Institut de la Corrosion, industry funding, 01/2006–12/2012: *Coordinator*
- Long-term durability of functional coil coated materials, DURAFUN, Institut de la Corrosion, industry funding, 01/2007–12/2013: *Coordinator*
- New zinc-based automotive steel protection technologies, Research Programme of International Zinc Association (IZA) ZCO-45-6, 06/2011–05/2014: *Key investigator*
- Optimal application conditions for zinc-based coating materials, OPTIZAM, Institut de la Corrosion, industry funding, 01/2012–12/2014: *Coordinator*
- Lifetime prediction and accelerated test development for easy to clean functional coil coatings, PREDICLEAN, Institut de la Corrosion, industry funding, 01/2011–12/2013: *Coordinator*

Other activities

- Editor-in-chief of *Koroze and ochrana materiálu*, January 2011–present
- Reviewer of *Corrosion Science* and *Progress in Organic Coatings*
- Grant proposal reviewer of *Knowledge Foundation / KK-stiftelsen*, Sweden
- Grant proposal reviewer of *The Czech Science Foundation (GAČR)*, Czech Republic
- Thesis reviewer, *Institute of Chemical Technology (VŠCHT)* Prague, Czech Republic
- Member of *The Electrochemical Society*, November 2002–present
- Member of *NACE*, November 2007–present
- Member of *International Society of Electrochemistry*, January 2013–present

Chosen publications in English

- Prosek T., Kouril M., Dubus M., Taube M., Hubert V., Scheffel B., Degres Y., Jouannic M., Thierry D.: Real-time monitoring of indoor air corrosivity in cultural heritage institutions with metallic electrical resistance sensors, *Studies in Conservation* 58, 117–128, 2013
- Prosek T., Le Bozec N., Thierry D.: Application of automated corrosion sensors for monitoring the rate of corrosion during accelerated corrosion tests, *Materials and Corrosion*, available online: 11 July 2012
- Prosek T., Nazarov A., Stouil J., Thierry D.: Evaluation of the tendency of coil-coated materials to blistering: Field exposure, accelerated tests and electrochemical measurements, *Corrosion Science* 61, 92–100, 2012
- Dubus M., Kouril M., Nguyen T.-P., Prosek T., Saheb M., Tate J.: Monitoring copper and silver corrosion in different museum environments by electrical resistance measurement, *Studies in Conservation* 55 (2), 121–133, 2010
- Prosek T., Nazarov A., Olivier M.-G., Vandemiers C., Koberg D., Thierry D.: The role of stress and topcoat properties in blistering of coil-coated materials, *Progress in Organic Coatings* 68, 328–333, 2010
- Prosek T., Larché N., Vlot M., Goodwin F., Thierry D.: Corrosion performance of Zn–Al–Mg coatings in open and confined zones in conditions simulating automotive applications, *Materials and Corrosion* 60, 412–420, 2010

CV of Dr. Tomas PROSEK (Nominated for election to the BoA) (Continued)

- Prosek T., Iversen A., Taxén C., Thierry D.: Low Temperature Stress Corrosion Cracking of Stainless Steels in the Atmosphere in Presence of Chloride Deposits, *Corrosion* 65 (2), 105–117, 2009
- Nazarov A., Prosek T., Thierry D.: Application of EIS and SKP for study of metal/polymer interface, *Electrochimica Acta* 53 (25), 7531–7538, 2008
- Prosek T., Nazarov A., Bexell U., Thierry D., Serak J.: Corrosion mechanism of model zinc-magnesium alloys in atmospheric conditions, *Corrosion Science* 50 (8), 2216–2231, 2008
- Prosek T., Kounil M., Hilbert L. R., Degres Y., Blazek V., Thierry D., Hansen M. Ø.: Real time corrosion monitoring in the atmosphere using automated battery driven corrosion loggers, *Corrosion Engineering, Science and Technology* 43 (2), 129–133, 2008
- Prosek T., Thierry D., Taxén C., Maixner J.: Effect of Cations on Corrosion of Zinc and Carbon Steel Covered with Chloride Deposits under Atmospheric Conditions, *Corrosion Science* 49 (6), 2676–2693, 2007
- Prosek T., Thierry D., Olsson M., Bexell U.: The Effect of Chloride to Chromate Ratio on the Protective Action of Zinc Surface Films under Atmospheric Weathering Conditions, *Corrosion* 63 (3), 258–267, 2007
- Nazarov A., Thierry D., Prosek T., Le Bozec N.: Protective Action of Vanadate at Defected Areas of Organic Coatings on Zinc, *Journal of Electrochemical Society* 152 (7), B220–B227, 2005
- Prosek T., Thierry D.: Mobility and mode of inhibition of chromate at defected areas of organic coatings at atmospheric conditions, *Corrosion* 60 (12), 1122–1133, 2004
- Prosek T., Thierry D.: A model for the release of chromate from organic coatings, *Progress in Organic Coatings* 49 (3), 209–217, 2004
- Prosek T., Novak P.: Initiation and propagation of stainless steel pitting corrosion under heat flux, *Materials and Corrosion* 54 (11), 933–939, 2003
- Prosek T., Novak P.: Irregular corrosion of austenitic stainless steel under heat transfer conditions, *PowerPlant Chemistry* 3 (2), 89–91, 2001
- Jandova J., Prosek T., Maixner J.: Leaching of zinc oxide in aqueous sulphuric acid solutions, *Acta Metallurgica Slovaca* 5 (3), 172–183, 1999
- Hostomsky J., Pedlik M., Benes V., Prosek T.: Desalination of mine waters from in situ uranium leaching: the ammonium alum-ammonium alunite process, *Acta Universitatis Carolinae Geologica* 43 (3), 565–569, 1999

REFERENCES

Available upon request

CV of Dr. Jörg VOGELSANG (Nominated for election to the BoA)

CV

Jörg A. Vogelsang, Dr. rer. nat., Dipl. Chem.

Sika Technology AG

Tüffenwies 16

CH-8048 Zürich

Tel: +41-44-436-5443

vogelsang.joerg_a@ch.sika.com

private:

Lärchenweg 1

D-77886 Lauf

Tel: +49-7841-508860 (Q)

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 (Nominated for election to the BoA) (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 Elected as Chairman of ISO TC35 SC9
2012	Corporate Head of “Analytics and Testing” of Sika Technology AG

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 Prof. Dr. Luciano LAZZARI (Nominated for election to the BoA)

Curriculum Vitae

Luciano Lazzari

PERSONAL INFORMATION



Luciano Lazzari

Via Mancinelli, 7
20131, Milan, Italy

+ 39 022 399 3194
Mobile +39 348 410 8539
Fax +39 022 399 3180

✉ luciano.lazzari@polimi.it

Sex Male | Date birth 05/04/1948 | Nationality Italian

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR

Elections to EFC BoA and STAC for 2014 - 2016

WORK EXPERIENCE

From 1998 - to

Full Professor in Material Science Engineering at Politecnico di Milano, Department of Chemistry, Material and Chemical Engineering. Presently teaching Corrosion Engineering
Polytechnic of Milan, 7 Mancinelli, 20131, Milan, Italy
Web site: www.polimi.it

Business or sector Corrosion Engineering and Materials Science

From 1986 – to

He joined Cescor originally as Association of professionals and in 1994 as Company, Cescor Srl. Presently he covers the position of President of the Company
Cescor Srl, 12 Maniago, 20134, Milan, Italy
Web site: www.cescor.it

Business or sector Corrosion Engineering. Corrosion prevention and management, including material selection and design, supply of cathodic protection systems and inspections

From 1978 – to 1986

He covered the position of corrosion expert at AGIP SpA in Milan (Agip was the former Italian Oil Company, now ENI E&P). Involved in activities for Material selection and Corrosion prevention for upstream production
San Donato Milanese, Italy

Business or sector Corrosion and Material selection in Oil&gas Industry

From 1972 – to 1978

Assistant professor in the field of corrosion and electrochemistry at Institute of Electrochemistry and Metallurgy (now of Department of Chemistry, Material and Chemical Engineering at Politecnico di Milano)

Business or sector Electrochemistry and Corrosion Science

EDUCATION AND TRAINING

1967 to 1972

Graduated in Chemical Engineering with mention (100/100 cum laude)

Polytechnic of Milan,
32, Leonardo da Vinci, 20133, Milan, Italy

PERSONAL SKILLS

Mother tongue(s)

Italian

CV of Prof. Dr. Luciano LAZZARI (Nominated for re-election to the BoA) Continued

Curriculum Vitae

Luciano Lazzari

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Communication skills • Good communication skill gained through years of experience

Organisational / managerial skills • President of Cescor srl, a company of 25 employees. Head of PoliLaPP (Laboratory of Corrosion "Pietro Pedeferrì") at Politecnico di Milano

ADDITIONAL INFORMATION

- Publications**
- Co-author with P. Pedeferrì of the book Cathodic Protection, PoliPress, Milan, 2006 and with P. Pedeferrì and Marco Ormellese for the Italian Edition, Protezione Catodica, PoliPress, Milan, 2006
 - Author or co-author of: n. 8 Industrial Patent, more than n. 100 papers in Italian and on International publications and conference proceedings
- Conferences**
- Regular participation at the annual EUROCORR EFC Conference since 1999. Member of WP Working Party n. 11 "Corrosion of steel concrete" and WP Working Party n. 16 "Cathodic protection".
- Memberships**
- Italian Engineer Counsel – Industrial Sector - No.14866MI.
 - NACE International, Italia Section, No. 45220.
 - AIM (EFC European Federation of Corrosion affiliated),34/AIM 12/13
 - CIPND CP – Italian Certification on Cathodic Protection,Level 3 - No. 37.

ANNEXES

- List of publications, books and patents

CV of Prof. Dr. Luciano LAZZARI (Nominated for re-election to the BoA) Continued

List of Publications of

LUCIANO LAZZARI

Italian Journals

1. D.Sinigaglia, P.Pedferri, B.Mazza, G.P.Galliani, L.Lazzari (1973), **"Contributo alla conoscenza del comportamento corrosivistico dell'acciaio AISI 304L variamente incrudito"**, Metall. Ital., 65,77,1973.
2. P.Pedferri, L.Lazzari (1977), **"La corrosione per sfregamento"**, Trib. e Lubrificazione, 12, 91, 1977.
3. L.Lazzari (1981), **"Prove di valutazione e di controllo di anodi sacrificali per la protezione catodica in acqua di mare"**, Metall. Ital., 73, 1, p. 23, 1981.
4. L.Lazzari, B.Mazza, P.Pedferri (1982), **"Protezione anodica"**, Tecnologie Chimiche, 2, 12, p.54, 1982.
5. M.L.Bargellini, A.DeSabbata, F.Fontana, A.Mignone, E.Laudato, S.Costantini, C.Scaramuzzi, L.Lazzari (1990), **"RIACE: sistema esperto sulla corrosione"**, Atti del Convegno sulla Corrosione Marina, A.I.M., Genova 21-23/9/1988. Pubblicato su La Metallurgia Italiana, Vol.82, No.3 p.291 (1990).
6. B.Bazzoni, M.Grandi, L.Lazzari (1990), **"Diagnosi e monitoraggio della corrosione delle armature nelle grandi opere in cemento armato"**, Giornata di Studio QUASCO-A.E.I. sulla Corrosione delle Armature del Calcestruzzo, Bologna, 29 Marzo 1989, pubblicato in Ingegneri e Architetti Costruttori, Bologna, Anno XLV, 508, Aprile 1990, pag.197-205.
7. L.Lazzari, P.Pedferri (1990), **"La protezione catodica delle strutture in cemento armato"**, L'Edilizia, Anno 4, No.5 Maggio, Milano, 1990, p.269-280.
8. B.Bazzoni, L.Lazzari, T.Pastore, P.Pedferri, G.Sala (1991), **"Terreno rinforzato con armature resistenti alla corrosione"**, Le Strade, Anno XCIII, No.1278 settembre 1991, p.947-951.
9. M.Berra, L.Lazzari, T.Pastore, P.Pedferri (1991), **"Studio di un sistema esperto sulla corrosione delle armature di strutture marine in cemento armato"**, L'Edilizia, Anno 5, No.11 Novembre, Milano, 1991.
10. L.Lazzari (1992), **"Monitoraggio della protezione catodica e metodi per la localizzazione dei difetti nei rivestimenti delle strutture interrate"**, Atti della Giornata di Studio su "Misure per la difesa dalle corrosioni elettrolitiche", CSFCE-AEI Bologna, 20 Giugno 1991, p.29-49; pubblicato in "Ingegneri e Architetti Costruttori", anno XLVII, 530, giugno 1992(5), pag.388-389.
11. B.Bazzoni, L.Lazzari, T.Pastore, P.Pedferri (1992), **"Tecniche elettrochimiche di diagnosi della corrosione"**, L'Edilizia, Milano, Anno VI, No.11, 1992, pp.645-657.
12. F.Barzaghi, L.Lazzari, T.Pastore (1993), **"Effetti biologici sulla protezione catodica in condizioni anossiche"**, Atti delle Giornate nazionali sulla corrosione e protezione, AIM, Milano 27-28 ottobre 1992, pp.199-208, ripubblicato in La Metallurgia Italiana, vol.85, n.2, 1993.
13. B.Bazzoni, L.Bertolini, F.Bolzon, L.Lazzari, T.Pastore, P.Pedferri (1994), **"Corrosione delle armature di strutture in cemento armato causata da correnti disperse"**, L'industria italiana del Cemento, Roma, Anno, LXIV, No.11, 1994, pag.730-742.
14. L.Bertolini, L.Lazzari, P.Pedferri (1996), **"Fattori che influenzano la corrosione da correnti disperse nel cemento armato"**, L'industria italiana del Cemento, Roma, Anno LXVI, No.4, Aprile, 1996, pag.268-279.
15. D.Condanni, P.Cavassi, B.Bazzoni, L.Lazzari (1996), **"I costi della corrosione nella produzione di olio e gas"**, Manutenzione, Anno 3 No.2, Febbraio 1996, pag.31-34.
16. L.Bertolini, L.Lazzari, P.Pedferri (1996), **"Caratteristiche corrosivistiche dei terreni"**, L'Edilizia, Milano, Anno X, 9/10, 1996, p.62-71.
17. B.Bazzoni, L.Lazzari, L.Bertolini, P.Pedferri, **"Misura del potenziale vero di pipeline in presenza di correnti disperse"**, Manutenzione, Aprile, 1997, p.29-34.
18. P.Pedferri, L.Lazzari, **"Corrosione da correnti disperse"**, Atti Convegno CIFI "Interferenza della corrente di ritorno della trazione ferroviaria sulle grandi strutture sotterranee in cemento armato", Torino, 6 giugno 1996, pubblicato in Ingegneria Ferroviaria, Novembre 1997, p.735-743 (1997).
19. B.Bazzoni, L.Lazzari, **"Progettazione dei sistemi di prevenzione e monitoraggio delle interferenze. Il caso del nodo di Torino"**, Atti Convegno CIFI "Interferenza della corrente di ritorno della trazione ferroviaria sulle grandi strutture sotterranee in cemento armato", Torino, 6 giugno 1996, pubblicato in Ingegneria Ferroviaria, Novembre 1997, p.755-761 (1997).
20. L.Lazzari, **"Valutazione economica e rischio corrosione"**, Pianeta inossidabili, 4, n.3, settembre 1998, p.29-32.
21. M.P. Pedferri, L. Lazzari (2000), **"Prevenzione della corrosione dei serbatoi interrati"**, ICP, Gennaio 2000, p. 64-67 (2000)

CV of Prof. Dr. Luciano LAZZARI (Nominated for re-election to the BoA) Continued

L.Lazzari – List of publications

Page 2 of 10

22. L. Lazzari, M. Ormellese, M. P. Pedferri (2000), **"Inibitori di corrosione per cemento armato"**, *L'Edilizia*, Luglio/Agosto 2000, N.7/8 – Anno XIV, p.52-57 (2000)
23. L. Lazzari, F. Bolzoni, M. P. Pedferri (2000), **"Organizzazione e strategie basate sulla corrosion risk analysis"**, *Manutenzione*, Settembre 2000, p.27-31 (2000).
24. F. Bolzoni, L. Lazzari, M. Ormellese, M. P. Pedferri (2001), **"Corrosione e Manutenzione di Strutture in c.a."**, *Manutenzione*, Maggio 2001, p.45-52 (2001).
25. F. Bolzoni, A. Borroni, L. Lazzari (2003). **Scelta tecnico-economica dei materiali per una tubazione sottomarina mediante simulazione Montecarlo** BOLLETTINO AIOM (ISSN:null), (pp. 9- 13), 26;
26. F. Bolzoni, G. Contreras, L. Lazzari (2005). **Prove di laboratorio su anodi galvanici in acqua di mare sintetica in condizioni aerobiche e anaerobiche** METALLURGIA ITALIANA (ISSN:0026-0843), (pp. 51- 58), 97;
27. F. Bolzoni, P. Fassina, G. Fumagalli, L. Lazzari, E. Mazzola (2006). **Applicazione dei modelli probabilistici alla studio della corrosione localizzata** METALLURGIA ITALIANA (ISSN:0026-0843), (pp. 9- 15), 48;
28. L. Lazzari, M. Ormellese, P. Pedferri (2008). **Effetto della corrente alternata sulle strutture metalliche interrate** SERVIZI A RETE (ISSN:null), (pp. 95- 102), 5;
29. L. Lazzari, M. Ormellese, A. Trombetta (2010). **Interferenza da corrente alternata. Prove di campo** SERVIZI A RETE (ISSN:null), (pp. 163- 168), 2;
30. A. Brenna, L. Lazzari, M. Ormellese, L. Rigozzi (2010). **Laboratory tests on a potential probe with zinc reference electrode for remote monitoring system of cathodic protection** METALLURGIA ITALIANA (ISSN:0026-0843), (pp. 13- 19), 5;
31. A. Brenna, A. Trombetta, M. Ormellese, L. Lazzari (2010). **Effect of AC interference on corrosion and protection on carbon steel: field tests** METALLURGIA ITALIANA (ISSN:0026-0843), (pp. 21- 28), 10;
32. F. Bolzoni, M.V. Diamanti, L. Lazzari, M. Ormellese, M. Pedferri (2010). **Monitoraggio della corrosione dei trefoli di precompressione** L'EDILIZIA (ISSN:1593-3970), (pp. 76- 83), 165;
33. L. Lazzari, M. Ormellese (2011). **Eliminazione della caduta nella misura del potenziale mediante sonde di potenziale in presenza di correnti vaganti** APCE NOTIZIE (ISSN:null), (pp. 9- 13), 45;
34. L. Lazzari, M. Ormellese (2011). **Il telecontrollo tiene conto dell'elettrochimica?** APCE NOTIZIE (ISSN:null), (pp. 25- 27), 44;
35. P. Fassina, L. Lazzari, M. Ormellese (2012). **Potere penetrante della protezione catodica sotto coibentazione nei giunti di saldatura** APCE NOTIZIE (ISSN:null), (pp. 26- 30), 3;
36. P. Fassina, L. Lazzari, M. Ormellese (2012). **Corrosione sotto coibentazione: insorgenza e prevenzione** APCE NOTIZIE (ISSN:null), (pp. 21- 25), 3;
37. A. Brenna, L. Lazzari, M. Ormellese (2012). **Sonda di potenziale con elettrodo di zinco incorporato per il monitoraggio delle condizioni di protezione catodica** METALLURGIA ITALIANA (ISSN:0026-0843), (pp. 5- 11), 3;

National Conferences

1. L.Lazzari, P.Pedferri (1983), **"Corrosione e protezione delle strutture offshore"**, Atti del Corso di Aggiornamento sulla Protezione Catodica, Politecnico di Milano, 30/6-6/6-1983, ed. CLUP, Milano, 1983, pag.137-169.
2. L.Lazzari, P. Pedferri (1983), **"Misura del potenziale"**, Atti del Corso di Aggiornamento sulla Protezione Catodica, Politecnico di Milano, 30/6-6/6-1983, ed. CLUP, Milano, 1983, pag.113-135.
3. E.Mazzolini, L.Lazzari (1984), **"Prove di laboratorio per leghe di Al-Zn-In-Mg per anodi sacrificali"**, Atti della Giornata sulla Protezione Catodica, A.I.M., Milano, 2-2-1984.
4. L.Lazzari, M.Celant (1987), **"Tensocorrosione nell'industria petrolifera"**, Atti del Corso di Aggiornamento su "Cedimento di strutture metalliche per tensocorrosione, infragilimento da idrogeno e corrosione-fatica", Politecnico di Milano, 27-29 maggio 1987.
5. L.Lazzari (1987), **"Corrosione nelle acque naturali"**, Atti del Corso di Aggiornamento sulla "Corrosione negli ambienti naturali", Politecnico di Milano, 26-30/5/1986, in P. Pedferri, "Corrosione e protezione di strutture metalliche e in cemento armato negli ambienti naturali", ed. CLUP, Milano, 1987, pag.305-340.
6. L.Lazzari, P.Pedferri (1987), **"Aspetti generali del problema delle reti di terra dal punto di vista della corrosione"**, Giornata di Studio A.E.I. su: "Fenomeni di corrosione connessi con le reti di terra degli impianti elettrici", Milano, 10 Dicembre, 1987, pag.75-90.
7. L.Lazzari, T.Pastore, P.Pedferri (1988), **"Corrosione e protezione delle strutture offshore"**, Relazione

CV of Prof. Dr. Luciano LAZZARI (Nominated for re-election to the BoA) Continued

L.Lazzari – List of publications

Page 3 of 10

- Generale, Convegno sulla Corrosione Marina, A.I.M., Genova 21-23/9/1988.
8. M.Celant, L.Lazzari (1988), "**Sealines per trasporto di fluidi aggressivi: scelta tecnico-economica dei materiali**", V° Colloquio A.I.O.M., "Opere offshore e marine: problemi idraulici e strutturali", Palermo, 13-14-15/10/1988, pag.101-104.
 9. G.P.Franzoso, L.Lazzari, T.Pastore (1988), "**Valutazione dei metodi di protezione dalla corrosione di strutture metalliche in ambiente marino**", V° Colloquio A.I.O.M., "Opere offshore e marine: problemi idraulici e strutturali", Palermo, 13-14-15/10/1988, pag.105-109.
 10. A.Cigada, L.Lazzari, P.Minardi, T.Pastore (1988), "**Rilevazione in campo dei parametri di progetto della protezione catodica**", V° Colloquio A.I.O.M., "Opere offshore e marine: problemi idraulici e strutturali", Palermo, 13-14-15/10/1988, pag.111-115. Pubblicato in *Offshore & Marine Engineering*, 1989 n.1, Supplemento n.1, pag.27-31.
 11. M.Grandi, L.Lazzari (1988), "**Protezione catodica delle solette dei ponti in cemento armato: materiali anodici e tecniche di applicazione in campo e nella prefabbricazione**", Atti del Convegno CTE su "Evoluzione della Industrializzazione Edilizia" - Venezia 3-4-5/11/1988, pag.C-65.
 12. L.Lazzari, P.Pedferri (1989), "**La corrosione in strutture interraste metalliche e in cemento armato**", Corso di Istruzione Permanente, "La corrosione nelle armature in cemento armato: fenomenologia, cause, valutazione e rimedi", Politecnico di Milano, 31/5-1/6 1989.
 13. B.Bazzoni, M.Grandi, L.Lazzari (1990), "**Il controllo della corrosione di strutture metalliche interraste nelle aree urbane**", Convegno "Nuove Infrastrutture Nuove Città", Salsomaggiore (Parma) Italy, 9 Marzo 1990.
 14. B.Bazzoni, G.Grandi, L.Lazzari, T.Pastore (1990), "**Diagnosi della corrosione delle armature del cemento armato: integrazione di metodologie elettrochimiche**", Atti della Conferenza Nazionale sulle Prove non Distruttive - Monitoraggio e Diagnostica, 6° Congresso Nazionale AIPnD, 28-31 ottobre 1990, Milanofiori, p.704-711.
 15. G.Franzoso, L.Lazzari (1990), "**Corrosione in acque profonde: prove di laboratorio e in campo sui materiali**", Atti del VI Colloquio A.I.O.M., Cagliari 25-26 Ottobre 1990, pag.47-53.
 16. L.Lazzari (1991), "**Corrosione e intelligenza artificiale**", Atti della Giornata di Studio A.I.M. "Corrosion Intelligence: tecniche informatiche per la corrosione", Milano, 27-02-1991.
 17. M.Berra, L.Lazzari, T.Pastore, P.Pedferri (1991), "**Strutturazione della conoscenza per la realizzazione di un Sistema Esperto sulla corrosione delle armature di opere marine in cemento armato**", Atti della Giornata di Studio A.I.M. "Corrosion Intelligence: tecniche informatiche per la corrosione", Milano, 27-02-1991.
 18. L.Lazzari, P.Pedferri (1991), "**Protezione catodica delle armature del cemento armato**", Atti del Convegno AITIVA-AIM "Protezione del cemento armato - Progettazione e Manutenzione", Milano, 18-19 aprile 1991.
 19. L.Lazzari (1991), "**Comportamento degli acciai inossidabili nell'industria petrolifera**", Atti del Corso di Istruzione Permanente, "Comportamento degli acciai inossidabili in ambienti aggressivi", Politecnico di Milano, 18-19 giugno 1991.
 20. L.Lazzari (1992), "**Metodi elettrochimici di protezione: ri-alcinizzazione, rimozione dei cloruri, iniezione di inibitori**", Atti del Corso di Istruzione Permanente, "La corrosione nelle strutture in cemento armato: fenomenologia, cause, valutazioni e rimedi", Politecnico di Milano, 18-19 giugno 1992.
 21. M.Grandi, B.Bazzoni, L.Lazzari (1993), "**Protezione catodica a corrente impressa negli impianti di dissalazione**" Atti del Convegno Titania, Genova, Ottobre 1993.
 22. L.Lazzari (1993), "**La domanda di normativa sulla corrosione**", Atti della Giornata di Studio A.I.M. "La normativa Italiana ed Europea sulla corrosione", Milano, 4 novembre 1993.
 23. B.Bazzoni, L.Lazzari (1994), "**Metodi per l'eliminazione dei contributi di caduta ohmica in presenza di campi elettrici variabili**", Atti delle Giornate nazionali sulla corrosione e protezione, AIM, Milano 24-25 maggio 1994, pag. 85-94.
 24. L.Lazzari, V.Manassero (1994), "**Protezione catodica di strutture zincate interraste**", Atti delle Giornate nazionali sulla corrosione e protezione, AIM, Milano 24-25 maggio 1994, pag. 107-116.
 25. B.Bazzoni, L.Bertolini, L.Lazzari, T.Pastore, P.Pedferri (1994), "**Effetto delle correnti disperse sulla corrosione delle armature nelle opere in cemento armato**", Atti delle Giornate nazionali sulla corrosione e protezione, AIM, Milano 24-25 maggio 1994, pag. 159-168.
 26. L.Lazzari, L.Emili (1995), "**Strutture in cemento armato in ambiente marino. Metodologie di diagnosi della corrosione delle armature e criteri di progettazione della protezione catodica**" Giornata di Studio APCE sulla "Coesistenza di strutture interraste e sommerse in un'area marittima e loro protezione dalle corrosioni", Trieste, 9-10/2/1995.
 27. M.Alberizzi, F.Gaddi, P.Galimberti, L.Lazzari (1995), "**Sistema di monitoraggio per le correnti vaganti delle gallerie del Collegamento Ferroviario Passante di Milano**" Rendiconti della

CV of Prof. Dr. Luciano LAZZARI (Nominated for re-election to the BoA) Continued

L.Lazzari – List of publications

Page 4 of 10

- 96° Riunione Annuale della AEI (Associazione Elettrotecnica Italiana), Roma, 24-27 settembre 1995, Volume 6, pagg. 133-144.
28. L.Lazzari (1995), **"Materiali e rivestimenti impiegati per la realizzazione delle condotte idriche"**, Atti del Corso di formazione Teorico-Pratico: "Prevenzione e diagnostica della corrosione nelle condotte di acqua potabile", a cura del Consorzio Universitario Mantovano, 20-24 novembre 1995, Mantova.
 29. R.Carrara, G.Maj, B.Bazzoni, L.Lazzari (1996), **"Corrosione di serbatoi interrati contenenti sostanze pericolose. Rischio ambientale e interventi di prevenzione"**, Atti delle Giornate nazionali sulla corrosione e protezione, Vol.II°, pag. 21-32, AIM, Milano 29-30 maggio 1996.
 30. A.Amorelli, D.Condanni, L.Lazzari (1996), **"Casi di interferenza in presenza di estese superfici nude. Interpretazione e rimedi"**, Convegno Nazionale A.P.C.E., Roma, Novembre 1996, pag. 430-441.
 31. M.Alberizzi, B.Bazzoni, L.Lazzari (1996), **"Eliminazione della caduta ohmica nella misura del potenziale in presenza di correnti disperse"**, Convegno Nazionale A.P.C.E., Roma, Novembre 1996, pag. 413-429.
 32. M.Alberizzi, F.Gaddi, P.Galimberti, L.Lazzari (1996), **"Sistema di monitoraggio per le correnti vaganti delle gallerie del Collegamento Ferroviario Passante"**, Convegno Nazionale A.P.C.E., Roma, Novembre 1996, p.305-326.
 33. L.Lazzari, F.Duranti, L.Emili (1999), **"Interferenza da corrente alternata. Modelli di interpretazione su condotte interrate"**, Giornate Nazionali di Corrosione e protezione, 4° edizione, Genova 14-15 aprile 1999, AIM, Milano, p.343-350.
 34. F.Bolzon, L.Lazzari, P.Pedferri (1999), **"Scelta tecnico-economica dei metodi di controllo della corrosione di viadotti autostradali"**, Giornate Nazionali di Corrosione e Protezione, 4° edizione, Genova 14-15 aprile 1999, AIM, Milano, p.323-332.
 35. L.Lazzari (1999), **"Gli aspetti elettrochimici nella ingegneria della corrosione"**, GEI99, Giornate dell'Elettrochimica Italiana, 4-6 novembre 1999, Como. (Boll. SEI Gennaio 2000)
 36. L. Lazzari, M. Ormellese, M. Pedferri (2002). **Monitoraggio del potenziale di strutture interrate: un nuovo tipo di sonde.** (pp. 31- 38). In: Giornate Nazionali sulla Corrosione e Protezione. Bergamo, 21-22 maggio,
 37. F. Benetti; F. Bolzon; L. Lazzari; M. Pedferri (2002). **Inibitori di corrosione per strutture in calcestruzzo armato contaminate da cloruri.** (pp. 1- 4). In: 6° Congresso AIMAT. Modena, 8-11 settembre,
 38. F. Bolzon, M. Guagliano, L. Lazzari, L. Vergani, M. Vimercati (2002). **Previsione della vita residua di una linea trasporto gas-metano in presenza di difetti da corrosione.** (pp. 1- 9). In: AIAS 2002 : 31. Convegno nazionale dell' Associazione italiana per l'analisi delle sollecitazioni. 18-21 settembre 2002, Parma,
 39. F. Bolzon, L. Lazzari, A. Merati, M. Ormellese (2003). **Protezione catodica di serbatoi a doppio contenimento: prove di laboratorio.** (pp. 222- 236). In: Corrosion Italia. Taormina,
 40. F. Bolzon, S. Goidanich, L. Lazzari, M. Ormellese, M. Pedferri (2003). **Inibitori di corrosione migranti per il ripristino di strutture in calcestruzzo armato.** Idea stampa, Cassino: (pp. 312- 321). In: III Convegno "Restauro e conservazione di beni culturali: materiali e tecniche. Cassino,
 41. L. Lazzari, M. Ormellese, M. Pedferri, A. Trombetta (2004). **Prove di laboratorio su infragilimento da idrogeno in leghe di titanio per dissalatori.** (pp. 1- 10). In: NACE Italian Section. Genova,
 42. F. Bolzon, G. Contreras, L. Lazzari (2005). **Protezione catodica con anodi galvanici in acqua di mare naturale.** (pp. 1- 17). In: Giornate Nazionali sulla Corrosione e Protezione. 29 giugno-1 luglio 2005, Senigallia,
 43. A. Benedetti; F. Bolzon; G. Contreras; L. Lazzari (2006). **Comportamento di anodi di alluminio per la protezione catodica dei terreni.** (pp. 1- 8). In: 31° Convegno Nazionale AIM. Milano, 22-24 novembre 2006,
 44. F. Bolzon, G. Contreras, P. Fassina, G. Fumagalli, S. Goidanich, L. Lazzari (2007). **Studio dei fenomeni di metastabilità dei film passivi.** (pp. 287- 294). In: Giornate Nazionali sulla Corrosione e Protezione. Messina, 20-22 giugno,
 45. G. Contreras, P. Fassina, S. Goidanich, L. Lazzari, S. Maggi, C. Piccardi (2007). **Rappresentazione del processo di corrosione localizzata mediante un automa cellulare.** (pp. 276- 286). In: VII Congresso Nazionale di Corrosione e Protezione. Messina, 20-22 giugno.

Books and contributions

1. (1976) Contribution to: D.Sinigaglia, **Metallurgia, vol. 1**, Ed. CLUP, Milano, 1976.
2. Collaborazione alla stesura di: P.Pedferri, **Corrosione e protezione dei materiali metallici**, Ed. CLUP, Milano, 1978.

CV of Prof. Dr. Luciano LAZZARI (Nominated for re-election to the BoA) Continued

L.Lazzari – List of publications

Page 5 of 10

3. L.Lazzari, P.Pedefferri (1981), **Protezione catodica**, Ed. CLUP, Milano, 1981.
4. (1996) Contribution to “cap.8 **Corrosione da correnti disperse**” - P.Pedefferri, L.Bertolini, **La corrosione nel calcestruzzo e negli ambienti naturali**, Ed. McGraw-Hill, Milano, (ISBN 88 386 3216-2), 1996.
5. (1996) Contribution to “cap.12 **Diagnosi e monitoraggio**” - P.Pedefferri, L.Bertolini, **La corrosione nel calcestruzzo e negli ambienti naturali**, Ed. McGraw-Hill, Milano, (ISBN 88 386 3216-2), 1996.
6. (1996) Contribution to “cap.19 **Terreni**” - P.Pedefferri, L.Bertolini, **La corrosione nel calcestruzzo e negli ambienti naturali**, Ed. McGraw-Hill, Milano, (ISBN 88 386 3216-2), 1996.
7. (1996) Contribution to “cap.20 **Acque dolci**” - P.Pedefferri, L.Bertolini, **La corrosione nel calcestruzzo e negli ambienti naturali**, Ed. McGraw-Hill, Milano, (ISBN 88 386 3216-2), 1996.
8. (1996) Contribution to “cap.21 **Acqua di mare**” - P.Pedefferri, L.Bertolini, **La corrosione nel calcestruzzo e negli ambienti naturali**, Ed. McGraw-Hill, Milano, (ISBN 88 386 3216-2), 1996.
9. L.Lazzari, P.Pedefferri (2000), **Protezione catodica**, McGraw-Hill Libri Italia, Milano, (ISBN 88 386 0847-4), 2000.
10. L. Lazzari, P. Pedefferri (2006), **Cathodic Protection**, Polipress, Milan, 2006 (ISBN 88 7398 020-1)
11. L. Lazzari, P. Pedefferri, M. Ormellese (2006). **Protezione Catodica**. Polipress, Milan, 2006 (ISBN 88 7398 028-7)
12. L.Lazzari (2011), **Corrosion Risk Assessment of Pipelines Based on Cathodic Protection Survey**, T. Boukharouba et al. (eds), *Integrity of Pipelines Transporting Hydrocarbons*, Nato Science for Peace and Security Series – C: Environmental Security, DOI 10.1007/978-94-007-0588-3_18. Springer Science+Business Media B.V. 2011, p.285-309.
13. L. Vergani, A. Sciuccati, L. Lazzari, F. Bolzoni, (2012). **Effect of Hydrogen Environment on Fatigue Behaviour of High Toughness Steels**. Ping Tang and Jim Leor Zhang in *Fatigue Crack Growth: Mechanisms, Behavior and Analysis*. (pp. 1- 45)

International journal

1. B.Mazza, P.Pedefferri, D.Sinigaglia, U.Della Sala, L.Lazzari (1974), “**Contribution to the knowledge of the relationship between the electrochemical and corrosion behaviour and the structure of metallic materials subjected to cold work deformation**”, *Werkstoffe und Korrosion*, 25, 239, 1974.
2. B.Mazza, P.Pedefferri, D.Sinigaglia, A.Cigada, L.Lazzari, G.Re, D.Wenger (1976), “**Relationship between the electrochemical and corrosion behaviour and the structure of stainless steels subjected to work plastic deformation**”, *J. Electrochem. Soc.*, 123, 1157, 1976.
3. B.Bazzoni, A.Cigada, L.Lazzari, P.Pedefferri (1985), “**Field and laboratory experiences of sulfide stress cracking of a duplex stainless steel**”, *Werkstoffe und Korrosion*, 36, 4, p. 151, 1985.
4. B.Bazzoni, L.Lazzari (1992), “**A New Approach for Automatic Control and Monitoring of Cathodically Protected Reinforced Concrete Structures**”, *Materials Performance*, Vol.31, No.12, NACE, 1992. pp.13-18.
5. B.Bazzoni, L.Lazzari (1995), “**Potential Monitoring in Presence of Stray Currents**”, *Corrosion Management*, N.6, June-July 1995, p.9-12.
6. L.Bertolini, P.Pedefferri, T.Pastore, B.Bazzoni, L.Lazzari (1996), “**Macrocell Effects on Potential Measurements in Concrete Cathodic Protection Systems**”, *Corrosion*, 52, N.7, July, NACE International, Houston, TX, 1996, pag.552-557.
7. L.Bertolini, F.Bolzoni, L.Lazzari, T.Pastore, P.Pedefferri (1998), “**Cathodic protection and cathodic prevention in concrete. Principles and Applications**”, *J. Appl.Electr.*, 28, 1998.
8. P.Galimberti, F.Gaddi, M.Alberizzi, L.Lazzari (1999), “**Corrosion Monitoring System for a Reinforced Concrete Transit Tunnel**”, *Materials Performance*, March 1999, p.26-31, (1999).
9. B.Bazzoni, P.Fassina, L. Lazzari, V. Sia (2000), “**Potential Measurement Interpretation on Isolating Joints**”, *Materials Performance*, September 2000, p.26-30 (2000).
10. L.Bertolini, F.Bolzoni, L.Lazzari, P.Pedefferri (2000), “**Applications of Cathodic Protection to Steel in Concrete**”, *Int. J. for Restoration of Buildings and Monuments*, Vol.6, No.6, 2000, p.655-668.
11. F. Bolzoni, L. Coppola, S. Goidanich, L. Lazzari, M. Ormellese, MP.Pedefferri (2004), “**Corrosion inhibitors in reinforced concrete structures. Part 1: preventative technique**”, *Corrosion Engineering, Science and Technology*, 2004, Vol. 39, No. 3, pp. 219-228.
12. P. Fassina; M. Guagliano; L. Lazzari; L. Vergani; M. Vimercati (2005). **Failure analysis of a non-integral pipeline collect connector** ENGINEERING FAILURE ANALYSIS (ISSN:1350-6307), (pp. 711- 719), 12(2005);
13. M. Ormellese, F. Bolzoni, L. Lazzari, P. Pedefferri (2008). **Effect of corrosion inhibitors on the initiation of chloride-induced corrosion on reinforced concrete structures** MATERIALS AND

CV of Prof. Dr. Luciano LAZZARI (Nominated for re-election to the BoA) Continued

L.Lazzari – List of publications

Page 6 of 10

- CORROSION (ISSN:0947-5117), (pp. 98- 106), 59;
14. M. Ormellese, L. Lazzari, S. Goidanich, G. Fumagalli, A. Brenna (2009). **A study of organic substances as inhibitors for chloride-induced corrosion in concrete** CORROSION SCIENCE (ISSN:0010-938X), (pp. 2959- 2968), 51;
 15. M. Ormellese, E.A. Pérez, G. Raffaini, F. Ganazzoli, L. Lazzari (2010). **Inhibition mechanism in concrete by organic substances: an experimental and theoretical study**, JOURNAL OF MATERIALS SCIENCE AND ENGINEERING (ISSN:1934-8959), (pp. 66- 77), 4;
 16. S. Goidanich, L. Lazzari, M. Ormellese (2010). **AC Corrosion – Part2: parameters influencing corrosion rate** CORROSION SCIENCE (ISSN:0010-938X), (pp. 916- 922), 52;
 17. S. Goidanich, L. Lazzari, M. Ormellese (2010). **AC Corrosion - Part1: Effects on Overpotentials of Anodic and Cathodic Processes** CORROSION SCIENCE (ISSN:0010-938X), (pp. 491- 497), 52;
 18. M. Ormellese, F. Bolzoni, L. Lazzari, A. Brenna, M. Pedferri (2011). **Organic substances as inhibitors for chloride-induced corrosion in reinforced concrete** MATERIALS AND CORROSION (ISSN:0947-5117), (pp. 170- 177), 62;
 19. G. Contreras, S. Goidanich, S. Maggi, C. Piccardi, M.V. Diamanti, M. Pedferri, L. Lazzari (2011). **Representing localized corrosion processes through cellular automata** CORROSION REVIEWS (ISSN:0334-6005), (pp. 241- 245), 29;
 20. M. Ormellese, S. Goidanich, L. Lazzari (2011). **Effect of AC interference on cathodic protection monitoring** CORROSION ENGINEERING, SCIENCE AND TECHNOLOGY (ISSN:1478-422X), (pp. 618- 623), 46;
 21. F. Bolzoni, G. Contreras, L.Lazzari, M. Ormellese, E. Pérez, G. Re, A. Benedetti (2011). **Influence of chloride and sulphate content on the performance of aluminium based galvanic anodes** CORROSION REVIEWS (ISSN:0334-6005), (pp. 287- 296), 29;
 22. P. Fassina, F. Bolzoni, G. Fumagalli, L. Lazzari, L. Vergani, A. Sciuccati (2012). **Influence of hydrogen and low temperature on mechanical behaviour of two pipeline steels** ENGINEERING FRACTURE MECHANICS (ISSN:0013-7944), (pp. 43- 55), 81;

International conferences

1. B.Mazza, P.Pedferri, D.Sinigaglia, A.Cigada, L.Lazzari, A.Mondora, G.Re, G.Taccani, D.Wenger (1978), **"Structure and corrosion behaviour of work-hardened commercial austenitic stainless steel"**, Proc. 7th Int. Cong. on "Metallic Corrosion", Rio de Janeiro, 4-11 Oct.1978.
2. B.Bazzoni, L.Lazzari (1982), **"Corrosion Attack in Oil and Gas Wells in presence of CO₂"**, Proc. 2nd Yugoslav Cong. on "Corrosion in Oil and Gas Production and Transportation", Zrenjanin (Yugoslavia) 13-15 Oct.1982.
3. B.Bazzoni, L.Lazzari (1982), **"Practical Experiences on Marine Cathodic Protection"**, Proc. 2nd Yugoslav Congress on "Corrosion in Oil and Gas Production and Transportation", Zrenjanin (Yugoslavia) 13-15 Oct. 1982.
4. L.Lazzari, E.Mazzolini (1985), **"Corrosion and Scaling Problems in Production Oil and Gas Wells"**, Proc. of OAPEC's Seminar on "New Techniques in Petroleum Production Operations", Damascus (Syria Arab Republic) 6-8 Oct. 1985.
5. B.Bazzoni, L.Lazzari (1986), **"Internal Corrosion in Offshore Facilities. An overview"**, Proc. of 1st AIOM Congress, Venice, 1-4 June 1986.
6. B.Vicentini, G.Rondelli, G.Onofrio, L.Lazzari, A.Cigada (1987), **"Corrosion Behavior of High Alloy Tubular Materials in Inhibited Acidizing Conditions"**, CORROSION/87, Paper No. 43, NACE, National Association of Corrosion Engineers, Houston, TX, 1987.
ripubblicato in "Corrosion Control and Monitoring in Gas Pipelines and Well Systems", Edited by R.G.Aasperger, National Association of Corrosion Engineers, Houston, TX, 1989 (ISBN 0-915567-42-3) p.173-184.
7. M.Grandi, L.Lazzari (1989), **"Cathodic protection experiences on existing and new "long" pipelines"**, Proceedings CEOCOR 1989, Napoli, 17-19 maggio 1989, p.391-403.
8. M.Celant, L.Lazzari (1989), **"Corrosion economics in material selection for sour service pipelines"**, Proceedings BHRA-Firenze, 13-14-15/10/1989; BHRA-1990, Chapter 22, p.279-288
9. M.Grandi, L.Lazzari (1990), **"Cathodic protection experiences on highway bridge decks"**, 11th ICC, Int. Congress, Florence - Italy, 2-6 April 1990, p.2.481.
10. F.Anzani, L.Lazzari, L.Santonato (1990), **"ACTOOL®: a decision support system for pipeline coating selection"** 11th ICC, Int. Congress, Florence - Italy, 2-6 April 1990, p.1.419.
11. L.Lazzari, G.P.Franzoso (1990), **"Uncertainties and Testing Needs Moving into Deeper Waters"**, EFC

CV of João Salvador FERNANDES (Nominated for election to the BoA)

Curriculum vitae
of
João Carlos Salvador Santos Fernandes

João Carlos Salvador Santos Fernandes (PhD in Chemical Engineering, Instituto Superior Técnico, 1997, Dip. in Chemical Engineering, Instituto Superior Técnico, 1987), joined IST in 1987. He is Assistant Professor at the Department of Chemical Engineering.

His main scientific interests are in the fields of corrosion and electrochemical techniques, with special relevance to Electrochemical Impedance Spectroscopy that was one of the major subjects of his PhD work. He is also interested in the combination of techniques like Auger spectroscopy, XPS and SEM with localized electrochemical techniques like the scanning vibrating electrode (SVET), localized impedance spectroscopy (LEIS) and electrochemical microscopy (SECM), which provide a powerful set of tools to assess and to understand the corrosion and corrosion inhibition mechanisms of the new protection systems. His main objectives are the research and development of new or modified materials, such as aluminium alloys or metallic biomaterials such as magnesium or NiTi alloys, as well as the development of corrosion sensors for aircrafts.

He has been involved in several national and EU funded projects in the field of surface coatings, where several electrochemical and surface analysis techniques were used for the assessment of the corrosion properties of the coated materials.

1. Personal data

Ful Name:

João Carlos Salvador Santos Fernandes

Name on publications

Fernandes JCS (Fernandes JS)

Birth date

23-10-1964

National of

Portugal

Work address

Instituto Superior Técnico / ICEMS
IST - DEQ - Electroquímica - Av. Rovisco Pais
1049-001 Lisboa
Portugal

Work Phone

+351 218 417 964

Fax

+351 218 419 771

Email

joao.salvador@ist.utl.pt

Cell phone

+ 351 966 050 843

URL

<http://gecea.ist.utl.pt/Membros/JCSF/>

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued**2. Academic degrees**

Year: 1997

Degree: DOUTORAMENTO (PhD)

Final grade: Aprovado com Distinção e Louvor (Summa Cum Laude)

Degree granting institution: Univ. Técnica de Lisboa / Technical Univ. of Lisbon

School/College/Campus: Instituto Superior Técnico

Thesis title: Pitting Corrosion of Aluminium Modified by Ion Implantation of Tungsten /Corrosão por Picadas de Alumínio Modificado por Implantação Iónica de Tungsténio

Supervisor: M.G.S: Ferreira

Scientific area Chemical Engineering

Year: 1987

Degree: LICENCIATURA (Graduation)

Final grade: 15

Degree granting institution: Univ. Técnica de Lisboa / Technical Univ. of Lisbon

School/College/Campus: Instituto Superior Técnico

Scientific área: Chemical Engineering

Number of curricular years: 5

Program title: Licenciatura (Pré-Bolonha) em Engenharia Química

3. Previous activity and current status

1987-1997	Teaching Assistant	Instituto Superior Tecnico
1997 - Now	Assistant Professor	Instituto Superior Tecnico

4. Area of scientific activity

Electrochemical Corrosion, Electrochemistry, Surface Analysis, Cathodic Protection, Coatings, Biomaterials

5. Present research interests**Domain of specialization**

Electrochemical Corrosion, Coatings, Electrochemical Impedance Spectroscopy

Current research interests

The scientific interests of João Salvador Fernandes are in the domain of interfaces and surfaces engineering, with special relevance for the study and development of advanced materials showing high corrosion resistance. The work involves aluminium alloys used in aeronautics and is of special relevance for national and european

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

industry. Studies on biomaterials and their modification for enhanced biocompatibility are also one of the main areas of research. Within this framework, surface modification by ion implantation, coatings and anodising processes to replace chromium-based formulations has been carried out. The above studies use electrochemical techniques (e.g. E.I.S.), surface analysis techniques (e.g. Auger Electron Spectroscopy and XPS) and modelling of the corrosion processes.

Other professional interests/activities

Co-chairman of

- "EUROCORR 2013 - European Corrosion Congress", to be held at Estoril, September 2013
- "EIS 2010 - Intl. Symp. on Electrochem. Impedance Spectroscopy", Carvoeiro, June 2010
- "EUROCORR 2005 - European Corrosion Congress", Lisboa, September 2005

Organizer and main lecturer of the "Short Courses on EIS", IST (2007 and 2008)

Member of:

- Local Organizing Committees of "SPE 08", Portugal (2008), "3rd AETOC", Portugal (2003) and 5th Intl. Symp. "Electrochem. Methods in Corrosion Research - EMCR'94", Portugal (1994)
- International Scientific Committees of "LATINCORR 2012", Peru (2012), "LATINCORR 2010", Equador (2010), "CORROSION 2012/2010/2008/2006", Ukraine, "INTERCORR 2012/2010/2008", Brazil, "CORROSION 2005", Poland (2005), "Modern Electroplating Processes", Poland (2004) and "Intl. Conference - Modern Wear and Corrosion Resistant Coatings Obtained by Thermal Spraying", Poland (2003)

Society Memberships

- Ordem dos Engenheiros (Portuguese Association of Engineers)
- Portuguese Society of Electrochemistry (SPE)
- Ibero-American Society of Electrochemistry (SIBAE)
- Portuguese Materials Society (SPM)
- European Federation of Corrosion (EFC)
- World Corrosion Organization (WCO)
- International Society of Electrochemistry (ISE)

6. Experience as scientific adviser

PhD Students:

- Paulo Alexandre Gonçalves Venâncio, "Sensores de Corrosão para Aeronaves", PhD in Chemical Engineering (Jan. 2012); Current Job Position: Engineer at Airbus, Bristol, UK
- Gabriel Rosa Ribeiro, "Análise teórica e experimental da microfuração por acção electroquímica", doutoramento em Eng^a Mecânica, in progress (co-supervisor)

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

MSc Students

- Ana Isabel Martins Tiago Fernandes, "Corrosion Evaluation of Bare and Anodized AZ31 Magnesium Alloy in Physiological Media", MSc in Chemical Engineering (November 2011); Current Job Position: Engineer at Dyrup, PPG Group, Sacavem, Portugal
- Alegria Júnior Jeremias, "Preventing Internal Corrosion By Chemical Treatment", MSc in Chemical Engineering (November 2010); Current Job Position: Engineer at Total, Angola
- David Heitor Neves Alves Portugal, "Formation of New Alloys – Laboratory Viability Study", MSc in Chemical Engineering (December 2008); Current Job Position: Quality Control Engineer at Secil, Setubal, Portugal
- Carla Sofia Jorge Reis, "Optimização de Processo de Pintura Anticorrosiva por Electrodeposição Cataforética na Indústria Automóvel", MSc in Chemical Engineering (December 2008)
- João Paulo Neto Torres, "A Estatística Aplicada à Optimização da Técnica de Varrimento do Eléctrodo Vibrante", MSc in Chemical Engineering - Applied Chemistry (April 2008)
- Nádía Cristina Amaral Figueira, "Caracterização do Comportamento Face à Corrosão da Liga NiTi – Qualidade em Aplicações Biomédicas", MSc in Chemical Engineering - Applied Chemistry (April 2008); Current Job Position: Pharmaceutical Industry, Portugal
- Mariana Fonseca Amaro, "Estudo Comparativo de Tintas para Fachadas", MSc in Chemical Engineering (November 2007)
- Ana Rita Caria de Resende, "Sistemas de Protecção Exterior para Embalagens Metálicas na Indústria Conserveira", MSc in Chemical Engineering (October 2007); Current Job Position: Engineer at Crown Cork & Seal, Alcochete, Portugal

7. Participation in R&D projects

Participation as coordinator/member of the team (last 10 years):

- Scientific Coordinator of the project "BioMg - A new generation of biodegradable implants obtained from magnesium alloys functionalized by means of advanced surface treatments", European Project ERA-MNT/0001/2009 (Call 2009 MNT-ERA.NET II) (2010-2013)
- Member of the project: "Surface modification vs. tribocorrosion mechanisms and cytotoxicity in Ti and Ti alloys for dental applications", Project PTDC/CTM/68160/2006 (FCT, 2008-2010)
- Member of the european project "MUST- Multi-Level Protection of Materials for Vehicles by Smart nanocontainers", NMP3-LA-2008-214261 (EC, 2008-2010)
- Member of the project "Metal/porcelain interfaces for restorative dentistry: A new approach including improvement of tribo-corrosion properties, modelling and simulation of physicochemical and mechanical behaviour and biocompatibility studies", PTDC/CTM/67500/2006 (FCT, 2008-2010)
- Member of the project "Anodic films on light metals obtained by novel high-voltage pulsed anodizing technique", PTDC/CTM/72223/2006 (FCT, 2008-2010)

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

- Scientific Coordinator of the research project "Surface Modified NiTi Alloy for Enhanced Biocompatibility and Corrosion Performance in Biomedical Applications", POCI/CTM/62049/2004 (FCT, 2005-2009)
- Scientific Coordinator of the research project "Electropolymerised Coatings Used as Pre-treatment for Aluminium Alloys", POCI/CTM/60064/2004 (FCT, 2005-2009)
- Member of the research project "Study of the Local Potential and Current Distribution at the Metals Surface", POCI/CTM/59960/2004 (FCT, 2005-2009)
- Member of the european project "Self-Healing at Cut-Edge of Coil Coated Galvanized Steel Sheet", RFS-CR-04021 (EC, 2004-2007)
- Member of the european project "PulsCoat - Adaptation of a New Energy and Timesaving Hard Anodizing Process for Different Al-Alloys and Tests in Selected European Industrial Applications", NNE5-2001-00402 (EC, 2003-2005)
- Scientific Coordinator of the research project "Avaliação Laboratorial e In-Situ da Durabilidade de Alumínios Anodizados por Tecnologias Limpas", POCTI/CTM/39846/01 (FCT, 2002-2006)

8. Published works

Teses

- J.C.S. Fernandes, "Caracterização Electroquímica do Comportamento do Alumínio Puro em Meios de Carbonatos", Tese de Provas de Aptidão Pedagógica e Capacidade Científica, IST, Lisboa (1989)
- J.C.S. Fernandes, "Corrosão por Picadas em Alumínio Modificado por Implantação Iónica de Tungsténio", Tese de Doutoramento (PhD Thesis), IST, Lisboa (1997)

Papers in International Peer-Reviewed Journals (ISI)

- Moreira, FTC; Dutra, RAF; Noronha, JPC; Fernandes, JCS; Sales, MGF, "Novel biosensing device for point-of-care applications with plastic antibodies grown on Au-Screen Printed Electrodes", Sensors and Actuators B: Chemical (in press)
- Venancio, PG; Cottis, RA; Narayanaswamy, R; Fernandes, JCS; "Optical Sensors for Corrosion Detection in Airframes", Sensors & Actuators: B. Chemical, 182 (2013) 774– 781; DOI: 10.1016/j.snb.2013.03.059
- Zomorodian, A., Garcia, M.P, Moura e Silva, T., Fernandes, J.C.S., Fernandes, M.H., Montemor, M.F., "Corrosion resistance of a composite polymeric coating applied on biodegradable AZ31 magnesium alloy", Acta Biomaterialia (2013), doi: <http://dx.doi.org/10.1016/j.actbio.2013.02.036> (in press)
- Solá, C; Amorim, A; Espías, A; Capelo, S; Fernandes, J; Proença, L; Sanchez, L; Fonseca, I; "Galvanic Corrosion Behaviour of Ti and Ti6Al4V Coupled to Noble Dental Alloys", Int. J. Electrochem. Sci., 8 (2013) 406 – 420
- Zomorodian, A; Brusciotti, F; Fernandes, A; Carmezim, MJ; Silva, TM; Fernandes, JCS; Montemor, MF; "Anti-corrosion performance of a new silane coating for corrosion protection of AZ31 magnesium alloy in Hank's solution", Surface & Coatings Technology, 206 (21) (2012) 4368–4375; DOI:

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

10.1016/j.surfcoat.2012.04.061

- Queiros, RB; Noronha, JP; Marques, PVS; Fernandes, JCS; Sales, MGF, "Determination of Microcystin-LR in waters in the subnanomolar range by sol-gel imprinted polymers on solid contact electrodes", *Analyst* (2012), Advance Article, DOI: 10.1039/C2AN35141B (First published on the web 22 Mar 2012)
- Salgado, JRC; Fernandes, JCS; do Rego, AMB ; Ferraria, AM; Duarte, RG; Ferreira, MGS; "Pt-Ru nanoparticles supported on functionalized carbon as electrocatalysts for the methanol oxidation", *Electrochim. Acta*, 56(24) (2011) 8509-8518, DOI:10.1016/j.electacta.2011.07.039, WOS:000295601600054
- Fernandes, JS; Montemor, F; 8th International Symposium on Electrochemical Impedance Spectroscopy (EIS 2010), *Electrochim. Acta* 56 (23) (2011) 7761-7762, DOI: 10.1016/j.electacta.2011.08.033, WOS:000295437500001
- S.C. Ferreira, L.A. Rocha, E. Ariza, P.D. Sequeira, Y. Watanabe, J.C.S. Fernandes, "Corrosion behaviour of Al/Al₃Ti and Al/Al₃Zr functionally graded materials produced by centrifugal solid-particle method: Influence of the intermetallics volume fraction", *Corros. Sci.*, 53(6) (2011), 2058-2065, <http://dx.doi.org/10.1016/j.corsci.2011.02.010>
- A.M. Simões, J.C.S. Fernandes, "Studying phosphate corrosion inhibition at the cut edge of coil coated galvanized steel using the SVET and EIS", *Prog. Org. Coat.* 69 (2) (2010) 219-224, <http://dx.doi.org/10.1016/j.porgcoat.2010.04.022>
- 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 ", *Electrochim. Acta* 55 (10) (2010) 3580-3588, <http://dx.doi.org/10.1016/j.electacta.2009.12.007>
- M. Simões, J. Torres, R. Picciochi, J. C. S. Fernandes, "Corrosion inhibition at galvanized steel cut edges by phosphate pigments", *Electrochimica Acta*, 54 (15) (2009), 3857-3865, <http://dx.doi.org/10.1016/j.electacta.2009.01.065>
- N. Figueira, T.M. Silva, M.J. Carmezim, J.C.S. Fernandes, "Corrosion Behaviour of NiTi Alloy", *Electrochimica Acta*, 54 (3) (2009), 921-926, <http://dx.doi.org/10.1016/j.electacta.2008.08.001>
- M. Vilarigues, J.C.S. Fernandes, L.C. Alves, R.C. da Silva, "Electrochemical behaviour of chromium-implanted magnesium in hydroxide, chloride and sulphate solutions", *Surface & Coatings Technology*, 202 (17) (2008) 4086-4093, <http://dx.doi.org/10.1016/j.surfcoat.2008.02.018>
- N.C.T. Martins, T. Moura e Silva, M.F. Montemor, J.C.S. Fernandes, M.G.S. Ferreira, "Electrodeposition and characterization of polypyrrole films on aluminium alloy 6061-T6", *Electrochim. Acta*, 53 (2008) 4754-4763, <http://dx.doi.org/10.1016/j.electacta.2008.01.059>
- M.F. Montemor, J.H. Alves, A.M. Simões, J.C.S. Fernandes, Z. Lourenço, A.J.S. Costa, A.J. Appleton, M.G.S. Ferreira, "Multiprobe Chloride Sensor for In-Situ Monitoring of Reinforced Concrete Structures", *Cement and Concrete Composites*, 28 (3) (2006) 233-236
- J.C.S. Fernandes, R. Picciochi, M. Da Cunha Belo, T. Moura e Silva, M.G.S. Ferreira, I.T.E. Fonseca, "Capacitance and photoelectrochemical studies for the

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

assessment of anodic oxide films on aluminium", *Electrochim. Acta* 49 (2004) 4701–4707

- L. Domingues, J.C.S. Fernandes, M. Da Cunha Belo, M.G.S. Ferreira, L. Guerra-Rosa, "Anodising of Al 2024-T3 in a Modified Sulphuric Acid / Boric Acid Bath for Aeronautical Applications", *Corros. Sci.*, 45 (2003), pp. 149-160
- L. Domingues, C. Oliveira, J.C.S. Fernandes, M.G.S. Ferreira, I.T.E. Fonseca, "Corrosion Behaviour of Environmentally Friendly Treatments for Aluminium Alloys", *Key Engineering Materials*, 230-232 (2002), pp. 392-395
- I.T.E. Fonseca, N. Lima, J.A. Rodrigues, M.I.S. Pereira, J.C. Salvador Fernandes, M.G.S. Ferreira, "Passivity Breakdown of Al 2024-T3 Alloy in Chloride Solutions: a Test of the Point Defect Model", *Electrochem. Commun.*, 4 (2002), pp.353-357
- L. Domingues, C. Oliveira, J.C.S. Fernandes, M.G.S. Ferreira, "EIS on Plasma-Polymerised Coatings Used as Pre-Treatment for Aluminium Alloys", *Electrochim. Acta*, 47 (13-14) (2002), pp.2253-2258
- J.C.S. Fernandes, M.G.S. Ferreira, D.B. Haddow, A. Goruppa, R. Short, D.G. Dixon, "Plasma-Polymerised Coatings Used As Pre-Treatment For Aluminium Alloys", *Surface and Coatings Technology*, 154(1) (2002), pp.8-13
- J.C.S. Fernandes, M.G.S. Ferreira, D.B. Haddow, A. Goruppa, R. Short, "Protective Properties of Plasma-Polymerised Coatings Used As Pre-Treatment For Aluminium Alloys", *Benelux Métallurgie*, XXXX (3-4) (2000) / XXXXI (1-2) (2001), pp.192-197
- J.C.S. Fernandes, M.G.S. Ferreira, "On the Pitting Resistance of Tungsten Implanted Aluminium", *Materials Science Forum*, 289-292 (1998) 1151.
- J.C.S. Fernandes, M.G.S. Ferreira, J.C. Soares, C.M. Jesus, C.M. Rangel, P. Skeldon, G.E. Thompson, X. Zhou, H. Habazaki, K. Shimizu, "The Behaviour of Ion-Implanted Tungsten Species During Anodic Oxidation of Aluminium", *J. Phys. D: Appl. Phys.*, 31 (1998), 2083
- Veloso, P.P. Freitas, J. Fernandes, M. Ferreira, "Spin valve sensors with Mn₁₇xRh_x exchange films", *Mat. Res. Soc. Symp. Proc.*, 517 (1998), 31
- Veloso, P.P. Freitas, N. Oliveira, J. Fernandes, M. Ferreira, "Spin Valve Heads with a Corrosion Resistant MnRh Exchange Layer", *IEEE Trans. Magn.*, 34 (4) (1998), 2343-2347
- M.G.S. Ferreira, R. Li, J.C.S. Fernandes, A. Almeida, R. Vilar, K.G. Watkins, W.M. Steen, "Pitting Corrosion of Laser Surface Modified Aluminium Alloys", *Materials Science Forum*, 192-194 (1995), 421
- F. Mansfeld, J.C.S. Fernandes, "Impedance Spectra for Aluminum 7075 During the Early Stages of Immersion in Sodium Chloride", *Corros. Sci.*, 34 (1993), 2105
- J.C.S. Fernandes, M.G.S. Ferreira, "Corrosion Behaviour of Tungsten-Implanted Aluminium in Carbonate and Sulphate Solutions", *Surface and Coatings Technology*, 56 (1992) 75.
- J.C.S. Fernandes, M.G.S. Ferreira, "Effect of Carbonate and Lithium Ions in the Corrosion Behaviour of Pure Aluminium", *Electrochimica Acta*, 37(14) (1992) 2659.

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

- J.C.S. Fernandes, M.G.S. Ferreira, "Corrosion Behaviour of Physically Vapour Deposited Al-Zn Coatings on 7075 Aluminium Alloy", *Surface and Coatings Technology*, 53 (1992) 99
- J.C.S. Fernandes, M.G.S. Ferreira, "Corrosion Behaviour of Physical Vapour Deposition Aluminium-Based Coatings on 2024 Aluminium Alloy", *Surface and Coatings Technology*, 52 (1992) 289
- J.C.S. Fernandes, M.G.S. Ferreira, C.M. Rangel, "Electrochemical Impedance Studies on Pure Aluminium in Carbonate Solutions", *Journal of Applied Electrochemistry*, 20 (1990) 874-876

Papers in national peer-reviewed journals

- A.R. Resende, C. Teles, J.C.M. Bordado e J.C.S. Fernandes, "Sistemas de Protecção Exterior para Embalagens Metálicas na indústria Conserveira", *Corros. Prot. Mater.*, 30 (4) (2011), 114-123
- P.G. Venâncio, R.A. Cottis, R. Narayanaswamy, J.C.S. Fernandes, "Sensores de Corrosão para Aeronaves", *Corros. Prot. Mater.*, 28 (3) (2009), 78-86
- M.F. Montemor, J.H. Alves, A.M. Simões, J.C.S. Fernandes, Z. Lourenço, A.J.S. Costa, A.J. Appleton, M.G.S. Ferreira, "Sensor de Cloretos para Monitorização In-Situ de Estruturas de Betão Armado", *Corros. Prot. Mater.*, 26 (3) (2007), 74-78
- Silva T., Moura e Silva T., Carmezim M.J., Fernandes J.C.S., "Nitinol – A new material for biomedical applications", *Ciência & Tecnologia dos Materiais*, 17 (1-2) (2005) 34
- L. Domingues, J.C.S. Fernandes, M.G.S. Ferreira, "Anodização Não Poluente de Ligas de Alumínio", *Cor. Prot. Mat.*, 22 (3) (2003) 18-22
- L. Domingues, J.C.S. Fernandes, M.G.S. Ferreira, I.T.E. Fonseca, "Anodização da Liga de Alumínio Al 2024-T3 num Banho de Ácido Sulfúrico/ Ácido Bórico Modificado", *Cor. Prot. Mat.*, 18 (2) (1999) 13.
- S. Fernandes, M.G.S. Ferreira, J.C.S. Fernandes, I.T.E. Fonseca, "Corrosão da Liga Al 2024-T3 em Meio Aquoso de Cloretos: Influência do Pré-Tratamento", *Cor. Prot. Mat.*, 18 (2) (1999) 6.
- J.C.S. Fernandes, M.G.S. Ferreira, "Efeito do Tungsténio Implantado na Resistência à Corrosão por Picadas do Alumínio", *Cor. Prot. Mat.*, 17 (2) (1998) 6.
- F. Mansfeld, J.C.S. Fernandes, "Impedance Spectra for Aluminum 7075 During the Early Stages of Immersion in Sodium Chloride", *Portugaliæ Electrochimica Acta*, 11 (1993), 245
- J.C.S. Fernandes, M.A. Travassos, E. Leitão, C.M. Rangel, M. Barbosa, M.G.S. Ferreira, "The Influence of Li on the Electrochemical Behaviour of Pure Aluminium", *Portugaliæ Electrochimica Acta*, 7 (1989) 119.

Papers in Proceedings of scientific meetings

- João C. Salvador Fernandes, Jeferson A. Moreto, Maryna Taryba, Sónia Eugénio, Sviatlana V. Lamaka, Luís A. Rocha, Waldek W. Bose Filho, "SVET and

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

- SIET Studies on 7081-T73511 Aluminium Alloy", in Proceedings of the "10th Symposium on Electrochemical Methods in Corrosion Research – EMCR 2012", Maragogi, Brasil (Novembro 2012)
- P.G. Venâncio, J.C.S. Fernandes, "Optical Corrosion Sensor for Aluminium Alloy Airframes", in Proceedings of "CORROSION 2012 XI International Conference and Exhibition", Lviv, Ucrânia (Junho 2012) pp.10-15
 - Fernandes, A. Zomorodian, M.J. Carmezim, T. Moura e Silva, M.F. Montemor, J.C.S. Fernandes, "Ligas de Magnésio para Implantes Reabsorvíveis", in Proceedings of "4th International Corrosion Meeting – INTERCORR 2012", Salvador, Brasil (Maio 2012)
 - P.G. Venâncio, J.C.S. Fernandes, "Corrosion Detection in Aluminium Alloy Airframes", in Proceedings of the "17th International Corrosion Congress", Perth, Australia (November 2011) Paper 502
 - P. Venâncio, J.C.S. Fernandes, R.A. Cottis, R. Narayanaswamy, "Development of Sensors for Early Detection of Aluminum Corrosion in Airframe Structures", in Proceedings of the "17th International Corrosion Congress", Las Vegas, Estados Unidos da América (October 2008)
 - N. Martins, T. Moura e Silva, M. F. Montemor, J.C.S. Fernandes, M.G. Ferreira, "Inherently Conducting Polymers on Aluminium Alloy 6061-T6 by Electropolymerization", in Proceedings of the "17th International Corrosion Congress", Las Vegas, Estados Unidos da América (October 2008)
 - Otilia Dias, Ana Sousa Ferreira, João P.N. Torres, António S.L. Castela, João C.S. Fernandes e Helena Bacelar Nicolau, "Análise da Técnica de SVET Aplicada em Superfícies Metálicas Através de Técnicas Exploratórias", in Proceedings of "5º Congresso Luso-Moçambicano de Engenharia", Maputo, Mozambique (September 2008)
 - N. Figueira, T. Moura e Silva, M.J. Carmezim, J.C.S. Fernandes, "Liga de Nitinol para Aplicações Biomédicas: Estudos de Corrosão e Modificação de Superfícies", in Proceedings of "5º Congresso Luso-Moçambicano de Engenharia", Maputo, Mozambique (September 2008)
 - N. Martins, T. Moura e Silva, M. F. Montemor, J.C.S. Fernandes, M.G. Ferreira, "Electrodeposição de Polímeros Condutores na Liga de Alumínio 6061-T6", in Proceedings of "5º Congresso Luso-Moçambicano de Engenharia", Maputo, Mozambique (September 2008)
 - J.P.Torres, J.C.S. Fernandes, A.S.Castela, "Statistical Studies on the Distribution of Cathodic and Anodic Areas", in Proceedings of "2nd International Corrosion Meeting – INTERCORR 2008", Recife, Brazil (May 2008)
 - N. Figueira, T. Moura e Silva, M. J. Carmezim, J.C.S. Fernandes, "Comportamento Electroquímico da Liga de NiTi", in Proceedings of "2nd International Corrosion Meeting – INTERCORR 2008", Recife, Brazil (May 2008)
 - M.F. Montemor, J.H. Alves, A.M. Simões, J.C.S. Fernandes, M.Z. Lourenço, A.S. Costa, A.J. Appleton, M.G.S. Ferreira, "Cathodic Protection In Concrete Structures", in Proceedings of the Latincorr 2006 – Congresso Latino-Americano de Corrosão", Fortaleza, Brasil (May 2006)

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

- T.M. Silva, M.J. Carmezim, J.C.S. Fernandes, M.G.S. Ferreira, "Corrosion Behavior of NiTi Alloy in Body Fluids", in Proceedings of the Latincorr 2006 – Congresso Latino-Americano de Corrosão, Fortaleza, Brasil (May 2006)
- R. Picciochi, J.C.S. Fernandes, M.G.S. Ferreira, A.M.R. Pereira, I.T.E. Fonseca, "EIS Study of Anodised Al 2024-T3 after Atmospheric Exposure", in Proceedings of the Latincorr 2006 – Congresso Latino-Americano de Corrosão, Fortaleza, Brasil (May 2006)
- M.F. Montemor, J.H. Alves, A.M. Simões, J.C.S. Fernandes, Z. Lourenço, A.J.S. Costa, A.J. Appleton, M.G.S. Ferreira, "Multiprobe Chloride Sensor for In-Situ Monitoring of Reinforced Concrete Structures", in Proceedings of the "European Corrosion Congress – Eurocorr 2005", Lisboa, Portugal (September 2005)
- T. Moura e Silva, J.C.S. Fernandes, M. Da Cunha Belo, M.G.S. Ferreira, "A New Material for Neural Stimulating Prostheses", in Proceedings of the "European Corrosion Congress – Eurocorr 2005", Lisboa, Portugal (September 2005)
- R. Picciochi, J.C.S. Fernandes, M.G.S. Ferreira, A.M.R. Pereira, I.T.E. Fonseca, "An EIS Study of Anodised Al 2024-T3 After Atmospheric Exposure", in Proceedings of "European Corrosion Congress – Eurocorr 2005", Lisboa, Portugal (September 2005)
- Carla Jesus, J. Venâncio, R. Picciochi, J.C.S. Fernandes, "Hard Anodising of Copper-Rich Aluminium Alloys", in Proceedings Anais do "European Corrosion Congress – Eurocorr 2005", Lisboa, Portugal (September 2005)
- A.M.R. Pereira, M. H. Mendonça, R. Picciochi, M. I. Lopes, L. F. Proença, I.T.E. Fonseca, J.C.S. Fernandes, M.G.S. Ferreira, in proceedings of the Electro2005 VIII Encontro Ibérico de Electroquímica, XIII Encontro da Sociedade Portuguesa de Electroquímica, Covilhã, (July 2005), p.65
- J. Matos, M.F. Montemor, J.C.S. Fernandes, Z. Lourenço, A. Costa, J. Appleton e A.M.P. Simões, "Desenvolvimento e Teste de uma Sonda Múltipla de Cloretos para Utilização em Estruturas de Betão Armado", in 4s Jornadas da Revista "Corrosão e Protecção de Materiais", Lisboa, Portugal (November 2004)
- J.C.S. Fernandes, "Application of EIS to Corrosion Studies in Aluminium", 2003 Sofia Impedance Days, Sofia, Bulgária (October 2003)
- L. Domingues, J.C.S. Fernandes, M.G.S. Ferreira, "Anodização Não Poluente de Ligas de Alumínio", 3as Jornadas da Revista "Corrosão e Protecção de Materiais", Lisboa, Portugal (November 2002)
- L. Domingues, J.C.S. Fernandes, M.G.S. Ferreira, "Assessment of a Sulphuric-Boric Acid Anodising Process for 2024 Aluminium Alloy", 15th International Corrosion Congress, Granada, Espanha (September 2002)
- J. C. S. Fernandes, L. Domingues, T. Moura e Silva, M. Da Cunha Belo, M. G. S. Ferreira, "Anodização de Ligas de Alumínio – Estrutura e Propriedades", XV Congresso da Sociedade Ibero-Americana de Electroquímica, SIBAE 2002, Évora, Portugal (September 2002)
- L. Domingues, C. Oliveira, J.C.S. Fernandes, M.G.S. Ferreira, I.T.E. Fonseca, "Corrosion Behaviour of Environmentally Friendly Treatments for Aluminium Alloys", 10º Encontro da Sociedade Portuguesa de Materiais – 1st International

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

Materials Symposium Materiais 2001, Coimbra, Portugal (April 2001)

- L. Domingues, C. Oliveira, J.C.S. Fernandes, M.G.S. Ferreira, "Investigation of Cr-Free Pretreatments for 2024-T3 Aluminium Alloy", EMCR'2000, Budapest, Hungary (May 2000)
- J.C.S. Fernandes, M.G.S. Ferreira, D. B. Haddow, A. Goruppa, R. Short, "Protective Properties of Plasma-Polymerised Coatings Used as Pre-Treatment for Aluminium Alloys", 2nd International Symposium on Aluminium Surface Science and Technology, Manchester, UK (May 2000)
- L. Domingues, J.C.S. Fernandes, M.G.S. Ferreira, T. David, L. Guerra-Rosa, I.T.E. Fonseca, "A Modified Sulphuric/Boric Acid Bath for 2024-T3 Aluminium Alloy Anodising", 14th International Corrosion Congress, Cape Town, South Africa (September 1999)
- Oliveira, J.C.S. Fernandes, M.G.S. Ferreira, S. Fernandes, I.T.E. Fonseca, "Investigation of Cr-Free Pretreatments for Al 2024-T3 Alloy Anodising", 14th International Corrosion Congress, Cape Town, South Africa (September 1999)
- Salvita Fernandes, M.G.S. Ferreira, J.C.S. Fernandes, I.T.E. Fonseca, "Corrosão da Liga Al 2024-T3 em Meio Aquoso de Cloretos: Influência do Pré-Tratamento", 1as Jornadas da Revista "Corrosão e Protecção de Materiais", Lisboa, Portugal (November 1998)
- L. Domingues, J.C.S. Fernandes, M.G.S. Ferreira, I.T.E. Fonseca, "Anodização da Liga de Alumínio Al 2024-T3 num Banho de Ácido Sulfúrico/ Ácido Bórico Modificado", 1as Jornadas da Revista "Corrosão e Protecção de Materiais", Lisboa, Portugal (Novembro 1998)
- J.C.S. Fernandes, M.G.S. Ferreira, "On the Pitting Resistance of Tungsten Implanted Aluminium", EMCR'97, Trento, Italy (August 97)
- J.C.S. Fernandes, M.G.S. Ferreira, "Pitting Corrosion of W+ Implanted Aluminum Surfaces", 13th International Corrosion Congress, Melbourne, Australia (November 1996)
- M.G.S. Ferreira, J.C.S. Fernandes and R. Li, "Corrosion Behaviour of Surface Modified Aluminium", 45th Annual Meeting of the International Society of Electrochemistry, Porto, Portugal (August/September 1994)
- J.C.S. Fernandes, M.G.S. Ferreira, "Corrosion Behaviour of W Implanted Aluminum", 12th International Corrosion Congress, Houston, Texas, USA (September 1993)
- F. Mansfeld, J.C.S. Fernandes, "Impedance Spectra for Aluminum 7075 During the Early Stages of Immersion in Sodium Chloride", VI Encontro da Sociedade Portuguesa de Electroquímica, Vila Real, Portugal (October 1992)

Book chapters

- J.C.S. Fernandes e M.F. Montemor, "Corrosão: Prevenção e Protecção" in "Ciência e Engenharia de Materiais de Construção" (Chapter 15), M.C. Gonçalves, F. Margarido Eds., IST Press, Lisboa (2012)
- J.C.S. Fernandes e M.F. Montemor, "Corrosão" in "Materiais de Construção – Guia de Utilização" (Chapter 10), M.C. Gonçalves, F. Margarido e R. Colaço

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued

Eds., Loja da Imagem, Lisboa (2005)

- J.C.S. Fernandes, M.J. Neiva Correia,. (2004), "O Papel – Como se Transforma a Madeira em Papel ?", in Nova Activa Multimédia – Enciclopédia de Consulta, R. Carneiro (director), Vol. 14 – Tecnologias, Lexicultural, Lisboa (2004), pp. 78-79
- J.C.S. Fernandes, M.J. Neiva Correia,. (2004), "O Cimento – Como se Fabrica o Cimento ?", in Nova Activa Multimédia – Enciclopédia de Consulta, R. Carneiro (director), Vol. 14 – Tecnologias, Lexicultural, Lisboa (2004), pp. 76-77
- J.C.S. Fernandes, M.J. Neiva Correia,. (2004), "Corrosão Metálica – A que se deve a Corrosão dos Metais ?", in Nova Activa Multimédia – Enciclopédia de Consulta, R. Carneiro (director), Vol. 14 – Tecnologias, Lexicultural, Lisboa (2004), pp. 68-69
- J.C.S. Fernandes, M.J. Neiva Correia,. (2004), "Oxidação e Redução – Como Funciona uma Pilha ?", in Nova Activa Multimédia – Enciclopédia de Consulta, R. Carneiro (director), Vol. – Tecnologias, Lexicultural, Lisboa (2004), pp. 62-65
- J.C.S. Fernandes e M.G.S. Ferreira, "Corrosão Atmosférica do Alumínio", in "Corrosão Atmosférica – Mapas de Portugal", M. Elisabete M. Almeida e Mário G. S. Ferreira Eds., INETI, Lisboa (1998)

9. Communications in scientific meetings

Invited Oral Communications

- J. C. S. Fernandes, R. Picciochi, T. Moura e Silva, M. Da Cunha Belo, M. G. S. Ferreira, I.T.E. Fonseca, "Assessment of Non-Polluting Anodising Processes for Aluminium 2024 Alloy", **invited keynote lecture** presented to the "International Symposium on New Trends in Molecular Electrochemistry XII Encontro da Sociedade Portuguesa de Electroquímica", Lisboa, Portugal (September 2003)
- J.C.S. Fernandes, "Application of EIS to Corrosion Studies in Aluminium", **invited keynote lecture** presented to the symposium "2003 Sofia Impedance Days", Sofia, Bulgária (October 2003)
- J.C.S.Fernandes, "The Use of Equivalent Circuits in Electrochemical Impedance Spectroscopy", **Plenary Lecture** presented at "INTERCORR 2010 – 3rd International Corrosion Meeting", Fortaleza, Brazil (May 2010)
- J.C.S. Fernandes, "Espectroscopia de Impedância Electroquímica Aplicada a Estudos de Corrosão / Electrochemical Impedance Spectroscopy in Corrosion Research", **Plenary Lecture** presented at the "XII Iberic Meeting of Electrochemistry & XVI Meeting of the Portuguese Electrochemical Society", Lisboa, Portugal (September 2010)

Other Communications:

A large number of oral and poster communications in national and International conferences

CV of João Salvador FERNANDES (Nominated for election to the BoA) Continued**10. Patents****National Patent**

- Portuguese National Patent nº 104 203, "Processo de fabricação de sensores ópticos para detecção de iões de alumínio e magnésio e sua aplicação na monitorização de corrosão em aeronaves", Patent Owner: IST, Inventors: João Salvador Fernandes; Paulo Venâncio; Robert Cottis; R. Narayanaswamy, Application Date: 03-10-2008, Date of Issue: 19-05-2009

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA)**CURRICULUM VITAE****PROF. DR. ALİ FUAT ÇAKIR**

- o Saygılı Sok. Derya Apt. No. 4 Daire A-12, Etiler , İSTANBUL, TURKEY
- o 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 Istanbul,
 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 Istanbul,
 Faculty of Mines, Istanbul
 1976 **Associate Professor**
 Technical University of Istanbul,
 Faculty of Mines,
 Department of Metallurgical Engineering, Istanbul
 1982 **Professor,**
 Technical University of Istanbul,
 Faculty of Chemical and Metallurgical Engineering,
 Department of Metallurgical Engineering, Istanbul
 2005 **Retired**

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) 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, Schawaebish 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

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) 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 Fuat ÇAKIR (Nominated for re-election to the BoA) 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)
- Technilgy 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.

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)

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

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. Tulgar, 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 (1988)
32. A. F. Çakır, Electroless Nickel Deposits and Their Applications, Korozyon, 1, 2, 55-62 (1989)
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)

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

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)
61. **A. F. Çakır**, Surface Technology in Turkey, "Oberflaechentechnologie 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 Topkap_ 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, _taly (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).

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

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, Schwabach Gmünd, Germany, (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)
72. N.Cansever and M. Ürgen, The Use of Potential Measurement Method to Follow-up the Process Stages During the Stress Corrosion Cracking of Stainless Steel Proceedings of the III. Corrosion Symposium, 209-219, 3-6 November, Ankara (1992)
73. C. Ay, M. Ürgen, **A.F. Çakır**, Determination of the Properties of bituminous Coatings With Alternating Current Impedance Spectroscopy, Proceedings of the III. Corrosion Symposium, 289-300, 3-6 November, Ankara (1992)
74. A. Umay, M. Ürgen, **A.F. Çakır**, External Corrosion of Hot and Cold Water Pipes in Buildings III. Corrosion Symposium, 3-6 November, Ankara (1992)
75. M.Ürgen, O.L. Eryılmaz, **A.F. Çakır** and K. Tokmanoğlu, The Application of Decoration Technique for the Evaluation of Defects on Arc PVD-TiN Coated Steel International Ceramic Congress Proceedings, 530-535, 19-23 October, Istanbul (1992)
76. **A.F. Çakır**, A. Yaman, Trattamente di Superficie Dell'Alluminio in Turchia, AIFM Galvano tecnica e nuove finiture, 11, 6, 356-63 (1992)
77. **A. F. Çakır**, Korozyondan Korunmada Metalik Kaplamalar, Kimya Mühendisliği, 19(3), 145, 3-17 (1993)
78. **A. F. Çakır**, The Properties of Aluminium and its Uses, Symposium on Aluminium in the World and in Turkey, Turkish Aluminium Industrialists Association, April 19, Istanbul (1993)
79. **A. F. Çakır**, The Scope of the Corrosion Losses in Turkish Industry and Discussions-1985, VII. International Metallurgy and Materials Congress Proceedings , 4-8 May, Ankara, V:II, 1347-56, (1993)
80. **A.F. Çakır**, A. Yaman, Turkish Aluminium Surface Treatment Industry, Its Problems and the Proposals, VII. International Metallurgy and Materials Congress Proceedings, 4-8 May, Ankara, V:II, 1391-99, (1993)
81. A. Umay, M. Ürgen, **A.F. Çakır**, The Effect of Zn and In on the Properties of Al-Zn-In Sacrificial Anodes, VII. International Metallurgy and Materials Congress Proceedings, 4-8 May, Ankara, V:II, 1357-68, (1993)
82. **A. F. Çakır**, Modern Surface Coatings, Forum on Advanced Materials, VII International Metallurgy and Materials Congress, 4-8 May, Ankara, (1993), Published in: Metalurji, 34, 62-64 (1993)
83. **A.F. Çakır**, M. Ürgen, Seminar on Corrosion, Corrosion Protection and Cathodic Protection National Railways, pp 43, 13-14 May, Istanbul (1993)
84. **A. F. Çakır**, The Priorities of Corrosion and Corrosion Protection in the Turkish Economy, Progress in the Understanding of Corrosion, V:II, Ed. J.M. Costa and A.D. Mercer, The Institute of Materials, 671-677, (1993). Proceedings of the 10 th European Corrosion Congress, 5-8 July, Barcelona, Spain (1993), (Keynote Presentation)
85. M.Ürgen, A. Umay, **A.F. Çakır**, The Relation Between Pitting - Hysteresis Behaviour and Intergranular Corrosion in Al-Cu Alloys), Progress in the Understanding of Corrosion, V:II, Ed. J.M. Costa and A.D. Mercer, The Institute of Materials, 1389-95 (1993), Proceedings of the 10 th European Corrosion Congress, 5-8 July, Barcelona, Spain (1993)
86. M.Ürgen, **A.F. Çakır** and O.L. Eryılmaz, The Use of the Decoration Technique to Evaluate Defects in ARC PVD TiN and CrN Coated Steel, 34 th Corrosion Science Symposium, University of Sheffield, Sheffield, 22-24 September, 1993
87. A. Umay and M. Ürgen, **A.F. Çakır**, External Corrosion of Hot and Cold Water Pipes in Buildings, Korozyon, 5,1, 18-26 (1993)
88. **A.F. Çakır** and F. Çağman, Goldsmiths and Fire Gilded Articles of the Topkapı Palace Before 1600 A.D., Outils et Ateliers d' Orfèvres des Temps Anciens, Ed. C. Eluere, Atiquites Nationales Memoires 2, Societe des Amis du Musee des Antiquites Nationales et du Chateau de Saint-Germain-en-Laye 1993, 201-212. Proceedings of the International Symposium on the Goldsmith's Tools and Workshops, Saint-Germain-en-Laye, Paris, January 17-19, (1991)
89. **A. F. Çakır**, Metallic Coatings in Corrosion Protection, Kimya Mühendisliği, 145, 19(3), (1993) 3-17

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

90. M.Ürgen, **A.F. Çakır** and O.L. Eryılmaz, The Use of the Decoration Technique to Evaluate Defects in ARC PVD TiN and CrN Coated Steel 4 th EAST Conference " NewMaterials and Technologies in Surface Finishing for Better Corrosion and Tribology Properties" , 18-19 November, 1993, Schwaebisch Gmünd, Germany
91. **A. F. Çakır**, Surface Coating by Chemical Vapor Deposition, Metalurji, 86 (1993) 14-30
92. With M. Doruk, H. Yalçın and T. Koç, Atmospheric Corrosion and Coatings - Underground Corrosion and Cathodic Protection, Chamber of Chemical Engineers, Ankara Branch, 1-6 November 1993, p247, Chapter II, pp 65-124
93. **A. F. Çakır** and Y. Taptık, Metal Coatings, Seminar on Metal Coating, Quality Control, and ISO-9000 in Metal Coating Industry, KOSGEB, 1-3 December, İstanbul, 1993
94. **A. F. Çakır**, Protection of Ships by Organic Coatings, Gemi ve Deniz Teknolojisi, 1, 2 (1994)
95. Mitterer, M. Ürgen, **A.F. Çakır**, O.L. Eryılmaz, Corrosion Properties of Decorative Coatings within the System Zr-B-N, Proceedings of the IV Corrosion Symposium, Ed.: **A.F. Çakır** and M. Ürgen, pp. 31-38, 25-27 October 1994 İstanbul, Corrosion Association 1994
96. A.Umay, **A.F. Çakır**, M. Ürgen, The Effect of Indium and Zinc on the Potential and Efficiency of Al-Zn In Sacrificial Anodes. Proceedings of the IV Corrosion Symposium, Ed.: **A.F. Çakır** and M. Ürgen, pp. 151-160, 25-27 October 1994 İstanbul, Corrosion Association 1994
97. G. Topgöl, M. Ürgen, **A.F. Çakır**, Pitting Corrosion of Al-Ag Alloys, Proceedings of the IV Corrosion Symposium, Ed.: **A.F. Çakır** and M. Ürgen, pp. 183-190, 5-27 October 1994 İstanbul, Corrosion Association 1994
98. **A.F. Çakır** and M. Ürgen, Editors "Proceedings of Corrosion Symposium",; 25-27 October 1994 İstanbul, Corrosion Association, 1994
99. N. Cansever, **A.F. Çakır**, M. Ürgen, Stress Corrosion Cracking of 304 Stainless Steel under Salt Crust and the Effect of Molybdate Ions on Cracking, Proceedings of the IV Corrosion Symposium, Ed.: **A.F. Çakır** and M. Ürgen, pp. 217-226, 5-27 October 1994 İstanbul, Corrosion Association 1994
100. **M. Ürgen**, O.L. Eryılmaz and A.F. Çakır, The Use of the Decoration Technique to Evaluate Defects in ARC PVD TiN and CrN Coated Steel, Proceedings of 3rd EAST Conference, 18-19 Nov. 1993 Scwaebisch Gmünd, Germany, New Materials and Technologies in Surface Finishing for Better Corrosion and Tribology Properties, p. 26-31, Eugene Leuze Verlag, Saulgau, 1994.
101. **M. Ürgen**, A.F. Çakır, O.L. Eryılmaz, Corrosion Behaviour of CrN Coated Steels, Proceedings of the II.International Ceramic Congress Cilt 2.,pp 373- 379, 24-28 October 1994, İstanbul, Turkish Ceramic Society No 11, 1994
102. M. Ürgen, **A.F. Çakır**, O.L. Eryılmaz, C.Mitterer, Corrosion of Zirconium Boride and Zirconium Boron Nitride Coated Steels, Surface & Coatings Technology, 71, 60-66, 1995.
103. M. Ürgen, **A.F. Çakır**, O.L. Eryılmaz, C.Mitterer, Defect Evaluation by Copper Decoration Technique, Practical Metallography, 3, 126-135, 1995
104. O.V. Akgün, M. Ürgen, **A.F. Çakır**, The Effect of Heat Treatment on Corrosion Behavior of Laser Surface Melted 304L Stainless Steel, Materials Science and Engineering, A203, 324-331, 1995
105. M. Ürgen, **A.F. Çakır**, O.L. Eryılmaz, C.Mitterer, Defect Evaluation by in PVD Coated Steels by Copper Decoration Technique, Berichte der 9. Internationalen Metallographie Tagung, 28-30 Sept. 1994 Leoben Österreich, Fortschritte in der Metallographie, p. 443-451, Carl Hanser Verlag, München, Wien, 1995
106. E. Keleşoğlu, C. Mitterer, P. Loblichler, M. Ürgen, **A.F.Çakır**, Defect Evaluation in PVD Hard Coatings, VDI Seminar, Prüfverfahren für dünne Schichten, Poster Presentation, Düsseldorf 12 December 1995
107. A. Umay, **A.F. Çakır**, M. Ürgen, Sacrificial Anodes for Marine Use and the Investigation of the Properties of Al-Zn-In, Proceedings of the Ship Building and Marine Technology Technical Congress 95, pp. 108-118, November 1995, İstanbul
108. Y. Taptık, M. Ürgen, **A.F. Çakır**, Optimisation of the Production of Hard Ceramic Coated Cutting Tools by Taguchi Technique, Proceedings 4. International Quality Congress, Vol: 2 pp. 388-409, 8-9 November 1995, İstanbul
109. F. Serçelik, **A.F. Çakır**, M. Ürgen, The Use of Electrochemical Impedance Spectrography for the Evaluation of Organic Paints and Coatings. Proceedings of Paint 95, Paints, Varnish Ink and Supplementary Product Industrial Congress and Exhibition, pp. 89-100, 22-24 October 1995, İstanbul.
110. N. Cansever, **A.F. Çakır**, M. Ürgen, Fractographic Observations on Chloride Stress Corrosion Cracking of AISI 304 Stainless Steel Under Salt Crust, Practical Metallography, 8, 421-431, 1996
111. N. Cansever, **A.F. Çakır**, M. Ürgen, New Accelerated Test for Studying the Susceptibility of Stainless Steels to Chloride SCC under Salt Crust, Corrosion Science , 38, 11, pp. 2043-2048, 1996
112. M. Ürgen, **A.F. Çakır**, Effect of Heating on Corrosion Behavior of TiN and CrN Coated Steels, International Conference on Metallurgical Coatings and Thin Films, ICMTF 96, San Diego, 22-26 April 1996
113. M. Ürgen, **A.F. Çakır**, O.L. Eryılmaz, C. Mitterer, Corrosion Behavior of Zirconium Boron Nitride and Zirconium Boride Multilayer Coated Steels, Proceedings Interfinish 96, Vol. I, pp 351-358, 1996 Birmingham

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

114. **A.F. Çakır**, M. Ürgen, E. S. Kayalı, University-Industry Cooperation in High Technology Hard Ceramic Coatings: Production-Application and Development, International Conference on Technology Management University/Industry/Government Collaboration- UNIG'96, June 24-26 1996, Istanbul,
115. O.L. Eryılmaz, M. Ürgen, **A.F. Çakır**, M. K. Kazmanlı, U.H. Kahraman, The Effect of Sputter Cleaning of Steel Substrates with Neutral Molecule Source on the Adhesion of TiN Films, 5th International Conference on Plasma Surface Engineering, 9-13 Sept. 1996 Garmisch-Partenkirchen
116. M.K. Kazmanlı, K. Tokmanoğlu, M. Ürgen, **A.F. Çakır**, Properties of Multi-Layer TiN-TiAlN Coatings Produced by Arc PVD Technique, Proceedings of the III. International Ceramic Congress Cilt 2., pp 372-378, 22-25 October 1996, İstanbul, Turkish Ceramic Society No 17,
117. M. Ürgen, **A.F. Çakır**, Effect of Heating on Corrosion Behaviour of TiN and CrN Coated Steels, Surface and Coatings Technology, 96, pp. 236-244, 1997
118. M. Ürgen, O.L. Eryılmaz, **A.F. Çakır**, E.S. Kayalı, B. Nilufer, Y. Işık, Characterization of Molybdenum Nitride Coatings by the Arc-PVD Technique, Corrosion Science, 94-95, pp 501-506, 1997
119. **A.F. Çakır**, Electroless Nickel Coating and its Applications, Yüzey İşlemler, 1, 2, pp. 76-83, 1997
120. Ö. Keleş, Y. Taptık, O.L. Eryılmaz, M. Ürgen, **A.F. Çakır**, Optimization of the Arc-PVD TiN Coating Process Parameters by the Taguchi Technique, International Conference on Metallurgical Coatings and Thin Films, ICMTF 97, San Diego, 21-25 April 1997
121. M. Ürgen, O.L. Eryılmaz, **A.F. Çakır**, E.S. Kayalı, B. Nilufer, Y. Işık, Characterization of Molybdenum Nitride Coatings by the Arc-PVD Technique, International Conference on Metallurgical Coatings and Thin Films, ICMTF 97, San Diego, 21-25 April 1997
122. **A.F. Çakır**, Developments in Corrosion Protection: Corrosion Control in Reinforced Concrete Structures and Hard Ceramic Coated Materials, Proceedings of the 9th International Metallurgy and Materials Congress, Vol. I pp. 139-158, 11-15 June 1997, İstanbul (Invited Lecture)
123. F. Sertçelik, **A. F. Çakır**, M. Ürgen, D. Gabe and D. Ross, Effect of pretreatments prior to Anodizing on the Surface Properties of 6063 Al Alloy, Proceedings of the 9th International Metallurgy and Materials Congress, Vol. I, pp. 159-164, 11-15 June 1997, İstanbul
124. D. Alpdoruk, E.S. Kayalı, **A.F. Çakır**, A. Osma and G. Avuncan, effect of TiN Ceramic Thin Film on the Cutting Tools' Life, Proceedings of the 9th International Metallurgy and Materials Congress, Vol. I, pp. 351-356, 11-15 June 1997, İstanbul
125. Y. Taptık, K. Kazmanlı, M. Ürgen and **A.F. Çakır**, Economic Analysis of the Use of Hard Ceramic Coated Cutting Tools, , Proceedings of the 9th International Metallurgy and Materials Congress, Vol. I, pp. 383-388, 11-15 June 1997, İstanbul
126. F. Sertçelik, **A. F. Çakır**, M. Ürgen, D. Gabe and D. Ross, Surface Properties of 6063 Aluminum Alloy AC Anodised in Sulfuric Acid solutions, 38 th Corrosion Science Conference, 10-12 September, London, 1997
127. Sertçelik, **A.F. Çakır**, M. Ürgen, D.R. Gabe, "The effects of Pre-Surface Treatments on the Corrosion resistance of 6063 Aluminum alloy", *Proceedings of 7th Corrosion Symposium*, 18-20 October, İstanbul, 378-388, Corrosion Association Publication, Ankara – Turkey, 2000
128. M. Ürgen, **A.F. Çakır**, The Corrosion Protective Properties of Nitride Based Hard Coatings Produced by PVD Technique, Proceedings Eurocorr'97, Vol.II, pp. 297-308, 22-25 September , Trondheim, Norway, 1997.
129. M. Ürgen, **A.F. Çakır**, Korozyon Hasarları, *Hasar Analizi Seminer Notları*, pp 6.1-6.14, TMMOB, Metalurji Mühendisleri Odası, İstanbul Şubesi, İstanbul, 7-11 Haziran 1997,
130. M. Ürgen and **A.F. Çakır**, Corrosion Protection of Metallic Substrates by PVD Produced Hard Ceramic Coatings, 38 th Corrosion Science Conference, 10-12 September, London, 1997
131. A. Umay, **A.F. Çakır** and M. Ürgen, The Effect of Zinc and Indium Content on the Performance of Al-Zn-In Sacrificial Cathodic Protection Anodes, Proceedings Eurocorr'97, Vol. I, pp 325-330, 22-25 September , Trondheim, Norway, 1997.
132. F. Sertçelik, **A. F. Çakır**, M. Ürgen, D. Gabe and D. Ross, Surface Properties of 6063 Aluminum Alloy AC Anodised in Sulfuric Acid solutions, 38 th Corrosion Science Conference, 10-12 September, London, 1997
133. O.L. Eryılmaz, M. Ürgen, **A.F. Çakır**, M. K. Kazmanlı, U.H. Kahraman, "The Effect of Sputter Cleaning of Steel Substrates with Neutral Molecule Source on the Adhesion of TiN Films", *Surface and Coating Technology*, 97, pp 488-491, 1997
134. F. Serçelik, **A. F. Çakır**, M. Ürgen, D. H. Ross and D. R. Gabe, "The effect of Molybdate Ions on A:C: Sulphuric Acid Anodized 6063 Aluminium Alloys", *Trans. Inst. of Metal Finishing*, 5, 76, pp 179-182, 1998 (**Best Paper Award**)
135. Ö. Keleş, Y. Taptık, O.L. Eryılmaz, M. Ürgen, **A.F. Çakır**, "Optimization of arc-PVD TiN coating process parameters by Taguchi technique", *Quality Engineering*, 12 (1), 29-36 1999-2000
136. Y. Şen, M. Ürgen, K. Kazmanlı, **A.F. Çakır**, "Stripping of CrN from CrN coated HSS steels", *Surface & Coatings Technology*, 113/1-2 (1999) 31-35.

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

137. N. Cansever, **A.F. Çakır**, M. Ürgen, "Inhibition of stress corrosion cracking of AISI 304 stainless steels by molybdate ions at elevated temperatures under salt crust", *Corrosion Science* 41, 7, (1999) 1289-1303
138. Grigoriev, A. Metel, **A.F. Çakır**, M. Urgan, J.-P. Celis, M. De Bonte. Thin film deposition through complex ion-plasma treatment, Proc. of 14th Int. Conf. on Ion – Surface Interaction, Zvenigorad, Moscow, 2, (1999), 218
139. **A.F. Çakır**, A. Metel, M. Ürgen, S. Grigoriev, "Arc_PVD coating of metallic and dielectric substrates using neutral molecular beam source pre-treatment", *Galvanotechnik*, 91 (1), (2000) 1-8,
140. E. Şireli, M. Ürgen, **A.F. Çakır**, 316L paslanmaz çeliklerin üzerinde katodik ark FBB ve oksidasyon teknikleri kullanılarak oluşturulan zirkonyum oksit kaplamaların özellikleri, *Proceedings of the 10th International Metallurgy and Materials Congress*, Vol. II, pp. 811-821, 24-28 May 2000, İstanbul
141. O.L. Eryılmaz, A. Erdemir, M. Ürgen, **A.F. Çakır**, Metan ve asetilen plazmasında üretilen elmas benzeri karbon filmelerin aşınma ve sürtünme davranışları, *Proceedings of the 10th International Metallurgy and Materials Congress*, Vol. II, pp. 869-877, 24-28 May 2000, İstanbul
142. M.K. Kazmanlı, M. Ürgen, **A.F. Çakır**, Molybdenum nitrid kaplamaların üretim ve karakterizasyonu, *Proceedings of the 10th International Metallurgy and Materials Congress*, Vol. II, pp. 743-75, 24-28 May 2000, İstanbul
143. Kazmanlı M.K., Ürgen M., **Çakır A.F.**, Effect of nitrogen pressure, bias voltage and substrate temperature on the phase structure of Mo-N coatings produced by cathodic arc PVD, *Surface and Coat. Technology*, 167 (1), 77-82, April 2003.
144. Solak N., Ustel F., Urgan M, **Çakır A.F.**, Aydın S., Oxidation behaviour of molybdenum nitride coatings. *Surface and Coat. Technology*, 174, 713-719, Sep. 2003
145. Kepenek B., Şeker U.Ö.Ş., **Çakır A.F.**, Ürgen M., Tamerler C., Photocatalytic bactericidal effect of TiO₂ thin films produced by cathodic arc deposition method. *Key Eng. Materials*, 254-56, 463-466, 2004
146. Bozyazı E., Ürgen M., **Çakır A.F.**, Comparison of reciprocating wear behaviour of electrolytic hard chrome and arc PVD CrN coatings. *Wear* 256 (7-8), 832-839, Apr. 2004.
147. Kepenek B., Öncel S., **Çakır A.F.**, Ürgen M, Photoactive TiO₂ coatings on metal substrate by cathodic arc deposition techniques. *Key Eng. Materials*, 264-268, 549-552 part 1-3, 2004.
148. Turutoğlu T., Ürgen M., **Çakır A.F.**, Öztürk A., Characterization of Mo₂N/Ag nanocomposite coatings produced by magnetron sputtering. *Key Eng. Materials*, 264-268, 489-492 Part1-3, 2004.
149. **A.F. Çakır**, "Geçmişten geleceğe yüzey işlemleri", XII International Metallurgy and Materials Congress, Sep 28-Oct. 2 İstanbul, 2005 (**Keynote Lecture**)
150. Simsek G., **Çakır A.F.** "Diffusion and enrichment of silver at the gold layer of gold gilt silver embroidery wires of Qaaba curtains", 36th International Symposium on Archaeometry (ISA 2006), (2-6 May 2006), Quebec City, Canada.
151. **Çakır A.F.**, Simsek G., Tezcan H., "Characterization of silver and gold gilt silver wires from five "Kiswa" embroidered silk Qaaba covers presently exhibited at the Topkapi Palace Museum, dated between the 16th and 19th centuries.", E-MRS 2005 Spring Meeting, (31 May-3 June 2005), Symposium Q: Materials Science and Cultural Heritage, Strasbourg, France, (**Best Paper Award**)
152. **Çakır A.F.**, Simsek G., "Gold gilded wires of Qaaba curtains from Topkapi Palace Museum Collection", International Symposium Topkapi Palace and Ottoman Art, (7-11 February 2005), İstanbul, Turkey.
153. **Çakır A.F.**, Simsek G., Tezcan H., "Characterization of gold gilt silver wires from five embroidered silk Qaaba curtains dated between the 16th and 19th centuries.", *Applied Physics A: Materials Science and Processing*, 83 (4), 503 – 511, 2006
154. A.F. Çakır "Korozyon kaç mal oluyor (Cost of Corrosion) ", X International Corrosion Symposium 1-4 Nov. Adana, Turkey, 2006 (**Keynote Lecture**)
155. N. Solak, F. Üstel, S. Aydın, M. Ürgen, **A. F. Çakır.**, "Comparison of Oxidation Behavior of Nitride Based Hard Ceramic Thin Film Coatings Using Thermal Analysis Techniques " , Sohn International Symposium of Advanced Processing of Metals and Materials, August 27 – 31, San Diego, California USA, 2006
156. H. Bilhan, T. Bilgin, **A.F. Çakır**, B. Yüksel and J.A. Von Fraunhofer, The Effect of Mucine, IgA, Urea, and Lysozyme on the Corrosion Behavior of Various Non-precious Dental Alloys and Pure Titanium in Artificial Saliva, *Journal of Biomaterials Applications*, Vol. 22, No. 3, 197-221 (2007)
157. A. Erdemir, M. Ürgen, **A.F. Çakır**, O.L. Eryılmaz, K. Kazmanlı and Ö. Keleş, "Hard and low friction nitride coatings and methods for forming the same", US Patent 7,211,323, 2007
158. **A.F. Çakır**, "New Generation Molybdenum Nitride Based High Wear Resistant Coatings", WIN 2008 Surface Treatment Technology Fair, February 8, 2008, İstanbul, Turkey
159. **S. Yeniyol**, T. Ozdemir, A. Bilir, and **A.F. Çakır**, 2874: Cellular effect of nano and macrocoatings on cpTi surfaces, The IADR 86th General Session and Exhibition, Toronto, Canada July 2008
160. M. Ürgen, **A.F. Çakır** and A. Erdemir, "Advanced tribological coatings for automotive applications" International Conference on Automotive Technologies, Nov. 13-14, 2008

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

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 IŞTON 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 IŞTON 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, İzmir (PETKİM)
(Consultant for design and application)
14. **Cathodic Protection of Heat Exchangers,**(Project Director))(1991) Petrochemical Industries, İzmir (PETKİM)
(Consultant for design and application)
15. **Cathodic Protection of Pipelines,** (Project Director) (1992) Petrochemical Industries, İzmir (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)
20. **Copper-Nickel-Chromium Plating Plant Improvement Project.** (Co-Project Director) (1997) İ.T.Ü Development Foundation and PDK A.Ş.,
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” Çakır 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)

CV of Prof. Dr. Ali Fuat ÇAKIR (Nominated for re-election to the BoA) Continued

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. **CathodicPprotection 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 Mr. Sam McFARLAND (Nominated for re-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 25 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, including the Pearl GTL project for Qatar and Kashagan in Kazakhstan.

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

I am recognised outside Shell as a technical expert and am active in outside bodies, having been Chair of NACE Specific Technology Group 31 (responsible for coordination of the development of NACE standards). I am the current Director of the European Area of NACE, currently also serving on the Board of Administrators of EFC. I received NACE's Distinguished Service Award in 2011. I am also currently involved as Shell's representative 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 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 and also the leading Technical Authority for Materials in Upstream Oil and Gas Projects.

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

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.

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 (Nominated for re-election to the BoA) (Continued)

Education	Other Qualifications	
BSc (Hons) Metallurgy, University of Strathclyde, UK MSc Corrosion Engineering, University of Manchester, UK	Chartered Engineer Member of The Institute of Materials, Minerals and Mining (MIMMM) Member of The Institute of Marine Engineers (MIMarEST) ISO 9000 Lead Auditor IRCA Certificated Auditor	
Languages	Industry Competence	Methodological Competence
English	• Materials selection • Corrosion Engineering • Integrity Management • Metallurgy • Chemical treatments • Fitness for service assessments • Fabrication • Inspection • Failure analysis • Static equipment design and operation.	• FAIR-ER and FAIR-MS • Integrity assessment • Risk based inspection • Risk assessment • Incident investigation • Root cause analysis • PRP/Flawless • Technical auditing • QA/QC

CV of Mr. Marcel ROCHE (Nominated for election to the STAC)

CV Marcel ROCHE

ROCHE Marcel Georges Louis.

French, born on Oct. 8, 1945 at Valence, Drôme, France.

EDUCATION

Chemical Engineering degree from INSA-Lyon (1967).

Refining and Chemical Engineering degree from ENSPM (1968).

PRESENT POSITION

Corrosion Consultant through Ad'missions.

PAST PROFESSIONAL EXPERIENCE RECORD

- 1970 to 1979: Corrosion Engineer (Technip Engineering, seconded to IFP).
- 1979 to 1987: Corrosion Engineer in the Corrosion Department of SNEA(P).
- 1987 to 1990: Head of Inspection- Corrosion-Treatments Department of Elf Gabon (Port-Gentil).
- 1990 to 1995: Head of Corrosion Department at SNEA(P), then EAP (Elf Aquitaine Group).
- 1995 to 2000: Coordinator for Static Equipment in the Technology Department of the Refining Direction at headquarters of Elf Antar France.
- 2000 to end Aug. 2007: Head of Corrosion Department in the Technology Division of the Exploration & Production branch of TotalFinaElf, then Total, in charge of corrosion prevention and control in all oil and gas production, storage and transport facilities, including selection of materials and design of protection systems (paint systems, coatings, cathodic protection, inhibition, etc.) and corrosion monitoring systems.
- From September 2007 to end June 2008: Corrosion Expert at the Technology Division of the Exploration & Production branch of Total.
- Retired from Total SA since July 1st, 2008.

MEMBERSHIP OF PROFESSIONAL BODIES

- President of CEFACOR (Centre Français de l'Anticorrosion) and CEFACOR CERTIFICATION since 1st July 2011
- Past Chairman of the "Cathodic Protection & Associated Coatings" Committee of CEFACOR (Centre Français de l'Anticorrosion). Organization of the CEFACOR Aix-en-Provence Seminars in 1999, 2003, 2006, and June 2011.
- Member of the Board of Administrators of EFC (European Federation of Corrosion) representing France through the French permanent secretariat hold by FFC (Fédération Française pour les sciences de la Chimie)
- Past Chairman of the Working Party on Cathodic Protection (WP 16) of the EFC.
- Member of NACE International.

CV of Mr. Marcel ROCHE (Nominated folection to the STAC) (Continued)

STANDARDISATION

- Chairman of the « Cathodic Protection » committee of AFNOR (A05L)
- Member of standardization working groups in cathodic protection: CEN TC219 WG1 for Buried applications, WG3 for Seawater applications (Convenor), WG4 for Internal of apparatuses, ISO TC67 SC2 WG11 for Pipelines.
- Project Leader of standardization working group for pipeline field joint coatings (ISO TC67 SC2 WG14-3).

CERTIFICATION AND ACCREDITATION

- Certified level 3 (expert) in cathodic protection for land and marine application sectors with CEFACOR Certification.
- COFRAC (French Accreditation Body) technical evaluator in cathodic protection.

GIVEN TRAINING AND COMMUNICATION

- Teacher in corrosion in Oil & Gas industries and cathodic protection topics, especially for IFP Training , TPA (Total Professeurs Associés), Institut de la Corrosion (subsidiary of KEMAB from Sweden), UNI Strategic (Kuala Lumpur), IDC (Kuala Lumpur), Top Link Asia (Perth, Melbourne).
- Author or co-author of more than 80 papers presented at national and international levels. Most recent papers have been presented at NACE Conferences, Eurocorr's, SPE Conferences and BHR Conferences and were dealing with onshore and offshore CP and coatings as well as more general corrosion topics mainly related to pipelines.

Participation to books

- « La protection électrochimique – Protection cathodique et passivation anodique » : Chapter 13 in book « Prévention et lutte contre la corrosion, une approche scientifique et technique » edited by B. Normand, N. Pébère, C. Richard and M. Wery. Presses Polytechniques et Universitaires Romandes, 2004
- « La protection cathodique et ses applications industrielles » : Chapter 14 in volume 2 « Pratique industrielle » of book « Corrosion et anticorrosion » edited by G. Béranger and H. Mazille, Lavoisier, 2002, Editions Hermes Science
- Participation to the CD-ROM « Multimedia Corrosion Guide » edited by INSA de Lyon, June 1999. 2nd edition (in english) edited in 2002
- Participation to the 2nd edition of book « La protection cathodique, guide pratique », 1986, Editions Technip, Paris
- “Protection contre la corrosion des ouvrages maritimes pétroliers”: book in 2 parts (880 and 250 pages) edited by IFP and published by Editions Technip (Dec. 1978, March 1979)

CV of Prof. Dr.-Ing. Ralf FESER (Nominated for election to the STAC)

University of Applied Sciences
Laboratory for Corrosion Protection
Frauenstuhlweg 31
D-58644 Iserlohn
Germany
Tel.: +49 2371 566147
E-mail: feser.ralf@fh-swf.de

Private:
Am Südenberg 74
D-58644 Iserlohn
Germany

28.3.1960	Born in Würzburg, Germany Since 1989 married with Dr. Jutta Küpper-Feser, 1 son
1979	Finalizing High school, Würzburg, Germany
1979 -80	Military service in Koblenz and Veitshöchheim, Germany
1980 - 85	Study of materials sciences at the Friedrich-Alexander-University Erlangen-Nürnberg, Germany, specializing corrosion and surface technology (Prof. Kaesche)
1986	Diploma examination materials sciences
1986 - 90	Research assistant Max-Planck-Institut für Eisenforschung in Düsseldorf, Germany in the working group Corrosion PhD-work "Corrosion of polymer coated iron" under supervision of Prof. H.-J. Engell, Prof. Dr. M. Stratmann and Prof. K. Heusler, Clausthal-Zellerfeld, Germany
1991	Group leader corrosion and material at the research laboratory of Metallgesellschaft in Frankfurt am Main, Germany
since 1995	Lectureship at the University Erlangen-Nürnberg, Germany
since 1996	Professor for corrosion and corrosion protection at the University of applied sciences in Iserlohn, Germany
since 2005	CEO of Institute for Maintenance and Corrosion Protection gGmbH at the University of applied sciences in Iserlohn, Germany
since 2008	Lectureship at the RWTH Aachen University, Germany

Other activities:

- Vice president GfKORR
(Gesellschaft für Korrosion und Korrosionsschutz e.V., Frankfurt, Germany)
- Convenor GfKORR working group Corrosion and corrosion protection of copper alloy
- (2003 - 2012) President of the research board of the hot dip galvanizing industry GAV
(Gemeinschaftsausschuss Verzinken e.V., Düsseldorf, Germany)
- Member of the scientific board of AiF (German organisation of industrial research organization)
- Member of the board of WCO (World Corrosion Organisation)

Special experience and knowledge in:

Corrosion of non-ferrous metals, corrosion in tap water, corrosion protection by hot dip galvanizing, pretreatment of metals failure analysis, corrosion measurement techniques, electrochemistry

Hobbys

Sport (basketball, marathon, biking, swimming)

CV of Prof. Tunç TÜKEN (Nominated for election to the STAC)**Curriculum Vitae****TUNÇ TÜKEN****Education:**

- B.S. Chemistry, 1998, University of Çukurova, Turkey
- M.S. Physical Chemistry, 2000, University of Çukurova, Turkey
- Ph.D. Physical Chemistry, 2005, University of Çukurova, Turkey

Experience

- 1998- 2005: Research Assistant, Çukurova University
- 2005- 2013: Faculty member, Çukurova University
- 2013- : Professor of Physical Chemistry, Çukurova University

Scholarships:

- 2007 Scholarship from The Scientific and Technological Research Council of Turkey TUBITAK, visiting scientist, North Dakota State University, USA.

Educational/Training Corrosion Courses

- Lecturer in electrochemistry summer schools, on the topic of electrochemical impedance spectroscopy (EIS)
- Lecturing electrochemistry at the university

Research Projects

- “Synthesis of soap free grease for heavy industries” Ministry of Science, Industry and Technology of Turkey, Project No: 00425.STZ.2009-2, 2009-2011.
- “Graphite modified polymer coatings for electrocatalysis”, TUBITAK Project No: TBAG108T407, 2008-2010.
- Three projects supported by Cukurova University Research Found (Scientific Research Projects - BAP)

Research Interests:

- Green and film assembling corrosion inhibitors, conductive polymer films, modified electrodes for electrocatalysis and photoelectrochemistry.

CV of Prof. Tunc TÜKEN (Nominated for election to the STAC) (Continued)

Publications

Book chapter:

1.T.Tüken, M. Erbil, B. Yazıcı, Chapter 9: Conducting Polymers and Corrosion Protection, *Corrosion Research Trends*, ed: Wang, I.S., Nova Science Publishers Inc., New York (2007) Pp:275-316. (ISBN 978-1-60021-733-3)

2. T.Tüken, M. Erbil, B. Yazıcı, Chapter 9: Conducting Polymers and Corrosion Protection, *Corrosion Protection: Processes, Management and Technologies*, ed: T Kalnins and W.Gulbis, Nova Science Publishers, Inc, New York (2009) Pp:187-233. (ISBN 978-1-60741-837-5)

Research Articles

1. G. Sığircık, T. Tüken, M. Erbil, A comparative study of polymer films on steel from ionic liquid and aqueous solution. [Materials Chemistry and Physics](#) Volume 138, Issue 2-3, 15 March 2013, Pages 823-832
2. T. Tüken, F. Demir, N. Kıcır, G. Sığircık, M. Erbil “Inhibition effect of 1-ethyl-3-methylimidazolium dicyanamide against steel corrosion” *Corrosion Science* 59 (2012) 110-118.
3. T. Tüken, N. Kıcır, N. T. Elalan, G. Sığircık, M. Erbil “Self assembled film based on hexane-1,6-diamine and 2-mercapto-ethanol on copper” *Applied Surface Science* 258 18-1 (2012) 6793-6799.
4. T. Tüken, A.B. Çavuşoğlu, E. Altınbaş, M. Erbil “Polypyrrole film modified with electroless metal deposition” *Progress in Organic Coatings*, 71-2 (2011) 153-161.
5. B.Doğru Mert, B. Yazıcı, T. Tüken, G. Kardaş, M. Erbil “Anodizing Behaviour of Aluminum” *Protection of Metals and Physical Chemistry of Surfaces* 47/1 (2011) 102-107.
6. S.Yalcinkaya, T.Tüken, B.Yazici, M.Erbil “Electrochemical synthesis and corrosion behaviour of poly (pyrrole-co-o-anisidine-co-o-toluidine)” *Current Applied Physics*, 10/ 3 (2010) 783-789.
7. S.Yalcinkaya, T.Tüken, B.Yazici, M.Erbil, “Electrochemical synthesis and corrosion performance of Poly (pyrrole-co-o-toluidine”, *Progress in Organic Coatings*, 63/4 (2008) 424-433.
8. S. Yalcinkaya, T. Tüken, B. Yazici, M. Erbil, “Electrochemical synthesis and corrosion performance of poly(pyrrole-co-o-anisidine)” *Progress in Organic Coatings*, 62/2 (2008) 236-244.
9. T. Tüken, B. Yazıcı, M. Erbil “Graphite intercalated polymer coatings on stainless steel” *Surface&Coating Technologies*, 202 (2007) 425–432

CV of Prof. Tunc TÜKEN (Nominated for election to the STAC) (Continued)

10. T. Tüken, G. Tansuğ, B. Yazıcı, M. Erbil Poly(N-methyl pyrrole) and its copolymer with pyrrole for mild steel protection, *Surface&Coating Technologies*, 202 (2007) 146-154
11. T.Tüken, B.Yazıcı, M. Erbil "Polypyrrole modified nickel coating on mild steel", *Materials&Design*, 28 (2007) 208–216
12. T.Tüken, G.Tansuğ, B. Yazıcı, M.Erbil, "Polypyrrole films modified with graphite layer on mild steel" *Progress in Organic Coatings*, 59 (2007) 88-94.
13. G.Tansuğ, T.Tüken, A.T.Özyılmaz, B.Yazıcı, M.Erbil, " Mild steel protection with epoxy top coated polypyrrole and polyaniline in 3.5% NaCl, *Current Applied Physics* (2007) 7 440-445.
14. T.Tüken, B.Yazıcı, M.Erbil "The corrosion behaviour of polypyrrole coating synthesized in phenylphosphonic acid solution" *Applied Surface Science*, 252 (2006) 231-2318.
15. T.Tüken, B.Yazıcı, M.Erbil "The Use of Polyindole for prevention of copper Corrosion" *Surface&Coatings Technology*, 200 (2006) 4802-4809.
16. Tüken, T. "Polypyrrole films on stainless steel" *Surface&Coatings Technology*, 200 (2006) 4713-4719.
17. T.Tüken, B.Yazıcı, M.Erbil "Zinc modified polyaniline coating for mild steel protection", *Materials Chemistry and Physics* 99 (2006) 459–464.
18. T.Tüken "Zinc modified polypyrrole coating on mild steel", *Surface & Coatings Technology*, 201/6 (2006) 2782-2790.
19. T.Tüken "Zinc deposited polymer coatings for copper protection", *Progress in Organic Coatings* 55 (2006) 60–65
20. T.Tüken, B.Yazıcı, M.Erbil "Polypyrrole film on nickel plated copper", *Progress in Organic Coatings*, 54 (2005) 372-376.
21. T.Tüken, B.Yazıcı, M.Erbil "Electrochemical Synthesis of Polythiophene on Nickel Coated Mild Steel and Corrosion Performance" *Applied Surface Science*, 239 (2005) 398-409.
22. T.Tüken, B.Yazıcı, M.Erbil "Polypyrrole/Polythiophene Coating for Copper Protection", *Progress in Organic Coatings* 53/ 1 (2005) 38-45.
23. A.T.Özyılmaz, T.Tüken, B.Yazıcı, M.Erbil "The Electrochemical Synthesis and Corrosion Performance of Polyaniline on Copper" *Progress in Organic Coatings*, 52/2 (2005) 92-97.
24. T.Tüken, G.Arslan , B.Yazıcı , M.Erbil "The Corrosion Protection of Mild Steel by Polypyrrole/Polyphenol Multilayer Coating" *Corrosion Science*, 46/11 (2004)2743-2754.
25. T.Tüken, B.Yazıcı, M.Erbil " Electrochemical synthesis of polyindole on nickel coated mild steel and its corrosion performance" *Surface&Coatings Technologies*, 200 (2005) 2301– 2309
26. T.Tüken, B.Yazıcı, M.Erbil "The Electrochemical Synthesis and Corrosion Performance of Polypyrrole on Brass and Copper", *Progress in Organic Coatings*, 51 (2004) 152 – 160.
27. T.Tüken, G.Arslan , B.Yazıcı , M.Erbil "The Preparation of Polypyrrole coated Copper and Brass Electrodes For Electrocatalysis" *Progress in Organic Coatings* 49 (2004) 153-159.
28. T.Tüken, A.T.Özyılmaz, B.Yazıcı, M. Erbil, "Electrochemical Synthesis of Polyaniline on Mild Steel in Acetonitrile-LiClO₄ and Corrosion Performance" *Applied Surface Science* 236 (2004) 292-305.
29. T.Tüken, A.T.Özyılmaz, B.Yazıcı, G.Kardaş, Erbil, M "Polypyrrole and Polyaniline top Coats on Nickel Coated Mild Steel" *Progress in Organic Coatings*, 51 (2004) 27-35.
30. T.Tüken, M.Düdükçü, B. Yazıcı, M. Erbil, "The Use of Polyindole for Mild Steel Protection", *Progress in Organic Coatings* 50 (2004) 273-282.
31. T.Tüken, B.Yazıcı , M.Erbil "The Use of Polythiophene for Mild Steel Protection" *Progress in Organic Coatings*, 51 (2004) 205-212.
32. T.Tüken, B.Yazıcı, M.Erbil "A New Multilayer Coating for Mild Steel Protection" *Progress in Organic Coatings* 50 (2004) 115-122.

CV of Prof. Tunç TÜKEN (Nominated for election to the STAC) (Continued)

- 33.** T.Tüken,B.Yazıcı, M.Erbil “The Effect of Nicotinamide on Iron Corrosion in Chloride Solutions”, Turkish Journal of Chemistry 26 (2002) 735-742.

Tüken,Tunç (Tunç Tüken)**Personal**

Name	Tüken, Tunç
Other formats	Tüken, T.
Author Identifier	6603327959
Affiliation	Cukurova University, Department of Chemistry, Adana Turkey

Research

Documents	33
References	357
Citations	523
<i>h</i> Index	16 The <i>h</i> Index considers Scopus articles published after 1995.
Co-authors	17
Web search	20
Subject area	Materials Science Physics and Astronomy Chemical Engineering Chemistry Engineering

History

Publication range	2002-Present
Source history	Surface and Coatings Technology Turkish Journal of Chemistry Current Applied Physics Progress in Organic Coatings Protection of Metals and Physical Chemistry of Surfaces Materials and Design Corrosion Science Applied Surface Science Materials Chemistry and Physics

Show Related Affiliations 

The data displayed above is compiled exclusively from articles published in the Scopus database. The data displayed above is subject to the privacy conditions contained in the privacy policy.

CV of Prof. Dr. Thomas LADWEIN (Nominated for election to the STAC)**Curriculum Vitae**

Name:	Ladwein
First Name:	Thomas Ludwig
Date of Birth:	May 9, 1955
Place of Birth:	Voelklingen, Germany
Nationality:	German
Current Address:	Reiherstrasse 39, 73434 Aalen, Germany
Phone:	+49-7361-460 4635
Fax:	+49-7361-460-4636
Mobile:	+49-172-210 6251
Email:	tom.ladwein@gmx.net

Professional Experience:

Current position	Full time professor of electrochemistry, corrosion, corrosion control and tribology at Aalen University of Applied Sciences, Aalen, Germany, Department of Surface Technology and Materials Science
1987 – March 2003	Various positions in R&D, application engineering and technical marketing in the stainless steel division of Thyssen Corp., later ThyssenKrupp Corp., Krefeld, Germany
Nov. 1984 – Dec. 1986	Application engineering and technical marketing engineer in chemical equipment division of Heraeus Elektroden GmbH, Rodenbach, Germany
Dec. 1980 – Oct. 1984	Scientific assistant in the Department of Inorganic Chemistry, Muenster University, Muenster, Germany

University education

Dec. 1980 – Oct. 1984	Ph.D. student at Muenster University, Muenster, Germany, Department of Inorganic Chemistry
Apr. 1977 – Nov. 1980	Graduate Student at Muenster University, Department of Chemistry
Oct. 1974 – Mar . 1977	Undergraduate student at Saarbruecken University, department of Chemistry

Academic degrees:

Diplom-Chemiker (Diploma in Chemistry), Muenster University, Germany, Oct. 1980
 Dr. rer.nat. (Ph.D. in sciences), Muenster University Oct. 1984

CV of Prof. Dr. Thomas LADWEIN (Nominated for election to the STAC) (Continued)

Teaching

Academic Courses:

Chemical thermodynamics, Electrochemistry, Corrosion Basics, Electrochemistry lab
Corrosion lab, Corrosion control and mitigation, Corrosion failure analysis, Corrosion
Resistant Alloys

Vocational education:

Corrosion Failure Analysis and Corrosion Resistant Alloys

Research Topics

- Characterization and improvement of functional surface properties of stainless steels
- Microelectrochemical techniques for determining corrosion properties
- Ionic Liquids as solvents for electroplating and electrochemical treatment of metals
- Instrumented corrosion fatigue investigation of metals and alloys
- Cracking and sensitization of weldable supermartensitic stainless steels
- Development and improvement of electrochemical methods in corrosion investigation and testing

Technology Transfer/Consulting

Since 2004 managing director of the "Steinbeis Transferzentrum Korrosion und Werkstoff", a engineering consulting firm operating under the roof of the Steinbeis Foundation (<http://www.stw.de>) which handles the consulting and service activities (with approval and support of Aalen University).

Professional affiliations:

- Gesellschaft Deutscher Chemiker GDCh (German Chemical Society)
- Verein Deutscher Ingenieure VDI (German Engineering Society)
- DECHEMA e.V. (German Chemical Engineering Society)
- Gesellschaft für Korrosionsschutz e.V. (German Corrosion Society)
- NACE International
- American Society for Testing Materials ASTM

Committees and Working Parties

- Nominated personal member of DECHEMA/ProcessNet working party "Materials Engineering"
- Member of GfKORR working parties "Corrosion in the CPI", "Failure Analysis", "Corrosion of iron and steel" and "Corrosion Education"
- Member of the scientific Steering Committee of the various "Stainless Steel World" Conferences since 1997
- Member of the Scientific Committee of "Duplex Stainless Steels 2010" Conference
- Member of the Scientific Committee of "Stainless Steels Science and Market 2011" Conference

CV of Prof. Dr. Thomas LADWEIN (Nominated for election to the STAC) (Continued)

- Member of the Working party on Stainless Steels of VDEh, German Iron and Steel Institute
- Chair NACE European Area Board of Trustees
- 2010 – 2012 Chair NACE STG 39 "Process Industries – Materials Applications and experiences"
- Session Chair of the NACE Corrosion 2011 Research in Progress Symposium on "Corrosion in New Energy Generation Systems"
- Session Chair of NACE Corrosion 2013 Symposium "Experiences with Corrosion Resistant Alloys"

Publications

appr. 60 published papers and 40 oral presentations on major international conferences

Miscellaneous/Awards

- June – September 2009: Research Sabbatical at the Institute for Corrosion and Multiphase Technologies at Ohio University, Athens, OH. Subject: Application of Microelectrochemical Techniques on CO₂ Corrosion Problems.
- Vast international network in academia, chemical industries, oil & gas industries, metal producers
- March 2011 Herbert H. Uhlig Award from NACE International

RULES FOR THE AWARD OF THE EUROPEAN CORROSION MEDAL
Founded and presented by the European Federation of Corrosion (EFC)
 (2013 revised version at the date of writing the present Working Papers)

AWARD

1. The purpose of the European Corrosion Medal is to recognise achievements by a scientist or group of scientists in the application of corrosion science in the widest sense. The recipient(s) must be of a nationality(ies) corresponding to one or more of the Member Societies of the EFC and the work must be conducted within a European country.
2. The award consists of a bronze medal, a diploma and the sum of EUR 1000.00.
3. The Medal is sponsored by EFC. The bronze medal has been donated by DECHEMA. The diploma has been donated by Fédération Française pour les sciences de la Chimie (FFC). The sum of EUR 1000.00 will be provided from the budget of the EFC.
4. The European Corrosion Medal shall be awarded in principle **every year** preferably on the occasion of the EFC Congress or the European Corrosion Meeting (EUROCORR).
5. The medal, including diploma and cheque, is handed over by the Chairman of the Board of Administration (hereafter BoA) at the award ceremony.
6. On the occasion of the award ceremony the recipient of the European Corrosion Medal will give a lecture related to the work for which the medal was awarded.

DESIGNATION OF AWARD RECIPIENT

7. ~~Serving members of the EFC BoA or~~ The Chairman of the Science and Technology Advisory Committee (hereafter STAC) and members of the Jury for the Award are not eligible to be awarded the European Corrosion Medal.
8. The recipient of the award is designated by a Jury presided over by the Chairman of the STAC. The Jury shall consist of the Chairman of the STAC and three members nominated by STAC among its members. The Jury members remain in office until a recipient has been designated and has accepted the award.
9. The Jury meets in person, normally on the occasion of a BoA meeting preceding the date of the award ceremony by at least six months. The Jury members are convened by the EFC office in charge of administrative affairs related to the EFC medal at least one month in advance.
10. The decision of the Jury is by majority vote of the members present. The decision of the Jury is final. The BoA and the STAC are informed of its choice.
11. Any member society of EFC or individual associated with EFC shall offer proposals to the Jury for recipients of the award. The EFC office in charge of administrative affairs related to the EFC medal will write to all member societies, WP Chairmen and former medallists at least 6 months ahead of the Jury meeting informing them of the award and asking for proposals. These proposals must be in writing addressed to the EFC office responsible for administrative affairs related to the European Corrosion Medal. Written proposals must be received by the EFC office two months prior to the Jury meeting. They are forwarded to the Jury members at least one month ahead of the Jury meeting. In its selection of the award winner the Jury is restricted to the written proposals received.
12. If no suitable proposals have been received, the Jury may decide not to award the medal in a given year.

ADMINISTRATION

13. The Paris Office (FFC) is in charge of all administrative affairs related to the European Corrosion Medal.

RULES FOR THE AWARD OF THE EUROPEAN CORROSION MEDAL (Continued)
Founded and presented by the European Federation of Corrosion (EFC)
(2013 revised version at the date of writing the present Working Papers)

Former recipients of the European Corrosion Medal

- 1985: Dr. DESESTRET - France;
- 1987: Prof. W. SCHWENK - Germany;
- 1989: Dr. H. ARUP - Denmark;
- 1991: Dr. J. WEBER - Switzerland;
- 1993: Prof. A. RAHMEL - Germany;
- 1996: Prof. R. N. PARKINS - UK;
- 1999: Prof. G. WOOD and colleagues at the Corrosion and Protection Center - UK;
- 2001: Prof. E. BARDAL - Norway;
- 2003: Prof. P. L. BONORA - Italy;
- 2005: Prof. Dieter LANDOLT - Switzerland;
- 2007: Prof. Dr. Erika KALMAN - Hungary;
- 2009: Prof. Vladimir CIHAL - Czech Republic;
- 2011: Prof. Günter SCHMITT - Germany.

Rules for Honorary Fellow
of the European Federation of Corrosion (EFC)
(Proposed version at the date of writing the present Working Papers)

AWARD

1. The Honorary grade of EFC Fellow is awarded to any individual of an EFC member society (European or International) for outstanding accomplishment in any one of the areas of corrosion science and engineering and/or outstanding commitment to the European Federation of Corrosion and its committees and the support of its mission and activities.
2. The EFC Honorary Fellow is awarded at EUROCORR or whenever the EFC Board of Administrators (BoA) shall so determine. The recipient will be awarded with a certificate presented by the President of the EFC or by the Chairman of the Science and Technology Advisory Committee (STAC).
3. The EFC Honorary Fellow award is sponsored by the EFC. The certificate is prepared by DECHEMA.
4. A citation describing the merits of the laureate will be prepared by the EFC secretariat, approved by the Board of Administrators and published.

DESIGNATION OF AWARD RECIPIENT

5. The recipient of the EFC Honorary Fellow award is chosen by a Jury composed of the EFC President, the STAC Chairman, two members designated by the BoA and two members designated by the STAC. In the event of a tie, the vote of the President will be a casting vote.
6. EFC member societies, the BoA and STAC members can nominate a candidate for the EFC Honorary Fellow.
7. Nominations must be made in writing to the EFC office responsible for all administrative affairs related to Honorary Membership and should include a short CV of the nominee and reasons for the nomination. Written proposals must be received by the EFC office at least one month prior to the BoA spring meeting.
8. The decision to award a candidate is confirmed by vote at the Jury meeting or by electronic vote at least 3 months prior to the international meeting at which the EFC Honorary Fellow is awarded. The award must be supported by a majority of Jury members.
9. The number of Honorary Memberships should not exceed 5 per year.

ADMINISTRATION

10. The Paris Office is responsible for all administrative affairs related to Honorary Membership.

Suggestion Prof. Montemor to Point 9: Less than 3 per year.

**NACE-EFC Meeting - CORROSION 2013
Orlando, Florida - March 20, 2013**

Attending the meeting were Philippe Marcus, Roman Bender, and Willi Meier of EFC and Kevin Garrity, Tushar Jhaveri, Harvey Hack, Bob Chalker, Del Doyle, Matt Miller, and Linda Goldberg from NACE.

Chalker welcomed all and attendees introduced themselves.

Marcus explained the structure of the European Federation for Corrosion (EFC), explaining that they have three offices—in London (IOM³), Paris (French Federation of Chemical Societies), and in Frankfurt at the Dechema office. These offices share in the support of EFC financially and in kind. Dechema is in charge of organizing conferences with the local organizers. Willi Meier of the Frankfurt office manages the organization. Roman Bender of the Frankfurt office is the Scientific Secretary of EFC, and Juliet Ippolito is the Public Relations Officer for EFC. He explained that EFC has 20 working parties on various corrosion-related topics.

Kevin Garrity explained the NACE officer structure. He is the current president, Tushar Jhaveri is vice president who will become president after this conference, and Harvey Hack will become vice president after this conference.

Bring on the Heat

The group discussed the proposed joint “Bring on the Heat” conference planned in conjunction with EUROCORR 2013 in Estoril, Portugal. Doyle reported that NACE has sent a draft agreement for the conference. We need to get information out to the refineries and similar operations in Europe; we should have mostly European speakers.

Marcus asked how many speakers NACE can bring from the U.S., and Doyle replied that he did not believe we would have very many. Marcus said the agreement needs to be revised, and the local organizing society needs to be involved. The local organization may have a problem because the agreement calls for NACE to create the budget. That can be changed.

The conference will be two days—Thursday and Friday following EUROCORR, in Estoril. They have budgeted €200 for each participant based on 100 participants. We need to decide how much to charge for the conference, and share both the surplus and the loss. The local organizer had several comments on the agreement.

Doyle asked that we have all EFC member societies send out information to their groups to bring more attendees to the conference. Is €300 a reasonable amount for registration? Doyle and Chalker said they have found registration prices are higher in Europe than in the U.S. We charge \$300 and \$325 for Bring on the Heat in the U.S.

Marcus said EFC representatives will meet with the organizers on Monday and Tuesday of next week, and Doyle asked if an agreement could be finalized by April 15.

Jhaveri said he believes it is very important for all of us to ensure success of the Bring on the Heat conference.

NACE Relationships with Other Organizations

Chalker explained NACE’s approach to relationships with other organizations. NACE is a member-driven organization, and we are working closely with local Boards of Trustees to provide what they want. NACE has opened offices in some places but is being more hands-off in other locations.

NACE-EFC Meeting - CORROSION 2013 (Continued)
Orlando, Florida - March 20, 2013

It is a changing dialogue—How do we mutually benefit the NACE member and also benefit their members? NACE has ongoing discussions with the Australasian Corrosion Association (ACA) and has begun discussions with ICorr. NACE is finding this approach helpful with politics, and it is being well received. They heard nice comments from both organizations yesterday.

Marcus commented that ICorr is an EFC member, and asked how NACE sees these bilateral relationships. Garrity said that NACE builds up relationships and builds trust. In our recent strategic planning exercise, we brought in committee chairs. When it makes sense and we see a collaborative opportunity, we will work on that. We put issues on the table and work through them.

Chalker said we have also moved meetings from our own conferences to somewhere else. Our ACA meetings are at the EFC conference.

Willi Meier suggested that EFC representatives could come to Houston where NACE has a Board meeting and a large number of members are present. Working parties could organize something in the U.S.

Chalker said that EFC's scope is much broader, EFC is more academic, and NACE is more focused on industry.

A suggestion was made to produce joint Webinars—we could have a NACE person in the U.S., an EFC person in Europe, and someone in India, for example. This could increase the value chain.

NACE-EFC Agreement

Marcus would like to clarify the NACE-EFC agreement for their members on discounts for publications.

Garrity explained that NACE's model has changed since we signed the agreement in 2003. Chalker suggested that we should find a way to implement a discount that would be equal across the board.

Marcus said they give their members a 20% discount on publications, and if NACE agrees, we could make the discount 20% across the board, and all agreed. NACE will draft new language.

Garrity said we will also put in some language for review of these agreements periodically, probably every three years.

Chalker asked Marcus what their relationship is with their member societies, and Marcus replied that every member society of EFC drives the discount to its own members. That works fine with conferences and workshops—they give NACE members discounts on EUROCORR registration.

Booth Exchange

Marcus asked if we could clarify the agreement on the booth that EFC and NACE provide to each other every year. Does the booth include table and chairs or not? If we could change the agreement to include booth, table, and two chairs, it would be helpful. Everyone agreed.

The group discussed where to meet next. It doesn't have to be at a conference. Marcus said it is good to have a short meeting at each conference, but have a longer working session somewhere else.

Goldberg will send out notes from the meeting.

REGISTRATION FEES

Member (NACE, EFC, DECHEMA, GFKORR)	EUR 390.00
Non-Member	EUR 410.00

The fee includes printed handouts, the list of participants and catering during the breaks and the Get-Together.

CANCELLATIONS AND REFUNDS

Only written cancellations will be accepted (letter, fax or email). 30 € administrative costs will be charged for any cancellation of registration received before 10 October 2013. After this date, no registration fee will be refunded, however, the book of abstracts will be sent.

If the event is cancelled by the organizers the whole fee will be refunded. Further claims for compensation are excluded.

Insurance

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

BOTH CONFERENCE OFFICE

BOTH Office c/o DECHEMA e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt am Main/Germany
Tel.: +49 (0)69 / 7564 - 278
Fax: +49 (0)69 / 7564 - 418
Email: both@dechema.de

ACCOMMODATION

Accommodation has been reserved for the conference participants at a special discount (95 € incl. breakfast). Discounted bookings are accepted at:

Mercure Hotel & Residenz Frankfurt Messe

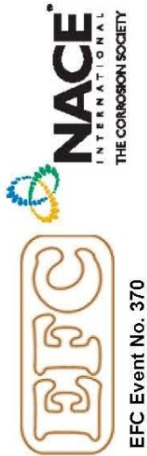
Voltastraße 29 60486 Frankfurt am Main

Tel.: +49 (0)69 / 7926-0

Fax: +49 (0)69 / 7926-1606

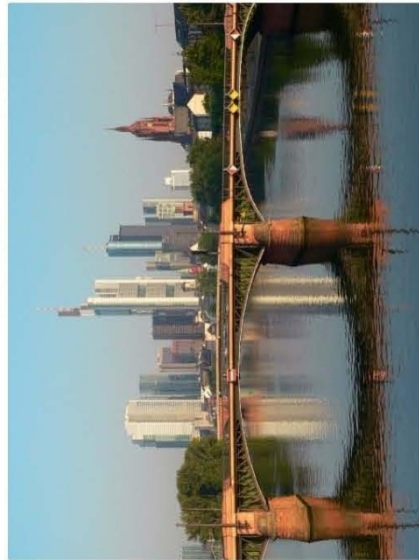
www.mercure.com

You are advised to book early so as to ensure availability, please quote "BOTH".



BRING ON THE HEAT

Innovative Corrosion Technology
Process Safety and Corrosion
Corrosion Under Insulation
Thermal / Hi-Temp Coatings
Passive Fire Protection



© FIA Stadt Frankfurt am Main

14 and 15 November 2013
DECHEMA-House
Frankfurt am Main, Germany

in cooperation with



1st ANNOUNCEMENT AND
CALL FOR PAPERS

THE BRING ON THE HEAT EVENT 2013

This European *Bring On The Heat* event will feature information on the hottest applications in industry. It will provide presentations, case studies, and forum discussions on insulation management, passive fire protection, high-temperature coatings, and related corrosion prevention methods with some of the industry's leading professionals in fireproofing, high-temperature, and other protective coatings. The conference will allow for an exchange of the latest information between plant upper management, engineers, inspectors and coating professionals.

SCIENTIFIC COMMITTEE

F. Ropital, IFP Energies nouvelles, Solaize, France
Ph. Marcus, Ecole Nationale Supérieure de Chimie de Paris, France
W. Fürbeth, DECHEMA Forschungsinstitut, Frankfurt am Main, Germany
L. Fedrizzi, University of Udine, Italy
W. Meier, DECHEMA e.V., Frankfurt am Main, Germany
R. Bender, GfKORR e.V., Frankfurt am Main, Germany

ORGANISERS

- European Federation of Corrosion (EFC)
- NACE International
- DECHEMA e.V.
- GfKORR e.V. – Society for Corrosion Protection

VENUE

DECHEMA e.V.
 Theodor-Heuss-Allee 25
 60486 Frankfurt am Main
 Germany
www.dechema.de

TOPICS

- Corrosion Under Insulation
 - CUI coating systems
 - insulation materials
 - testing of coatings for CUI
- Passive Fire Protection
 - cable coatings
 - spray fireproofing
 - fireproofing cladding
 - cementitious fireproofing
- High-Temperature Coatings
 - thermal barrier systems
 - thermal spray coatings
 - diffusion coatings
 - slurry systems
 - ceramic coatings
- Process Safety and Corrosion

EXHIBITION AND SPONSORING

Giving the participants the opportunity to discover services and equipment related to corrosion protection is an important aspect of the conference. Organisations that have such services or equipment to present are welcome to join us as exhibitors and/or sponsors. EFC is a not-for-profit organisation that depends mainly on the financial support of its members. Sponsorship helps to keep fees affordable to the entire corrosion community. For detailed information contact the conference office.

SOCIAL PROGRAMME**Get-Together**

A Get-Together will take place on 14 November 2013 at the conference venue.

CALL FOR PAPERS FOR THE SCIENTIFIC PROGRAMME

The Conference Programme Working Group is now inviting potential speakers to submit proposals in the form of a short abstract. Please send them to the conference office (both@dechema.de) **no later than 01 September 2013**.

POSTER PROPOSALS

Applications for poster presentations are now also invited and again these should be made in the form of a short abstract (no more than 1 A4 page).

All submissions for poster presentations must be received online by the BOTH conference office before 30 September 2013.

DATES TO NOTE

- 01 September 2013 Abstract deadline for oral presentations
- September 2013 Notification to authors of oral presentations
- 30 September 2013 Abstract deadline for poster presentations
- October 2013 Distribution of the programme

CONFERENCE LANGUAGE

The conference language is English.

For further information, registration and paper submission please visit <http://efcweb.org/both>.

**REPORT OF THE SCIENTIFIC SECRETARY
TO THE BOARD OF ADMINISTRATORS (period March to June 2013)**

In mid-February I started organisation for the EFC booth at the NACE CORROSION 2013 Conference and Exhibition in Orlando, Florida from 17th to 21st March. I collected promotional material advertising the upcoming EUROCORRs in Estoril (2013) and Pisa (2014). Furthermore, leaflets containing information announcing the new EFC Green books published by Woodhead were also prepared.

Together with Ines Honndorf I composed an advertising banner that contains information about the work and objectives of the EFC. It was the main eye catcher at the EFC booth during the conference and will be used again during the upcoming EUROCORR.

During the conference I spent most of my time at the EFC booth. There was much interest in the EFC Series that was published by Maney and Woodhead. The EUROCORR Conferences being held in Estoril this year and in Pisa next year also attracted a great deal of attention. Surprisingly, some attendees from Europe were not even aware of EFC or EUROCORR.

Some of my time in Orlando was spent in meetings with Philippe Marcus and our colleagues from NACE, ACA and WCO.

On 18 March I participated in the NACE/EFC Presidents meeting, after that Philippe and I met the ACA delegation to discuss possible ways of cooperation and future activities.

On the 25th and 26th March I participated in the EUROCORR 2013 Paper Selection Meeting and the Meeting of the EFC BoA in Lisbon. The draft scientific programme, which was prepared by the EFC Congress Office in Frankfurt, of which I belong to, was discussed. After the Paper Selection Meeting there was the opportunity to visit the conference centre in Estoril for a site inspection.

After the meeting in Lisbon I immediately contacted the NACE representatives to organise an inaugural Workshop in Europe, outside of sessions during EUROCORR, jointly organised by EFC and NACE. This European "Bring on the Heat" event will take place at the DECHEMA-House, Frankfurt, Germany on 14th and 15th November 2013. It will be the first attempt to carry over an event that was developed by NACE to European countries. At the Frankfurt office we developed a Call for Papers. It was sent to over 5000 potential interested participants. Together with CaLae McDermott (Conferences Manager at NACE International) I worked on the budget and organised an initial site inspection of the facilities that the DECHEMA offers.

Together with my colleague Dagmar Glänzer, who has been supporting the Frankfurt office since March 2013, we visited Paris for the meeting of the EFC Presidents Advisory Committee on 21st June. During that meeting we drew up an initial agenda for the upcoming STAC meeting in Estoril with Damien Féron that was circulated at the end of June to all Working Party chairmen.

Throughout the whole period since March 2013 I have been in continuous contact with different colleagues from EFC and other corrosion related organisations. The possible establishment of a completely new working area in the field of corrosion, which up to now is not covered within the activities of EFC, is one of the outcomes of this work. The German Society for Corrosion Protection showed interest in spreading their work in the field of corrosion in electronics to the European level.

Roman Bender
EFC Scientific Secretary
02 July 2013

EFC PUBLIC RELATIONS OFFICER ACTIVITY REPORT JULIET IPPOLITO

July 12, 2013

1. Wrote to member societies who, according to a listing provided by EFC London, are behind by one or more years on payment of their membership dues, and requested updated contact information so that EFC London can proceed to contact them directly to verify their membership standing and intention to pay. (PAC 12/12 action item 06)
2. Wrote the (attached) **EFC e-newsletter** for April 24th Corrosion Awareness Day.
3. Upon the direction of EFC President for the Public Relations Officer to make direct contact with EFC member societies, wrote the (attached) master **Members' Letter** which includes clear and precise instructions on how they can better access their benefits as an EFC member, including:
 - Posting the EFC website with logo on the home page of their society's website.
 - Posting the password for direct access to past EUROCORR proceedings via the restricted area of their society's website.
 - Nomination of delegates to working parties,
 - Publication of their future events on the EFC Calendar of Events
 - Publication of their future events and "Calls for Papers" in the April e-newsletter
 - Publication of write-ups with color photos of their society's past events and other relevant news in the hard-copy September Newsletter distributed at EUROCORR every year and afterwards sent via link to the 2500 corrosionists in the EFC database.
4. Marketing and new member solicitation activities: the Egyptian Corrosion Society, continued support for the establishment of a Greek corrosion society, contact with Beasy Ltd. U.K. for joint EFC collaboration in the area of corrosion modeling, ARAMCO/the Saudi NACE section office*, European Aeronautics Space Agency, Russian Association of Corrosion Engineers (VACOR) Polish Surfprotect and Expo Silesia trade fairs, Polish Galvanizing association, ELSYCA Netherlands, amongst others. Have also written to several Eastern European member societies requesting contacts for listings of professional societies and companies in their own countries who are involved in the area of corrosion.
5. Compiled news and produced the September 2013 hard-copy **EFC Newsletter no. 21** that is being circulated at EUROCORR. This year's issue includes articles on many member societies who haven't been included in the EFC newsletter over the past few years. This is the result of an attempt to include better pan-European representation and is in line with the new EFC President's desire to increase the participation of EFC member societies in EFC administration's activities in order to serve them better.
6. Arranged for the set-up and will man the EFC booth at EUROCORR in Estoril which this year is completely separate from NACE's booth per the EFC/NACE agreement.
7. Arranged with new EFC publisher Woodhead for the promotion and ordering of the EFC series Publications at EUROCORR.
8. Strategy for securing new EFC members: would like to create a stronger working alliance with the International Corrosion Council members, national professional societies and industries via leads from Working party chairs and EFC members' event participants.

EFC PUBLIC RELATIONS OFFICER ACTIVITY REPORT (Continued)
JULIET IPPOLITO
Master Members' Letter

12/07/13 draft

Dear EFC Member,

Greetings! My name is Juliet Ippolito and, as Public Relations Officer for the European Federation of Corrosion, my job is to keep the communication channels wide open with you - our valuable member societies and affiliate members - to help you get the most out of your EFC membership and maximize the benefits for your individual members and staff.

So with this objective in mind, here is a checklist of steps that you can take to directly tap into the substantial EFC resources available to you.

1. DOES YOUR WEBSITE HAVE A DIRECT LINK TO THE EFC WEBSITE?

If not, we will be happy to assist you in setting this up. www.efcweb.org.

Attached you will find the **EFC logo** which we suggest you put on your organization's homepage next to your direct link to the EFC website for easy identification. Remember, as an EFC member this logo is *your* logo!

2. ARE YOU PROVIDING YOUR MEMBERS AND STAFF WITH DIRECT ACCESS TO ALL PAST EUROCORR SCIENTIFIC PAPERS FROM 2004–2011 VIA THE RESERVED AREA OF YOUR SOCIETY'S WEBSITE?

This is a major benefit of being an EFC member and, by installing the following link to your own website's reserved area, your members will immediately be able to refer to the wealth of state-of-the-art corrosion research presented over the past 8 EUROCORR conferences.

http://eurocorr.org/proceedings_search-username-eurocorrproc-password-EFC2010-doauth-login

3. HAVE YOU NOMINATED YOUR ORGANIZATION'S MEMBERS TO EFC'S 19 WORKING PARTIES?

As an EFC member, your society or entity is entitled to nominate up to 2 members to any or all of our 19 EFC working parties of corrosion specialty areas. These alliances result in important scientific and industrial collaboration with renown corrosion specialists throughout the year including topic-specific workshops, publications in our prestigious EFC "Greenbook" Series and 3 official international corrosion journals, task forces, research projects, industry contracts and, of course, presentation and participation at the working party sessions at EUROCORR every year with subsequent proceedings publication and circulation. Attached is a **working party delegate nomination form** which we ask you to distribute to your members and staff, fill out and return to us.

4. ARE YOU REGULARLY SENDING US NOTICE OF YOUR SOCIETY'S EVENTS FOR INCLUSION IN THE EFC "CALENDAR OF EVENTS"?

Any corrosion-related congresses, workshops, symposia, courses or other events that your society/institution is organizing or involved in can and should be listed in the EFC's "Calendar of Events". Listing your events in the EFC Calendar of Events will ensure direct worldwide dissemination for the EFC's Calendar of Events is the most comprehensive listing of corrosion events anywhere and has become an important resource and reference for everyone working in the corrosion sector.

EFC PUBLIC RELATIONS OFFICER ACTIVITY REPORT (Continued)
JULIET IPPOLITO
Master Members' Letter

Attached is a sample **Event application Form** which you can download from the “Events” section of the EFC website. Once you have submitted your completed form your event will be inserted in EFC’s “Calendar of Events” along with an EFC Event Number proving EFC endorsement which you can use on all promotional materials concerning your event.

5. IS YOUR ORGANIZATION GETTING THE PUBLICITY AND ADVERTISING IT DESERVES IN OUR EFC NEWSLETTERS?

As an EFC member you are entitled to publicity write-ups of all of your corrosion-related events including congresses, workshops, seminars, courses, publications, prizes, projects, contracts or anything else that you wish the world corrosion community to know about. Our bi-annual EFC newsletters are sent to over 2500 corrosionists and gives exponential exposure to your society or industry so we would like to help you advertise your events to generate interest and participation.

- The **e-Newsletter** comes out each year on April 24th in honor of World Corrosion Awareness Day and contains detailed announcements for any upcoming corrosion events scheduled for the coming year including future EUROCORR conferences.
- The annual September **hard-copy Newsletter** includes full-color photos, images and logos of any corrosion-related events, people, publications, projects or other interesting news items that our members have been up to during the past year. This newsletter is distributed at EUROCORR each September and via e-link to world corrosionists in our database and provides excellent free publicity for your organization.

The world corrosion community is extremely interested in the ongoing activities, corrosion concerns and preventative measures taking place in other countries and regions and I am happy to assist you in getting your news out into the public domain and can provide you with the English language support you may need to do so, so please me your society’s news on a regular basis to be included in these 2 newsletters.

Lastly, we want the corrosion community to be aware of our member societies’ considerable talents, capabilities and technologies and ask that you circulate this communication and attachments to your individuals and staff so that they can reap the benefits of their EFC membership for themselves and their respective institutions. Remember, the EFC, as a “society of societies” is *your* society and I look forward to working together with you to increase its intrinsic value for you and to serve you better. Sincerely yours,

Juliet Ippolito
 Public Relations Officer

Attachments: 1) WP delegate nomination form
 2) Events App form
 3) EFC logo
 4) Membership benefits list

April 2013 EFC e-Newsletter

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



Issue April 2013

Dear Fellow Corrosionists,

Happy Corrosion Awareness Day! Herein please find our annual e-newsletter informing you on the activities, events, people and news that the panoply of corrosion experts making up EFC membership are up to. In the highest of European scientific traditions our society's members work side-by-side to confront the problems posed by changing environmental conditions, regulations, new materials and ever-more complex technologies as they join together in the multi-disciplinary approach that today's corrosion challenges require.

Are you aware of your benefits as an EFC member? Are you aware that you are an EFC member? The European Federation of Corrosion, as a "Society of Societies", is made up of national corrosion societies, related institutes and companies and is uniquely set up as a matrix to offer you and your organisation the education and innovation you require by way of our 19 working parties of corrosion specialty areas who work together throughout the year under the helm of highly reputable chairpersons from science and industry who generously volunteer their time, energy and reservoirs of knowledge which gets channelled into the Working Party sessions at EUROCORR each year.

Which brings me to EUROCORR. Nowhere else will you find as large a number of corrosion experts from so many different countries all under one roof than at the EFC's annual EUROCORR congress. Each September EUROCORR is hosted by a different EFC member society giving it the local flavour of the European host country and the high quality and consistency of the EFC congress machinery. Like never before the new global economy demands a one-stop, central source for world corrosionists to convene and for this reason EUROCORR continues to attract an ever-larger number of corrosionists from outside of Europe, further proving that science knows no geographical boundaries.

That said, we greatly look forward to welcoming you at **EUROCORR 2013** this coming **1-5 September** in the beautiful seaside resort of Estoril, Portugal.

Juliet Ippolito
EFC Public Relations Officer

E-Newsletter

<http://www.efcweb.org>

In this issue:

- [Editorial](#)
- [Who's Who](#)
- [EFC Working Parties](#)
- [News from Working Parties](#)
- [EUROCORR](#)
- [Forthcoming Events](#)
- [Recruitment Forum](#)
- [Contact/Imprint](#)

April 2013 EFC e-Newsletter (Continued)

Editorial

The European Federation of Corrosion is the biggest corrosion organisation in Europe and one of the largest in the world, representing over 30 national societies with members from 25 European countries and an increasing number of international members from outside of Europe. Its three European secretariats are based in London,

Paris and Frankfurt and are dedicated to advancing the science and engineering of corrosion and protection of materials by promoting cooperation in Europe through international collaboration.

Who's Who

EFC Presidency

Professor Lorenzo Fedrizzi started his 2-year term of office as EFC president this past January 1, 2013. His selection was based upon his intense commitment to EFC activities over the years, particularly for his highly successful former 12 year chairmanship of **Working Party 14** on **Coatings**, one of the most important and popular sessions at the annual EUROCORR conference. He previously held the position of EFC Vice-President and succeeds Professor Philippe Marcus who served as EFC president for the past two terms. Lorenzo Fedrizzi is a full professor of Materials Science and Technology at the University of Udine, Italy where he teaches Composite Materials Science and Technology and Corrosion. He is head of the Department of Chemistry, Physics and Environment at the University of Udine where he is also the Director

of the Masters program in Metallurgical Engineering. He is a member of the Executive Council of the "National Inter-university Consortium for Material Science and Technology" (INS TM) and of the "Corrosion Centre" of the "Associazione Italiana di Metallurgia" (AIM). He sits on the Editorial Board of "Progress in Organic Coatings", "Corrosion Engineering Science and Technology" and "Materials and Corrosion". His main scientific interests are corrosion protection by organic, metallic and ceramic coatings. Amongst his many scientific committee memberships, Prof. Fedrizzi is a member of the International Scientific Committee for EUROCORR and continues to be active in Working Party 14's Workshop "Application of Electrochemical Techniques to Organic Coatings".

EFC Administration

President:	Prof. Lorenzo Fedrizzi Udine, Italy
Vice President:	Prof. Fatima Montemor Lisbon, Portugal
STAC Committee Chairman:	Dr. Damien Feron Paris, France
Scientific Secretary:	Dr. Roman Bender Frankfurt am Main, Germany
Public Relations Officer:	Juliet Ippolito Naples, Italy
Frankfurt Secretariat:	Prof. Willi Meier / Ines Honndorf
Paris Secretariat:	Marcel Roche / Pascale Bridou Buffet
London Secretariat:	Ray Milbank

EFC Working Parties

EFC Working Party 1: Corrosion and Scale Inhibition

Prof. Guenter SCHMITT Iserlohn, Germany; gue.schmitt@t-online.de

EFC Working Party 3: Corrosion by Hot Gases and Combustion Products

Prof. Michael SCHUETZE Frankfurt am Main, Germany; schuetze@dechema.de

EFC Working Party 4: Nuclear Corrosion

Dr. Damien FERON Gif-Sur-Yvette, France; damien.feron@cea.fr

April 2013 EFC e-Newsletter (Continued)

EFC Working Party 5: Environment Sensitive Fracture

Dr. Krzysztof WOLSKI Saint-Etienne, France; wolski@emse.fr

EFC Working Party 6: Surface Science and Mechanisms of Corrosion and Protection

Prof. Philippe MARCUS Paris, France; Philippe-Marcus@chimie-paristech.fr

EFC Working Party 7: Corrosion Education and Computer Applications

Prof. Andreas HEYN Berlin, Germany; Andreas.Heyn@bam.de

EFC Working Party 8: Physico-chemical Methods of Corrosion Testing

Dr. J.M.C. Arjan MOL Delft, The Netherlands; j.m.c.mol@tudelft.nl

EFC Working Party 9: Marine Corrosion

Dr. Ulf KIVISAKK Sandviken, Sweden; ulf.kivisakk@sandvik.com

EFC Working Party 10: Microbial Corrosion

Dr. Turid LIENGEN Stavanger, Norway; turl@statoil.com

EFC Working Party 11: Corrosion of Steel in Concrete

Prof. Michael RAUPACH Aachen, Germany; raupach@ibac.rwth-aachen.de

EFC Working Party 13: Corrosion in Oil and Gas Production

Mr. Michel BONIS Pau, France; Michel.bonis@total.com

EFC Working Party 14: Coatings

Dr. Wolfram FUERBETH Frankfurt am Main, Germany; fuerbeth@dechema.de

EFC Working Party 15: Corrosion in the Refinery Industry

Dr. Francois ROPITAL Solaize, France; francois.ropital@ifpen.fr

EFC Working Party 16: Cathodic Protection

Mr. Jerome CROUZILLAC Boisins Le Bretonneux, France; j.crouzillac@bacfrance.com

EFC Working Party 17: Automotive Corrosion

Dr. Fouzia HANNOUR Ijmuiden, The Netherlands; fouzia.hannour@tatasteel.com

EFC Working Party 18: Tribo-Corrosion

Prof. Jean-Pierre CELIS Leuven, Belgium; jean-pierre.celis@mtm.kuleuven.be

EFC Working Party 19: Corrosion of Polymer Materials

Dipl.-Ing. Juergen HEINEMANN Darmstadt, Germany; heinemann@mpa-ifw.tu-darmstadt.de

EFC Working Party 20: Corrosion and Corrosion Protection of Drinking Water Systems

Dr. Johann Wilhelm ERNING Berlin, Germany; wilhelm.erning@bam.de

EFC Working Party 21: Corrosion of Archaeological and Historical Artifacts

Dr. Philippe DILLMANN Gif sur Yvette Cedex, France; philippe.dillmann@cea.fr

In addition:

EFC Task Force on CO₂-Corrosion in CCS-Applications

Dr. Ralph BAESSLER Berlin, Germany; ralph.baessler@bam.de

How to become an EFC Working Party Member

If you adhere to an EFC member society or institute, you are eligible to become a Working Party member in any of the EFC's 19 working parties. For further details on Working Party membership, please contact EFC Scientific Secretary Dr. Roman Bender at: bender@dechema.de.

April 2013 EFC e-Newsletter (Continued)

News from Working Parties

NEW WORKING PARTY CHAIRPERSONS:

We are pleased to announce our newly-appointed working party chairs as follows:

WP 14 COATINGS

PD Dr. Ing. Wolfram Fuerbeth is head of the corrosion group at DECHEMA-Forschungsinstitut in Frankfurt am Main, Germany where he is a member of the Scientific Directorate. His group is very actively involved in the development of innovative coating technologies including those based on chemical nanotechnology, as well as on anodizing processes and biological systems. He is also involved in the investigation of corrosion properties of new materials as related to new technologies including friction stir welding. He has a degree in Chemistry from the University of Dortmund and a PhD in Materials Sciences from the University of Erlangen. He lectures on corrosion and coatings at the Institute for Ferrous Metallurgy at RWTH Aachen. Dr. Fuerbeth has been a member of the EFC Working Party on Coatings since 1999 and is also a member of the Scientific Advisory Board at GfKORR and of the

Standardisation Committee on Corrosion and Corrosion Protection at the German Institute for Standardization (DIN), amongst other committee nominations.

WP 19 CORROSION OF POLYMER MATERIALS

Dipl.-Wirtsch.-Ing. Juergen Heinemann has a degree in Mechanical Engineering and business administration from Technische Universität Darmstadt, Germany where he teaches Materials Science. He also is a scientific associate with the plastics department of the State Materials Testing Institute Darmstadt and Chair at the Institute of Materials Technology. He is specialized in the field of the determination of strength characteristics and lifetime analysis of plastics and the influence of residual stresses on lifetime prediction for plastic pipes including quality control and standardization.

To view the activities of all 19 of the EFC's Working Party corrosion specialty areas, please go to the individual Working Party web pages on the EFC website at: www.efcweb.org/wp.html

EFC Publications



The EFC is proud to introduce **Woodhead Publishing** based in Cambridge, England as our newly-appointed publisher for the prestigious EFC "Greenbook" Series. Established in 1989, Woodhead Publishing www.woodheadpublishing.com is an independent, international company publishing in the areas of Materials and Engineering, Energy and Environmental Technology, Mathematics and

Biomedicine, Textile Technology, Food Science, Technology Nutrition and Finance, Commodities and Investment. Their extensive Materials Science collection covers key research on corrosion and a wide range of engineering materials including composites, metals, ceramics and polymers. Materials for particular applications are also covered including biomaterials; materials for high temperature applications; materials used in the energy sector; electronic and optical materials; automotive and aerospace materials.

The first EFC Series title to be published by Woodhead will be:

EFC 65: Corrosion and Conservation of Cultural Heritage Metallic Artefacts

Produced by EFC Working Party 21's "Corrosion of Archeological and Historical Artefacts" it will be available for purchase this July. Corrosion of cultural artefacts is a long-overdue topic and essential for the preservation of the cultural patrimony of every country. A full description of this book and order details can be found on: www.woodheadpublishing.com/9781782421542. Woodhead also has a newly launched e-platform **Woodhead Publishing Online** (www.woodheadpublishingonline.com) which

offers corrosionists a wealth of information on the materials sciences.

EFC members enjoy a 30% discount on any Woodhead print purchases within their Engineering publications and on any previously EFC "Greenbook" Series titles.

Kudos to EFC's Working Party 9 Marine Corrosion and NACE's STG 44 for receiving a 9 out of 10 rating in IOM3's official journal "Materials World" for their jointly-produced

April 2013 EFC e-Newsletter (Continued)

EFC 63: The Corrosion Performance of Metals for the Marine Environment: A Basic Guide

The value of this timely and essential guide to

Marine Corrosion is becoming increasingly recognised as there has been interest in publishing the work into native languages.

For further information please contact EFC Scientific Secretary Dr. Roman Bender at: bender@dechema.de

Special issue on Corrosion of Steel in Concrete in "Materials and Corrosion"

This special issue on the **Corrosion Survey of Reinforced Concrete Structures** is the fruit of an EFC Working Party 11 Corrosion of Steel in Concrete Task Group of experts from a number of European countries. The issue gives valuable information on the topic of planning, execution

and evaluation of corrosion surveys of steel in concrete and covers the entire spectrum of reinforcing concrete, corrosion inspection methods and surveys. It is an essential guide for the owners of buildings, designers, engineers and executing companies in the field of maintenance of structures.

You can browse this special issue for FREE at www.matcorr.com.

EFC Publishing Opportunities

Besides the 30% discount on purchase of all EFC publications, EFC working party members are welcome to co-author and contribute to EFC Working Party publications in the prestigious EFC "Greenbook" Series and to submit papers to any of the three official EFC journals "Materials and Corrosion", "Corrosion Engineering, Science and Technology (CST)" and "Matériaux et Techniques".

EUROCORR



EUROCORR 2013
for a blue sky 

EUROCORR 2013 1-5 September 2013, Estoril, Portugal

Theme: *Corrosion Control for a Blue Sky*

This September's EUROCORR hosted by our



Portuguese member society **SPM**. The Portuguese Society for Materials, is dedicated to

sustainability "for a blue sky" and will take place in the lovely seaside resort of Estoril at the centrally-located Estoril congress center, easy walking distance from most hotels and

only 25 km from downtown Lisbon by train. Early September is an ideal time to be in Estoril, known by locals as "the garden by the sea", which became world-famous in the 1930s and 40s as the chosen place of exile for European royalty, businessmen, intellectuals, politicians and artists. Nearby are the charming fishing villages of Sintra and Cascais offering easy and delightful excursions for accompanying persons.

A total of 808 abstracts from 65 countries have been received and will be filtered into 26 sessions including 6 workshops and ISO meetings which will cover all aspects of corrosion forms and corrosion protection. Working Party business meetings will also be taking place as will poster presentations. A Graduate Course on Corrosion Science will be held in Lisbon at the Instituto Superior Tecnico for three full days (30 August - 1 September) prior to EUROCORR's commencement.

Important dates:

- 15 June 2013 End of early registration fees
 - 15 June 2013 Deadline of author registration for abstract inclusion in the programme
 - 15 July 2013 Submission of full manuscripts
- For the most up-to-date details please consult the EUROCORR 2013 website at: <http://www.eurocorr2013.org/>

April 2013 EFC e-Newsletter (Continued)

Note in your Calendar!

EUROCORR 2014

8-12 September 2014, Pisa, Italy

Theme: *Improving materials durability: from cultural heritage to industrial applications*



ASSOCIAZIONE ITALIANA DI METALLURGIA EUROCORR 2014 will be proudly hosted by AIM, the Italian Metallurgical Association and will be focused on asserting the critical role that corrosion science, technology and engineering plays in extending the life of materials from both a technical-scientific and practical application perspective starting with materials used in the past up to those destined for modern industry.

Pisa, an ancient maritime republic that ruled the Tyrrhenian sea in the 11th century, is located in Tuscany, birthplace of the Italian Renaissance. Its prestigious university system which includes the Napoleonic Scuola Normale Superiore di Pisa has bred the great scientific minds of Galileo,

Fibonacci, Pacinotti and Enrico Fermi and its world-famous Leaning Tower, that supreme symbol of durability, makes Pisa a most befitting setting for EUROCORR 2014.

Important deadline:

Submission of abstracts: 13 January 2014

Contact:

AIM - Associazione Italiana di Metallurgia,
P. le R. Morandi, 2, 20121 Milano, Italy
Phone: +39 0276021132; Fax: +39 0276020551
E-mail: info.aim@aimnet.it
www.aimnet.it

www.eurocorr2014.org

EUROCORR 2015

6-10 September 2015, Graz, Austria

Theme: *Earth, Fire, Water, Air, Corrosion happens everywhere*



ASMET® ASMET, the Austrian Society for Metallurgy and Materials will be your host in Graz, a delightful student city located in a forested region southwest of the Alps and 200 km from Vienna. This conference will assert the critical role of corrosion science, technology and engineering in extending the lifecycle of materials in different fields of applications (earth, fire, water, air).

Contact:

EUROCORR 2015 Congress Secretariat
ASMET
Franz-Josef-Str. 18, 8700 Leoben, Austria
Phone: +43 3842 45 189; Fax: +43 3842 402 2202
E-mail: asmet@asmet.at
www.asmet.at

EUROCORR 2016

11-15 September 2016, Montpellier, France

Theme: *Advances in linking Science to Engineering*



At our March 2013 EFC Board of Administrators' meeting EFC member society CEFRACOR, the French Center for Anticorrosion, won the bid for EUROCORR 2016 which will be held in the beautiful city of Montpellier located on the south

coast of France on the Mediterranean Sea.

Contact:

CEFRACOR
28 rue Saint-Dominique, 75007 Paris, France
Fax: +33 1 45 55 90 74
E-mail: info@cefracor.org
www.cefracor.org

Note: If your European member society would like to host a future EUROCORR in your country, please contact our EFC Frankfurt secretariat Ines Honndorf (e-mail honndorf@dechema.de for details.

April 2013 EFC e-Newsletter (Continued)

Forthcoming Events

2nd FC Aerospace Workshop **Wednesday & Thursday 4 & 5 September 2013** **EUROCORR 2013, Estoril, Portugal**

This year's Workshop on Corrosion in Aerospace has been extended to two days and will be guided by corrosion experts from the aeronautic industry such as EADS/Airbus, CISIRO, Australia, Constellium and BAE Systems. By tapping into EFC working party expertise at EUROCORR such as coatings, surface science, automotive and environmental sensitive fracture, the workshop's scope is to monitor the current R&D advances and confront the complexities of corrosion problems. This will be carried out through intense dialogue with the suppliers and scientists present so as to formulate and interpret the analytical tools, materials and environment surrounding corrosion in aerospace. The end result is to raise awareness of industry's needs and leverage the

direct, applied research means available to satisfy them while avoiding duplicate research.

Some of the topics covered will be: aerowave aluminium alloys, REACH regulations, self-healing treatments, multi-layer epoxy coatings, corrosion protection of AA2024 with sol-gel coatings, corrosion modeling, and results from the FP7 E.U. project MUST: Multi-Level Protection of Materials for Vehicles by "Smart" Nanocontainers. Get in on the ground floor of this exciting new Aerospace group now being formed to become an eventual working party member of this soon-to-be-established 20th EFC working party.

For further details consult workshop coordinator Theo Hack, EADS Innovation Works, Metallic Technologies & Surface Engineering theo.hack@eads.net or the EUROCORR 2013 website: www.eurocorr2013.org

Polymer and Composite Materials **in the Refinery, Petrochemical and Chemical Industries**

Wednesday, 4 September 2013
EUROCORR 2013, Estoril, Portugal

Joint Session of
EFC WP 15 Corrosion in the Refinery Industry and
WP 19 Corrosion of Polymer Materials

The aim of this joint session at EUROCORR 2013 is to bring together materials specialists, manufacturers and end-users to exchange knowledge on the application and behaviour of polymer and composite materials in the refinery, petrochemical and chemical industries. Contributions from academics and industrialists will be presented on polymer and composite materials application cases and corrosion

resistance behaviour in the environments of these industries, including aspects on degradation mechanisms and to experience feedback on inspection and monitoring techniques.

For details contact:
WP 15 Corrosion in the Refinery Industry
Chairman Dr. Francois Ropital
francois.ropital@ifpen.fr or
WP 15 Corrosion of Polymer Materials Chairman
Dipl.-Ing. Juergen Heinemann heinemann@mpa-ifw.tu-darmstadt.de

For detailed information on the above and all other scheduled workshops, joint and special sessions, ISO meetings and courses taking place at EUROCORR 2013 please consult the EUROCORR 2013 website at: www.eurocorr2013.org

Other upcoming EFC sponsored Events and Workshops:

AETOC 2013: Workshop on the Application of **Electrochemical Techniques to Organic** **Coatings** **24-27 April 2013, Emmetten, Switzerland** (EFC Event no. 359)

Like the previous 7 workshops on this topic, this 8th AETOC workshop aims to foster discussion and foster interaction between researchers involved with the dual disciplines of organic coatings and electrochemistry. While the use of

electrochemical methods reveals interesting features it also presents problems when applied to typically high ohmic coated samples. This workshop will be the ideal platform for reporting on the pros and cons of methods, new materials and new protection concepts.

For further information please visit www.aetoc2013.ch or contact EFC WP 14 Coatings member, Dr. Joerg Vogelsang, e-mail: [Vogelsang.joerg_a\(at\)ch.sika.com](mailto:Vogelsang.joerg_a(at)ch.sika.com)

April 2013 EFC e-Newsletter(Continued)r (Continued)

Italian National Corrosion Days

Giornate Nazionali Sulla Corrosione e Protezione

10-12 July 2013, Naples, Italy

(EFC Event no. 366)

This 10th edition, organised by the Italian Metallurgical Society (AIM) and hosted by the University of Naples Federico II, has become one of the most important national corrosion events in Italy dealing with the scientific questions, technology, and production within the field of corrosion and protection of materials. Presentations, posters and prizes will be given and the following topics will be covered:

- Corrosion in the natural environment: water, ground and the atmosphere
- Corrosion in plants and industrial structures
- Study method approaches to corrosive phenomenon
- Corrosion and protection of metal reinforcements
- Corrosion inhibitors
- Cathodic protection
- Superficial treatments and coverings
- Microbial corrosion
- Case histories

Contact:

AIM - Associazione Italiana di Metallurgia
Piazzale Rodolfo Morandi 2, 20121 Milan, Italy
Tel: +39-02 76021132;
E-mail: info@aimnet.it
www.aimnet.it/gncorr2013.htm

6th Kurt Schwabe Symposium

16-19 September 2013, Krakow, Poland

(EFC Event no. 358)

Theme: *Surface analysis and material engineering in corrosion science and electrochemical technologies*

This year's meeting, the 6th in this series dedicated to the famous electrochemist Prof. Dr. Kurt Schwabe (1905-1983) known for his outstanding achievements in the field of corrosion science and engineering, sensors techniques and fuel cells will be focused on development of new materials and new electrochemical techniques in electrochemical technologies, corrosion science and corrosion engineering.

The following topics will be addressed:

- Preparation and degradation of new materials for electrochemical science and technology (metal oxides, conducting polymers, hybrid materials systems, functional composites including catalysts for fuel and photocells)
- Development of materials for electrochemical sensors
- Surface modifications of metals and semiconductors

- Electrochemistry of metals and semiconductors in organic solvents, ionic liquids and supercritical fluids. Theory and praxis
- Mechanisms of corrosion, passivity and breakdown processes
- Environmentally assisted failure
- Corrosion modelling, monitoring and protection
- Microbiological corrosion and biofouling

For information contact:

Prof. Jack Banas
Dept. of Chemistry and Corrosion
AGH-University of Science & Technology
Krakow, Poland
E-mail: jbs@agh.edu.pl
<http://home.agh.edu.pl/~schwabe>

YUCORR 2013 - The 15th Annual YUCORR International Congress

17-20 September 2013, Tara Mountains, Serbia

(EFC Event no. 365)

This 15th YUCORR International Conference, a "Meeting Point for Science and Practice in the fields of Corrosion, Materials and Environmental Protection", will embrace the presentation and discussion of the subjects directly linked to the theoretical and engineering aspects of corrosion and protection of different types of materials in the field of industry, thermal power plants, civil engineering and industry finishing, as well as themes covering environmental protection and chemical energy conversion for sustainable development. Authors from universities, research centers, institutes and industry are invited to submit papers and to take part in this Conference.

Contact:

E-mail: yucorr@sitzam.org.rs
www.sitzam.org.rs/15YUCORR

THEMACORR 2013 - CNRS Thematic Summer School on Corrosion Testing, Methods and Monitoring

La mesure de la Corrosion, Méthodologie et recommandations

29 September - 4 October 2013, La Marana, Bastia, Corsica, France

(EFC Event no. 367)

This CNRS summer school is focused on corrosion testing and monitoring offering academic and industrial experts an ideal meeting place to discuss current topics on this theme.

For information contact Chairman Bernard Normand of INSA de Lyon bernard.normand@insa-lyon.fr or go to the CEFRACOR website at: www.cefracor.org

April 2013 EFC e-Newsletter (Continued)

5th International Workshop on Long-term Prediction of Corrosion Damage in Nuclear Waste Systems

6-10 October 2013, Asahikawa City, Japan
(EFC Event no. 360)

The Japan Society of Corrosion Engineering (JSCE) with the support of the EFC's Working Party 4 on Nuclear Corrosion is holding this important workshop which will cover the long-term corrosion behaviour of nuclear power plants and the development of high-level nuclear waste disposal technologies.

Major emphasis on:

- Overview of different national programs
- Experimentation-corrosion behaviour of candidate materials for waste packages
- Modeling and long-term prediction
- Archaeological artefact and natural analogue
- Regulatory issues

Contact:

EFC Working Party 4 Nuclear Corrosion
Chairman Dr. Damien Feron damien.feron@cea.fr
www.icorr.or.jp/ltc2013

Australasian Corrosion Association 2013 Conference

10-13 November 2013, Brisbane, Australia

The Australasian Corrosion Association Inc (ACA) continues to build on their international relations and it's resulting in attracting more international

"A Call for Papers"

Bring On The Heat (BOTH)

14-15 November 2013, Frankfurt am Main, Germany

Jointly organised by EFC and NACE International in cooperation with GfKORR and DECHEMA e.V.

Themes:

- Innovative Corrosion Technology
- Corrosion Under Insulation
- Thermal / Hi-Temp Coatings
- Passive Fire Protection

Dates to note:

28 June 2013 Abstract submission deadline for oral presentations
August 2013 Notification to authors of oral presentations
Sept. 2013 Distribution of the program
30 Sept. 2013 Abstract submission deadline for poster presentations

delegates to its annual conference. The beautiful sunshine, friendly hospitality and a combination of excellent technical and industry presentations may also have something to do with it. This year's ACA conference themed "Where Theory Meets Practise" will be held in Brisbane, Australia on the 10-13 November 2013 and the ACA welcomes all EFC members to attend.

The conference has attracted worldwide speakers through its abstract submission process and announces its keynote speakers:

- Prof Frank White of Hannover Medical School, Germany
- Prof Srdjan Nesic of Ohio University, USA
- Jack Tinnea of Tinnea & Associates, USA
- Prof Graeme George of Queensland University of Technology, Australia
- Arthur Austin of ALS Industrial, Australia

The science and engineering of corrosion remains an international issue. In fact, the combination of the world's ageing infrastructure and the demand for materials to enter next-generation applications and environments fuels the need for corrosion R&D. The range of corrosion issues that cover design, materials selection, predictive modelling and application of protective measures such as coatings or cathodic protection are all critical to the our modern way of life.

Registrations are now open at:
www.acaconference.com.au

Contact:

BOTH Office c/o DECHEMA e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt am Main, Germany
Tel: +49 (0)69 7564 278
Fax: +49 (0)69 7564 418
E-mail: both@dechema.de

6th Cathodic Protection Days

Cathodic Protection and Associated Coatings Theory and applications on land, seawater, concrete and inner surfaces

24-26 June 2014, Palais des Congrès d'Antibes Juan-Les-Pins, France

(EFC Event no.363)

Contact:

CEFRACOR
28 rue Saint Dominique
75007 Paris, France
Phone: +33 1 47053926; Fax: +33 1 45559074
E-mail: PCRA2014@cefracor.org
www.cefracor.org/PCRA2014

April 2013 EFC e-Newsletter (Continued)

Joint Session of EFC WP 5 Environmentally Sensitive Fracture & WP 18 Tribocorrosion EUROCORR 2014, Pisa, Italy

The EFC WP 5 Environmentally Sensitive Fracture and WP 18 Tribocorrosion Working Parties will be organizing a joint session at

Eurocorr 2014 in Pisa, Italy. Contributions within the general topic "Interplay of Mechanics and Corrosion in Surface and Bulk Degradation" are invited in three areas: (1) depassivation and repassivation (mechanisms), (2) degradation processes and component failure and (3) embrittlement and hydrogen.

For full details of these and other future corrosion events in Europe and throughout the world go to the EFC Calendar of Events at: www.efcweb.org/Events.html

EFC Membership Inquiries

For European, international and affiliate EFC membership inquiries please contact EFC Public Relations Officer Juliet Ippolito juliet@unina.it. EFC Members include European and Non-European national corrosion societies, research institutes, universities, and private and public entities.

For a listing of current EFC Member Societies and Affiliate Members, go to the EFC website's "Membership" section at: www.efcweb.org/EFC+Membership.html

EFC Event Publicity

Event Application Forms can be downloaded on our website at: www.efcweb.org/Events.html

Newsletter subscription

If you wish to subscribe to our EFC newsletters please send your name and full contact details to Ines Honndorf honndorf@dechema.de

Recruitment Forum

If you would like to publicize a job opening or are looking for qualified professionals, please consult our website.

Contact

Imprint / Privacy

Unsubscribe

Contact

Juliet Ippolito, e-mail: juliet@unina.it

The statements and opinions expressed in the e-newsletter are those of the contributors and EFC assumes no responsibility for them.

Imprint

European Federation of Corrosion
c/o DECHEMA e.V.
Theodor-Heuss-Allee 25, 60486 Frankfurt am Main, Germany
Tel.: +49 69 7564-0 - Fax.: +49 69 7564-201 - e-mail: info@efcweb.org
VAT No. DE 114234833

Register of Associations, Frankfurt District Court VR 5293
DECHEMA Chairman: Dr. Hans Jürgen Wernicke
DECHEMA Treasurer: Almuth Poetz
DECHEMA Chief Executive Officer: Prof. Dr. Kurt Wagemann

Website: <http://www.efcweb.org>

This E-Newsletter was generated and sent to you by the internet.de Infoletter System as you are either a member of an EFC member society, member of an EFC Working Party, EUROCORR participant, or you have expressly requested it. If you do not wish to receive further Newsletters from us in future, please click on the following link to unsubscribe: [Unsubscribe](#)

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 2012 (Annex 1, pages 1 to 3)

The results for the year are shown on page 1. There was a surplus of €32,683 which exceeds the budget for the year and the surplus for 2011 of €20,223.

Total income was higher than both the budget and 2011 by over €9,000. Subscription income included the collection of arrears from previous years of €5,000 and the Eurocorr levy included €5,000 from the administration of NCC.

Costs were €3,000 lower than 2011 and €10,000 lower than budget. Costs were low because the Science Secretary/PR Officer did not attend the NACE conference and the Honorary treasurer did not attend any meetings during 2012. The 2011 budget had been prepared on the basis of the assumptions contained in the strategic plan that now need updating.

As a result of the surplus, reserves increased to €163,121 at the year end and represent nearly three times budgeted expenditure for 2013. Having achieved its corporate aims for finance, EFC is now in a good position to develop and promote its objectives.

2 Budget for 2013 (Annex 2)

The annex shows the results for 2012, the budget for 2013 and the proposed budget for 2014. The 2014 budget shows an operating surplus of €7,550.

Income has been included at a conservative level and expenditure allows for:

- The split of the current scientific and PR role into two separate roles,
- Continued development of the website and some support for working parties,
- Participation in the NACE conference and
- Provision for €10,000 to fund strategic actions.

3 Subscriptions (Annex 3 and 4)

Annex 3 summarises subscriptions due in 2013 and Annex 4 summarises subscriptions due in 2012. As at 17 June 2013, subscriptions outstanding for 2013 amount to €25,000 and earlier years totalled €3,000. Action continues to be taken to collect the outstanding subscriptions. Members are requested to pay outstanding subscriptions prior to the General Assembly.

4 Approval

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

- Annual financial statements for the year ended 31 December 2012
- Budget for 2014

Ray Milbank
12 July 2013

EUROPEAN FEDERATION OF CORROSION**Income and expenditure account for the year ended 31 December 2012**

Treasurers report

Annex 1

Page 1

	Note	2012 budget		2012 results		2011 results	
		€	€	€	€	€	€
Income							
Net subscriptions receivable		39 000		47 366		38 884	
Eurocorr levy		19 500		25 409		23 538	
Publishing income		7 300		3 466		4 314	
Other income		1 000		0		0	
Total		66 800		76 241		66 736	
Expenditure							
Membership services							
Science secretary costs	(1)	10 250		10 738		9 205	
Support for working parties	(2)	4 356		1 200		0	
Newsletter		1 822		3 981		4 803	
Website		4 862		4 800		4 600	
Medal and awards		0		500		1 500	
		21 290		21 219		20 108	
Membership/product development growth							
PR officer	(1)	10 250		10 737		0	
Publicity		1 447		0		0	
President's dinner at Eurocorr		0		2 151		4 706	
Publication costs		1 158		0		1 098	
		12 855		12 888		5 804	
International visibility							
NACE participation costs		3 473		0		0	
World Corrosion Organisation		4 254		2 653		2 700	
Other costs		1 216		0		0	
		8 943		2 653		2 700	
Administrative costs							
Science secretary costs	(1)	0		0		9 204	
Paris secretariat costs		8 265		6 509		6 496	
Honorary Officers expenses		2 431		(46)		2 166	
		10 696		6 463		17 866	
Other costs							
Exchange losses/(gains)		0		0		0	
Bank charges		200		35		35	
Sundry costs		0		300		0	
		200		335		35	
Total		53 984		43 558		46 513	
Surplus for the year		12 816		32 683		20 223	
Surplus brought forward		130 438		130 438		110 215	
Surplus carried forward		143 254		163 121		130 438	

EURPPEAN FEDERATION OF CORROSION
Balance sheet as at 31 December 2012

Treasurs report
 Annex 1
 Page 2

	Note	31/12/12 €	31/12/11 €
Current assets			
Outstanding subscriptions	(4)	9 568	3 304
Other debtors	(5)	38 310	33 014
Amount held by IoM3		125 694	100 544
Bank balance		2 152	2 187
		<u>175 724</u>	<u>139 049</u>
Current liabilities			
Creditors and accruals	(6)	8 578	4 586
Net assets		<u><u>167 146</u></u>	<u><u>134 463</u></u>
 General fund		 163 121	 130 438
Education fund		4 025	4 025
Total funds		<u><u>167 146</u></u>	<u><u>134 463</u></u>

EUROPEAN FEDERATION OF CORROSION**Notes to the financial statements for the year ended 31 December 2012**

Treasurers report

Annex 1

Page 3

	2012	2011
	€	€
1) Scientific Secretary costs		
Fees	17 761	15 279
Travel & incidental expenses	3 714	3 108
Postage & courier costs	0	22
	<u>21 475</u>	<u>18 409</u>
<i>Allocated as follows:</i>		
Membership services	10 738	9 205
Support for working parties	0	0
NACE participation costs	0	0
PR activities	10 737	0
Administrative costs	0	9 204
	<u>21 475</u>	<u>18 409</u>
2) Support for working parties		
Scientific Secretary fees	0	0
Other support costs	1 200	0
	<u>1 200</u>	<u>0</u>
3) NACE participation costs		
Scientific Secretary fees	0	0
Travel and other costs	0	0
	<u>0</u>	<u>0</u>
4) Subscriptions outstanding		
This represents subscriptions due prior to 31 December 2012 that have been received up to 17 June 2013.		
5) Other debtors		
Publication royalties	17 930	14 476
Eurocorr levy	20 380	18 538
	<u>38 310</u>	<u>33 014</u>
6) Creditors and accruals		
Scientific secretary's fees/expenses	3 274	1 824
Paris secretariat costs	0	0
Working party expenses	0	0
WCO fees	2 653	2 700
Other accruals	2 651	62
	<u>8 578</u>	<u>4 586</u>

EUROPEAN FEDERATION OF CORROSION
Budget for the year ending 31 December 2014

Treasurers report
Annex 2

	2012 results		2013 budget		2014 budget	
	€	€	€	€	€	€
Income						
Net subscriptions receivable	47 366		42 000		46 000	
Eurocorr levy	25 409		20 000		20 000	
Publishing income	3 466		4 000		4 000	
Other income	0		0		0	
Total	<u>76 241</u>		<u>66 000</u>		<u>70 000</u>	
Expenditure						
Membership services						
Science secretary costs						
Fees	8 881		8 250		8 750	
Travel & office expenses	1 857		2 000		2 000	
Support for working parties	1 200		2 000		3 000	
Newsletter	3 981		2 000		4 250	
Website	4 800		4 000		5 000	
Medals and awards	500		1 500		500	
	<u>21 219</u>		<u>19 750</u>		<u>23 500</u>	
Membership/product development growth						
PR consultant						
Fees	8 880		8 250		8 750	
Travel & office expenses	1 857		2 000		2 000	
President's dinner at Eurocorr	2 151		2 000		2 250	
Publicity	0		2 000		2 000	
Publication costs	0		0		0	
	<u>12 888</u>		<u>14 250</u>		<u>15 000</u>	
International visibility						
NACE participation costs	0		2 000		2 000	
World Corrosion Organisation	2 653		2 700		2 700	
	<u>2 653</u>		<u>4 700</u>		<u>4 700</u>	
Administrative costs						
Science secretary costs	0		0		0	
Paris secretariat costs	6 509		8 000		7 200	
Honorary Officers expenses	(46)		2 000		2 000	
	<u>6 463</u>		<u>10 000</u>		<u>9 200</u>	
Other costs						
Bank charges	35		50		50	
	<u>35</u>		<u>50</u>		<u>50</u>	
Strategic actions	0		8 000		10 000	
Total	<u>43 258</u>		<u>56 750</u>		<u>62 450</u>	
Surplus/(deficit) for the year	<u>32 983</u>		<u>9 250</u>		<u>7 550</u>	
Surplus brought forward	130 438		163 421		172 671	
Surplus carried forward	<u>163 421</u>		<u>172 671</u>		<u>180 221</u>	

EUROPEAN FEDERATION OF CORROSION
Summary of subscriptions for 2013

COUNTRY	SOCIETY	Fees 2013 €	Arrears b/fwd €	CYr subs received €	Arrears received €	Write off €	Owing €	Type of member	Comments
Austria	The Austrian Society of Metallurgy & Materials	1 640,00	0,00				1 640,00	Smaller	
Belgium	CEBELCOR	1 640,00	0,00				1 640,00	Full	
Finland	FINNCORR	1 640,00	1 614,00		1 614,00		1 640,00	Full	
France	CEFRACOR	1 640,00	0,00	1 640,00			0,00	Full	
France	Federation Francaise pour les sciences de la Chimie	1 640,00	0,00	1 640,00			0,00	Full	
Germany	GfKORR	1 640,00	0,00				1 640,00	Full	
Germany	DECHEMA eV	1 640,00	0,00	1 640,00			0,00	Full	
Italy	Associazione Italiana di Metallurgia AIM	1 640,00	0,00	1 640,00			0,00	Smaller	
Italy	AITIVA	0,00	0,00				0,00		Cancelled membership 19/11/12
Norway	Norsk Korrosjonsteknisk Forening	0,00	0,00				0,00	Full	See note 1. 2013 invoice raised
Portugal	National Laboratory of Energy and Geology	0,00	1 496,00		1 496,00		0,00		Cancelled membership
Portugal	Sociedade Portuguesa de Materiais	1 640,00	0,00	1 640,00			0,00	Smaller	
Spain	Sociedad Espanola de Qumica Industrial	1 640,00	0,00	1 640,00			0,00	Smaller	
Sweden	Swedish Corrosion Institute	1 640,00	1 614,00				3 254,00	Full	
Switzerland	SGO	1 640,00	0,00				1 640,00	Smaller	
UK	Institute of Corrosion	1 640,00	0,00	1 640,00			0,00	Full	
UK	The Institute of Materials	1 640,00	0,00	1 640,00			0,00	Full	
Croatia	Croatian Society for Materials Protection	1 640,00	2 348,00		2 348,00		1 640,00	Smaller	
Czech Repub.	Czech Association of Corrosion Engineers	1 640,00	1 496,00		1 496,00		1 640,00	Smaller	
Hungary	Hungarian Corrosion Society	1 640,00	0,00				1 640,00	Smaller	
Poland	Polskie Stowarzyszenie Korozyjne	1 640,00	0,00	1 640,00			0,00	Smaller	
Slovenia	Institute of Metals and Technologies	0,00	0,00				0,00	Smaller	Has not paid for many years
Ukraine	Ukrainian Association of Corrosionists	0,00	0,00				0,00	Smaller	Has not paid for many years
Romania	Corrosion Comm. of the Romanian Academy	0,00	0,00				0,00		
Russia	ANTIKOR – Int. Sci. & Educ. Corr. Centre	1 640,00	0,00	1 640,00			0,00	Full	
Turkey	The Corrosion Association	1 640,00	1 496,00				3 136,00	Smaller	See note 4
Albania	Albanian Corrosion Society	1 640,00	0,00				1 640,00		Has not paid for two years
Czech Repub.	Svuom S.R.O.	0,00	0,00				0,00	Smaller	Has not paid for many years
Israel	Campi	0,00	0,00				0,00	Int'l	See note 2. 2013 invoice raised
Poland	Gdansk University of Technology	1 000,00	0,00	1 000,00			0,00	Affil.	
Europe	NACE Europe	1 640,00	1 614,00		1 614,00		1 640,00	Full	
Belgium	University of Mons	1 000,00	1 000,00		1 000,00		1 000,00	Affil.	
Germany	Sulzer Metco Europe GmbH	1 500,00	0,00				1 500,00	Company	
Libya	Libyan Corrosion Society	1 000,00	0,00				1 000,00	Affil.	
Netherlands	Stopaq BV	1 000,00	0,00	1 000,00			0,00	Affil.	

EUROPEAN FEDERATION OF CORROSION
Summary of subscriptions for 2013

COUNTRY	SOCIETY	Fees 2013 €	Arrears b/fwd €	CYr subs received €	Arrears received €	Write off €	Owing €	Type of member	Comments
Russia	VIAM	1 000,00	0,00	1 000,00			0,00	Affil.	
Netherlands	Bond voor Materialenkennis	1 640,00	0,00	1 640,00			0,00	Full	50% membership 2011 2012
Russia	SOPCOR	1 640,00	0,00	1 640,00			0,00	Full	50% membership 2011 2012
Denmark	ATV-SEMAPP	820,00	0,00	820,00			0,00	Full	50% membership 2012 2013
Australia	The Australasian Corrosion Association Inc	820,00	0,00				820,00	Int'l	50% membership 2012 2013
Brazil	ABRACO	820,00	0,00				820,00	Int'l	50% membership 2012 2013
Italy	APCE	820,00	0,00	820,00			0,00	Full	50% membership 2012 2013
		49 140,00	12 678,00	24 320,00	9 568,00	0,00	27 930,00		

Note 1 Norway has not paid for two years. In March 2013, Torfinn Havn apologised for delay and said they were working on this.

Note 2 CAMPI has not paid for many years. In March 2013, Amir Eliezer said he was waiting response to query raised at GA 2011 and finding difficulty paying higher annual subscriptions

Note 3 Serbia has not paid for 2011 and 2012. In March, Caslav Lacičević acknowledged debt but could not pay. Have unsuccessfully applied for Government funding and seek other means.

Note 4 Turkey's 2012 subscription to be paid by Eurocorr organiser. We have invoiced the organiser and chased the debt.

EUROPEAN FEDERATION OF CORROSION
Summary of subscriptions for 2012

COUNTRY	SOCIETY	Fees 2012 €	Arrears b/fwd €	CYr subs received €	Arrears received €	Write off €	Owing €	Comments
Austria	The Austrian Society of Metallurgy & Materials	1 496,00		1 496,00			0,00	
Belgium	CEBELCOR	1 614,00		1 614,00			0,00	
Finland	FINNCORR	1 614,00					1 614,00	
France	CEFRACOR	1 614,00		1 614,00			0,00	
France	Federation Francaise pour les sciences de la Chimie	1 614,00		1 614,00			0,00	
Germany	GKORR	1 614,00		1 614,00			0,00	
Germany	DECHEMA eV	1 614,00		1 614,00			0,00	
Italy	Associazione Italiana di Metallurgia AIM	1 496,00		1 496,00			0,00	
Italy	ATTIVA (emailed 19/11/12 cancelling)	1 496,00	1 352,00			2 848,00	0,00	
Norway	Norsk Korrosjonsteknisk Forening	1 614,00	1 567,00			3 181,00	0,00	
Portugal	National Laboratory of Energy and Geology	1 496,00					1 496,00	
Portugal	Sociedade Portuguesa de Materiais	1 496,00		1 496,00			0,00	
Spain	Sociedad Espanola de Quimica Industrial	1 496,00		1 496,00			0,00	
Sweden	Swedish Corrosion Institute	1 614,00					1 614,00	
Switzerland	SGO	1 496,00		1 496,00			0,00	
UK	Institute of Corrosion	1 614,00		1 614,00			0,00	
UK	The Institute of Materials	1 614,00		1 614,00			0,00	
Croatia	Croatian Society for Materials Protection	1 496,00	1 952,00		1 100,00		2 348,00	
Czech Republic	Czech Association of Corrosion Engineers	1 496,00	2 572,00		2 572,00		1 496,00	
Hungary	Hungarian Corrosion Society	1 496,00		1 496,00			0,00	
Poland	Polskie Stowarzyszenie Korozyjne	1 496,00		1 496,00			0,00	
Slovenia	Institute of Metals and Technologies	1 496,00	1 352,00			2 848,00	0,00	
Ukraine	Ukrainian Association of Corrosionists	1 496,00				1 496,00	0,00	
Romania	Corrosion Comm. of the Romanian Academy	0,00					0,00	
Russia	ANTIKOR – Int. Sci. & Educ. Corr. Centre	1 614,00		1 614,00			0,00	
Turkey	The Corrosion Association	1 496,00					1 496,00	
Albania	Albanian Corrosion Society	1 496,00	2 572,00			4 068,00	0,00	Has not paid for two years
Czech Republic	Suom S.R.O.	1 496,00	1 352,00			2 848,00	0,00	
Israel	Campi	1 496,00	2 572,00			4 068,00	0,00	
Poland	Gdansk University of Technology	1 000,00		1 000,00			0,00	
Europe	NACE Europe	1 614,00					1 614,00	
Belgium	University of Mons	1 000,00					1 000,00	
Germany	Sulzer Meteo Europe GmbH	1 500,00		1 500,00			0,00	Payable from 2011 - €1,500
Libya	Libyan Corrosion Society	1 000,00	1 000,00	1 000,00	1 000,00		0,00	Payable from 2011 - €1,000
The Netherlands	Stopaq BV	1 000,00		1 000,00			0,00	

EUROPEAN FEDERATION OF CORROSION
Summary of subscriptions for 2012

COUNTRY	SOCIETY	Fees 2012 €	Arrears b/fwd €	CYr subs received €	Arrears received €	Write off €	Owing €	Comments
Russia	VIAM	1 000,00		1 000,00			0,00	
The Netherlands	Bond voor Materialenkennis	807,00		807,00			0,00	50% membership 2011 2012
Serbia	Engineers Society of Corrosion	1 496,00	1 352,00			2 848,00	0,00	
Russia	SOPCOR	807,00		807,00			0,00	50% membership 2011 2012
Denmark	ATV-SEMAPP	807,00		807,00			0,00	50% membership 2012 2013
Australia	The Australasian Corrosion Association Inc	807,00		807,00			0,00	50% membership 2012 2013
Brazil	ABRACO	807,00		807,00			0,00	50% membership 2012 2013
Italy	APCE	807,00		807,00			0,00	50% membership 2012 2013
		<u>57 638,00</u>	<u>17 643,00</u>	<u>33 726,00</u>	<u>4 672,00</u>	<u>24 205,00</u>	<u>12 678,00</u>	

EUROCORR REPORT FORM 1 (TO BE COMPLETED BEFORE THE EVENT)

DATES OF EVENT	1-5 September, 2013	VENUE	Estoril Congress centre, Estoril, Portugal
-----------------------	---------------------	--------------	--

OVERALL THEME OF THE CONFERENCE:

CORROSION CONTROL FOR A BLUE SKY

ANTICIPATED NUMBERS OF DELEGATES:

CATEGORY	REGISTRATION FEES (ex. VAT)				TARGET NUMBERS
	Early Bird	Promo	Late	On-Site	
Committee Members, etc. (Invited)	N/A	N/A	N/A	N/A	54
Invited Speakers	N/A	N/A	N/A	N/A	1
Member Authors	680,00	790,00	780,00	830,00	---
Non-Member Authors	750,00	860,00	850,00	900,00	---
Members	680,00	790,00	780,00	830,00	121
Non-Members	750,00	860,00	850,00	900,00	303
Students	250,00	360,00	300,00	350,00	160
Exhibitors	N/A	N/A	N/A	N/A	16
One day	260,00	370,00	310,00	350,00	56
BioCor					29
Total:					740
Total number of complimentary registrations					55

ITEMS INCLUDED IN THE FEES:

Early Bird, Late and On-Site registration fees include:

Admission to all Congress Sessions, Poster Sessions and Exhibition
 Book of Abstracts and Congress Proceedings (CD-ROM)
 Welcome Reception, Poster Party and Coffee Breaks

EUROCORR REPORT FORM 1 (TO BE COMPLETED BEFORE THE EVENT)
(Continued)

Promo registration fees include:

Admission to all Congress Sessions, Poster Sessions and Exhibition
 Book of Abstracts and Congress Proceedings (CD-ROM)
 Welcome Reception, Poster Party and Coffee Breaks
 Gala Dinner

NUMBERS OF PAPERS:

ORAL PRESENTATIONS	460 (including plenary and keynotes)
POSTERS	270
TOTAL	730

TOTAL NUMBER OF TOPICS	25
NUMBER OF PARALLEL SESSIONS	9, except Wednesday = 10

EFC CALENDAR OF FORTHCOMING EVENTS AS OF JULY 2013

Date/Venue	Conference	Contact
1-5 September 2013 Estoril, Portugal	EUROCORR 2013 <i>"Corrosion Control for a Blue Sky"</i> (EFC Event No. 343)	EUROCORR 2013 Instituto Superior Técnico Av. Rovisco Pais, Rovisco Pais, 1049-001 Lisbon, Portugal Fax: +351 21 841 9771 E-mail: secretariat@eurocorr2013.org Website: http://www.eurocorr2013.org
8-13 September 2013 Santiago de Querétaro, Mexico	64th Annual Meeting of the ISE	International Society of Electrochemistry Rue de Sébeillon 9b, 1004 Lausanne, Switzerland Fax: +41 21648 39 75 E-mail: events@ise-online.org Website: http://www.ise-online.org
8-13 September 2013 Seville, Spain	Euromat 2013	Barceló Congressos Euromat 2013 Technical Secretariat Tel: +34 954 22 40 95 E-mail: euromat2013@barcelocongresos.com
16-19 September 2013 Cracow, Poland	6th Kurt Schwabe Symposium <i>"Surface analysis and material engineering in corrosion science and electrochemical technologies "</i> (EFC Event No. 358)	Prof. Jack Banas Dept. of Chemistry & Corrosion of Metals AGH-University of Science & Technology Cracow, Poland Tel: +48 600 322 831 E-mail: jbs@agh.edu.pl Website: http://home.agh.edu.pl/~schwabe/
16-20 September 2013 Edinburgh, Scotland	Metal 2013	Email: hs.cgoutreach@scotland.gsi.gov.uk
17-20 September 2013 Tara Mountains, Serbia	YUCORR 2013 <i>15th YUCORR International Congress - Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection</i> (EFC Event No 365)	E-mail: yucorr@sitzam.org.rs Website: http://www.sitzam.org.rs/15YUCORR
29 September - 04 October 2013 La Marana, Bastia, Corsica, France	THEMACORR'2013 <i>CNRS Thematic Summer School on Corrosion Testing, Methods and Monitoring</i> <i>"La mesure de la Corrosion, Méthodologie et recommandations"</i> (EFC Event no. 367)	Bernard Normand INSA, Lyon, France E-mail: bernard.normand@insa-lyon.fr Website: http://www.cefracor.org/
29 September - 04 October 2013 Kloster Banz, Germany	Intermetallics 2013	Conventus Congressmanagement & Marketing GmbH Carl-Pulfrich-Straße 1 07745 Jena/DE Tel.: +49 3641 311 60 Fax: +49 3641 311 62 41 Website: http://www.dgm-intermetallics.de/

EFC CALENDAR OF FORTHCOMING EVENTS AS OF JULY 2013 (CONTINUED)

Date/Venue	Conference	Contact
6-9 October 2013 Las Vegas, NV, USA	Titanium 2013 <i>29th Annual Conference and Exhibition of the International Titanium Association</i>	Jennifer Simpson International Titanium Association 2655 West Midway Blvd., Suite 300 Broomfield, CO 80020-7186, USA E-mail: conference@titanium.org Website: http://www.titanium.org/
7-11 October 2013 Asahikawa, Hokkaido, Japan	LongTermCor2013 <i>5th International Workshop on Long Term Prediction of Corrosion "Damage in Nuclear Waste Systems"</i> (EFC Event No. 360)	Damien Féron CEA Director of research Commissariat à l'Energie Atomique et aux Energies Alternatives CEA- Centre de Saclay GIF-SUR-YVETTE Cedex, France E-mail: damien.feron@cea.fr
27 October – 01 November 2013 San Francisco, CA USA	224th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, USA E-mail: ecs@electrochem.org Website: http://www.electrochem.org/meetings/biannual/224/
10-13 November 2013 Brisbane, Australia	Corrosion & Protection 2013	Katherine Webber Australasian Corrosion Association Tel: +61 3 9890 4833 E-mail: kwebber@corrosion.com.au Website: http://www.acaconference.com.au/2013conference
14-15 November 2013 DECHEMA-House, Frankfurt am Main, Germany	Bring On The Heat 2013 <i>Innovative Corrosion Technology - Process Safety and Corrosion - Corrosion Under Insulation - Thermal / Hi-Temp Coatings - Passive Fire Protection</i> (EFC Event No. 370)	BOTH Office c/o DECHEMA e.V. Theodor-Heuss-Allee 25 60486 Frankfurt am Main, Germany Tel.: +49 69 7564 278 Fax: +49 69 7564 418 E-mail: both@dechema.de Website: http://efcweb-cms.dechema.de/both.html
27-29 November 2013 Jastrzab/Poraj (near Czestochowa), Holiday and Recreation Centre Lesna Radosc	17th All-Polish Corrosion Symposium <i>„New Achievements in Corrosion Research and Engineering”.</i> (EFC Event No. 369)	Prof. Henryk Bala Czestochowa University of Technology, Department of Chemistry Al. Armii Krajowej 19 42-200 Czestochowa, Poland Fax: +48 34 3250602 E-mail: hbala@wip.pcz.pl Website: http://www.symp-kor-apcs.wip.pcz.pl/index_eng.html
1-6 December 2013 Boston, Massachusetts, USA	MRS Fall Meeting 2013 <i>2013 Fall Meeting & Exhibit of the Materials Research Society</i>	Materials Research Society 506 Keystone Drive, Warrendale, PA, 15086-7537, USA Tel: +1 724 779.3003 Fax: +1 724 779.8313 E-mail: info@mrs.org Website: http://www.mrs.org/fall2013/

EFC CALENDAR OF FORTHCOMING EVENTS AS OF JULY 2013 (CONTINUED)

Date/Venue	Conference	Contact
2-6 December 2013 Las Vegas, USA	Thermec 2013 <i>International Conference on Processing & Manufacturing of Advanced Materials Processing, Fabrication, Properties, Applications</i>	Website: http://www.thermec.org/template3s/index.php
2014		
9-13 March 2014 San Antonio, TX, USA	Corrosion 2014/NACE Conference and Exposition EFC endorsed Event	CaLae McDermott Tel: +1 281 228 6263 E-mail: calae.mcdermott@nace.org Website: www.nace.org
11-16 May 2014 Orlando, FL, USA	225th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, USA E-mail: ecs@electrochem.org Website: http://www.electrochem.org/meetings/biannual/25/
24-26 June 2014 Antibes Juan-les-Pins, France	6th Cathodic Protection Days <i>"Theory and applications on land, seawater, concrete and inner surfaces"</i> (EFC Event No. 363)	CEFRACOR 28 rue Saint Dominique 75007 Paris France Tel: +33 1 4705 3926 Fax: +33 1 4555 9074 E-mail : PCRA2014@cefracor.org Website : http://www.cefracor.org/PCRA2014/
31 August-5 September 2014 Lausanne, Switzerland	ISE Annual Meeting 2014 <i>65th Annual Meeting of the International Society of Electrochemistry</i>	International Society of Electrochemistry Rue de Sébeillon 9b, 1004 Lausanne, Switzerland Fax: +41 21648 39 75 E-mail: events@ise-online.org Website: http://annual65.ise-online.org/
8-12 September 2014 Pisa, Italy	EUROCORR 2014 <i>"Improving materials durability: from cultural heritage to industrial applications"</i> (EFC Event No. 364)	Associazione Italiana di Metallurgia (AIM) Dr. Federica Bassani P.le R. Morandi, 2 · 20121 Milano, Italy Tel: +39 0276021132 · Fax +39 0276020551 E-mail: eurocorr2014@aimnet.it Website: http://www.eurocorr2014.org/
5-10 October 2014 Cancun, Mexico	226th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, USA E-mail: ecs@electrochem.org Website: http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
2-6 November 2014 Jeju Island, Korea	19th International Corrosion Congress (ICC) <i>"Corrosion Control, Contributing to a Sustainable Future for All"</i>	The Corrosion Science Society of Korea Tel: +82-2 539 5869 Fax: +82-2 555 4579 E-mail: icc2014.korea@gmail.com Website: http://www.icc-net.org/

EFC CALENDAR OF FORTHCOMING EVENTS AS OF JULY 2013 (CONTINUED)

Date/Venue	Conference	Contact
24-28 November 2014 Le Corum, Montpellier, France	Matériaux 2014	Pascale Bridou Buffet FFC 28, rue Saint-Dominique 75007 Paris, France Tel: +33 1 5359 0218 Fax: +33 1 4555 4033 E-mail: pascale.bridou@wanadoo.fr Website: http://www.ffc-asso.fr/thematique-chimie/colloques-ffc/materiaux-2014.html
2015		
15-19 June 2015 Frankfurt am Main, Germany	ACHEMA 2015	DECHEMA Ausstellungs GmbH Theodor-Heuss-Allee 25 60486 Frankfurt am Main Germany Website: http://www.achema.de
6-10 September 2015 Graz, Austria	EUROCORR 2015 <i>"Earth, Fire, Water, Air, Corrosion happens everywhere"</i> <i>EFC Event (No. to be confirmed)</i>	ASMET Prof. Gregor Mori Franz-Josef-Str. 18 8700 Leoben, Austria E-mail: Eurocorr2015@asmet.at Website: http://www.eurocorr2015.org
2016		
11-15 September 2016, Montpellier, France	EUROCORR 2016 <i>"Advances in linking Science to Engineering"</i> <i>EFC Event (No. to be confirmed)</i>	CEFRACOR 28 rue Saint-Dominique 75007 Paris, France Fax: +33 1 45 55 90 74 E-mail: info@cefracor.org