

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



BOARD OF ADMINISTRATORS

Freiburg, Germany

September 9, 2007

WORKING PAPERS

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WORKING PAPERS

Meeting of the Board of Administrators

of the

European Federation of Corrosion

Freiburg, Germany, September 9, 2007

Venue of meeting: **Novotel Freiburg am Konzerthaus
Konrad-Adenauer-Platz 2
79098 Freiburg am Breisgau
Germany**

Room Colmar

Date and time of meeting: **Sunday 9th September, at 14h00**

Chairman: **Prof. Dr. Ing. Michael Schütze (EFC President)**

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

**EUROPEAN FEDERATION OF CORROSION MEETING OF THE
BOARD OF ADMINISTRATORS, FREIBURG, 9th SEPTEMBER 2007, 14.00 p.m.**

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 of BoA
- Item 2 EFC Presidency and Vice Presidency
- Item 3 Administrative Matters
 - 3-1 Status of Elections to BoA
 - 3-2 Status of Elections to STAC
 - 3-3 Secretariat Efficiency
 - 3-4 Flyer “What is the EFC”
- Item 4 Report on STAC Activities
- Item 5 Status of the Revised EFC Statutes
- Item 6 Review of Bye-Laws
- Item 7 EFC Strategy Group
 - 7-1 Proposed Rolling 5-year Strategic Development Plan
- Item 8 Liaisons with other organisations
 - 8-1 NACE
 - 8-2 World Corrosion Organisation
- Item 9 Finance
 - 9-1 Honorary Treasurer’s Report
- Item 10 EUROCORR Series: 2007 to 2011
 - 10-1 Report on EUROCORR 2007 Freiburg
 - 10-2 Preparations for EUROCORR 2008 Edinburgh
 - 10-3 EUROCORR 2009 Nice
 - 10-4 EUROCORR 2010 Moscow
 - 10-5 EUROCORR 2011 Bids to Date
 - 10-6 Proposed Revision of Selection Procedure
- Item 11 EFC Activities and Projects
 - 11-1 Scientific Secretary's Report on his Work
 - 11-2 EFC Publications
 - 11-3 EFC Web Site
- Item 12 EFC Calendar of Events
- Item 13 Any other Business
- Item 14 Date and Place of next BoA

WORKING PAPERS OF THE EFC BOARD OF ADMINISTRATORS

Item 01 Opening of the meeting

Mr. Schütze, President of the EFC, chairman of the meeting, will welcome delegates.

Item 02 Apologies for Absence

Mrs. 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 Paris meeting (26 March 2007) and to raise any matters not covered in the present agenda.

Item 2 EFC Presidency and Vice-Presidency

A ballot within the BoA has been initiated by the Frankfurt Office and the result will be presented in Freiburg.

Subject to approval by the BoA, this proposal will be submitted to the General Assembly for approval.

Item 3 Administrative Matters

3-1 Status of Elections to BoA

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

Belgium	:	Mr. Antoine POURBAIX (Founder Member country)
France	:	Dr. Philippe BERGE (Founder Member country)
Germany	:	Prof. Bernd ISECKE (Founder Member country)
UK	:	Mr Don HARROP (Founder Member country)
Albania	:	Prof. Dr. Zana GACE (proposed for election)
Croatia	:	Dr. Sc. Darko RAJHENBAH (proposed for election)
Hungary	:	Prof. Erika KÁLMÁN (proposed for re-election)
Italy	:	Dr. Stefano TRASATTI (proposed for election)
Norway	:	Dr. Stein OLSEN (proposed for re-election)
Russia	:	Dr. Alexandr V. MURADOV (proposed for re-election)
Sweden	:	Dr. Rolf GUBNER (proposed for election)

The BoA is requested to submit the above nominations to the General Assembly for approval. Since membership of the BoA is limited to twelve voting members, and the representatives from the four nominated administrators, plus the President and the Vice-

President, occupy six of those positions, the General Assembly will be invited to elect six out of the seven individuals who have been proposed for election or re-election.

The CVs of the nominated persons received to date are provided in **Appendices 1 - 6**.

3-2 *Status of Elections to STAC*

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

Albania	:	Mr. Kastriot BEJTAJ (proposed for election)
Germany	:	Dr. Jörg VOGELSANG (proposed for election)
Hungary	:	Dr. Judit TELEGDI (proposed for re-election)
Israel	:	Dr. Amir ELIEZER (proposed for election)
Italy	:	Prof. Lorenzo FEDRIZZI (proposed for re-election)
UK	:	Mr. Don HARROP (proposed for re-election)

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

The CVs of the nominated person received to date are provided in **Appendices 7-11**.

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

3-3 *Secretariat Efficiency*

In response to concerns that there might be ways of improving the efficiency with which the EFC Secretariats operate, a meeting of all three secretariats took place in July to discuss how to improve the co-ordination between them. The Scientific Secretary will present the main proposed actions.

3-4 *Flyer "What is the EFC"*

A publicity flyer entitled "What is the EFC" is being prepared by Frankfurt Office. Progress will be reported and the BoA will be requested to comment.

It is intended that this flyer will be widely distributed in order to enhance peoples' awareness of the Federation.

Item 4 *Report on STAC Activities*

Mr. Vogelsang, Chairman of STAC, will review progress in the STAC.

The term of office of the current STAC Chairman will end in 2007, and in accordance with the EFC Bye-Laws, a new STAC Chairman must be nominated by and elected from among the voting members of the STAC.

The results of this process will be announced to the BoA.

Item 5 Status of the Revised EFC Statutes

Following the review of the EFC Statutes, progress on the translation into French and registration to the “Moniteur Belge” will be presented by Antoine Pourbaix.

Item 6 Review of Bye-Laws

A revision of the EFC Bye-Laws has been undertaken by Mr. Harrop. **Appendix 12** provides the revised version proposed to BoA Members for approval (changes are shown in red).

As was the case with the revised EFC Statutes, which were proposed to the EFC General assembly in Maastricht last year, and have subsequently been approved by postal ballot, an important revision to the Bye-Laws relates to Clause 4, on Full Member Rights, in which the acceptance is proposed of “International Members”, defined as scientific and technical societies and organisations located in countries that are not full member states of the Council of Europe.

Subject to the recommendation of the BoA, these revised Bye-Laws will be presented to the General Assembly for approval.

It has been decided that revision of the Directives for the Establishment and Operation of Working Parties, which are incorporated in the Bye-Laws, will be entrusted to the Science and Technology Advisory Committee.

Item 7 EFC Strategy Group

7-1 Proposed Rolling 5-year Strategic Development Plan

An action has been placed on Scientific Secretary to propose a 5-year strategic development plan for the EFC, following discussions with Don Harrop and the Honorary Treasurer.

Mr. McIntyre will report on progress.

Item 8 Liaisons with other Organisations

8-1 NACE

The President will review the status of EFC/NACE Collaboration, including opportunities for joint ventures including the organisation of joint sessions at NACE CORROSION Conferences, more joint publications, etc.

8-2 World Corrosion Organisation

Following the letter sent in May 2007, see **Appendix 13**, the EFC President will present the result of the EFC Member Societies’ responses as to whether or not they wish to register as Full Members of WCO.

Item 9 Finance

The Honorary Treasurer will present the EFC Financial Report, see **Appendix 14**.

The BoA is invited to approve the Honorary Treasurer’s Report.

Item 10 **EUROCORR Series: 2006 to 2010**

10-1 Report on EUROCORR 2007 - Freiburg

A report on the preliminary results of the forthcoming **EUROCORR 2007** in Freiburg will be presented.

10-2 EUROCORR 2008 - Edinburgh

EUROCORR 2008 will be held on **7 - 11 September 2008**, at the Edinburgh International Conference Centre (EICC), with the Institute of Corrosion as the lead host society, aided by The Institute of Materials, Minerals and Mining. The main focus will be **“Managing Corrosion for Sustainability”**.

Mr Lyon will report on the preliminary arrangements on behalf of the organisers.

10-3 EUROCORR 2009 - Nice

EUROCORR 2009 will be held on **6 - 10 September 2009**, in Nice, co-organised by both of the French EFC Member Societies, CEFACOR, ENSCP and SCI. The general theme will be **“Corrosion: from the Nanoscale to the Plant”**.

The preliminary arrangements for EUROCORR 2009 will be presented by the organisers.

10-4 EUROCORR 2010

EUROCORR 2010 will be held on 13 – 17 September 2010 in Moscow.

Mr. Muradov will report on the preliminary arrangements for EUROCORR 2010.

10-5 EUROCORR 11 - Bids to date

Members are reminded that bids to host **EUROCORR 2011** should be submitted in writing to the Scientific Secretary **by 31st December 2007**. To date (15 August 2007) two expressions of interest in hosting the event have been received, from AIM (Italy) and SEQUI (Spain).

10-6 Proposed Revision of Selection Procedure

A proposal to adopt a pre-selection procedure for future bids to host EUROCORR has emerged from discussions within the President’s Advisory Group. The aim is to contain the number of presentations by potential host countries to no more than three during the spring meeting of the BoA. Thus it is recommended that when more than 3 Member Societies bid to host EUROCORR there should be an e-mail ballot of BoA members, based on a completed pro-forma from each of the contestants. BoA members would be required to rank the proposals in order to produce a short-list of three competing bids for presentation to the BoA.

The final selection would follow the procedure used for EUROCORR 2010, where members of BoA who were making presentations were excluded from competing presentations, but not from the vote.

Item 11 EFC Activities and Projects

11-1 Scientific Secretary's Report on his Work

The Scientific Secretary will present his report covering activities since the last meeting of the BoA in Paris on 26th March (see **Appendix 15**).

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

11-2 EFC Publications

Representatives from Maney Publishing and Woodhead Publishing Limited will be invited to make a brief presentation to explain the relationship between both parties and the Institute of Materials, Minerals and Mining and to report on the current status of publications in the EFC Series. The Scientific Secretary will report on any further additions planned by the EFC Working Parties.

11-3 EFC Website

The web presentation of the EFC plays a more and more important role for the communication of the EFC official bodies but also for the whole European corrosion community. Regular updates and the provision of current and helpful information are essential. However, the person currently operating the website in Frankfurt has insufficient time to satisfy these growing requirements.

It is, therefore, proposed to increase the internet team by a corrosion scientist and a software engineer working part time for the EFC at DECHEMA. This will incur additional costs which have to be covered. A detailed proposal will be presented at the meeting.

Item 9 EFC Calendar of Events

The Scientific Secretary will introduce an update of forthcoming events in the EFC Calendar, which now includes important non-EFC events (see **Appendix 16**).

Item 10 Any other Business

Members are invited to raise any other matters.

Item 11 Date and Place of next BoA

The next BoA meeting will be held in spring 2008, on a date and in a place to be decided.

APPENDICES

CV of Zana Gace (Nominated for election to the BoA)

Name: Zana Gace

Institution: University of Tirana, Faculty of Natural Sciences, Department of Chemistry, Corrosion Protection Laboratory.

Address: Bulvard Zogu I, Tirana, Albania

Since 2002 Professor also at Postgraduate School on Corrosion and Protection at the Department of Chemistry, Faculty of Natural Sciences.

INDIVIDUAL PROFILE

06.09.1949	Date of Birth
1967-1972	Study of Chemistry at the University of Tirana, Faculty of Natural Sciences, Industrial Chemistry Branch
1972	Assistant at the General and Inorganic Chemistry Chair, Department of Chemistry, Faculty of Natural Sciences, University of Tirana.
1975	One year Qualification in Corrosion Protection by Chinese Specialists.
1985	PhD Thesis on Cathodic Protection of underground gas and oil pipelines by galvanic anodes.
1987	Participation at Corrosion Laboratory of Ecole Nationale Supérieure de Chimie de Paris, headed by Prof. C. Fiaud.
1994	Assistant Professor at General and Inorganic Chemistry Chair, Faculty of Natural Sciences, University of Tirana.
1995	Participation at Corrosion Center " Aldo Dacco " , University of Ferrara, Itali headed by Prof. G. TrabANELLI.
1997, 2000, 2002	Participation at Corrosion Protection Laboratory at University of Applied Sciences, Iserlohn, Germany , head by Prof.habil. G. Schmitt.
2001	Professor of General and Inorganic Chemistry and of "Corrosion Protection" in a special course of Corrosion for the students of Industrial Chemistry Branch

Other Activities

- Member of Scientific Council of the Faculty of Natural Sciences, University of Tirana.
- Former ICC Delegate of Albania.
- Head of Albanian Corrosion Society.
- Studies, collaborations with Industry for several applications and publications on cathodic protection of ships by galvanic anodes; protection of cooling systems

CV of Zana Gaçe (Continued)

- using inorganic inhibitors; study of corrosion activity of soils in underground of gas ,oil and water pipelines; study of spreading inhibition in gas and oil industry; corrosion of carbon steel in CO₂/H₂S, saturated brine solutions etc.
- Participation on national and international activities on Corrosion Protection.

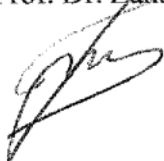
Publications

1. Determination of current efficiency of aluminum alloys used as galvanic anodes in protection of ships against corrosion. (Bulletin of Natural Sciences Nr.1,1977. Faculty of Natural Sciences, University of Tirana, Albania.
2. Determination of minimal anodic current density of galvanic anodes and some other parameters of aluminum alloys used as sacrificial galvanic anodes in corrosion protection of ships. (Bulletin of Natural Sciences, Nr. 3, 1977.), Faculty of Natural Sciences, University of Tirana, Albania.
3. Z.Gaçe, G.Schmitt. Another step toward harmonizing corrosion education in Europe : Installation of postgraduate study on corrosion at the University of Tirana within the Tempus Programme./ September 28-2 October 2003, Budapest, Hungary.
4. A.Lame, Z.Gaçe,M.Bakalli. /Faliure analyse of corrosion to nje e cattie prej Zn bazuar ne analizen metalografike dhe (SEM (EDX)I 28-29. 10. 2004/
5. A. Llabani, Z.Gaçe, “Corrosion Rate Measurements of Carbon Steel in CO₂/H₂S Saturated Aqueous Brine Solutions” (GT-P-58). 2004, (ICOSECS4), Beograd (Serbia).
6. A. Llabani, Z. Gaçe, E. Vito,/”Study of corrosion for steels 40 and X- 65 in brine solutions of crude oil “. (The Bulletin Technique Sciences) Nr.1, 2004. Polytechnic University of Tirana, Albania
7. A. Llabani, Z. Gaçe, /”Corrosion of Carbon Steel in Brine Solution of Crude Oil”, 2005, “The Albanian Journal of Natural and Technical Sciences” (AJNTS).
8. A.Llabani, Z. Gaçe,/ “Study of flow induced localised corrosion of carbon steel by rotated cage in gas transporting pipelines.” (The Bulletin of Technique Sciences), 2005. Polytechnic University of Tirana, Albania
9. A. Llabani, Z. Gaçe, “Chemical Inhibition of Flow Induced Localized Corrosion (FILC) in CO₂/H₂S Containing Media in Oil and Gas Industry”, XI Balkan Mineral Processing Congress: “Mineral Processing in Sustainable Development”, Durres-2005, Albania.

CV of Zana Gaçe (Continued)

10. Z.Gaçe, A.ciftjal The study of hydrogen permeation in carbon steels and the effect of inhibitors./ (IV Intrnational Simposium << Materials and their use. » October 2004/ Vlora, Albania.
 11. A.Lame, Z.Gaçe, M. Prifti/ Determination of optimal ratio between inhibitor and surfactant for (steel 45) by potenciodynamic method. 2005 “, XI Balkan Mineral Processing Congress: “Mineral Processing in Sustainable Development”, Durres-2005, Albania.
 12. A. Llabani, Z.Gaçe, “Corrosion of Carbon Steel in Brine Solution of Crude Oil” (13-P-517), 2004 (EUROCORR 2004), Nice, France.
 13. A.Lame, Z.Gaçe./ Otimization of surfactant 1 inhibitor concentration ratio for spreading inhibition of (TOL) corrosion under stagnant conditions/ 4-8.08.2005/ EUROCORR 2005/ Lisbon- Portugal
- I. Installation of postgraduate study at the University of Tirana within the Tempus Programme. CD_JEP-15042-2000/ALB, (2000-2002).

Prof. Dr. Zana Gaçe



CV of Darko Rajhenbah (Nominated for election to the BoA)**EUROPEAN
CURRICULUM VITAE
FORMAT****PERSONAL INFORMATION**

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

WORK EXPERIENCE

• Dates (from – to)	1972 - 2002
Name and address of employer	Ericsson Nikola Tesla
Type of business or sector	Process engineer, manager
Occupation or position held	Plant engineer, plant manager
Main activities and responsibilities	Conducted the engineering processes in the field of chemical and electrochemical treatment of metals, metal deposition, quality control, inhibitors use and corrosion of materials. Design processes of electrochemical deposition of zinc, nickel, tin/lead, tin, copper and gold alloys. Solving a problems concerning organic coating. Dealing with problems of atmospheric corrosion of steel and zinc. Conducted researching and development of high speed gold alloy plating process. Environmental problems responsibility concerning emission to water, air and land.
• Dates (from – to)	2003-
Name and address of employer	Ministry of Agriculture, Forestry and Water management
Type of business or sector	Water management directorate
Occupation or position held	Senior adviser
Main activities and responsibilities	Water management, water protection against pollutions, EU integration and legislation. Waste water treatment facilities, national legislation implementation.

CV of Darko Rajhenbah (Continued)**EDUCATION**

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

TRAINING

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

CV of Darko Rajhenbah (Continued)**PERSONAL SKILLS AND
COMPETENCIES**

Mother tongue(s) Croatian

Other language(s)

Language	English, Germany, Italian
Speaking	yes
Writing	yes
Understanding (listening and reading)	yes

**SOCIAL SKILLS AND
COMPETENCIES****ORGANISATIONAL SKILLS AND
COMPETENCIES**

Management courses, seminars and workshops with respect to EU legislation, attending a conference concerning corrosion and materials protection. Organizing and conducting conference, seminars and workshops related to corrosion and materials protection and environmental issues.

**TECHNICAL SKILLS AND
COMPETENCIES**

European Union basic courses, Ministry of Foreign Affairs and European Integration, 2005, Zagreb.
Contributing to project concerning inhibition of copper. Knowledge of ISO standards implementation, corrosion testing methods, quality assurance.

**ARTISTIC SKILLS AND
COMPETENCIES****OTHER SKILLS AND
COMPETENCIES**

Long term assistant at the Faculty of Shipbuilding and Naval Architecture in the laboratory of Material Protection in Zagreb. Conducting research and teaching. The president of Croatian Society for Materials Protection since 2003.

DRIVING LICENCE(S) yes

ADDITIONAL INFORMATION 45 scientific / technical published papers

ANNEXES**SIGNATURE**

Dr.sc. Darko Rajhenbah

CV of Erika Kálmán (Nominated for re-election to the BoA)

Name: Prof. Dr. Erika KALMAN

Head of the Department of Surface Modifications and Nanostructures, Chemical Research Center of the Hungarian Academy of Sciences, Budapest
 Director of the Institute for Materials Science and Technology of the Bay Zoltán Foundation, Budapest
 Professor at Technical University, Faculty of Chemical Engineering, Budapest

Studies:

MSc, PhD, Technical University Dresden, Germany
 Habilitation, Technical University Budapest, Hungary
 DSc (1995), Hungarian Academy of Sciences

Scientific interests:

Main fields of interest in the structural properties of metal/electrolyte solution, interfaces; mode of actions of corrosion inhibitors, functional nano-layers.

As a result of these investigations new methods have been elaborated and developed for the study of wet-samples by electron optical techniques. Novel corrosion inhibitor compounds were developed, identified and synergistic blends were studied. Corrosion mechanism in atomic level has been investigated by scanning probe techniques.

The results attained in the above field have been published in 524 scientific papers, 32 patents, 6 books and 534 lectures and seminars presented at national and international meetings.

Study Trips (months)

State University of New York at Stony Brook, USA, Prof. H.L. Friedman, (1); University of Chicago, USA, Prof. S. Rice (1); Oak Ridge National Laboratory, Dr. A. Narten USA (1); Institut für Physik. Chemie, Technische Hochschule, Aachen, Germany, Prof. M. Zeidler (1); Korrosionsschutztechnik Iserlohn, Germany, Prof. G. Schmitt (2) (guest professor);

Local and International scientific standing:

Local:

- From 1983 Secretary and since 1999 chairman of the Corrosion Department of the Hungarian Chemical Society.
- 1992-2003 General Secretary of the Hungarian Corrosion Society.
- From 2004 President of the Hungarian Corrosion Society
- 1994-1999 Secretary of the Technical Material Science Committee of the Hungarian Academy of Sciences.
- Member of the Electrochemical Committee of the Hungarian Academy of Sciences
- Member of the Scientific Society of Mechanical Engineering, member of the Hungarian Chamber of Engineers
- 1998-2000 Member of the Scientific Qualification Committee
- From 1999 Member of the Scientific Committee of the Chemical Research Center of the Hungarian Academy of Sciences

CV of Erika Kálmán (Continued)

- 2000-2001 Secretary of the Material Science and Silicate Chemistry Committee of the Hungarian Academy of Sciences
- From 2002 President of the Material Science and Silicate Chemistry Committee of the Hungarian Academy of Sciences
- 2000-2003 Member of the Scientific Committee of Higher Education
- 2004- Member of the Research Strategy Group of the Scientific Committee of Higher Education

International:

- Elected in different assignments of the International Society of Electrochemistry, ISE such as:
1989-1992 Co-chairman of Division 2
1993-1995 Vice President of the ISE
1996-1998 General Secretary of ISE
1999-2000 President Elect of the ISE
2001-2002 President of the ISE
2003-2004 Past President of ISE
- 1996-2001 Elected member of the Scientific and Technological Advisory Board STAC of the European Federation of Corrosion, EFC
- 2001- Elected Member of the Board of Administration of the EFC
- Member of Working Parties of the EFC:
Education; Corrosion and Scale Inhibition; Surface Science and Mechanism of Corrosion and Protection Working Parties
- Member of the International Corrosion Council
- Member of the Electrochemical Society
- Member of the NACE International

EU COST Programs

- 1994-1997 Member of the Management Committee of COST 511
- 1997-1999 Co-Chairman of COST 520, Member of the Management Committee
- From 1999 Member of the Management Committee of COST 523, Member of the Management Committee
- From 2000 Member of the Management Committee of COST D19
- From 2002 Member of the COST Nanostag

EU

Evaluation Expert since 2000.

Editorship:

Journal de Microscopie et de Spectroscopie Electroniques (1975-1985)

Korróziós Figyelő (1994-)

Editorial Board Member: Corrosion Reviews (2001-2005)

Corrosion Engineering Science and Technology (2002-)

Corrosion and Corrosion Protection (2003-)

Materials Science, Testing and Informatics (2004-)

Trends in Corrosion Research (2005-)

Nano (2005-)

CV of Erika Kálmán (Continued)

Recent invited lecturer:

- 1996: XXIII. FATIPEC Congress, Belgium (plenary lecture); Central Electrochemical Research Institute,
 1997: 2nd Schwabe Conference, Germany (plenary lecture)
 1999: Invited lecturer in EUROCORR' 99
 2000: Invited lecturer in 7th International Frumkin Symposium, Russia
 2001: Materials 2001, Coimbra, Portugal (plenary); XII. SIBEE, Gramado, Brazil (plenary);
 52nd Annual Meeting of ISE, San Francisco, USA (keynote)
 2002: 53rd ISE Meeting, Düsseldorf, Germany (keynote), 201. Meeting of the
 Electrochemical Society of ISE, Philadelphia, USA (invited lecturer)
 2003: 54th ISE Meeting, Sao Pedro, Brazil (keynote), 8th International Symposium on
 Electrochemical Methods in Corrosion Research, EMCR 2003, Newport, Belgium
 (keynote), EUROCORR 2003, Budapest, Hungary (plenary); IV. OAAKK,
 Balatonfüred, Hungary (plenary), Forum EICHEM Applied Electrochemistry, Wien,
 Austria (plenary), 3rd Baltic Conference on electrochemistry, Gdansk, Poland
 (plenary), CERECO, Miskolc, Hungary (plenary), Italian Chemical Society Meeting,
 Turin, Italy (plenary), 5th NACE Latin American Region Corrosion Congress,
 Santiago, Chile (plenary)
 2004: 4th Kurt Schwabe Corrosion Symposium, Espoo, Finland (plenary);
 XXVII. Fatipec Congress, Aix-en-Provence, France (plenary) ;
 VII. International Conference and Exhibition "Corrosion 2004" Russia, Lvov
 (plenary), EUROCORR 2004, Nice, France (keynote), 55th Annual Meeting of ISE,
 Thessaloniki, Greece (keynote), 206th Meeting of the Electrochemical Society,
 Honolulu, Hawaii-USA (invited lecturer)
 2005: 29th International Conference on Solution Chemistry, Portoroz, Slovenija (key-note);
 EUROCORR 2005, Lisboa, Portugal (key-note), 56th Annual Meeting of ISE, Busan,
 Korea (key-note).

Awards:

- Kurt Schwabe Prize (1967)
 Academic Young Prize (1976)
 CAOLA research Award (1987)
 Szechenyi Professor Scholarship (1998-2002)
 CRC HAS Lecturer I. Prize (2001)
 Academic Prize (2002)
 Jedlik Ányos Prize (2005)

Capacity as a teacher:

- Lectures in Corrosion and Corrosion Protection, Introduction to Material Science,
 Industrial Water Treatment, Modern Surface Analytical Techniques and Applied
 Electrochemistry
 Supervisor for 40 MSc and 20 PhD thesis

CV of Erika Kálmán (Continued)**Selected recent publications:**

1. E. Kalman, I. Felhosi, F. H. Karman, I. Lukovits, J. Telegdi, G. Palinkas: Towards Environmental Friendly Corrosion Inhibitors **Ch. 9. in Corrosion and Environmental Degradation**, (ed. M. Schutze), in: *Series of Materials Science and Technology*, Wiley-VCH Verlag GmbH, Weinheim, Germany (1999).
2. Gy. Tolnai, F. Csempesz, M. Kabai-Faix, E. Kalman, Zs. Keresztes, A. L. Kovacs, J. J. Ramsden, and Z. Horvolgyi: Preparation and Characterization of Surface-Modified Silica Nanoparticles, *Langmuir* **17**, 2683-2687 (2001).
3. P. Nagy, J. Miklosi, P. Poczik, K. Papp, E. Kalman: Structure comparison of nanotubes produced in different processes, *J. Appl. Phys.* **A 72** 185-188(2001).
4. A. Vertes, G. Vanko, Z. Nemeth, Z. Klencsar, E. Kuzmann, Z. Homonnay, F. H. Karman, E. Szocs, E. Kalman: Nanostructure of Vapor Deposited 57-Iron Thin Films, *Langmuir* **18** 1206-1210 (2002).
5. P. Nagy, A. Csanady, B. Vero, G. Palinkas, E. Kalman: The combined application of nanoindentation and scanning probe microscopy in materials sciences, *Mat. Sci. Forum* 414-415, 297-304 (2003).
6. E. Kalman, P. Nagy, A. Csanady, K. Papp, H. K. Csorbai, Cs. Hunyadi, J. Telegdi: AFM and SEM: Competing or Complementary Techniques? *Mat. Sci. Forum*, **414-415**, 241-252 (2003).
7. E. Szőcs, I. Bako, T. Kosztolanyi, E. Kalman: EC-STM study of 5-mercapto-1-phenyl-tetrazole adsorption on Cu(111) *Electrochimica Acta* **49**, 1371-1378(2004)
8. A. Deák, I. Székely, E. Kálmán, Zs. Keresztes, A. L. Kovács, Z. Hórvölgyi: Nanostructured silica LB films on glass substrate with antireflective properties; *Thin Solid Films*, 484 (1-2) 310-317 (2005)
9. Á. Csanády, I. Sajó, J. L. Lábár, A. Szalay, K. Papp, G. Balaton, E. Kálmán: Nanocomposite Bulk of Mechanically Milled Al-Pb Samples Consolidated Pore-Free by the HERF Technique; *J. Nanoscience and Nanotechnology* Vol.5. 869-874 (2005)
10. S. SOBRI, S. ROY, E. KÁLMÁN, P. NAGY, M. LAKATOS: Studies Related to Recovery of Gold from a Spent Thiosulphate-Sulphite Electrolyte Using an Electrolytic Cell *ECS Transactions*: 1. 37-42 (2006)
11. A. MIKÓ, R. HEMPELMAN, M. LAKATOS, E. KÁLMÁN, Iron-Phosphorous Layers Deposited by Pulse Electrochemical Technique *Electrochem. Solid State Lettr.* 9. (8), 126-130 (2006)

CV of Stefano Trasatti (Nominated for election to the Boa)**OFFICE ADDRESS**

Dr. Stefano TRASATTI
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HOME ADDRESS

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BIOGRAPHICAL DATA

Birthdate: May, 28 1964
Place of Birth: Milan, Italy
Citizenship: Italian

CURRENT FIELDS OF INTEREST

H₂S and CO₂ corrosion, corrosion control and monitoring, naphthenic acid corrosion, corrosion in organic medium, active-passive materials, neural networks.

EDUCATION

11/2002	Research Assistant in the Corrosion and Metal Protection Laboratory, Dept. of Physical Chemistry and Electrochemistry at the University of Milan. Responsible of the Corrosion and Metal Protection Laboratory.
10/1995	Ph.D. studies (dissertation) in the Dept. of Physical Chemistry and Electrochemistry at the University of Milan with a graduate fellowship of the Ministero dell'Istruzione, dell'Università e della Ricerca Scientifica.

CV of Stefano Trasatti (Continued)

Title of the Ph.D. thesis: "Crevice corrosion as the initiation step for localized corrosion of stainless steel in chloride containing cooling systems".

Advisor: Prof. G Bianchi,, Prof. F.Mazza and Prof. G.Faita

07/1991

Laurea in Industrial Chemistry, Summa cum laude, in the Dept. of Physical Chemistry and Electrochemistry at the University of Milan.

Title of the thesis: "Influence of the hydrodynamic conditions on stainless steel corrosion in heat exchangers".

Advisor: Prof. F.Mazza and Prof. E.Sivieri

06/1983

Completion of the Italian Secondary Education.

WORK HISTORY

Research Assistant	November 2002 – present	Dept. of Physical Chemistry and Electrochemistry	University of Milan
Head of Laboratory	May 2001 – October 2002	Corrosion and Electrochemistry Laboratory	Centro Sviluppo Materiali S.p.A., Rome, Italy
Research fellow	July 1999 – April 2001	Corrosion and Electrochemistry Laboratory	Centro Sviluppo Materiali S.p.A., Rome, Italy
Head of Laboratory	February 1997 – June 1999	Surface Treatment Laboratory	Henkel Surface Technologies, Caleppio di Settala, Milan , Italy
Research fellow	April 1996 – January 1997	Surface Treatment Laboratory	Henkel Surface Technologies, Caleppio di Settala, Milan , Italy
Postdoctoral position (Dornier GmbH)	April 1995 – March 1996	Dept. of Physical Chemistry and Electrochemistry	University of Milan
Postdoctoral position (Enel S.p.A.)	October 1994 – March 1995	Dept. of Physical Chemistry and Electrochemistry	University of Milan

CV of Stefano Trasatti (continued)

HONORS AND AWARDS

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

MEMBERSHIPS

- Italian Delegate of the WP15 "Corrosion in the Refinery Industry" of the European Federation of Corrosion (EFC)
- Member of the Study Group on Corrosion of the Associazione Italiana di Metallurgia
- Coordinator of the Working Group "Corrosion in the refinery industry" of the NACE Italy Section
- Member of the NACE International
- Member of the Italian Chemical Society (SCI)
- Member of the International Society of Electrochemistry (ISE)
- Member of the Associazione Italiana Metallurgia (AIM)

PRINCIPAL ACHIEVEMENTS

- Organizer (chairman) of the NACE Italy Section-EFC WP15 Joint Meeting "Corrosion in the refinery industry: where are we going?" - 31 March 2006 - Venezia Tecnologie, P.to Marghera Venezia, ITALY (www.dcfе.unimi.it/word/stefano_trasatti_meeting.pdf)
- Organizer (chairman) of the "First Workshop on Corrosion Modeling to Enable Corrosion Informed Material Selection to Life Prediction" - 29-31 July 2006 - Cernobbio Como Lake (Como) ITALY (<http://users.unimi.it/trasatti/CMLP/CMLP2006.html>)
- Chairman of Session "Corrosion Mechanism" at the - National Congress on corrosion and protection" (2005) (www.aimnet.it)
- Chairman of Symposium "Corrosion" at the "31th AIM National Congress", 22/24 November 2006, Milan, Italy (www.aimnet.it)
- Chairman of Session "Corrosion in the Industrial Plant" at the - National Congress on corrosion and protection" (2007) (www.aimnet.it)
- Delivered a 4 hour professional course: "Corrosion in the Oil & Gas Industry" in Tenaris Dalmine, Dalmine, Bergamo, Italy (2001)
- Delivered a 4 hour professional course: "Hydrogen sulfide", Enitecnologie, San Donato Milanese, Milan, Italy (2003)

CV of Stefano Trasatti (continued)

- Delivered a 4 hour professional course: “Stainless steels and Corrosion “ in Bolton Manitoba, Novate Milanese, Milan, Italy (2005)
- Modular course on “Corrosion in the Chemical Industry” organized by AIM, 12-13 November 2003, Milan, Italy.
- Modular course on “Corrosion and Metal Protection” organized by AIM, 2 November 2005, Milan, Italy.

VISITS FOR RESEARCH (SPONSORS & COLLABORATORS)

February 2006	Petrobras, CENPES, Rio de Janeiro, Brasil: Dr. R.Serra
April 2005	Institute for Corrosion and Multiphase Technology, Athens, Ohio,
USA:	Dr. S. Nestic

JOURNALS SERVED AS A REFEREE

Corrosion Science, Journal of Materials Science, Chemical Engineering Communications

PATENTS

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

MAIN ATTENDED COURSES

1. 10-13 November 1992; Advanced Techniques for Surface Engineering, European Joint Research Center, Ispra (Italy).
2. 21-22 June 1993; HyperTeaching of Corrosion Technology, European Society for Materials Education, Delft (The Netherlands).
3. 11-14 October 1993; Innovation Stainless Steels, AIM, Florence (Italy).
4. 28 February 1995; Corrosion in storage tanks - Eniricerche, San Donato Milanese, Milan, Italy.
5. 29-30 May 1996; Corrosione and Environment, AIM, Milan, Italy.
6. 26 September 1997; Valorization of effluents by electrochemical methods, AIDIC, Milan, Italy.
7. 26 November 1997; Stainless steel heat treatments, Centro Inox Servizi, Milan, Italy.
8. 23-24 November 1998; The role of Sales Engineer, by Società Mercury International, Milan, Italy.

CV of Stefano Trasatti (continued)

9. 28-29 January 1999; Sales Techniques by Società Mercury International, Milan, Italy.
10. 18-19 May 2000; Corrosion in Refinery, petrochemical and Power Generation plants, Venice, Italy.
11. 6 February 2001; Guide to Risk-based Inspection; Eniricerche, San Donato Milanese, Milan, Italy.

PUBLICATIONS***Peer-reviewed Journal Articles (published/accepted)***

1. "Valutazioni critiche dei metodi di testing della corrosione interstiziale di acciai inox e leghe similari", S.P.Trasatti e F.Mazza, *La Metallurgia Italiana*, 1993, **85** (10), 1-8.
2. "Hydrogen permeation into Al AA1060 as a result of corrosion in alkaline medium. Influence of anions in solution and temperature", A.I.Onuchukwu, S.P.Trasatti, e S.Trasatti, *Corrosion Science*, 1994, **36** (11), 1815-1824.
3. "Resistenza alla corrosione interstiziale di alcuni acciai inossidabili ad alto contenuto di elementi in lega", S.P.Trasatti e F.Mazza, *La Metallurgia Italiana*, 1995, **87** (2), 93-101.
4. "Correlations between experimental and compositional parameters in crevice corrosion", S.P.Trasatti e F.Mazza, *British Corrosion Journal*, 1995, **30** (4), 275-282.
5. "La misura del rumore elettrochimico come tecnica di monitoraggio della corrosione", S.P.Trasatti, *La Chimica e l'Industria*, 1995, **77** (7), 435-443.
6. "Crevice corrosion: a Neural Network approach", S.P.Trasatti e F.Mazza, *British Corrosion Journal*, 1996, **31** (2), 105-112.
7. "Crevice corrosion of stainless steels in near neutral chloride containing environments: A phenomenological tree", S.P.Trasatti, F.Mazza, e G.Bianchi, *Journal of Materials Education*, 1996, **18** (4&5), 245-266.
8. "Recupero elettrochimico del rame da soluzioni di decapaggio tipo Cleanox[®]352", S.P.Trasatti, Y.Demertzis, P.Giordani, D.Patracchini, e L.Nanni, *Tecnologie Chimiche*, 1997,
9. "Influence of the exposure at moderately high temperatures on the susceptibility of AISI304L Stainless Steel to crevice corrosion", S.P.Trasatti, F.Mazza, E.Camona, e E.Sivieri, *Journal of Applied Electrochemistry*, 1998, **28**, 1333-1341.
10. "Nitric acid – free pickling process for stainless steels coils industrial development at Acciai Speciali terni S.p.A.", Y.Demertzis, S.P.Trasatti, S.Fortunati, F.Mancia, e A.Musso, *Stainless Steel '99 Science and Market*, 1999, **2**, 219-228, Ed. AIM.

CV of Stefano Trasatti (continued)

11. "Corrosion behaviour of UNI7363 Al-S alloy in low water content ethanolic solutions", Trends in electrochemistry and corrosion at the beginning of the 21st century, *Collecciò Homentages* No.20, ed. UB, 2004, pp.1083-96.
12. "Electrochemical and stress corrosion cracking behaviour of titanium in n-propanol and iso-propanol solutions", *Materials Chemistry and Physics*, 2004, **83**, 367-72.
13. "Susceptibility of a X80 steel to hydrogen embrittlement", S.P.Trasatti, E.Sivieri and F.Mazza, *Materials and Corrosion*, 2005, **56** (2), 111-17.
14. "Corrosion behaviour of titanium in non-aqueous solvents", S.P.Trasatti, E.Sivieri, *Materials Chemistry and Physics*, 2005, **92** (2-3), 475-479.
15. "Comportamento a corrosione dell' acciaio inossidabile SAF2205 in ambiente di acido acetico", S.P.Trasatti, A.J.Invernizzi, *La Metallurgia Italiana*, 2005, **97** (5), 33-39.
16. γ -alumina as a support for catalysts: a review of fundamental aspects, M.Trueba, S.P.Trasatti, *European Journal of Inorganic Chemistry*, 2005, **17**, 3393-3403.
17. "Electrocatalytic activity for hydrogen evolution of polypyrrole films modified with noble metal particles", M.Trueba, S.P.Trasatti, *Materials Chemistry and Physics*, 2006, **98**(1), 165-171.
18. "Study of naphthenic acid corrosion by neural network", G.Gabetta, S.P.Trasatti, *Corrosion Engineering, Science and Technology*, 2006, **41**(3), 200-211.
19. "Resistenza a corrosione ad alta temperatura di acciai al carbonio in presenza di Sali fusi di vanadio", E.Sivieri, F.Mazza, S.P.Trasatti, G.Termignone, *La Metallurgia Italiana*, 2006, **98** (6), 17-21.
20. "Chemical dechlorination of polychlorinated biphenyls (PCBs) from dielectric oils A.Cafissi, S.Beduschi, V.Balacco, B.Sacchi, S.P.Trasatti, *Environmental Chemistry Letters*, 2007, **5** (2) 101-106.
21. ["Electrochemical noise as a powerful tool for studying corrosion processes"](#) A.Cafissi, A.J.Invernizzi, S.P.Trasatti, *Corrosion Reviews*, 2007, **25** (1-2), 233-246.

Conference Proceedings

- 1 L. Scoppio, T.Cheldi, S.Trasatti
H₂S and CO₂ corrosion of some 9Cr-1Mo alloys for downhole applications, *Corrosion* 2001, paper 1083.
- 2 B. Sacchi, E. Sivieri, G. Termignone, S.P. Trasatti

CV of Stefano Trasatti (continued)

- Corrosione in presenza di Sali fusi di materiali metallici per impianti di termoutilizzazione di RSU, Proceedings of: Innovazione nella termoutilizzazione di RSU, AIM, 18/03/03, Milan, Italy
3. S.P.Trasatti, F.Mazza
Crevice corrosion: a neural network approach, presentato in occasione del Workshop on: "Corrosion in aircraft structures and ground vehicles", 14/16-04-2003, Ravello, Naples, Italy
 4. S.P.Trasatti, F.Mazza
Utilizzo delle reti neurali nello studio della corrosione, presentato in occasione del congresso: " NACE Corrosion Italia", 30/31-10-2003, Taormina, Catania, Italy
 5. S.P.Trasatti, G.Gabetta
 6. "Naphtenic acid corrosion: a neural network approach", Proceedings of EFC Workshop: Corrosion in refinery, 9 marzo 2004, San Donato Milanese, Milan, Italy
 7. A.Cafissi, S.P.Trasatti
"Electrochemical noise in the study of corrosion processes", Proceedings of GEI 2004, 5-9 settembre 2004, Padova, Italy
 8. A.I.Invernizzi, S.P.Trasatti
"Comportamento a corrosione del SAF2205 in ambiente di acido acetico", Proceedings of Nace Corrosion Italia 2004, 25-26 novembre 2004, Genova, Italy
 9. Cafissi, A.J. Invernizzi and S.P. Trasatti,
"Electrochemical noise as a powerful tool for studying corrosion processes", Proceedings of First World Congress on Corrosion in the Military Cost Reduction Strategies, 6-8 June 2005, Sorrento, Italy
 10. M.Trueba, S.P.Trasatti
"Surface characterization of γ -Al₂O₃-based supports", Proceedings of Scienze e Tecnologie chimiche per uno sviluppo sostenibile, 14-17/06/2005, Verbania Pallanza, VB, Italy
 11. E. Sivieri, F. Mazza, S.P. Trasatti, G. Termignone
"Resistenza a corrosione ad alta temperatura di acciai in presenza di Sali fusi di vanadio", Proceedings of the Congress: Giornate Nazionali sulla Corrosione e Protezione, 29 giugno - 1 luglio 2005, Senigallia (AN), Italy
 12. G.Gabetta, S.P.Trasatti
"Sviluppo di una rete neurale per lo studio della corrosione da acidi naftenici", Proceedings of the Congress: Giornate Nazionali sulla Corrosione e Protezione, 29 giugno - 1 luglio 2005, Senigallia (AN), Italy

CV of Stefano Trasatti (continued)

13. G.Gabetta, S.P.Trasatti

“Naphtenic acid corrosion of carbon steels by neural network and autoclave testing”,
Proceedings of EUROCORR 2005, September, 4-8, 2005, Lisbon, Portugal

14. R. Riva, D. Bersano, A. Cafissi, S. Trasatti, P. Fassina

“Electrochemical noise measurements in aqueous solutions”, Proceedings of EUROCORR
2005, September, 4-8, 2005, Lisbon, Portugal

15. A.Cafissi, S.P.Trasatti

“Electrochemical Noise in corrosion monitoring“, presented on the occasion of: *EFC WP15 Corrosion Refinery Industry*, 6th September 2005 Instituto Superior Tecnico, Lisbon (Portugal)

16. A.J Invernizzi, F.Lollo e S.P.Trasatti

“Corrosion behaviour of AISI304L SS at moderately high temperature in a combustion gas mixture“, Proceedings of GEI 2004, 11-15 settembre 2005, Spoleto, Italy

17. A.Cafissi, S.P.Trasatti

“Ultrasound enhanced chemical dechlorination of polychlorinated byphenyls (PCB) in dielectric oils“, Proceedings of EMEC 6, December, 6-10, 2005, Beograd, Serbia-Montenegro

18. E. Sivieri, M.Trueba, S.P.Trasatti

“Pitting scan technique for corrosion evaluation of Al alloys“, Proceedings of EMCR, June 18-23, 2006, Dourdan, France

19. G.Gabetta, G.Zangari, S.P.Trasatti,

“Neural Network for corrosion control and data management“, Proceedings of 1° Workshop on Corrosion Modeling and Life Prediction, July 29-31, 2006, Cernobbio, Como, Italy

20. G.Gabetta, S.P.Trasatti

“Analysis of CO₂ corrosion model by Neural Networks“, Proceedings of EUROCORR 2006, September, 24-28, 2006, Maastricht, The Netherlands.

21. M.Trueba, S.P.Trasatti,

“Corrosion Protection of Al Alloys by Conducting Polymer Coatings through Silanization“, Proceedings of EUROCORR 2006, September, 24-28, 2006, Maastricht, The Netherlands.

CV of Stefano Trasatti (continued)

22. S.P.Trasatti

“The contribution of the Neural Network to the study of corrosion”, Proceedings of CAMPI 2007, May, 29-31, 2007, Beer Sheva, Israel.

23. A.J Invernizzi, L.Debenedittis and S.P.Trasatti

“Corrosion behaviour of duplex SAF2507 in aqueous organic acid solutions”, Proceedings of DUPLEX 2007, June, 18-20, 2007, Grado (GO), Italy.

24. A.J Invernizzi, M.Rizzi and S.P.Trasatti,

“Comportamento a corrosione della lega al 1050 in presenza di bromuro di etile”, Proceedings of the Congress: Giornate Nazionali sulla Corrosione e Protezione, June, 20-22, 2007, Messina (ME), Italy.

25. F.Lollo, A.Cafissi, A.J Invernizzi, and S.P.Trasatti

“Effetto dei trattamenti termici a temperature medio-alte sul comportamento a corrosione di acciai inossidabili per applicazioni industriali”, Proceedings of the Congress: Giornate Nazionali sulla Corrosione e Protezione, June, 20-22, 2007, Messina (ME), Italy.

26. B.Sacchi, E.Sivieri, G.Termignone and S.P.Trasatti

Resistenza a corrosione in ambiente solforico clorurato dell'acciaio SAF2205 termicamente alterato”, Proceedings of the Congress: Giornate Nazionali sulla Corrosione e Protezione, June, 20-22, 2007, Messina (ME), Italy.

SPONSORED AND FUNDED PROJECTS**Enitecnologie (ENI Group)**

Study of the degradation process of some catalyst supports by means of electrochemical techniques. *Part I. Duration 12 months (Nov 2002 – Nov 2003)*

Study of Naphthenic acid corrosion by a modelling approach (Neural Networks) - *Duration 6 months (June 2003 – December 2003)*

Study of the degradation process of some catalyst supports by means of electrochemical techniques - *Part II . Duration 12 months (Nov 2004 – Nov 2005)*

MGF

Evaluation of inhibiting action of some additives in offset machine applications - *(06/2003)*

CV of Stefano Trasatti (continued)

Whirpool

Evaluation of experimental conditions for calcareous deposits formation on AISI316L substrate – (05/2004)

Acetati S.p.A.

Corrosion behaviour of Duplex 2205 stainless steel in acetic acid medium - *Duration 12 months (December 2003 – December 2004)*

Agip E&P (ENI Group)

High pressure and low temperature corrosion by carbon dioxide – *Duration 6 months (June 2004 – December 2004)*

Aggressiveness of Multiphase Flow: critical analysis of the variables involved in CO₂/H₂S corrosion by means of Neural Networks” - *Duration 12 months (January 2006 – December 2006)*

MF Trasformatori

Removal of polychlorobiphenyls from dielectric oils by chemical and electrochemical methods - *Duration 12 months (December 2004 – December 2005)*

Itelcond

Study of electrodic surface state in aluminium electrolytic capacitors- (12/2004)

Bolton Manitoba

Aggressiveness of some home care commercial products on stainless steel surface - (06/05)

Sun Chemical Group

Potentiostatic polarization as a technique to control the polymeric coating quality on aluminium substrate - (09/2006)

COURSES TAUGHT

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

CV of Stefano Trasatti (continued)

Corso di Laurea in Scienze Biologiche e Molecolari :

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

Corso di Laurea Specialistica in Chimica Industriale e Gestionale

- *Course on* (some teaching): Corrosion and Metal Protection - (since 2003).
- Supervision of the Electrochemistry Laboratory (since 2003).
- Supervision of the Physical Chemistry Laboratory (since 2003).

Corso di Laurea triennale in Chimica Applicata e Ambientale

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

Doctorate School

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

REFEREES

Dr. Vinod Agarwala
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Università degli Studi di Ferrara
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Dr. Giovanna Gabetta
Eni Div. E&P
via Emilia 1
20097 San Donato Milanese, Milan, Italy
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CV of Alexandr Muradov (Nominated for re-election to the BoA)**Personal information**

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

Professional & Scientific Activities

Prof. Muradov has been working in the field of corrosion since 1976, when he received his Engineer's Diploma in Physical Chemistry. In 1979 he has defended the dissertation „Development and Research of a Composite Polymeric Coating for the Protection of Oil & Gas Producing Equipment“ and received his PhD degree. In 2002, having had defended his doctoral thesis „Bases of a Choice of a Design of Paint & Varnish and the Polymeric Coating with the Specific Anticorrosive Action and Planned service Life for the External Surfaces of Oil & Gas Pipelines“, he has received his Doctor's degree.

Prof. A.V. Muradov has published 2 monographs and over 50 articles in the field of corrosion protection. He is a member of National Organisation of Corrosion Engineers (NACE) since 2001.

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

Scientific Interests

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

CV of Rolf Gubner (Nominated for election to the BoA)

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email (work): rolf.gubner@kimab.com
email (home): rolf.gubner@tele2.se



Dr. Rolf Jürgen Gubner

Summary of Work Experience and skills

- ☐ Project management (ANSI 99 – 001 – 2000 (PMBOK), ISO 10005 Quality Plan, ISO 10006 Guidelines to Quality in Project Management, ISO 9004 For Projects Developing New Products), ISO 8402 Quality Management and Quality Assurance, Vocabulary
- ☐ Good manufacturing practice (GMP), QA/QC, and ISO 9000 / 9002.
- ☐ Good report writing skills (scientific publications, Prima-Vista Method), presentation skills (teaching and conferences) and proposal writing skills on EU and national level.
- ☐ Corrosion and corrosion protection assessment.
- ☐ Organic coatings, inspector of corrosion protective painting (NIFAB).
- ☐ Cathodic and anodic protection
- ☐ Good computing skills including electronics / instrument – computer communication; IT-security and Network management, MS-Office, Lotus Notes/Domino.
- ☐ Team leading, good communication skills.
- ☐ Good organisational and problem solving skills.
- ☐ Three years experience in nitric acid and fertiliser producing industry (Germany).
- ☐ Fluent in German, English and Swedish.

Employment History

January 2006 – now: Industrial Processes Department Manager, Business Area Corrosion, Corrosion and Metals Research Institute (KIMAB) AB, Sweden

August 2004 – December 2005: Department Manager “Corrosion and corrosion protection in liquids, soil and concrete”, Korrosionsinstitutet - Swedish Corrosion Institute (SCI).

- ☐ The Swedish Corrosion Institute merged with the Swedish Institute for Metals Research 2006-01-01. The restructured department is mostly working with Automotive Industry, Shipping, Offshore, Pulp&Paper and Chemical Industry.
- ☐ Responsible for the department’s economical, technical activities and its personal. Currently, the department has 10 researchers and its annual budget is ca. € 1.3 M, totalling 17 000 person-hours in ca 30 research projects and numerous consultancy activities.
- ☐ The role of a department manager at KIMAB is not only of administrative nature, it is expected that 70% of his time is devoted to own projects.

My own current projects include: microbiologically influenced degradation of ballast tank coatings in the marine and off-shore industry, localized corrosion initiation of stainless steels at submicron level; electrochemical properties of intermetallic inclusions in aluminum and magnesium alloys applying surface potential mapping using atomic force microscopy in scanning Kelvin probe mode,

CV of Rolf Gubner (continued)

Dec 1999 – August 2004: Research Scientist, Swedish Corrosion Institute

Responsibilities:

- ☐ Dec. 2003 – August 2004 responsible for coordination of research activities between the 4 different departments at Korrosionsinstitutet SCI AB.
- ☐ Since April 2002 responsible for the industrial committee “Corrosion of Metals in Liquids” at Swedish Corrosion Institute that coordinates research at the institute with industrial needs.
- ☐ Responsible for the localised scanning techniques laboratory. Techniques available are scanning vibrating electrode technique (SVET), localised electrochemical impedance spectroscopy (LEIS), scanning ion-selective electrode technique (SIET), atomic force microscopy (AFM, TM-Microscopes AutoProbe M5) equipped with scanning Kelvin probe capabilities (electromagnetic force, EFM), material analysis package (phase imaging, lateral force microscopy, etc.) The AFM-laboratory was build according to my specifications and is fully acclimatised. I was placed in charge of buying the AFM and add-ons.
- ☐ Providing expert expertise services to other scientists on localised techniques.
- ☐ Financial responsibility over own research projects.

Research Projects:

- ☐ Marine Corrosion: Comparison of ISO 20340 to NORSOK 511, 2003- now.
- ☐ SAFECOAT: EU-CRAFT project on alternative coating systems for ballast tank and repair, RTD performer. 2003-now
- ☐ Deputy project manager of the active industrial collaboration project “Surface Protection of Ships (VINNOVA grant: AIS 43), working with project manager Nils Martensson, Glisco AB and Klas Vikgren, Vikgren International AB. This project focused on corrosion protection and antifouling coatings in the marine transport industry, involving ship owners, coating industry, application specialists and research organisation (Oct. 2001 – Oct 2003).
- ☐ Dec. 1999 – 2002 placed in charge of the administrative project management of the thematic European network (Microbiologically Influenced Corrosion of Industrial Materials, BRRT-CT98-5084) composed of 23 partners, which involved periodic reporting to the European Commission, preparing of combined partner cost-statements and preparation of meetings.
- ☐ Investigation of the role of biofilms in copper corrosion in domestic water systems. Techniques applied where AFM and SVET (1999 – 2001).
- ☐ Application of atomic force microscopy on studying pitting initiation of stainless steels, joint research project with CEA-Saclay, France, 1999-2001: A project on AFM combined with Kelvin probe to find locations (e.g. sulphide and intermetallic inclusions) of pitting initiation and to correlate the locations to changes in the surface potentials.

Other activities:

- ☐ Organisation of two international workshops to be held in Stockholm March 2002: Scanning localised electrochemical techniques in corrosion science (March 07/08, 2002), ca. 37 participants attended) and the final workshop of the COST action 520: Biofouling and Materials (March 10-13, 2002), 67 delegates attended.
- ☐ Teaching at KTH Department of Biotechnology section on Biocorrosion (1.5 hours / year).

Nov. 1997 – Nov 1999: Research Fellow (post-doctoral), University of Portsmouth, UK

- ☐ In May 1998 Doctor of Philosophy was awarded.

CV of Rolf Gubner (continued)

- Investigation of the importance of exopolymers in bacterial attachment, biofilm development and corrosion of steel surfaces in a marine environment using state-of-the-art techniques of surface science in parallel with biochemical, microbiological, light and electron microscopy and analytical methods.
- I spent 6 weeks at the Image and Chemical Analysis Laboratory (ICAL) at the Montana State University, USA. I used Time of Flight Secondary Ion Mass Spectroscopy (ToF-SIMS) and X-ray Photoelectron Spectroscopy (XPS) to characterise exopolymeric substances and lipopolysaccharide on deposited on stainless steel and silicon surfaces.
- Atomic force microscopy (AFM) and scanning electron microscopy (SEM) were applied to visualise biofilm formation, conditioning layers and corrosion on the metal substratum.
- Supervision of five final year project students in applied environmental chemistry and science courses.
- I studied a part-time course for post-graduate certificate (PGCE) in teaching and learning in higher education. Colleagues describe me as confident and like my way of teaching. I believe in teamwork, and through my experiences a good method for teaching students is by involving them in the subject and adding some humour. I am dedicated to teach at my best, enthusiastic about research and would like to combine the both. I developed an IT-based long distance short-course on microbiologically influenced corrosion using the package Web-CT.
- Handled the finances of the research laboratory during the sabbatical year of Dr. Iwona Beech.
- Local co-ordination for the European thematic network: Microbiologically Influenced Corrosion of Industrial Materials and involved in the COST520 action (both European Union sponsored projects).

October 1994 – October 1997: Research Assistant and enrolled PhD-Student: University of Portsmouth

- I worked on a multinational European Coal and Steel Community (ECSC) - sponsored project with the title "Prevention of Accelerated Low-Water Corrosion on Steel Piling Structures due to Microbiologically-Influenced Corrosion Mechanisms (MIC)". This project was in co-operation with the three major steel piling producers in Europe. I represented the University of Portsmouth on the partner meetings.
- One part of my research was the development of a bioreactor system, which simulates tidal conditions in the laboratory under controlled conditions.
- Investigations of steel piling structures were performed all over Europe for which I developed the standard bacterial sampling and enumeration methods. I statistically analysed the collected data to find corrosion relevant parameters and calculated a preliminary accelerated low-water corrosion risk assessment model.
- My project involved travelling and close co-operation to different laboratories. I worked two weeks in Hamburg, one week in Stuttgart (both in Germany), one week at Corus Technical Research Centre in Rotherham and one month in La Plata (Argentina) using special equipment and techniques, which were not available in Portsmouth.

February 1993 - March 1993: Instructor, Nordmark Arzneimittel GmbH, Germany

- Planned, prepared and executed a four-week course on laboratory skills and practice for vocational trainees of the company.

CV of Rolf Gubner (continued)

Education and Training

- Currently doing a project management long distance course at the Royal Institute of Technology (KTH), total 20 p, divided in Project planning, Project control, Project analysis, Management and leadership.
- Computer Network and Communication, IT-Security I and II: long distance learning courses (total 15 points)
- Inspector for Corrosion Protection Painting, certificated by NIFAB.
- VINNVÄXT training course (1 week) "Dynamic Innovation systems" organised by VINNOVA (Swedish Agency for Innovation Systems).
- 20 points in Postgraduate Certificate in Teaching and Learning in Higher Education (PGCE HE), University of Portsmouth (40 points full course, not completed because of move to Sweden)
- Doctor of Philosophy: "Biofilms and accelerated low-water corrosion of carbon steel piling in tidal waters", University of Portsmouth.
- "Diplom-Ingenieur Chemieingenieurwesen", awarded in Germany. The degree is equivalent to an English BSc (honours) degree in Chemical Engineering and accepted in Sweden as Civilingenieur.
- Vocational Education in Germany: Governmental approved qualification as "Chemiefacharbeiter", which can be described as qualified worker to control chemical plants and processes.

Awards

International Scientist of the year 2003, International Biographical Centre, Cambridge, UK

Professional Memberships

- European Federation of Corrosion (EFC), since Dec. 2001 Chairman of the EFC Working Party on Microbial Corrosion.
- Project Management Institute (PMI)

Personal Information

~ Marital status:	Married
~ Nationality:	German
~ Date of Birth:	03. 04. 1969
~ Place of Birth:	Lüneburg, Germany
~ Transport:	Driving licence (A (125cc), B, C, E)

Publications

Journals / peer reviewed

- R. Gubner and I. B. Beech (1996): *The Advantages of Performing Microbial Corrosion Studies Using Continuous Culture Systems*, DECHEMA Monographs of the 10th International Biodeterioration and Biodegradation Symposium, Hamburg, 15 - 18. 09. 1996, pp 185-191
- B. Beech, V. Zinkevich, R. Tapper, R. Gubner, R. Avci (1996): *The Interaction of Expolymers Produced by Marine Sulphate Reducing Bacteria with Iron*, DECHEMA Monographs of the 10th

CV of Rolf Gubner (continued)

- International Biodeterioration and Biodegradation Symposium, Hamburg, 15 - 18. 09. 1996, pp 333-338
- R. Gubner and I. B. Beech (1996): *Field and Laboratory Studies of Marine Biocorrosion of Carbon Steel*, 2nd NACE Latin American Region Corrosion Congress, Rio de Janeiro, Brazil, 09 - 13. 09. 1996, Paper N° LA 96175
 - B. Beech, V. Zinkevich, R. Tapper and R. Gubner (1998): *The Direct Involvement of an Extracellular Complex Produced by a Marine Sulphate-Reducing Bacterium in Deterioration of Steel*, Geomicrobiology Journal, Vol. 15 No 2, pp 121-132
 - J. M. Moulin, E. Marsh, V. Chao, R. Karius, I. B. Beech, R. Gubner, A. Raharinaivo (1998): *Prevention of Accelerated Low-Water Corrosion due to Micro biologically Influenced Corrosion Mechanisms*, (1998) ECSC final draft report, ECSC agreement N° 721 0-KB/503, /825, /130, /826, /337
 - R. Gubner, S. Breakspear and I. B. Beech (1998): *The Effect of Iron and Dissolved Oxygen Level on the Biocorrosion of Piling Grade Carbon Steel*, Conference Proceedings of the 3rd Latin American Biodegradation and Biodeterioration Symposium, 27. - 30. 04. 1998, Florianopolis, Brazil.
 - B. Beech, V. Zinkevich, L. Hanjansit, R. Gubner and R. Avci: Modification of the passive layer on AISI 316 stainless steel in the presence of *Pseudomonas* biofilm, 1998, Latincorr'98, Paper No. S19-04, NACE International
 - R. Gubner and I. B. Beech: "Statistical Assessment of the Risk of the Accelerated Low-Water Corrosion in the Marine Environment" Paper number 318, CORROSION 99, April 25-30, 1999, San Antonio, TX
 - R. Gubner and I. B. Beech: "Statistical Assessment of the Risk of Biocorrosion in Tidal Waters" Paper number 184, CORROSION 99, April 25-30, 1999, San Antonio, TX
 - R. Gubner, V. Zinkevich, Likit Hanjansit and I. B. Beech: "The Effect of a Marine Biofilm on the Formation of Passive layers on Stainless Steels" Paper number 185, CORROSION 99, April 25-30, 1999, San Antonio, TX
 - I.B. Beech, V.Zinkevich, R.Tapper, R.Gubner, R.Avci (1999): Study of the interaction of sulphate-reducing bacteria exopolymers with iron using X-ray photoelectron spectroscopy and time-of-flight secondary ionisation mass spectrometry, Journal of Microbiological Methods, 36: 3-10
 - I.B. Beech, V. Zinkevich, L. Hanjansit, J. Smith and R. Gubner and R. Avci (2000) The Effect of *Pseudomonas* NCIMB 2021 Biofilm on AISI 316 Stainless Steel, Biofouling Biofouling 15: 3-12.
 - R. Gubner and I. B. Beech (2000): The Effect of Extracellular Polymeric Substances on the Attachment of *Pseudomonas* NCIMB 2021 to AISI 304 and 316 Stainless Steel, Biofouling 15: 25-36.
 - I B Beech, R Tapper, R Gubner (2000): Microscopy methods for studying biofilms. In: Biofilms: Recent advances for their study and Control. Evans (ed.), Harwood Academic Publishers, London, pp 51-70
 - B Beech; R. Gubner; V. Zinkevich; L. Hanjansit; R. Avci (2000) Characterisation of conditioning layers formed by exopolymeric substances of *Pseudomonas* NCIMB 2021 on surfaces of AISI 316 stainless steel, Biofouling, 16, no. 2/4, pp. 93-104

Poster presentations:

- R. Gubner and I. B. Beech: "Field and Laboratory Studies of Marine Biocorrosion of Carbon Steel", International Biodeterioration Conference, Landernau, France, 22 - 24. 05. 1996
- R. Gubner and I. B. Beech: "Field and Laboratory Studies of Marine Biocorrosion of Carbon Steel", 10th International Biodeterioration and Biodegradation Symposium, Hamburg, 15 - 18. 09. 1996

Oral presentations:

- R. Gubner and I. B. Beech: "The use of FTIR in Biocorrosion studies", 2nd International Marine Corrosion Forum, Malta, 24 - 25. 04. 1995
- R. Gubner and I. B. Beech: "Biofilms and Low-Water Corrosion of Carbon Steel Piling in Tidal Waters", Research seminar held at University of Portsmouth, 24. 02, 1997
- R. Gubner and I. B. Beech: "Biofilms and Biocorrosion on Steel Piling structures", 3rd International Marine Corrosion Forum, Edinburgh, Scotland, 28 - 30. 04. 1997
- R. Gubner and I. B. Beech: "Microbial Corrosion in Marine Environments", Marinetechn South Broad Meeting, 21st. 10. 1997, University of Portsmouth
- R. Gubner: " Bacteria, Slimes and Corrosion", 1997 Annual Conference and Exhibition, Institute of Corrosion, 28-30th. 10. 97, Gatwick, UK

CV of Rolf Gubner (continued)

- R. Gubner and I. B. Beech: "Statistical Assessment of ALWC Risk in Tidal Waters", Accelerated Low Water Corrosion – A Matter of National Importance, 12. 10. 98, Joint initiative of Thomas Telford Conferences and the Boards of the Institution of Civil Engineers, One Great George Street Conference Centre, London, UK
- R Gubner and I B Beech (1998). Statistical assessment of bio-corrosion risk in tidal waters. In: Accelerated Low Water Corrosion, The Thomas Telford Series Seminar. Institution of Civil Engineers Publications, pp. 13-17.
- R. Gubner and I. B. Beech: "The Use of a Customised Bioreactor to Study Biocorrosion of Sheet Steel Piling in Tidal Waters" 10th International Congress on Marine Corrosion and Fouling incorporating 2nd U.S./Pacific Rim Workshop on Emerging Non-Metallic Materials for the Marine Environment, The University of Melbourne, 7th to 12th February 1999, Melbourne, Australia
- R. Gubner and I. B. Beech: "The Effect of Extracellular Polymeric Substances on the Attachment of *Pseudomonas* NCIMB 2021 to AISI 304 and 316 Stainless Steel" 10th International Congress on Marine Corrosion and Fouling incorporating 2nd U.S./Pacific Rim Workshop on Emerging Non-Metallic Materials for the Marine Environment, The University of Melbourne, 7th to 12th February 1999, Melbourne, Australia
- I.B. Beech, V. Zinkevich, L. Hanjansit, J. Smith, R. Gubner & R. Avci: "The Effect of Marine *Pseudomonas* NCIMB 2021 Biofilm on AISI 316 Stainless Steel" 10th International Congress on Marine Corrosion and Fouling incorporating 2nd U.S./Pacific Rim Workshop on Emerging Non-Metallic Materials for the Marine Environment, The University of Melbourne, 7th to 12th February 1999, Melbourne, Australia
- R. Gubner "Atomic Force Microscopy in Microbiologically Influenced Corrosion Studies" BRITE EURAM Network Microbiologically Influenced Corrosion of Industrial Materials, Workshop held 17th/18th May 1999, Muehlheim, Germany
- R. Gubner and Iwona B. Beech: "Study of biofilm/metal interactions using state-of-the art techniques of surface science" COST520 Workshop, Sion, CH, 9th-12th June 1999
- R. Gubner, V. Zinkevich, L. Hanjansit, I. B. Beech and R. Avci: "The Role of Bacterial Exopolymers in Marine Fouling and Deterioration of Steel Surfaces" Marine Biofouling International Symposium, Plymouth, UK 7th-9th of July 1999.
- Amy Forsgren, Rolf Gubner and Carl Appelgren "Comparison of Chloride Levels Remaining on the Steel Surface After Various Pretreatments" Protective Coatings Europe PCE 2000: Looking forward to a new world of protective and coatings technology, 8-10.03.2000, Genoa, Italy
- Rolf Gubner and Dominique Thierry: "Influence of Biofilms on Pitting Corrosion of Copper Tubes in Fresh (Potable) Water", International Conference on Biofouling and Materials 10 - 13 June 2001 in Frankfurt am Main, Germany
- B. Beech, R. Gubner, V. Zinkevich, R. Tapper, R. Avci: "Exopolymers of Sulphate Reducing Bacteria and their Involvement in Corrosion of Mild Steel", Icorr/NACE Corrosion Odyssey 2001, Edinburgh, 18-20th September 2001, UK
- Rolf Gubner: "Scanning Probe Microscopy and Surface Potential Measurements" Presented on the workshop on localised electrochemical techniques in corrosion research, Swedish Corrosion Institute, Stockholm March 07/08, 2002
- Rolf Gubner: "Influence of biofilms on corrosion of copper tubes in fresh water" Final project report of the COST520, Final COST520 workshop, Swedish Corrosion Institute, Stockholm 10-13th March 2002.
- Rolf Gubner: "Application of Atomic Force Microscopy for Pitting Corrosion of Stainless Steels", VEECO Instruments Scanning Probe Microscopy Applications Conference and user Meeting, March 10-11, 2004, Copenhagen, Denmark
- Rolf Gubner, Dominique Thierry and Damien Féron: "The application of atomic force microscopy /scanning electrical potential microscopy to study passive films on stainless steels and the influence of microstructure on the initiation of localised corrosion" 13th Scandinavian Corrosion Congress, Reykjavik, Iceland, 17-20 April 2004
- Rolf Gubner and Malte Hermansson: "Surface Protection of Ships: corrosion in Ballast tanks" 13th Scandinavian Corrosion Congress, Reykjavik, Iceland, 17-20 April 2004

CV of Kastriot Bejtaj (Nominated for election to the STAC)

Kastriot Bejtaj

Home Address: Rruga “Bajram Curri”
Teknoprojekt 8, Shkalla 1, Ap. 8, Tirane
Tel: 04 257893(Home), Mob: 069 20 94 421
e-mail: k_bejtaj@yahoo.com, k.bejtaj@akbn.gov.al

Personal Information

Marital Status: Married
Nationality: Albanian
Age: 49
Place of Birth: Fier, Albania

Education

1978-1992 **Faculty of “Geology and Mines”, Tirana University, Tirana, Albania**
“Geophysicist Engineer” Degree

Professional experience

From Feb 2006 **National Agency of Natural Resources**
Petroleum License Directory
Specialist

2005 - Jan 2006 **Ministry of Economy**
General Directory of Economic Programming
Director

The main objectives of this General Directory -To Break down the national objectives into regional objectives, accompanied with selection of priority interventions for each region, their implementation cost and the re-orientation of the funding sources,-The harmonization of the sector and regional strategies and priorities with national priorities, through managing the activity of three co-acting and complementary directorates as Economic Co-operation Directorate, Public Investment Programming Directorate and Monitoring and Evaluation Directorate. Increasing the efficiency of foreign aid and investments in the public sector through the creation of mid-term public investments programs aiming at orienting the sources towards the development priorities and monitoring and evaluating their efficiency.

Mar 1999-Dec 2003 **“Albanian Petroleum Corporation”**
National Public Oil and Gas Corporation
General Director

Albanian Petroleum Corporation (APC) was in four years the holding company of the six public companies of albanian oil public sector. Performance 1999-2003: Composition of the “APC Group” companies, “Albpetrol”, “ARMO”, “Servcom”, “Transnafta”, “UMN” Kucove and “UMN” Patos. Overcomes the economic and financial crisis of the period 1995-1998 in oil public sector. Functionate and integrate in operational and financial aspects the group and preparing the entering in the phase of privatization process. “APC” fulfilled its mission on Dec 2003.

CV of Kastriot Bejtaj (Continued)

- Jan 1998 - Feb 1999 **Ministry of Public Economy and Privatization**
General Directory of Hydrocarbons
General Director
 Performance: Compose the hydrocarbon policy and supporting the hydrocarbon activity with legal frame. Main author of the: Study “Rebuilding of former Albpetrol company 1998”, the Law “On the processing, transportation and marketing of petroleum”
 Composition the main principles in supervision of activity in public oil sector.
 Composition of the main principles in privatization process of public oil sector.
- Dec 1997 - Apr 1995 **Albania Shell Exploration and Production B.V. Tirana, Albania**
Assistant to Operations Manager and HSE Advisor for drilling operations.
 Prepared Environment Impact Assessment Report, Environment Management Plan and Drilling Safety Case.
Operations Geophysicist
- Jan 1992 - Apr 1995 **Albseis Geophysical Enterprise, division of Albpetrol Fier, Albania**
Chief Engineer
 Responsible for all aspects of technical activity. 2500 employees in activity, 6 seismic crews, Research Sector, Electronic Processing Center etc.
 Managed all aspects of acquisition, processing, purchasing and planning for 2D seismic activity and gravity services of the Albpetrol program
- 1989 - 1992 **Oil and Gas Geological Institute Fier, Albania**
Exploration Division, Seismic Interpreter
 Interpretation of 2D seismic of Pre-Adriatic Depression, generated exploration and development well proposals in Durrs, Shkoze, Ballaj-Divjake (Pliocene) areas
- 1982-1989 **Albseis (Geophysical Enterprise, Division of Albpetrol) Fier, Albania, Seismic Crews**
Seismologist and Senior Seismologist
 Responsible for data acquisition of 2D land seismic in Albania area.

Training and Qualifications

Ministry of Economy

“Improving the External Assistance Management System in Albania” organized by the Consortium of East West Consulting, May 2005, Tirane

“Logical Frame Approach as a tool for Quality Control in Project Cycle Management applied to CARDS programme” organized by the Consortium of East West Consulting in the framework of the EU project “Improving the Integrated Planning System” September -October 2005, Tirane

“Preparation and Implementation of Local and Regional Strategies” June 2005

“International Exploration Economics, Risk and Contract Analysis” University of Dundee and Centre for Energy Petroleum, February 2005

“Certificate of Achievement” Power Sector Mangement Training Course sponsored by USAID, organized by Pierce Atwood. September 2003-February 2004, Tirane

CV of Kastriot Bejtaj (Continued)

Ministry of Public Economy and Privatisation

-“Project monitoring and evaluation” from Devepolment And Project Planning Centre, November 1998.

Training of The Top Managers of Energy sector (PHARE Programme)

Economic and Financial Evalutation of Energy Investment Projects (19984999, Prage , Budapest, Lobjane ,3 weeks)

-Completing the moduls ISO 9000 TQM,

TQM Seminar for TOP MANAGER and GOVERNMENTAL OFFICALS **January 1999**

ENI AGIP Itali “Development policy in public sector.
December 1998-January 1999

Shell Group Training

**Shell Noordwijkerhout Training Center, The Netherlands
1995-1997**

-**THESIS** Course (The Health, Environment, Safety Information System)
December 1996

-**V2FA** Course,(Managing operational, legal and financial aspects in the oil business)
June-1996

**Albania Shell Training
Tirane, Albania**

-Seismic acquisition management, using Olympus-1MS (**Information Management System**) and HSE Workshop for Line Managers by **Geco-Prallda, Hannover, Germany**
February 1996

-Safety Management and Safety Management Techniques Course by GRS an InteratTSA Joint Venture, Lufton, Forest Bank, Nutley, East Sussex, England TN223Nt
February 1996

Emergency Medical Treat□ ent, Course by Spencer Training Center
June 1995

**Albeptrol Training Center, Patos
Fier, Albania**

-Managing of Geophysical Operations
November 1992, Western Geophysical, London

“Plate Tectonic and Evaluation of the Sedimentary Basin”
by A.W. Bally
September 1991

-In house training for data acquisition and processing, including computer processing data, data management etc
1984-1989

Publications

-Presented paper at the first Albania Onshore Licensing Round organized by Albpetrol in association with Western Geophysical, on November 1992 in London and Houston (published in “Nafta dhe Gazi” Magazine 1993

CV of Kastriot Bejtaj (Continued)

-Several papers dedicated seismic data acquisition techniques and acquisitions parameter trails for different geological and surface conditions, policy in oil sector, published in “Nafta dhe Gazi” magazine during 1986-2004

-Papers dedicated Shell-Albania activity in Albania as seismic operating experience in difficult environments, in transition zones, shallow water and obstructed areas during 1995-1997.

-Papers dedicated oil public activity in Albania, governmental policy in management, restructuring and privatization process.

-“Connection of Albania with International Gas Network” (2000)

-“Main objectives on privatization of Albpetrol(Exploration&Production), ARMO(Albanian Refining&Marketing Oil) and Servcom (Service Corp)”(2002)

-“Proposal on restructuring of oil *refinery* in Ballshi and on infrastructure for importexport”(2002)

-“Main Directions for Environment Rehabilitation in Albanian Oil Fields” (2003)

Scientific Activity

The following are some of the synthesis where I have been the geophysicist and consequently the co-author.

Geological-Geophysical synthesis of Levan-Plake, 1985

Geological-Geophysical synthesis of Plashnik, 1985

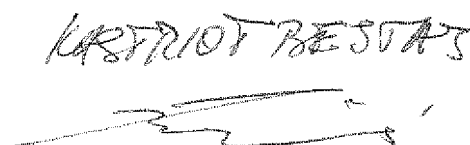
Geological-Geophysical synthesis of Ballaj-Kryevidh, 1987

Geological-Geophysical synthesis of Shkoze-Durres, 1988

Geological-Geophysical synthesis of Divjake-Ballaj, 1990

Languages:	English	written	spoken
	Italian		

Kastriot Bejtaj



CV of Jörg Vogelsang (Nominated for election to the STAC)

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
May 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”
1998	Election as Chairman of the Working Party “Coatings” of the European Federation of Corrosion (EFC)

CV of Jörg Vogelsang (Continued)

- 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"

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

Hobbies

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

CV of Judit Telegdi (Nominated for re-election to the STAC)

Name: Judit Telegdi
Date and place of birth: January 27.1947. Kispest
Nationality: Hungarian
Profession: senior scientific researcher
Name and address of workplace: Hungarian Academy of Sciences
 Chemical Research Center
 Institute of Surface Chemistry and catalysis
 1025 Budapest, Pusztaszeri út 59/67
Phone: +36 1 4384141
Fax: +36 1 3257509, +36 1 325 7554
e-mail: telegdi@cric.chemres.hu
Languages: English, German, and Russian

Education (degrees, dates, institutions)

MSc. In chemistry, enzyme isolation and identification; 1970, "Eötvös Loránd"
 University, Faculty of Natural Sciences, Dept. of Chemistry
 Ph.D., 1978, "Eötvös Loránd" University, Faculty of Natural Science,
 Dept. of Chemistry
 candidate of chemical sciences, 1992, Hungarian Academy of Sciences

Specialization

organic chemistry, enzyme kinetic, mechanism of corrosion and its inhibition, microbially influenced corrosion, effect of biocides, nano-layers of amphiphil molecules, scanning probe microscopy

Current research interest: inhibition of corrosion and scale formation, correlation between the chemical structure and efficiency of inhibitors/biocides; study of interphase phenomena, microbially induced corrosion, interaction between biocides and microbial cell surfaces studied by atomic force microscopy and quartz crystal nanobalance, self assembled and Langmuir-Blodgett layers

Work experience: Since 1970 I have been working at the Chemical Research Center, Hungarian Academy of Sciences, Budapest
 Study of enzyme kinetics, research of the inhibition of corrosion, scale formation and the microbially influenced corrosion; study of correlation between the chemical structure of molecules (as inhibitors or biocides) and their activity.
 Instruments used regularly: atomic force microscope, Langmuir-Blodgett film balance, and quartz crystal nanobalance

International collaborations:

Hung. Acad. Sci. -CNRS:

Université Rouen, France, 1974-1995
 (conformation of polyelectrolytes, enzyme sensors)
 Université Paris, Laboratoire de Physico-Chimie des Surfaces,
 1998-2001

Bilateral cooperations in science and technology (TéT):

German-Hungarian TéT

1997-2003 (Influence of biocides on the adhesion of bacteria)

CV of Judit Telegdi (Continued)***Malaysian-Hungarian Tét***

1998-2003 (Development of new corrosion inhibitors for the oil and gas industry)

Korean-Hungarian Tét (project leader)

1999-2002 (Self assembled and Langmuir-Blodgett layers for surface modification)

Portuguese-Hungarian Tét (project leader)

2004-2005 (Microbial corrosion of different metals – Inhibition of the processes and economical considerations)

Croatian-Hungarian Tét (project leader)

2005-2007 (New corrosion inhibitors for copper can we reduce the environmental impact?)

Hungarian –German Exchange program (Hungarian Scholarship Committee- Deutscher Akademischer Austauschdienst) (project leader)

2005-2006 (Adhesion of natural polymers and their artificial analogues on metals and metal sulfides)

Participation in EU projects:**Marie Curie Research Training Network**

2005-2007 (Chiral expression and Transfer at the Nanoscale) (témavezető)

COST Research-Technological projects:

COST 511 “Interactions of Microbial Systems with Technical Materials” 1992-1996
(résztvevő)

COST 520 “Biofouling and Materials” 1998-2001. (project leader)

COST E11 “Characterization Methods for Fibres and Paper” 1998-2001.
(project leader)

COST D19 “Stereochemical effects on self-assembly and switching at the nanometer scale” 2002-2004 (participant)

COST E32 “Characterization of paper surfaces for improved printing paper grades” 2004-2006. (project leader)

COST D33 “Nanoscale Electrochemical and Bio-processes (Corrosion) at Solid-aqueous Interfaces of Industrial Materials” (project leader)

Number of publications: 111

Citation on my papers (without selfcitation): 256

Associacion membership in: Hungarian Chemical Society
Hungarian Corrosion Society
International Society of Electrochemistry
European Federation of Corrosion

CV of Judit Telegdi (Continued)

Selected publications:

1. **J. Telegdi**, A. Shaban, E. Kálmán
EQCM study of copper and iron corrosion inhibition in presence of organic inhibitors and biocides
Electrochimica Acta, **45**, 3639-3647 (2000)
2. **J. Telegdi**, M.M.Shaglouf, A. Shaban, F.H. Kármán, I. Bertóti, M. Mohai, E. Kálmán
Influence of cations on the corrosion inhibition efficiency of aminophosphonic acid
Electrochimica Acta, **46**, 3791-3799 (2001)
3. Zs. Keresztes, T. Rigó, **J. Telegdi**, E. Kálmán
Investigation of biopolymer networks by means of AFM
Applied Physics, **A 72**, S113-S116 (2001)
4. Felhősi I, **Telegdi J**, Pálinkás G, et al.
Kinetics of self-assembled layer formation on iron
Electrochimica Acta **47**(13-14) 2335-2340 (2002)
5. Pradier CM, Karman F, **Telegdi J**, et al.
Adsorption of bovine serum albumin on chromium and molybdenum surfaces investigated by Fourier-transform infrared reflection-absorption spectroscopy (FT-IRRAS) and X-ray photoelectron spectroscopy
J PHYS CHEM B **107** (28): 6766-6773 JUL 17 2003
6. H. Otmačić, **J. Telegdi**, E. Stupnišek-Lisac
Protective properties of an inhibitor layer formed on copper in neutral chloride solution
J. Applied Electrochemistry **34** (5): 545-550(2004)
7. **J. Telegdi**, T. Rigó, E. Kálmán
Nanolayer barriers for inhibition of copper
Corrosion Engineering and Technology **39** 65-70 (2004)
8. **Telegdi**, T. Rigó, J. Beczner, E. Kálmán
Influence of Langmuir-Blodgett nanolayers on microbial adhesion
Surface Engineering **21** (2)107-112 (2005)
9. **J. Telegdi**, T. Rigó, E. Kálmán
Molecular layers of hydroxamic acids in copper corrosion inhibition
J. Electroanal. Chemistry **582** 191-201 (2005)
10. T. Rigó, A. Mikó, **J. Telegdi**, M. Lakatos-Varsányi, A. Shaban, E. Kálmán
Inhibition effect of hydroxamic- and phosphonic acids Langmuir-Blodgett films on iron corrosion in sodium perchlorate solution
Electrochemical and Solid State Letters **8** (10): B51-B54 (2005)

CV of Judit Telegdi (Continued)

11. Gumpel P, Arlt N, **Telegdi J**, et al.
Microbiological influence on the electro-chemical potential of stainless steel
Materials and Corrosion –Werkstoffe und Korrosion 57 (9): 715-723 2006
12. F. Al-Taher, **J. Telegdi**, Erika Kálmán
Effect of divalent cations in Langmuir-Blodgett films on the protection of copper against corrosion
Materials Science Forum **537-538**, 9-14 (2007)
13. **J. Telegdi**, H. Otmačić, K. Tadic, F. Al-Taher, E. Stupnišek-Lisac, E. Kálmán
Inhibition of copper corrosion by self assembled amphiphiles
Chemical and Biochemical Engineering Quarterly **21**, 77-82 (2007)

Budapest, 10. 06. 2007.

CV of Amir Eliezer (Nominated for election to the STAC)

• Personal Details

Name: Amir Eliezer
 Date and place of birth: 18.09.70, Haifa, Israel
 Work Address: Sami Shamoon College of Engineering,
 Bialik-Bazel St.,
 P.O.B. 950
 Beer-Sheva, Israel
 Phone: 972-8-6475671.
 Mobile: 052-2701285
 Fax: 972-8-6475672
 Home Address: Helmonit 7 Omer, 84965.
 Phone: 08-6909988

• Education

B.Sc. -	1992-1995	Ben-Gurion University of the Negev Department of Materials Engineering Magna cum laude
M.Sc. -	1996-1997	Ben-Gurion University of the Negev Department of Materials Engineering
Title of thesis:		<u>"Mechanochemical Behavior, Corrosion Fatigue and Plasticity of Magnesium Alloys"</u> Summa Cum Laude
M.B.A.	1998-2001	<u>Ben-Gurion University of the Negev</u> <u>School of Management</u> <u>Ben-Gurion University of the Negev</u>
Ph.D.	1998-2002	Ben-Gurion University of the Negev Department of Materials Engineering
Title of thesis:		<u>"Mechanical Behavior of Mg-Alloys in Corrosive Environments under Static and Dynamic Loading"</u> Summa cum laude
Post. Doc.	2002-2003	Ben-Gurion University of the Negev Department of Materials Engineering

• Employment History

2004- Present Director of the Corrosion Research Center, Sami Shamoon College of Engineering.
 Senior Lecturer Dept. Of Civil Engineering, Sami Shamoon College of Engineering.
 2003-2004 Lecturer Dept. Of Civil Engineering, Sami Shamoon College of Engineering.
 2000-2002 Instructor, Ben-Gurion University of the Negev, Department of Materials Engineering
 1998-2000 Senior Assistant, Ben-Gurion University of the Negev, Department of Materials
 Engineering
 1995-1997 Assistant, Ben-Gurion University of the Negev, Department of Materials Engineering
 1993-1994 Adir Ltd Telecommunications technician

CV of Amir Eliezer (Continued)

• Professional Activities

2004- Present Director of the Corrosion Research Center, Nano-Bio & Advanced Materials
Sami Shamoon College of Engineering.

President of CAMPI, a full EFC Member Society

Faculty Advisor of the Israeli Negev Student Section of NACE International

Referee for several scientific journals

• Membership of professional/scientific societies

1995-2002 Minerals, Metals and Materials Society (TMS). International Society

2006-present Minerals, Metals and Materials Society (TMS). International Society

2003-present International Electrochemical Society

2004-present NACE International Corrosion Society

2004-present CAMPI Society

• Educational activities

(a) Courses taught

Under Graduate Courses at Ben Gurion University:

Fundamental Materials Engineering 1& 2

Polymers

Composite Materials

Viscoelastic Properties of Materials.

Under Graduate Courses at Shamoon College of Engineering:

Fundamental Materials Engineering

Materials Engineering for Electronics, Chemistry, Civil and Industrial Engineering

(b) Research students

Undergraduate students at Ben Gurion University

1996-1997 Supervisor of 2 students for their Engineering projects

1997-1998 Supervisor of 3 students for their Engineering projects

1999-2000 Supervisor of 5 students for their Engineering projects

2000-2001 Supervisor of 6 students for their Engineering projects

2001-2002 Supervisor of 11 students for their Engineering projects

2002- 2003 Supervisor of 11 students for their Engineering projects

2003-2004 Supervisor of 7 students for their Engineering projects

2004-2005 Supervisor of 8 students for their Engineering projects

2005-2006 Supervisor of 7 students for their Engineering projects

2006-2007 Supervisor of 7 students for their Engineering projects

CV of Amir Eliezer (Continued)

Undergraduate Courses at Shamoon College of Engineering

_____ 2004-2005 Supervisor of 1 student¹ for his Engineering projects

_____ 2005-2006 Supervisor of 9 students for their Engineering projects

_____ 2006-2007 Supervisor of 12 students for their Engineering projects

Graduate students:

_____ 2005-on 3 PhD and 1 MSc

• Awards, Citations, Honours, Fellowships

(a) Honours, Citation Awards

2000-2002 Daniel Falkner Foundation, England

• Other Activities (Voluntary):

2003-on City Council Member
 City board of directors,
 Sport Association-Director
 Municipality Chair of Education, Environment, Transportation
 Member of Financial and 5 other committees

• Scientific Publications

(a) Conference proceedings

A total of 77 presentations to date.

(b) Refereed articles in scientific journals

A total of 24 publications to date, including:

1. P.L. Bonora, M. Andrei, A. Eliezer, E. M. Gutman: Mechanochemical Effect on Mg-Alloys by Impedance Measurements. *Journal of Materials Science Letters*, 20, no. 14 (2000) pp. 1349-1351.
2. E. M. Gutman, Ya. Unigovski, A. Eliezer, E. Abramov: Corrosion Creep of Magnesium Based Alloys. *Journal of Materials Science Letters*, 20(2001) 1541-1543.
3. E. M. Gutman, Ya. Unigovski, A. Eliezer, E. Abramov, E. Aghion: Processing Effects on Mechanical Properties of Die-Cast Magnesium Alloys. *Materials Technology*, 16(2)(2001) 126-132 .
4. P.L. Bonora, M. Andrei, A. Eliezer, E. M. Gutman: Corrosion Behaviour of Stressed Magnesium Alloys. *Corrosion Science*, 44 (2002) 729-749.
5. A. Eliezer, E. M. Gutman, E. Abramov, Ya. Unigovski: Corrosion fatigue of die-cast and extruded magnesium alloys, *Journal of Light Metals*, Vol. 1, Issue 3, Aug. 2001, 179-186.
6. P.L. Bonora, M. Andrei, A. Eliezer, E. M. Gutman: DC and AC polarisation study on Magnesium alloys; Influence of the mechanical deformation. *Materials and Corrosion*, 53, no. 7 (2002) 462-470

CV of Amir Eliezer (Continued)

7. A. Eliezer, E. M. Gutman, E. Abramov, Ya. Unigovski, Y. Snir: Corrosion Fatigue of Die-Cast and Extruded Magnesium Alloys. *Material Sci. and Eng. A* 360 Issues 1-2, 15 November 2003, Pages 132-139
8. M. Andrei, A. Eliezer, Fosca DI-Gabriela P.L. Bonora, E. M. Gutman: Comparison between Mechanochemical effect on die cast and extruded Magnesium alloys. *Materials Science and Technology* . Vol. 20, January 2004, Pages 29-34.
9. R.M. Wang, A. Eliezer, E. M. Gutman: Microstructures and dislocations in the stressed AZ91D magnesium alloys. *Materials Science and Engineering A* 344(2002) 279-287
10. Z. Koren, H. Rosenson, E. M. Gutman, Ya. Unigovski, , A. Eliezer: Development of Semisolid Casting For AZ91 and AM50 Magnesium Alloys. *Journal of light metals* 2(2002) 81-87
11. Gutman E. M, Eliezer A, Unigovski Ya, Abramov E : Corrosion Fatigue of Magnesium Alloys, *Materials Science Forum*, Vols. 419-422(2003) pp.115-120.
12. R.M. Wang, A. Eliezer, E. M. Gutman, An investigation on the microstructure of an AM50 magnesium alloy, . *Materials Science and Engineering A* 355 (2003) 201-207
13. A. Eliezer, Ya. Unigovski, E. M. Gutman, J. Haddad : Static and Dynamic Corrosion Fatigue of Mg Alloys Used in Automotive Industry ,*Journal of Materials and Manufacturing Process*, Volume 20,1 (2005) pp75-88.
14. Ya. Unigovski, Z. Keren, A. Eliezer, E. M. Gutman: Creep Behavior of Pure Magnesium and Mg-Al alloys in Active Environments, *Materials Science and Engineering A* 398(2005) 188-197.
15. Ya. Unigovski, L. Riber , A. Eliezer, E. M. Gutman: Environment-Assisted Stress Relaxation in Pure Magnesium and MG Alloys, *Journal of Materials Science*, (Submitted April, 2004)
16. G. Ben-Hamu A. Eliezer, E. M. Gutman : Electrochemical Behaviour of Magnesium Alloys Strained in Aqueous Solutions, *Journal Corrosion Engineering Science and Technology*, Vol 41 No.1 (2006) 82-86
17. G. Ben-Hamu A. Eliezer, J.Haddad : "Mechanoelectrochemical Behavior of Magnesium Alloys", *Materials Science and Engineering A* 420,1-2 (2006),109-114,
18. G. Ben-Hamu, A. Eliezer, E. M. Gutman," Electrochemical Behavior of Magnesium Alloys Strained in Buffer Solutions", *Electrochimica Acta*, 52, 1, (2006), 304-313.

(c) Chapter in a book

1. Magnesium Alloys Science, Technology and Applications, Published by The Israeli Consortium for the Development of Magnesium Technology, S. Neaman Inst. Technion city Haifa Israel. Pp. 122-136.

CV of Lorenzo Fedrizzi (Nominated for re-election to the STAC)

Graduated in Chemical Engineering at the University of Padua in 1981.

Chairman of the Working Party “Coatings” of the European Federation of Corrosion since 2001.

Member of the Editorial Board of Progress in Organic Coatings.

Member of the Editorial Board of Corrosion Engineering Science and Technology.

Full Professor of Material Science and Technology at the University of Udine from 2003.

From 1998 to 2003 Associate Professor of Material Science and Technology at the University of Rome “La Sapienza” teaching “Corrosion and corrosion protection” in the Faculty of Engineering.

From 1983 to 1988 researcher at the Institute for the Scientific and Technological Research (IRST) in Trento studying Physical Vapour Deposition and Ion Implantation processes.

From 1989 to 1997 researcher at the University of Trento, Faculty of Engineering.

Main scientific interests are corrosion protection by coatings (organic, metallic and ceramic), study of tribo-corrosion mechanisms, corrosion behaviour of sintered metal parts. More than 300 papers published on international journals and conference proceedings on these topics.

Referee of many International Journal: Corrosion Science, Electrochimica Acta, Progress in Organic Coatings, Surface and Coatings Technology, Journal of Material Science, Material Science Forum, Material Science and Engineering, Journal of the Electrochemical Society.

Visiting Professor at the Université AIX-MARSEILLE I in 1989/90 and 1997/98 and member of the PhD jury in the same University and in the University of Delft.

Scientific responsible of Research Units in many European research project such us:

- “The replacement of hard chromium coatings for mechanical components through high pressure nano structure powder HVOF coatings” financed by the European Community in the 5° Framework Program
- “Advanced environmentally friendly multifunctional corrosion protection by nanotechnology” financed by the European Community in the 6° Framework Program
- “Study of organic and inorganic protecting coatings for reinforced concrete” part of the COST 521 “Corrosion of steel in reinforced structures”.

Scientific responsible of many projects of relevant national interest such us:

- “Wear and corrosion resistant coatings” PRIN 1999
- “Sintered duplex stainless steels” PRIN 2000
- “Development of new environmentally friendly protective systems for light alloys durability” PRIN 2003.

CV of Lorenzo Fedrizzi (Continued)

Member of the International Scientific Committee EUROCORR Conferences and of the Workshop “Application of Electrochemical Techniques to Organic Coatings”.

Member of the Organising committee of the Conferences “Electrochemical Methods in Corrosion Research (EMCR)” held in Trento 25 - 29 Agosto 1997 and “Electrochemical Impedance Spectroscopy (EIS)” held in Marilleva (TN) 17-22 Giugno 2001.

Member of NACE.

Extensive work on design, construction, maintenance, failure analysis. For such Companies as, e.g.: AGIP, Akzo Nobel, Lowara, Magneti Marelli, Pirelli, AutoBrennero, Whirlpool, Acciaierie Pittino, EMU GROUP, Chemetall Italia, Montefluos, Metal Sinter GKN, Riva Calzoni, Ceccato.

BYE-LAWS OF THE EUROPEAN FEDERATION OF CORROSION (EFC)

Proposed Revision 2007

1 THE OBJECTIVE OF THE EFC AND INTENTION OF THE BYE-LAWS

1.1 The Objective of the EFC, given in Article 3 of the Statutes, is as follows:

"The purpose of the EFC, registered as a non-profit organisation, is primarily to contribute to the general advancement of the science of corrosion and of the protection of materials by promoting cooperation in Europe between scientific and technical societies and organisations devoted significantly to those areas of activity and by collaborating with similar associations throughout the world."

1.2 The Bye-Laws are intended to provide EFC with working rules which conform to the letter and spirit of the Statutes which are lodged in Belgium (decree of 4 July 1983 and modified in November 1994, September 2002 and September 2006).

2 WORKING PRINCIPLES OF THE EFC

The work of the EFC is based on collaboration between its Member Societies as described in Articles 5.1 and 6.1 of the Statutes (and quoted in para. 4 below). Nothing done by or in the name of the EFC shall detract from the autonomy of any Member Society. Thus, all the technical and scientific activities of the EFC are carried out by, or in close cooperation with, the Member Societies or their representatives.

As a general rule, all matters of a financial, constitutional or legal nature are considered by a Board of Administrators (para. 10); all matters of a scientific and technical nature are considered by a Science and Technology Advisory Committee (para. 11), with both bodies being responsible to a General Assembly (para. 9) composed of delegates from Member Societies.

A President, Vice-President and Treasurer (Article 12 of the Statutes) are elected by the General Assembly on a proposal from the Board of Administrators (see para. 10.2).

3 WORKING METHODS OF THE EFC

The EFC seeks to achieve its objective by any or all of the following means:

- 3.1 providing opportunities for the exchange of views on corrosion and corrosion control;
- 3.2 providing sources of information and education on corrosion and corrosion control;
- 3.3 promoting the documentation of information and its access on corrosion and corrosion control;
- 3.4 providing, when appropriate, assistance to Member Societies;
- 3.5 cooperating with other appropriate organisations or institutions, within or outside Europe;
- 3.6 establishing Working Parties (para. 12) and, as necessary, Task Forces (para. 13) to survey and report on specific areas of corrosion science and technology;
- 3.7 encouraging meetings for the discussion of the science and technology of corrosion; normally, meetings of this type will be organised by the national Member Society or Societies: meetings may also be organised on specific topics by an appropriate Working Party, often with the encouragement and support of industry, and in such cases the national society or societies should be informed to ensure that there is no clash of interests;

EFC Bye-Laws: Proposed Revision 2007

- 3.8 preparing a Calendar of Events which lists all corrosion-related events together with meetings organised by, or supported by, Member Societies that will attract an EFC event number (see para. 19);
- 3.9 preparing a Newsletter to disseminate information about work in the fields of corrosion and corrosion prevention and the activities of Member Societies and of the EFC generally;
- 3.10 encouraging Member Societies to issue invitations to members of other EFC Member Societies to attend functions and meetings held by them on favourable terms;
- 3.11 entering into cooperation agreements with other like-minded bodies (e.g. CCATA, NACE, etc.);
- 3.12 participating in worldwide corrosion organisations (e.g. WCO).

4 FULL MEMBERS' RIGHTS

Members are defined in Articles 5.1 and 6.1 of the Statutes as follows:

Members (European)

Article 5.1. European¹ scientific and technical societies and organisations located within Europe who are in pursuance of the advancement, best practice and education of the science and technology of corrosion and its control for the socio-economic benefit of mankind and the well being of the environment. These societies and organisations must be in full compliance with the objectives of **Article 3** of these statutes and must be non-profit organisations.

Members (International)²

Article 6.1. Subject to the recommendation of three European Members in good standing, scientific and technical societies and organisations located outside of Europe³ who are in pursuance of the advancement, best practice and education of the science and technology of corrosion and its control for the socio-economic benefit of mankind and the well being of the environment. These societies and organisations must be in full compliance with the objectives of **Article 3** of these statutes and must be non-profit organisations.

Members are entitled to:

- 4.1 be represented in the General Assembly (see para. 9);
- 4.2 receive agenda, working papers and minutes of meetings of the General Assembly;
- 4.3 propose candidates to the Board of Administrators (para. 10) and the Science and Technology Advisory Committee (para. 11) and appoint delegates to EFC Working Parties (para. 12);
- 4.4 have the benefit of the participation of their individual members in EFC Working Parties as a matter of right;
- 4.5 provide the Secretariat of a Working Party;
- 4.6 volunteer to host a EUROCORR event (para. 16) but noting that this event must be held in a European country;

¹ Here European means belonging to one of the full member states of the Council of Europe

² In the context of these bye-laws, 'International' means 'non-European'

³ Scientific and technical societies and organisations located in a country that is not a full member state of the Council of Europe

EFC Bye-Laws: Proposed Revision 2007

- 4.7 propose the formation of an EFC Working Party (para. 12);
 - 4.8 register meetings as EFC events;
 - 4.9 receive current information via the EFC Newsletter, ten copies of which will be provided free of charge;
 - 4.10 propose nominees for medals awarded by, or in conjunction with, the EFC.
- N.B. The rights, as defined in 4.1 - 4.10, of MEMBER SOCIETIES, are maintained for so long as the Member Society is not in arrears in payment of its subscription for more than twelve months from the date of issue of the invoice by the EFC Treasurer (see para. 8.4).

5 MEMBERS' DUTIES

The duties of Members are:

- 5.1 to be represented in the General Assembly;
- 5.2 to inform the Paris Secretariat of the EFC of the intention, or otherwise, to be represented at the General Assembly with, if possible, the name of the delegate;
- 5.3 to nominate delegates to EFC Working Parties;
- 5.4 to ensure that their individual members are aware of the activities of the EFC including the opportunities for membership of Working Parties without further payment;
- 5.5 to make nominations for places on the EFC Board of Administrators and the Science and Technology Advisory Committee;
- 5.6 to inform EFC, through the Scientific Secretary, of activities such as symposia, special meetings, etc., in their countries, that would be of importance to other Member Societies;
- 5.7 to ensure, wherever possible, that delegates to EFC committees, working parties, etc., receive financial support, in whole or in part, for attendance at these committees;
- 5.8 to pay to the EFC (London Office (see para. 10.1)) on receipt of the invoice from the EFC Treasurer an annual membership subscription as agreed by the General Assembly (see para. 12.1 and, for non-payment, para. 12.4).

6 SECRETARIATS

6.1 General Secretariat

The administration of EFC is carried out by a General Secretariat consisting of three Offices at the following organisations:

DECHEMA e.V., (Gesellschaft für Chemische Technik und Biotechnologie e.V.), Frankfurt am Main, GERMANY (referred to as the Frankfurt Office);

The Institute of Materials, Minerals and Mining, London, UK (referred to as the London Office);

FFC/CEFRACOR, Paris, FRANCE (referred to as the Paris Office).

EFC Bye-Laws: Proposed Revision 2007

Administrative tasks are undertaken by these Offices as follows:

Membership of the EFC and maintenance of membership records of the Board of Administrators, Science and Technology Advisory Committee, and Working Parties, and notification of elections and appointments to these.....the Frankfurt Office;

EFC Congress Secretariat.....the Frankfurt Office;

EFC Awards and arrangements for meetings of the General Assembly and the Board of Administrators (not for the Science and Technology Advisory Committee - see Clause 14).....the Paris Office;

Finance and publicationsthe London Office

6.2 Registered Office

The Belgian Office, mentioned in the Statutes, has responsibility for maintaining liaison between EFC and the Belgian Administration.

There is provision to change the Secretariats, if need be. This will require the approval of the General Assembly.

7 LANGUAGES

The official languages of the EFC shall be the languages of the Offices of the General Secretariat.

8 FINANCE

8.1 Subscriptions

In accordance with Article 10 of the Statutes, "The amount of the annual subscription for Member Societies is adopted by the General Assembly on the proposal of the Board of Administrators".

Invoices for annual subscriptions will be issued to the Member Societies by the Treasurer of the EFC in April each year and should be paid on receipt.

8.2 Budget

A budget will be prepared by the Board of Administrators and submitted to the General Assembly for approval. This budget will be implemented from January 1st of the year following the approval of the General Assembly. The budget will be included in the working papers for the General Assembly meeting and circulated to the Members prior to the meeting.

8.3 Balance Sheet

A balance sheet prepared by the Finance Officer of The Institute of Materials, Minerals and Mining and the EFC Treasurer will be submitted to the Board of Administrators and the General Assembly.

8.4 Non-Payment of Subscriptions

A Member Society shall be deemed to have left the EFC when the annual subscription is in arrears of more than twelve months from the date of issue of the invoice. However, an enquiry will

EFC Bye-Laws: Proposed Revision 2007

normally be made to the Member Society by the Frankfurt Office - as responsible for membership matters - before action is taken to exclude a Member Society.

A Member Society whose membership has lapsed through non-payment of its subscriptions may rejoin the EFC **on approval of the Board of Administrators**.

8.5 Special Funds

The **Board of Administrators** may authorise the **acquisition** of funds to carry out special tasks that fall within the remit of the EFC.

8.6 Financial Contributions

The EFC and/or its Working Parties may accept financial contributions from other bodies, including industry, for general support. Such contributions will be recognised in the annual balance sheet. Where contributions are made for specific activities, for example, for a Working Party task or meeting, the publicity or report of this activity shall be described as being of EFC origin with acknowledgement of the contribution from the other party.

8.7 Honorary Service

All members of the General Assembly, the Board of Administrators, and the Science and Technology Advisory Committee, serve in an entirely honorary capacity. The President and the Treasurer of the EFC serve in an honorary capacity, but are entitled to claim travel and subsistence funds for tasks entrusted to them by the General Assembly.

Members of the Board of Administrators and the Chairman of STAC may, in exceptional circumstances (for example, where there are no funds available from a Member Society or employer), apply to the EFC Treasurer for some financial assistance towards the costs of attending a Board meeting.

9 GENERAL ASSEMBLY

The General Assembly considers the present and future activities of the EFC, provides policy guidance to the Board of Administrators and the General Secretariat, approves the budget for the forthcoming year, and takes decisions on important matters affecting the role of the EFC.

9.1 Composition of the General Assembly

Two groups of people are entitled to attend meetings of the General Assembly, as follows:

- 1 Representatives of Member Societies: the representatives shall preferably be specialists in the field of corrosion. Only one nominated member of each Member Society is entitled to vote;
- 2 Members of the Board of Administrators, the Science and Technology Advisory Committee, Working Parties **and Honorary Members of the EFC** may attend the General Assembly but without voting rights except when present as a nominated representative as described in 1 above.

The Chairman of the General Assembly will be the President of the EFC (**see Article 19 of the Statutes**).

EFC Bye-Laws: Proposed Revision 2007

9.2 Duties of the General Assembly

The duties of The General Assembly are to:

- 1 take decisions on all matters of principle concerning the work of the EFC;
- 2 consider the long-term development of corrosion research and corrosion control and suggest fields of work to which particular attention should be directed;
- 3 appoint the members of the Board of Administrators following the results of a call for nominations made to the Member Societies (see para. 10.1);
- 4 appoint the members of the Science and Technology Advisory Committee following the results of a call for nominations made to the Member Societies (see para. 11.1);
- 5 approve the appointments, if the nominations are considered to be appropriate, of the following officers of the EFC as put forward by the Board of Administrators:

the President;
 the Vice-President;
 the Treasurer;
 the Scientific Secretary;
- 6 receive and approve reports from the Board of Administrators and the Science and Technology Advisory Committee on their activities and decisions;
- 7 approve the time, place and scope of EUROCORR events as recommended by the Board of Administrators on the basis of offers made by Member Societies following a call for proposals;
- 8 approve, on the recommendation of the Board of Administrators, the level of subscriptions of Member Societies;
- 9 approve a budget for income and expenditure for the calendar year following the year in which the General Assembly is held;
- 10 decide on applications for new Members;
- 11 decide on modifications to the Statutes and Bye-Laws of the EFC as and when required.

9.3 Working Procedures of the General Assembly

- 1 The General Assembly shall meet on the occasion of an EFC event, and preferably at EUROCORR (see para. 16).
- 2 If the same representative is appointed by more than one Member Society that representative may exercise each Society's vote on its behalf: the number of votes that the representative may cast is limited to three.
- 3 Proxy voting on behalf of any Member Society is acceptable on the basis of a written authority from the Member Society concerned which must be given to the President before the start of the General Assembly meeting.
- 4 Voting, when necessary, will be by a show of hands unless the representative of a Member Society requests a secret ballot, in which case it will be held; two scrutineers selected from non-voting delegates should be appointed with the approval of the voting delegates; (matters

on which a vote could be requested will normally be emphasised in the working papers for the General Assembly meeting so that Member Societies can instruct their voting representative in advance).

- 5 The minutes of the General Assembly meeting will be taken by a member of one of the three Offices of the General Secretariat and will record the discussions leading to recommendations and decisions reached at the meeting; the minutes will be presented in the English language.
- 6 Those persons responsible for implementing decisions reached at the General Assembly should be identified in the minutes.
- 7 The date **and** venue for a meeting of the General Assembly will be notified by the Paris Office of the General Secretariat to the Secretaries of Member Societies - or to those appointed by a Society to respond to EFC business - at least three months in advance of the meeting.
- 8 The working papers for the General Assembly meeting will be prepared and issued by the Paris Office of the General Secretariat at least one month before the meeting.
- 9 Notice of intention to be present at the General Assembly should be sent to the Paris Office not less than two weeks before the meeting (failure to comply with this request will not prevent attendance at the meeting, the purpose is to enable an attendance list to be made available for delegates on arrival at the meeting).

10 THE BOARD OF ADMINISTRATORS

The composition and responsibilities of the Board of Administrators are defined in Articles 11, 12, 13, 14 **and 15** of the Statutes.

10.1 Membership of the Board of Administrators

Five groups of people are entitled to attend meetings of the Board of Administrators, as follows:

- 1 One member representing **each of the General Secretariat offices (France, Germany and UK) and one from the country of registration in law (Belgium) of the EFC**, together with **eight** other elected members, **three** representing Member Societies **drawn from amongst European Members in countries other than the four administrators referred to above and five drawn from amongst the EFC members at large i.e. European and International Members**. Only these **twelve** members are entitled to vote.

The Frankfurt Office will issue a call for nominations at least six months before the date of the General Assembly at which the election will be made. The nominations will be submitted by the Frankfurt Office to the President of the EFC who should ensure that **at least seven different countries are represented**. The President should seek further nominations from Member Societies, if necessary, to ensure that this requirement is met. The President may not withhold any nomination.

The list of nominations shall be sent by the President to the Paris Office for inclusion in the working papers for the General Assembly.

The Board of Administrators will nominate and elect the President and Vice-President of the EFC from among its members and those of the Science and Technology Advisory Committee. Members of the Board of Administrators elected to these offices remain members after appointment; these appointments do not result in vacancies on the Board, the membership of which does not normally exceed fifteen persons.

EFC Bye-Laws: Proposed Revision 2007

- 2 The Chairman of the Science and Technology Advisory Committee, the Scientific Secretary and the EFC Treasurer are invited to attend meetings of the Board of Administrators in an ex officio capacity without the right to vote.
- 3 A representative from each of the three Offices of the General Secretariat shall take part in the meetings of the Board of Administrators without the right to vote.
- 4 A minutes secretary (see para. 10.3).
- 5 Further members may be co-opted into the Board of Administrators **under exceptional circumstances** by decision of the elected members and approval of the General Assembly. Co-opted members have no voting rights unless elected to the post of President or Vice-President.

The term of office of members of the **Board of Administrators** is three years. At the expiry of their term of office, administrators are **eligible for re-election for one further term** of office (**Article 11 of the Statutes**).

On resignation, a member of the Board of Administrators will be replaced by a person nominated by a Member Society in the country of the resigned member and without further approval by the General Assembly to serve for the balance of the term.

10.2 Duties of the Board of Administrators are to:

- 1 prepare proposals for the General Assembly;
- 2 ensure that resolutions of the General Assembly are carried out;
- 3 take any necessary decision on behalf of the EFC between the meetings of the General Assembly in accordance with the Statutes and Bye-Laws;
- 4 supply the General Assembly with a report of its activities and decisions;
- 5 liaise with the Science and Technology Advisory Committee on the establishment of new EFC Working Parties;
- 6 recommend, on the basis of submissions received, the host country for EUROCORR at least three years in advance of the proposed date and submit the recommendation for approval to the General Assembly;
- 7 prepare a budget of income and expenditure and a balance sheet for submission to the General Assembly;
- 8 approve, in advance, items of expenditure to be incurred by the Scientific Secretary and Honorary Officers of the EFC;
- 9 propose from among its members and those of the Science and Technology Advisory Committee a President and a Vice-President of the EFC; the proposal to be forwarded to the General Assembly for approval.

10.3 Working Procedures of the Board of Administrators

- 1 The Board of Administrators may be referred to as the BoA.
- 2 The BoA shall be chaired by the EFC President.

EFC Bye-Laws: Proposed Revision 2007

- 3 A meeting of the BoA will be notified to its members at least three months in advance.
- 4 A provisional agenda and working papers will be prepared and distributed to members by the Paris Office, preferably not less than one month before the date of the meeting.
- 5 A member of the BoA may be represented by a person nominated from the country of the member; the nominee may exercise only one proxy vote.
- 6 The chairman and **seven** other members of the BoA constitute a quorum.
- 7 Minutes of the BoA meetings will be taken by a member of the Paris Office, or by some other person at the request of the Paris Office.
- 8 The minutes will be circulated only to members of the BoA **or their nominated alternates** and others present at the meeting and should identify those members of the BoA to be responsible for the actions arising from the meeting.
- 9 Generally, the meetings of the BoA will be hosted by one of the Offices of the General Secretariat and will take place in Frankfurt, London or Paris. Liaison with the host will be the responsibility of the Paris Office (see also 4 above).
- 10 The BoA must meet at least once per year.

11 THE SCIENCE AND TECHNOLOGY ADVISORY COMMITTEE

The Science and Technology Advisory Committee shall advise the EFC on scientific, technological and educational matters and the implementation of decisions concerning these.

11.1 Membership of the Science and Technology Advisory Committee

Four groups of people may attend meetings of the Science and Technology Advisory Committee, as follows:

1 Elected members

The General Assembly shall elect six members from names submitted by Member Societies having Full Member status. The Frankfurt Office will issue a call for nominations at least six months before the date of the General Assembly at which the election is to be made. The nominations should be submitted by the Frankfurt Office to the BoA who will examine the list of candidates to ensure that at least **five countries** will be represented in the list for submission to the General Assembly. The BoA may not withhold any name from the list but will seek to obtain further nominations from Member Societies if the "five country representation" requirement is not being met. The list of nominations should be included in the working papers for the General Assembly.

The six elected members may exercise a vote in the Science and Technology Advisory Committee.

It is desirable that elected members include representation from industrial organisations, including consultants.

The elected members of STAC shall hold office for three years and may be reappointed.

EFC Bye-Laws: Proposed Revision 2007

- 2 Chairmen of EFC Working Parties are full members with the same voting rights as elected members.
- 3 The President and Vice-President of the EFC as well as representatives of the EFC Secretariat may attend meetings but without voting rights.
- 4 Others who can contribute to the work of the EFC may attend meetings of the Science and Technology Advisory Committee by invitation but without voting rights.

11.2 Duties of the Science and Technology Advisory Committee

- 1 To establish technical Working Parties (see para. 12) in accord with the Objective of the EFC (para. 1).
- 2 To receive and discuss reports from the Working Parties.
- 3 To encourage Working Parties to publish their reports and, preferably, in an EFC series.
- 4 To participate in the arrangements for the technical sessions at EUROCORN.
- 5 To elect from among its members the juries for the EFC Medal, the Cavallaro Medal, the Kurt Schwabe Prize, and any other EFC Award.
- 6 To select and prepare scientific and technical items for the Agenda of the General Assembly.
- 7 To report to the General Assembly, via the Scientific Secretary, on the activities of the STAC.
- 8 To report to the BoA, via the STAC Chairman, on activities of the STAC and on any matters falling within the responsibility of the BoA.

11.3 Working Procedures of the Science and Technology Advisory Committee

- 1 The Science and Technology Advisory Committee may be referred to as the STAC.
- 2 The STAC shall meet at least once a year and preferably on the occasion of a EUROCORN meeting. In all cases, the venue and local arrangements for the meeting will be the responsibility of a Member Society. The Member Society will bear any costs associated with the local arrangements for a STAC meeting.
- 3 The Chairman of the STAC will be nominated by and elected from among its voting members and will retain voting rights. The term of office of the Chairman shall be three years with the option of re-election for one further term.
- 4 The STAC will be assisted by a Scientific Secretary (para. 14) to be appointed by the BoA taking into account the wishes of the STAC. (Appointment by the BoA is necessary as the Scientific Secretary is a paid official of the EFC and the BoA is responsible for expenditures associated with the work of the Scientific Secretary (para 10.2)).
- 5 At least three months before a meeting of the STAC the Scientific Secretary will issue the invitation to those entitled to attend, i.e. as described in para. 11.1, with the date and venue as agreed at the previous meeting. Liaison with the host Member Society will be the responsibility of the Scientific Secretary.
- 6 The Scientific Secretary in consultation with the STAC Chairman will prepare a draft Agenda and circulate this to those invited to attend. Working papers will be issued not later than three weeks before the meeting.

EFC Bye-Laws: Proposed Revision 2007

- 7 The Scientific Secretary will be responsible for taking the minutes of the meeting and for their subsequent distribution. In addition to circulation to all members of the STAC, one copy of the minutes shall be lodged with each of the three Offices of the General Secretariat.
- 8 The Chairman, or appointed deputy, and **50 % of the elected members** constitute a quorum.
- 9 In the case of the resignation of an elected member of the STAC a replacement will be sought from the resigned member's Member Society. If no nomination is offered, the STAC may co-opt a new member.

12 WORKING PARTIES

- 12.1** Working Parties are formed with the object of achieving collaboration on any aspect of corrosion or corrosion control.
- 12.2** A Working Party may be formed on the proposal of the General Assembly, the BoA, the STAC, or industry, but in all cases the Directives for Establishment and Operation of Working Parties, as appended to these Bye-Laws, must be followed.
- 12.3** A proposal for the formation of a Working Party must receive, on enquiry from the proposer or from the EFC Scientific Secretary, the written support of **at least four** Member Societies **in good standing**. This requirement is essential since Member Societies provide the major financial input for the operation of the EFC. It will apply even in cases where the initial proposal for formation of a Working Party comes from industry.
- 12.4** Proposals for the formation of a Working Party should be directed, in the first instance, to the Scientific Secretary who will, after making the appropriate enquiries, bring the proposal to the attention of the STAC.

13 TASK FORCES

- 13.1** Task Forces may be established to carry out specific tasks that are not normally the responsibility of existing Working Parties or that have implications for the work of the EFC generally. (Examples in recent years have been Task Forces concerned with **Certification** and with **Computer Applications**.)
- 13.2** Task Forces may be set up by the BoA, STAC, or Working Parties (to be referred to as the Parent Body). A Chairman will be appointed by the Parent Body, and the members of the Task Force will be selected by that Chairman. Neither the Chairman nor the members of the Task Force are required to be members of the Parent Body.
- 13.3** The Chairman of the Task Force will report to the Parent Body, as required.
- 13.4** A Task Force will be disbanded on completion of its work.

14 THE SCIENTIFIC SECRETARY

- 14.1** Duties of the Scientific Secretary:
 - 1 The development and coordination of the activities of STAC in cooperation with the Member Societies, the BoA, and the General Secretariat.
 - 2 The preparation of the Agenda and working papers for the STAC meetings and the preparation and distribution of minutes of STAC meetings.

EFC Bye-Laws: Proposed Revision 2007

- 3 The preparation of papers and reports for the dissemination of corrosion information across national boundaries, notably, but not exclusively, through the publication in an EFC series of reports, guidelines, etc. (Detailed editing of manuscripts for publication in the EFC series is the responsibility of the series publisher).
- 4 The reinforcement, where desirable, of scientific and technical links with other bodies having interests similar to those of the EFC.
- 5 Maintaining an awareness of, and collaborating, whenever possible, with National, European, and International Standards bodies.
- 6 Maintaining close contact with EFC Working Parties through their chairmen.
- 7 Preparation and distribution of an EFC Newsletter.
- 8 Presenting a report on the work of the Scientific Secretary to the BoA at its meetings.
- 9 Reporting to the General Assembly on the scientific and technical work of the EFC.
- 10 Maintaining a Calendar of EFC and other important corrosion events.
- 11 Approving and issuing EFC event numbers.

15 EFC EVENTS

A meeting, conference, symposium, educational course or other similar event may be described as a numbered EFC event providing the following requirements are met:

- 1 Applications to have an event accepted as an EFC event must be addressed to the EFC Scientific Secretary;
- 2 The event must be concerned with a topic or topics that fall within the interests of the EFC;
- 3 The event must be organised by a Member Society or Working Party of the EFC: in the latter case, the agreement of the national Member Society or Societies must be obtained (see also para. 3.7);
- 4 Events meeting the above requirements, but organised by other bodies, including industry, may be registered as an EFC event if written agreement is obtained from a Member Society in the country in which the event is to be held. In such cases, the Member Society must be invited to nominate a representative to the organising committee;
- 5 There should be no *unnecessary* restriction on the announcement of the event or on the attendance; there should be no *unnecessary* restriction on the subsequent reporting of the event although any requests from the organiser for speakers' anonymity should be agreed in advance and respected;
- 6 The language of the event must be one of the official languages of the EFC, i.e. English, French or German: all publicity to be provided by the EFC must be in English;
- 7 Details of the event, dates, venue, language, organisers, publication route (if any), availability of abstracts or preprints, etc., should be entered on a form supplied by, and returned on completion to, the EFC Scientific Secretary (Appendix A provides an example of this form);
- 8 Acceptance as an EFC event will ensure inclusion in the EFC Calendar of Events, publicity, and reporting in the EFC Newsletter.

EFC Bye-Laws: Proposed Revision 2007

9. Working Parties applying for EFC Event Numbers for meetings where there is an attendance charge will be requested to pay 10 Euros per paying participant as a contribution to the EFC budget.
10. EFC Event Numbers should not be granted to events taking place within four weeks before or after EUROCORR.

NOTE: EFC event numbers are allocated in the order in which applications are received and are not related to the chronology of the events.

16 EUROCORR

EUROCORR (for which upper case letters should be used) is the title of the annual EFC corrosion conference.

The requirements for the venue, hosting and organisation of EUROCORR are as follows:

- 1 EUROCORR must be held in a European country and organised by an EFC Member Society or Societies. Where there is more than one Member Society in the country, it is desirable that all the Societies should be involved;
- 2 Bids for hosting EUROCORR must be submitted to the Scientific Secretary at least three years before the beginning of the year in which the event is to be held. The BoA makes the final decision on the organiser of EUROCORR after consideration of all of the bids that have been received;
- 3 A bid to host EUROCORR should indicate the willingness of the organiser to enter into a form of agreement with the EFC **via the EFC Congress Secretariat**;
- 4 EUROCORR should **ideally** commence at a date between September 1st and October 15th and have a duration of 3, 4 or 5 days **and efforts should be made to avoid clashes with other major corrosion conferences**.
- 5 EFC Member Societies are requested not to hold conferences on any topic related to corrosion and its prevention between these dates; where long standing commitments exist the matter should be discussed by the STAC with a view to reaching an acceptable compromise **(also see para. 15, item 10)**.
- 6 All Working Party Chairmen shall be invited to join the Scientific Committee of EUROCORR.
- 7 The broad outlines of the technical programme should be discussed in the STAC which will make appropriate recommendations to the organiser. A representative of the organising Member Society should be present at the STAC meeting.
- 8 The first announcement from the host society shall be made as soon as the date and venue have been established but preferably not more than two years before the event.
- 9 The second announcement of EUROCORR should not take place until the discussions (8 above) have taken place.
- 10 Publication of the proceedings of EUROCORR **usually as a CD-ROM provided to delegates at the time of the conference** is essential. **Selected proceedings may** be made generally available in the EFC Series or in some other special volume or in a corrosion journal **published in Europe**.

DIRECTIVES FOR THE ESTABLISHMENT AND OPERATION OF WORKING PARTIES (WPs)

1 PRINCIPLES

- 1 WPs are formed with the object of achieving collaboration in Europe to deal with any aspect of corrosion and corrosion control.
- 2 WPs are the principal means of conducting the technical and scientific work of the EFC.
- 3 Member Societies have an automatic right to appoint delegates to WPs.
- 4 WPs should not be started in topic areas where similar activities have already been well established on a European basis by a Member Society.
- 5 A WP should be proposed only where the topic has significance in a European context. Topics associated with a particular country should, in general, be the responsibility of a Member Society in that country. That Member Society may, however, invite the EFC to establish an EFC WP. Alternatively, the topic, if of clearly defined objectives, could be investigated by a Task Force of the EFC (see para. 17 of the Bye-Laws).
- 6 The proposed establishment of a WP should be supported by Member Societies having Full Membership status in at least four different countries. Any objections will be considered by the STAC before recommending establishment of the WP to the General Assembly.

2 FIELDS OF ACTIVITY OF THE WORKING PARTIES

WP may be established to work in the following areas, although the list is not exclusive:

- 1 Study and critical assessment of the literature in the field of interest of the WP with a view to updating and publication;
- 2 Preparation of State of the Art reports;
- 3 Preparation of Guidelines documents as a basis for recommendations for good practice and for submission to Standards writing bodies;
- 4 Drawing up recommendations for the education and training of corrosion experts at various levels;
- 5 Preparation of training courses;
- 6 Preparation of symposia on subjects of importance to the WP;
- 7 Conducting field surveys on corrosion topics or laboratory corrosion tests across various European countries;
- 8 Providing technical support to standardisation bodies and to CEN, in particular.

3 FORMATION OF A WORKING PARTY

3.1 Proposals for the formation of a WP can be made by:

- 1 The General Assembly;
- 2 The Board of Administrators;
- 3 The Science and Technology Advisory Committee;
- 4 A Member Society;

- 5 An Office of the EFC Secretariat;
- 6 An industrial, academic or consulting body with substantial interests in Europe and with one or more persons involved in the proposal belonging to an EFC Member Society having Full Member Status.

3.2 Procedures for establishing a WP

In summary, the following steps are required to establish an EFC Working Party. These steps should be taken in the order shown, but with the possibility of varying this as described in 3.2.4 below:

- 1 A proposal, including scope and purpose;
- 2 Approval of Member Societies;
- 3 Approval by STAC;
- 4 Inaugural meeting;
- 5 Final approval by the General Assembly.

3.2.1 The Proposal

A proposal for establishing a new EFC Working Party should be submitted to the Scientific Secretary not later than three months before the date of a STAC meeting.

The proposal should contain the following information:

- 1 The status of the proposer, i.e. one of the bodies mentioned in para. 3.1;
- 2 The name, address, telephone, Fax and e-mail details of the contact person;
- 3 The name of the EFC Member Society of which the person mentioned in (2) is a member;
- 4 A short statement, of up to 100 words, of the suggested scope and objectives of the WP;
- 5 An indication of interest already expressed (this could mention Member Societies, industry, other European Institutions, etc.);
- 6 A proposal for the time, venue and convenor for an inaugural meeting of the WP.

3.2.2 Approval of Member Societies

The Scientific Secretary will take the following actions:

- 1 Inform all Member Societies by letter of the proposal with a request for a reply within six weeks indicating approval or objection; the letter should also invite Member Societies to nominate up to two delegates to attend the inaugural meeting of the Working Party;
- 2 Include the proposal, together with any replies from Member Societies, in the working papers for the next STAC meeting at which the STAC will be invited to approve the establishment of the new WP. The convenor of the proposed WP should be invited to attend the STAC meeting and introduce the proposal.

3.2.3 Approval of STAC

The STAC will examine the proposal taking particular care to ensure that the proposed field of activities fits into the technical and scientific scope of the EFC and that cooperation in the fields

covered by other EFC WP and Member Societies or by any existing international working group is encouraged.

3.2.4 The inaugural meeting

Following agreement by the STAC, the convenor of the proposed WP will be invited to proceed with the inaugural meeting; invitations to this meeting are at the discretion of the convenor but must include Member Society delegates as nominated in 3.2.2 above.

EXCEPTIONALLY, where the above timetable would incur a delay of several months before the inaugural meeting could be held, and where there is a pressing demand for work to start, the inaugural meeting may be held before the STAC meeting. In this case, it will be necessary for the proposer in conjunction with the EFC Scientific Secretary to make the enquiries set out in 3.2.2 so that Member Societies may have their views made known at the inaugural meeting.

The minutes of the inaugural meeting should then be included in the working papers for the next STAC meeting when the STAC will be invited to recommend the establishment of the WP to the General Assembly, taking into account any contrary views from Member Societies made at the inaugural meeting or to STAC.

At the inaugural meeting:

- 1 A Chairman will be appointed from among those present. The Chairman must be a member of an EFC Member Society having Full Membership status;
- 2 A Secretary may be appointed at the request of the Chairman (if a Secretary is not appointed, it will be the responsibility of the Chairman to carry out the tasks normally to be expected from a Secretary (see 4.2));
- 3 Terms of Reference and Objectives of the WP should be prepared;
- 4 A provisional membership list should be prepared which should indicate the EFC Member Society to which each WP delegate belongs. It is the duty of the Chairman to encourage WP delegates to join an EFC Member Society;
- 5 The Chairman should inform delegates to the WP that membership is free for all who belong to an EFC Member Society; other delegates, not belonging to an EFC Member Society, will be charged an annual fee to defray some of the administrative costs of the WP. The level of this fee is reviewed annually by the General Assembly;
- 6 The Chairman is responsible for ensuring that a written record (minutes) is kept by the Secretary or other appointed person, of proceedings of the inaugural and subsequent meetings of the WP and that these minutes are sent to all members of the WP and to the EFC Scientific Secretary;
- 7 The requirements for a quorum at meetings of the WP should be decided by those present at the inaugural meeting.

3.2.5 Final Approval by the General Assembly

- 1 On receipt of the minutes of the inaugural meeting of the WP, the Scientific Secretary will prepare a summary indicating the names of the officers, the Member Society nominations and all other proposed members for inclusion in the working papers of the next General Assembly which will be asked to approve the establishment of the new WP.
- 2 The Scientific Secretary will keep the STAC Chairman informed of progress in establishing the new WP and the STAC Chairman will, in turn, inform the BoA of progress.

- 3 The WP may begin its work following the inaugural meeting but will be recognised as an official Working Party of the EFC only after its establishment has been approved by the EFC General Assembly.

4 DUTIES OF CHAIRMAN, SECRETARY AND DELEGATES OF WP

4.0 PRINCIPLES

In the distribution of tasks between the Chairman and Secretary, it should be borne in mind that there are WP in which:

the Chairman and/or Secretary have at their disposal a well organised secretariat either in one of the Member Societies or in the office of the company or enterprise to which they belong, and others in which the Chairman or Secretary manages their own Secretariat (see also para 3.2.4).

In both cases, the office of the Scientific Secretary can, as a support service provided from EFC funding, offer facilities for the copying of minutes and other WP documents and for the posting of these to WP members.

A final distribution of tasks between Chairman and Secretary of a WP on the basis of the following suggestions should, therefore, be decided in each WP:

4.1 Duties of the Chairman:

- 1 The Chairman is responsible for ensuring that the stated objectives of the Working Party are achieved in a timely and effective manner;
- 2 The Chairman participates in the meetings of the STAC and provides, on request in advance from the Scientific Secretary, a written progress report on the activities of the WP for inclusion in the working papers (the Chairman may also, from time to time, be requested by the Scientific Secretary, to provide a summary of activities for inclusion in the EFC Newsletter);
- 3 The Chairman calls the meetings of the WP on his own initiative or on the request of WP members; in general it should not be necessary for the WP to meet more than twice each year although sub-groups of the WP charged with particular tasks may meet on other occasions;
- 4 The Chairman proposes and approves with the consent of the WP, the nomination and re-election of WP members;

NOTE: Each period of office for WP members is of three years.

At the end of each such period, re-election for a further period of three years may be allowed at the discretion of the WP chairman.

- 5 The Chairman prepares and issues an Agenda for meetings and ensures that a suitable venue is available;
- 6 The Chairman is responsible for ensuring that minutes of WP meetings are taken and that copies are sent to WP members and to the EFC Scientific Secretary.
- 7 The Chairman is responsible for drawing up the programme for a session at EUROCORN in his work area when requested to do so by the Scientific Committee for the event.

4.2 Duties of the Secretary

- 1 The Secretary, together with the Chairman, is at the disposal of the WP for the clerical and administrative tasks involved; in such work advantage should be taken of the facilities afforded by the EFC Scientific Secretary (see 4.0 PRINCIPLES, above);
- 2 The Secretary conducts the correspondence with WP members on behalf of the Chairman, and produces the minutes of each meeting.

4.3 Duties of Members

- 1 Members are expected to attend meetings of the WP on notification from the Chairman of Secretary;
- 2 Members should participate in the technical and scientific activities of the WP by providing reports and, wherever possible, by participating in collaborative experimental work;
- 3 Members are required to give full support, notably by submission of high quality papers, to the annual EUROCORN conference of the EFC.

4.4 Voting at WP meetings

A vote may be taken at a WP meeting on any matter except of a scientific or technical nature.

A simple majority is sufficient to approve a resolution. However, a secret ballot may be taken if requested by any member.

4.5 Replacement of Chairman

In the event of the resignation or dismissal of a WP Chairman (for example at the request of STAC because of inactivity), a new Chairman shall be proposed by the WP members and the decision communicated to the STAC Chairman. If a new Chairman is not proposed by the WP, the matter shall be referred to the STAC Chairman who will:

- 1 appoint a temporary chairman;
- 2 bring the matter to the attention of the STAC for resolution at its next meeting;
- 3 refer the matter to the BoA if (1) and (2) produce no satisfactory result.

4.6 Review and Dissolution of a Working Party

- 1 Every five years, the activities of WP are to be thoroughly reviewed by the STAC. It is the duty of STAC to advise the BoA and the General Assembly of the results of this review, i.e. whether the WP should continue or be dissolved.
- 2 Reasons for the dissolution of a WP will be the following:
 - (i) achievement of the objective of the WP;
 - (ii) no activity on the part of the WP for two successive years.
- 3 The final decision on whether to wind up a WP is taken by the General Assembly on a proposal of the BoA made on the recommendation of the STAC.

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



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Paris, 30 May 2007

To the EFC General Assembly Members

MS/PBB

EFC Strategies - Membership of the World Corrosion Organisation

Dear Members of the EFC General Assembly,

You will recall my letter of 19 April 2007 in which I informed you that the EFC would like to offer full membership of the World Corrosion Organisation (WCO) to all of its member societies with the costs being borne by the EFC. The membership on offer would include full voting rights at the General Assembly of the WCO and if most of the EFC members accept the invitation it would help the WCO to achieve the critical mass necessary to exert real influence on behalf of the corrosion fraternity at a global level. Furthermore, we would have the opportunity to nominate officers and representatives for all boards and committees of the WCO and to take an active part in the political work of the WCO, not to forget of course the technical work like standardisation, etc. I would therefore like to encourage you to inform Pascale Bridou at the Paris EFC office that the EFC should register your organisation as a full member of the WCO.

Secondly, I would like to remind you that the next meeting of the EFC Strategy Group will be taking place in Paris on 18 June 2007 and that we would still appreciate any suggestions from your side on the issues raised in my letter of 19 April 2007 if you have not yet had the opportunity to respond.

Finally, I am enclosing a copy of a letter which has been sent to the European Commission through the national German coordination office. The reason for this letter was that among both German and EU research politicians a feeling has emerged that corrosion topics have been neglected too much during the last four years and that these topics should be addressed more intensively in future research activities. This was actually the reason why I was phoned by Dr. Schumacher of the German EU coordination office to give him a few thoughts at hand for further internal discussion. I personally regard this as an encouraging signal and I thought that I should share this letter with you. At the same time you should regard this as an invitation to add further ideas for potential discussion about the importance of corrosion research with politicians. Again the Strategy Group would also be keen to discuss your ideas on these points and would be grateful to receive your thoughts before the meeting on 18 June 2007

.../...

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EUROPÄISCHE FÖDERATION KORROSION



I look forward to hearing from you soon on each of the issues raised above, and in particular, whether you would like your society to be registered as a full member of the World Corrosion Organisation as an additional benefit of EFC membership.

With my best wishes,

Michael
SCHÜTZE
President
of EFC

Enclosure: letter sent to Dr. Schumacher of the German EU coordination office

Distribution: Member Societies (GA
Representatives) STAC
Members
BoA Members

Appendix 13, page 3

Michael Schütze
Prof. Dr.-Ing,
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11 May 2007

MSchü/ng

Research on Corrosion and Corrosion Protection

Dear Dr. Schumacher,

As a follow-up of our phone conversation yesterday I would like to summarize some of the more important aspects with regard to the relevance of corrosion research for industry and society in the following:

It has been known since several decades that corrosion is a significant cost factor in all industrially developed countries with numbers ranging from about 2 to 4% of the GNP, depending on country and statistics. Although several countries, e.g. US and Germany, invested large amounts of funding money into corrosion research in the 80s and 90s of the last century the general costs of corrosion are again starting to increase. This fact has several reasons among one of the more important is that new technologies create new corrosion problems. In order to illustrate this I would like to quote only very few examples.

One is that corrosion of the very thin structures in electronic components is responsible for about 80 to 90% of premature failures of electronic equipment. This type of corrosion and in particular the countermeasures have been investigated only in little detail but may deserve further efforts.

New intermetallic light weight materials for elevated temperatures, e.g. α_2 , orthorhombic and gamma titanium aluminides have reached a very high level of technical development regarding their microstructural and mechanical properties (actually Europe has taken the world leadership in this field). However, the major drawback impeding wide technical application of these materials is corrosion in the form of high temperature exposure embrittlement. Again an understanding of the mechanisms is required and corrosion protection solutions, e.g. based on microstructural surface modification, have to be developed to make full use of the potential of this new group of material.

More aggressive types of alternative fuels (e.g. bio-mass, all sorts of residues, etc.) will increasingly have to be used in energy conversion in the future leading to severe challenges for the materials with regard to corrosion. Elucidation of the mechanisms and development of protection concepts are required, in particular if increased operation temperatures are aimed at.

An interesting corrosion research topic is also the deliberate dissolution of metallic stents in medical technology where corrosion rates of the metal have to be adjusted by alloying to the regrowth rates of tissue.

This list could be continued significantly which underlines the importance of taking corrosion and corrosion protection issues into account in on-going and future research.

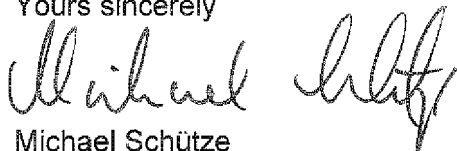
Unfortunately *the opposite had happened during the last few years, i.e. corrosion research* had been neglected more and more in favour of more "sexy" sciences. Industry has realised that we may presently be running into a critical situation when ignoring corrosion issues in current research although this insight came late and often when the other development work was already quite far advanced (see examples electronics and titanium aluminide intermetallics).

Another drawback of this development is that the number of experts in the field has dramatically decreased over the last few years and much of the expertise has got lost. For this reason the American National Association of Corrosion Engineers (NACE) has started an initiative in order to make industry and politics aware of this situation. This initiative led to the foundation of the World Corrosion Organisation (WCO) based in New York which aims at becoming a registered organisation of the United Nations Organisation. From the European side this organisation is supported by the European Federation of Corrosion (EFC) with secretariats in Frankfurt, London and Paris. As president of these two international societies but also as a representative of a European research organisation in this field I would like to sensitise you for the fact that corrosion and corrosion protection deserve wider attention also in the funding schemes of European and national funding institutions in order to keep Europe and its industries competitive and to allow them full exploitation of advanced technical solutions which could otherwise fail due to corrosion problems.

In framework VII already some first promising steps have been taken based on the strategic research agenda developed by the EuMaT technology platform but I think these can only be first steps and further steps have to follow. In this sense I would like to ask you to help to a further promotion of the topic of corrosion and corrosion protection in particular on a European basis and through your contacts to the European funding administration in Brussels.

It would be a pleasure for me to help you with any additional information and I will readily be available for any further personal exchange of ideas.

Yours sincerely



Michael Schütze

President of the World Corrosion Organisation (WCO)
President of the European Federation of Corrosion (EFC)

EUROPEAN FEDERATION OF CORROSION

HONORARY TREASURER'S REPORT

I am pleased to attach the following for your consideration:

1 Annual financial statements for the year ended 31 December 2006 (see annex 1, pages 1 to 4)

The income and expenditure account on page 1 shows a **deficit for the year of €4,617** compared to a breakeven budget and **surplus of €5,592 achieved in 2005**.

The main reason for not achieving the budget or the good result of 2005 is the loss of income from Eurocorr 2006 due to the bankruptcy of the organisers, NCC. We do not know how much levy was due to EFC but it has been estimated at around €17,000. We have notified the administrator about the EFC claim and wait to hear from him. Eurocorr is an important source of income for EFC and we therefore need to ensure that future organisers are financially stable.

Although net subscription income is up on 2005, it is below budget by €1,800. This is partly because we took credit for CAMPI's first subscription of €1,000 in 2005 but it actually covered part of 2005 and all of 2006. It is also due to the provision for doubtful debts made in 2006.

Royalty income is also low but this should be rectified as new books come on line this year.

Total expenditure was slightly lower than budget. The scientific secretary's costs were lower than usual because of Paul McIntyre's illness and working party costs were €3,328 lower than budget. On the other hand, there was unbudgeted expenditure of €3,739 in attending NACE and €1,605 for the cost of the newsletter. Paris secretariat costs exceeded budget by €2,471.

Available reserves have fallen from €29,072 to €23,355 as a result of the deficit for the year.

2 Current subscription position (see annex 2)

Reminders have been sent out to all members owing subscriptions at 31 July 2007, who are encouraged to pay their subscriptions before the General Assembly.

3 Forecast for 2007 and budget for 2008 (see annex 3)

The 2007 budget showed a deficit of €1,620. Current indications are that total income will be €1,320 down on budget and costs will be €876 up on budget. This will result in a deficit of €3,816 and available reserves will fall to €19,539. However, the Eurocorr levy has been included in the forecast at a minimum level of €10,000 and there is potential for increased income (Lisbon achieved €15,764 in 2005) that could eliminate the deficit.

The proposed budget for 2008 shows a deficit of €2,500. Net subscription income is budgeted to increase by €1,790 as the minimum subscription is increased from €620 to €1,000 and the Eurocorr levy is included at the minimum level of €10,000.

Total budgeted expenditure for 2008 is slightly up on the forecast for 2007 but the allocation of resources has been changed. As agreed at the 2006 general assembly, the scientific secretary's fees have been reviewed and increased appropriately. It has been decided to allocate €4,000 to improve and update the EFC website. These changes have been funded by a reduction in support for working parties.

Subject to the outcome of Eurocorr 2008, the budgeted deficit will reduce available reserves to €17,039 at 31 December 2008 which is equivalent to around 34% of annual running costs. It would be advisable to hold reserves nearer to 100% of annual running costs to ensure the long term security of EFC.

EFC cannot continue to operate at a deficit and this needs to be reviewed as part of the development of the proposed rolling 5 year strategic plan. Certainly, the level of subscription rates (some of which have not changed for well over 5 years) needs to be reviewed.

EUROPEAN FEDERATION OF CORROSION

Financial statements for the year ended 31 December 2006

INCOME AND EXPENDITURE

Income	Note	2006 budget		2006 results		2005 results	
		€	€	€	€	€	€
Subscriptions		31,900		30,880		30,380	
Less: Bad and doubtful debts	(1)	0		780		1,170	
Net subscriptions receivable		31,900		30,100		29,210	
Eurocorr levy		4,500		(0)		15,764	
Royalties		3,000		1,022		1,538	
Project income	(2)	0		588		6,423	
Other income		0		0		280	
		39,400		31,710		53,215	
Expenditure							
<i>Scientific Secretary</i>							
Fees		12,000		11,022		13,138	
Expenses	(3)	3,900		1,502		5,831	
Office facilities		7,000		7,000		7,000	
		22,900		19,524		25,969	
Paris secretariat costs		4,000		6,471		5,636	
Honorary Officers expenses		3,000		2,705		2,146	
Support for working parties	(4)	7,460		4,132		6,196	
Project expenses	(2)	0		0		6,423	
Newsletter		0		1,605		0	
NACE registration		1,000		(500)		0	
NACE participation costs		0		3,739		0	
Eurocorr Corrosion Medal		0		0		1,000	
Bank charges		40		17		24	
Contingency sum		1,000		0		0	
Total expenditure		39,400		37,693		47,394	
(Deficit)/surplus		0		(5,983)		5,821	
Exchange gains/(losses)		0		266		(229)	
Deficit/(surplus) for the year		0		(5,717)		5,592	
Surplus brought forward		29,072		29,072		23,480	
Surplus carried forward		29,072		23,355		29,072	

EUROPEAN FEDERATION OF CORROSION

Treasurer's report

Annex 1

Financial statements for the year ended 31 December 2006

Page 2

BALANCE SHEET

		31/12/06	31/12/05
		€	€
Current assets			
Outstanding subscriptions	(5)	6,500	1,480
Other debtors	(6)	2,408	40,076
Amount held by IoM3		20,076	0
Bank balance		2,359	14,712
		31,343	56,268
Current liabilities			
Creditors and accruals	(7)	3,963	23,171
Net assets		<u>27,380</u>	<u>33,097</u>
General fund		23,355	29,072
Education fund		4,025	4,025
Total funds		<u>27,380</u>	<u>33,097</u>

EUROPEAN FEDERATION OF CORROSION

Financial statements for the year ended 31 December 2006

NOTES TO THE FINANCIAL STATEMENTS

1) Bad and doubtful debts	2006	2005
	€	€
Provision against unpaid subscriptions in current year	780	1,170
	<u>780</u>	<u>1,170</u>
2) Project income and expenditure		
Income		
MENTOR C	588	6,423
	<u>588</u>	<u>6,423</u>
Expenditure		
Scientific Secretary fees	0	889
Travel and subsistence	0	1,006
Other costs	0	4,528
	<u>0</u>	<u>6,423</u>
3) Scientific Secretary expenses		
Travel & incidental expenses	1,369	4,548
Postage & courier costs	133	1,283
	<u>1,502</u>	<u>5,831</u>
4) Support for working parties		
Scientific Secretary fees	1,200	1,200
Other costs (paid)	1,832	2,694
Other costs (accrued)	1,100	2,302
	<u>4,132</u>	<u>6,196</u>
5) Subscriptions outstanding		
Italy (AIM)	2,000	1,000
Denmark	1,500	0
Azerbaijan	0	390
Slovenia	1,080	690
Yugoslavia	780	390
Amounts received in 2007 (2006)	3,000	480
	<u>8,360</u>	<u>2,950</u>
Provision for irrecoverable subscriptions	(1,860)	(1,470)
	<u>6,500</u>	<u>1,480</u>

EUROPEAN FEDERATION OF CORROSION**Financial statements for the year ended 31 December 2006**Treasurer's report
Annex 1
Page 4**NOTES TO THE FINANCIAL STATEMENTS**

	2006	2005
	€	€
6) Other debtors		
Publication royalties	2,408	2,947
Eurocorr levy (two years)	0	26,527
MENTOR C project	0	10,602
	<u>2,408</u>	<u>40,076</u>
7) Creditors and accruals		
Scientific secretary's fees/expenses	0	1,506
Paris secretariat costs	2,863	2,105
Honorary officers expenses	0	163
Working party expenses	1,100	2,302
Working party costs	0	12,336
Project expenses	0	3,705
NACE registration fee	0	500
Amount owing to IOM3	0	554
	<u>3,963</u>	<u>23,171</u>

EUROPEAN FEDERATION OF CORROSION

Treasurer's report

Annex 2

MEMBER SUBSCRIPTIONS

SOCIETY	COUNTRY	Owing at 01/01/06	Fees due in 2006	Fees due in 2007	Received to 31/07/07	Owing at 31/07/07
		€	€	€	€	€
Eisenhutte Osterreich Montanuniversitat	Austria		1,000	1,000	2,000	0
CEBELCOR	Belgium		1,500	1,500	1,500	1,500
Force Instituttet	Denmark		1,500	1,500		3,000
FINNCORR	Finland		1,500	1,500	3,000	0
CEFRACOR	France		1,500	1,500	3,000	0
Societe de Chimie Industrielle	France		1,500	1,500	3,000	0
GfKORR	Germany		1,500	1,500	3,000	0
DECHEMA eV	Germany		1,500	1,500	3,000	0
Associazione Italiana di Metallurgia AIM	Italy	1,000	1,000	1,000		3,000
AITIVA	Italy		1,000	1,000	1,000	1,000
Nederlands Corrosie Centrum NCC	Netherlands		1,500		1,500	0
Norsk Korrosjonsteknisk Forening	Norway		1,500	1,500	3,000	0
INETI	Portugal		1,000	1,000	1,000	1,000
Sociedade Portuguesa de Quimica	Portugal		1,000	1,000	2,000	0
Sociedad Espanola de Qumica Industrial	Spain		1,000	1,000	1,000	1,000
Swedish Corrosion Institute	Sweden		1,500	1,500	3,000	0
SGO	Switzerland		1,000	1,000	1,000	1,000
Institute of Corrosion	UK		1,500	1,500	3,000	0
The Institute of Materials	UK		1,500	1,500	3,000	0
Croatian Society for Materials Protection	Croatia	240	390	620	1,250	0
	Czech					
Czech Association of Corrosion Engineers	Republic		390	620	1,010	0
	Czech					
Svuom S.R.O.	Republic		390	620	390	620
Hungarian Corrosion Society	Hungary	90	390	620	480	620
Polskie Stowarzyszenie Korozyjne	Poland		390	620	1,010	0
Institute of Metals and Technologies	Slovenia	690	390	620		1,700
Ukranian Association of Corrosionists	Ukraine		390	620	390	620
Union of Eng. & Tech. For Prot. Of Metals	Yugoslavia	390	390	620		1,400
Corrosion Comm. Of the Romanian						
Academy	Romania	240	390	620	1,250	0
ANTIKOR – Int. Sci. & Educ. Corr. Centre	Russia		1,500	1,500	3,000	0
The Corrosion Association	Turkey		390	620	1,010	0
Albanian Corrosion Society	Albania		390	620	1,010	0
Campi	Israel	(1,000)	1,000	1,000		1,000
Israeli Corrosion Forum	Israel		0	1,000		1,000
		1,650	31,790	33,820	48,800	18,460

EUROPEAN FEDERATION OF CORROSION

Treasurer's report

Annex 3

BUDGET FOR THE YEAR ENDING 31 DECEMBER 2008

Income	2006 results		2007 budget		2007 forecast		2008 budget	
	€	€	€	€	€	€	€	€
Subscriptions		30,880		33,080		33,820		33,750
Less: Bad and doubtful debts		780		0		1,860		0
Net subscriptions receivable		30,100		33,080		31,960		33,750
Eurocorr levy		0		10,000		10,000		10,000
Royalties		1,022		3,000		3,000		3,000
Project income		588		0		0		0
Other income		0		500		300		500
		31,710		46,580		45,260		47,250
Expenditure								
<i>Scientific Secretary</i>								
Fees	11,022		12,000		12,000		14,400	
Expenses	1,502		3,900		3,900		4,000	
Office facilities	7,000		7,000		7,000		7,000	
	19,524		22,900		22,900		25,400	
Paris secretariat costs	6,471		4,000		6,600		6,800	
Webmaster costs	0		0		0		4,000	
Honorary officers expenses	2,705		3,000		3,000		3,000	
Support for working parties	4,132		6,200		5,200		1,500	
Newsletter	1,605		1,500		1,500		1,500	
Publicity	0		1,000		1,000		0	
NACE registration	(500)		1,000		1,000		1,000	
NACE participation costs	3,739		3,000		3,000		3,000	
World Corrosion Organisation	0		3,500		3,500		3,500	
Eurocorr Corrosion Medal	0		1,000		1,000		0	
Bank charges	17		100		40		50	
Sundry expenses	0		1,000		336		0	
Total expenditure		37,693		48,200		49,076		49,750
(Deficit)/surplus		(5,983)		(1,620)		(3,816)		(2,500)
Exchange gains/(losses)		266		0		0		0
Deficit/(surplus) for the year		(5,717)		(1,620)		(3,816)		(2,500)
Surplus brought forward		29,072		23,355		23,355		19,539
Surplus carried forward		<u>23,355</u>		<u>21,735</u>		<u>19,539</u>		<u>17,039</u>

**REPORT OF THE SCIENTIFIC SECRETARY TO THE
BOARD OF ADMINISTRATORS (AUGUST 2007)**

Shortly after preparing my last report on 9th March 2007, together with the EFC President, I participated in the NACE Corrosion Conference in Nashville. This ran from 12th -15th March and during that period I looked after the EFC Stand in the Exhibition, represented the Federation in the inaugural meeting of the Board of Administrators of the World Corrosion Organisation on 13th March and, later that day represented EFC at a meeting with other members of the WCO and the ICC (including Antoine Pourbaix) to discuss cooperation between WCO and ICC. The following day, I participated, with Günter Schmitt, in a meeting to discuss EFC-NACE collaboration over the preparation of a joint publication on water treatment. On 15th March, I represented EFC at a meeting with representatives of NACE to discuss cooperation on coatings. The inaugural General Assembly of WCO took place later on the same day and, with Michael Schütze and Günter Schmitt, I represented EFC at that meeting. On that occasion, Michael was elected as the first President of WCO and as the only non-American Member of the Board of Directors. I was elected as a Member of the WCO Board of Administrators and was appointed as Chairman of the Nominating Committee. These developments ensured that EFC assumed a prominent position in the EFC, which was reinforced by the subsequent appointment of the presidents of two other EFC Member Societies (Stuart Lyon of ICorr (UK) and Amir Eliezer of CAMPI (Israel)) to the WCO BoA. I prepared minutes of the inaugural meetings of the WCO BoA and GA, and of the meetings between WCO and ICC and between EFC and NACE.

On 26th March, I visited Paris for the meeting of the EFC Board of Administrators at which I presented summaries of the meetings in Nashville, which were subsequently reproduced in the minutes. As usual, I subsequently helped the Paris Office to compile the minutes of the BoA meeting in Paris.

On 4-5 April, I participated with representatives from the EFC Congress Secretariat in Frankfurt and other from the local organising committee for EUROCORR 2008 in a visit to Edinburgh to the conference centre and to potential venues for the conference dinner. Later in the same month, and in May, I helped the Honorary Treasurer by preparing and sending out invoices to the EFC Member Societies relating to the payment of their subscriptions for 2007. More recently I have sent out reminders to those societies that had not yet paid for this year and, in a few cases, second or third reminders to those who still owe money from earlier years. On several occasions over the past six months I have met with the Honorary Treasurer to discuss with various aspects of the EFC Finances, most recently on 29th June, and 7th and 8th August..

On 22 May, I visited Don Harrop at BP in Sunbury to discuss the revision of the EFC Bye-Laws and I subsequently prepared the revised version that was discussed at the meeting of the President's Advisory Committee in Paris on 19th June. I also participated in the meeting of the EFC Strategy Group in Paris on 18th June and subsequently prepared action lists from both meetings.

At the end of May, I represented EFC at the third International Conference in Israel organised by CAMPI, the first International Member of EFC. I presented a Plenary Lecture concerned with developments in the EFC over the past ten years and judged the Poster Competition. As I have reported in my report to the General Assembly, the conference was a memorable event which was organised meticulously.

I visited Paris again on 9 July for the first meeting of the three offices of the EFC Secretariat to both review activity within the Federation and consider ways of optimising the modus operandi of the

Secretariat. This proved to be a most useful meeting which I think should be continued in future as the opportunity arises, possibly in conjunction with EUROCORR.

This month I have assisted the Paris Office with the compilation of the Working Papers for the meeting of the General Assembly to be held in Freiburg and have produced and despatched seventy bound copies to members of the STAC, BoA and EFC Member Societies and Secretariats. I am now doing likewise for the BoA Working Papers. I have also visited Don Harrop again to acquaint him with developments in the President's Advisory Committee and the Strategy Group and to discuss proposals for the proposed rolling strategic 5-year plan for EFC. I am also preparing the Working Papers for the next meeting of the STAC, and the EFC Newsletter.

Paul McIntyre
EFC Scientific Secretary
19th August 2007

EFC CALENDAR OF FORTHCOMING EVENTS

Date/venue	Conference	Contact
9-13 September 2007 Freiburg im Breisgau Germany	EUROCORR 2007 (EFC Event No. 289)	Ms. Andrea Koehl DECHEMA e.V., Theodor-Heuss-Allee 25, 60486 Frankfurt am Main, Germany Fax: ++49 69 7564 441 E-mail: eurocorr@dechema.de Website: www.eurocorr.org
9-14 September 2007 Banff, Alberta, Canada	The 58 th Annual Meeting of the ISE	International Society of Electrochemistry Avenue Vinet 19, CH-1004 Lausanne, Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: http://event07.ise-online.org
11-13 September 2007 Glasgow UK	Parsons 2007 - Power Generation Era of Climate Change (The 7 th International Charles Parsons Turbine Conference)	Paul Harris The Institute of Materials, Minerals & Mining 1, Carlton House Terrace, London SW1Y 5DB, UK E-mail: paul.harris@iom3.org Website: www.iom3.org/events
18-20 September 2007 Southampton UK	NASM 2007 (Novel Applications of Surface Modification)	Jasmina Bolfek-Radovani Institute of Physics, 76 Portland Place London W1B 1NT, UK. Fax: ++44 (0) 207470 4900 E-mail: jasmina.bolfek-radovani@iop.org Website: www.iop.org/Conferences
1-4 October 2007 Prague Czech Republic	Corrosion and Protection of Materials (EFC Event No. 294)	Ing. Eva Kalabisová SVUOM Ltd, V Šáreckém údolí 2329 164 00 Prague 6, Czech Republic Fax: ++42 0235 355854 e-mail: kalabisova@svuom.cz
7-9 October 2007 Orlando, Florida USA	Titanium 2007 (23 rd Annual Conference & Exhibition of the International Titanium Association)	Jennifer Simpson International Titanium Association 2655 West Midway Blvd., Suite 300 Broomfield, Colorado 80020, USA Fax: ++1 303 404 9111 E-mail: conference@titanium.org Website: www.titanium.org
7-12 October 2007 Washington, DC, USA	212 th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, USA Fax: ++1 609 737 2743 E-mail: ecs@electrochem.org Website: www.electrochem.org/meetings
9-11 October 2007 Paris France	ESOPE 2007 - European Symposium on Pressure Equipment	AFIAP - ESOPE 2007 92038 Paris La Défence Cedex France Fax: ++33 1 47 17 62 77 E-mail: afiap@afiap.org Website: www.afiap.org

EFC CALENDAR OF FORTHCOMING EVENTS (Continued)

Date/venue	Conference	Contact
17-18 October 2007 Shanghai, China	Valve World Asia Conference & Expo 2007	Elisa Hannan Corporate Events & Marketing Manager Valve World, KCI Publishing BV P.O. Box 396, NL-7200 AJ Zutphen The Netherlands Fax: ++31 575 511 099 E-mail: vwasia2007@kci-world.com Website: www.valve-world.net
17-19 October 2007 Stockholm Sweden	Corrosion and Corrosion Prevention in the Infrastructure (Workshop) (EFC Event No. 307)	Bertil Sandberg Corrosion and Materials Research Institute (KIMAB), Drottning Kristinas väg 48 SE-11428 Stockholm, Sweden Fax: ++46 (0)8 6741780 E-mail: bertil.sandberg@kimab.com
24-25 October 2007 Amsterdam Netherlands	Protecting the Substrate and the Environment	PRA Coatings Technology Centre 14 Castle Mews, High Street Hampton, Middlesex, TW12 2NP, UK Fax: ++44 (0) 208 870801 E-mail: n.whitehouse@pra.org.uk Website: www.pra-world.com/conferences
6-8 November 2007 Maastricht The Netherlands	Stainless Steel World 2007	Elisa Hannan Corporate Events & Marketing Manager Stainless Steel World, KCI Publishing BV PO Box 396, NL-7200 AJ Zutphen The Netherlands Fax: ++31 575 511 099 E-mail: ssw2007@kci-world.com Website: www.stainless-steel-world.net
12-14 November 2007 Tripoli Libya	The 6 th Libyancorr 2007 Conference and Exhibition	Libyan Corrosion Society Alaokaf Building, 2 nd Floor, Sidi Saaid St., Benghazi, Libya Fax. No. ++218 61 9080523 E-mail: lcs@ltnet.net Website: www.libyancorr.net
13 November 2007 Tampa, Florida USA	Corrosion Life Cycle Planning and Optimisation (ASTM Symposium)	Sean Brossia CC Technologies, Dublin, Ohio, USA E-mail: sbrossia@cctechnologies.com
14-16 November 2007 Tampa, Florida USA	7 th International ASTM/ESIS Symposium on Fatigue and Fracture Mechanics (36 th ASTM National Symposium on Fatigue and Fracture Mechanics)	Richard W. Neu Georgia Institute of Technology Atlanta, Georgia, USA Fax: ++1 404 894 0186 E-mail: rick.neu@me.gatech.edu Website: www.astm.org
21-23 November 2007 Smardzewice Poland	13 th Symposium "New Achievements in Corrosion Research and Engineering" [†] (EFC Event No. 306)	Professor Henryk Bala Department of Chemistry Częstochowa University of Technology, PL 42-200, Częstochowa, Poland Fax: ++48 34 3250602 E-mail: hbala@mim.pcz.czest.pl Website: www.symp-kor-apcs.mim.pcz.czest.pl

EFC CALENDAR OF FORTHCOMING EVENTS (Continued)

Date/venue	Conference	Contact
26-30 November 2007 Cranfield UK	Corrosion Training Programme (Course)	Short Course Office, Cranfield University Cranfield, Bedfordshire MK43 0AL, UK Fax: +44 1234 751206 E-mail: shortcourse@cranfield.ac.uk
3-7 December 2007 Denver, Colorado USA	2007 Tri-Service Corrosion Conference: “Integrating Corrosion Prevention and Control in Policy, Planning, and Programming”	Cindy Euton NACE International, 1440 South Creek Dr. Houston, Texas, 77084-4906, USA Fax: ++1 281 228 6374 E-mail: tri.service@nace.org Website: www.nace.org/triservice
3-6 February 2008 Manama, Bahrain	12 th Middle East Corrosion Conference & Exhibition	The Conference Secretariat, 12 th Middle East Corrosion Conference Bahrain Society of Engineers P.O. Box 835, Manama Kingdom of Bahrain Fax: ++943 17 729819 Website: www.mecconline.org
16-18 March 2008 New Orleans Louisiana, USA	CORROSION/2008 NACE Conference and Exhibition	Jackie Hune, NACE Headquarters 1440 South Creek Drive, Houston Texas, USA Fax: ++1 281 228 6227 E-mail: jackie.hune@nace.org Website: www.nace.org
March 17-19 2008 Foz do Iguaçu Brazil	6 th Spring Meeting of the ISE	International Society of Electrochemistry Avenue Vinet 19, CH-1004 Lausanne, Switzerland Fax: ++41 021648 39 75 E-mail: events@ise-online.org Website: http://spring08.ise-online.org
May 18-23 2008 Phoenix, Arizona, USA	213 th ECS Meeting	The Electrochemical Society 65 South Main Street, Building D Pennington, New Jersey 08534-2839, USA Fax: ++1 609 737 2743 E-mail: ecs@electrochem.org Website: www.electrochem.org/meetings
May 27-29 2008 Stockholm Sweden	12 th International Symposium on Corrosion in the Pulp and Paper Industry (12 th ISCPPI) (EFC Event No. 308)	Rolf Gubner Corrosion and Materials Research Institute (KIMAB), Drottning Kristinas väg 48 SE-11428 Stockholm, Sweden Fax: ++46 (0)8 6741780 E-mail: rolf.gubner@kimab.com
June 10-12 2008 Lviv Ukraine	Corrosion-2008 (9 th International Conference and Exhibition) (EFC Event No. 309)	Natalie Chervinska Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine, 5 Naukova Str., 79601 Lviv, Ukraine Fax: ++380 322 63 15 77 E-mail: corrosion2008@ipm.lviv.ua
7-11 September 2008 Edinburgh, Scotland	EUROCORR 2008 (EFC Event No. 299)	Institute of Corrosion Corrosion House, Vimy Court Leighton Buzzard LU7 1FG, UK Fax: ++44 (0) 1525 376690 E-mail: admin@icorr.org

EFC CALENDAR OF FORTHCOMING EVENTS (Continued)

7-12 September 2008 58th Annual Meeting of the ISE
Seville,
Spain

International Society of Electrochemistry
Avenue Vinet 19,
CH-1004 Lausanne, Switzerland
Fax: ++41 021648 39 75
E-mail: events@ise-online.org
Website: <http://event07.ise-online.org>

6-10 September 2009 EUROCORN 2009 “Corrosion: from the
Nice, Nanoscale to the Plant”

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