

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



BOARD OF ADMINISTRATORS

Budapest, Hungary

September 28, 2003

MINUTES

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MINUTES

Meeting of the Board of Administrators

of the

European Federation of Corrosion

Budapest, Hungary, September 28, 2003

Venue of meeting: **Budapest Congress Center
Jagelló út 1-3
1123 Budapest
Hungary**

Room Liszt

Date and time of meeting: **Sunday 28 September, 3.00 p.m.**

Chairman: **Mr Don Harrop (EFC President)**

Secretary: **Ms P. Bridou (Paris Office)**

EUROPEAN FEDERATION OF CORROSION

MEETING OF THE BOARD OF ADMINISTRATORS

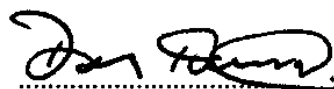
Budapest, 28 September 2003

ATTENDANCE LIST

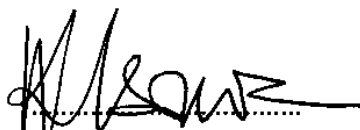
Signatures

As President of EFC :

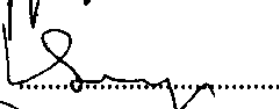
Mr. Don HARROP (United Kingdom),



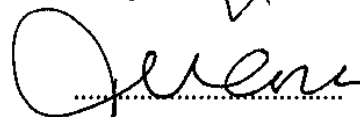
Prof. Dr. P. L. BONORA (Italy)



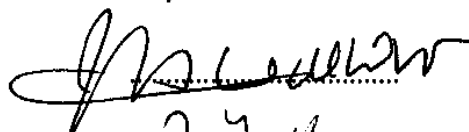
Dr. Ph. BERGE (France),



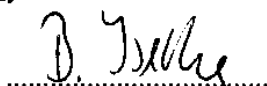
Prof. J. M. COSTA (Spain)



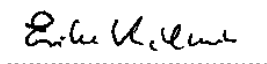
Prof. J. H. W. DE WIT (Netherlands)



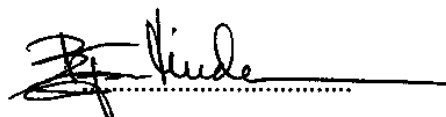
Prof. Dr. B. ISECKE (Germany)



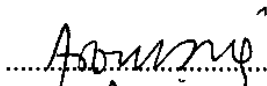
Prof. Dr. E. KÁLMÁN (Hungary)



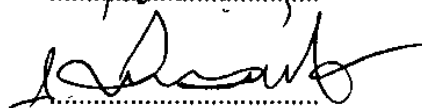
Dr. B. LINDER (Sweden)



M. A. POURBAIX (Belgium)



Dr. A. V. MURADOV (Russia)



EUROPEAN FEDERATION OF CORROSION
MEETING OF THE BOARD OF ADMINISTRATORS
Budapest, 28 September 2003

EX OFFICIO REPRESENTATIVES

Dr. C. BOOKER (United Kingdom), As Treasurer

Dr. J. VOGELSANG (Germany), As Chairman of the STAC

Dr. P. McINTYRE (United Kingdom), As Scientific Secretary

[Handwritten signatures of C. Booker, J. Vogelsang, and P. McIntyre]

GENERAL SECRETARIAT

Frankfurt Office:

Mrs. I. HONNENDORF

Prof. Dr. G. KREYSA

Dr. W. MEIER

[Handwritten signature of I. Honnendorf]

Excused

[Handwritten signature of W. Meier]

London Office:

.....

.....

Paris Office:

P. BRIDOU

.....

[Handwritten signature of P. Bridou]

GUEST(S) :

.....

.....

**EUROPEAN FEDERATION OF CORROSION
MEETING OF THE BOARD OF ADMINISTRATORS
BUDAPEST, 28 September 2003, 3.00 p.m.**

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 Report on STAC activities
- Item 3 Role of the EFC in Certification
 - 3-1 Progress on Mentor C: Project on Training and Certification
- Item 4 Liaisons with other organisations
 - 4-1 EFC/NACE Collaboration
 - 4-2 FEMS
- Item 5 Proposals for Future Organisation of EUROCORR
- Item 6 EUROCORR Series
 - 6-1 EUROCORR 2003
 - 6-2 EUROCORR 2004
 - 6-3 EUROCORR 2005
 - 6-4 EUROCORR 2006
 - 6-5 EUROCORR 2007
- Item 7 Finance
 - 7-1 Member Society Contribution Rates
 - 7-2 Honorary Treasurer's Report
- Item 8 EFC Activities and Projects
 - 8-1 Scientific Secretary's Report
 - 8-2 EFC Publications
 - 8.3 EFC Web Site
- Item 9 EFC Calendar of Events
- Item 10 Administrative Matters
 - 10-1 Opportunities for EU funding of EFC activities
 - 10-2 EFC Awards for 2003
 - 10-3 EFC Awards for 2004
 - 10-4 EFC registered office
- Item 11 Any other Business
 - 11-1 Progress on Reactivation of WP 2 on "Corrosion and Protection of Steel Structures"
 - 11-2 Election of new EFC Vice-President
- Item 12 Date and Place of next BoA

UNCONFIRMED MINUTES OF THE EFC BOARD OF ADMINISTRATORS

Item 01 Opening of the meeting

Mr. Harrop, President of the EFC and chairman of the meeting, opened the meeting and welcomed the delegates present (see attendance list).

In memory of Professor Alfred RAHMEL, who died on August 20, 2003, and Dr Jos WEBER, who died on August 16, 2002, the President requested two minutes of silence in respect of these two highly-regarded scientists. They were both closely involved in the EFC and will be sadly missed.

Item 02 Apologies for Absence

Apologies had been received from the following:

Prof. Dr. G. KREYSA, Germany,
Prof. Mario G.S. FERREIRA, Portugal, host of EUROCORR 2005.

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

The proposed agenda was approved, subject to the addition as Item 11-2 of the election of the EFC Vice-President for the period September 2003 – September 2005.

The minutes of the Frankfurt meeting (24 February 2003) were approved.

Item 2 Report on STAC Activities,

Mr Vogelsang, Chairman of STAC, reviewed progress in its activities, with emphasis on the latest meeting, which had taken place earlier in the day.

2-1 Reactivation of WP 2(Corrosion and Protection of Steel Structures)

After lengthy discussion, it had been decided that the activities of WP 2 should be undertaken by a Task Force to be led by Professor Darowicki and composed of representatives of EFC WPs with interests in the corrosion and protection of steel structures, and field applications in particular. This decision was endorsed by the BoA.

The members of STAC had been invited to participate in the first meeting of this TF, to be held on Monday 29 September in Budapest. The initial activities of the task force were to be decided during this meeting, as well as its participation in future EUROCORRs.

2-2 Contribution of EFC Budget to EUROCORRs

Mr Marcus had suggested during the STAC meeting that some of the EFC budget might be devoted to the organisation of EUROCORR, with the purpose of inviting prominent speakers. However, the BoA agreed with the President's view that EUROCORR should be self-financing and that the EFC budget should be used to provide direct support of WP activities. Mr Vogelsang reported that STAC had approved expenditure from EFC funds for two special projects from WP18 (Tribo-Corrosion) concerned with the development of test methods for erosion corrosion-wear and sliding corrosion-wear.

Item 3 Role of the EFC in Certification

3-1 Progress on Mentor-C Project on Training and Certification

The Scientific Secretary reviewed progress on the Mentor C Project, which had been summarised in Appendix 1 of the Working Papers. The mid-term review meeting had taken place in Oeiras, Portugal, during July and the representative of the Leonardo da Vinci funding agency in Brussels had declared himself well-pleased with progress on the development of CD-ROM and web-based distance learning aids for vocational training in corrosion.

Item 4 Liaisons with other organizations

4-1 EFC/NACE (National Association of Corrosion Engineers) Collaboration

The EFC/NACE Agreement for co-operation (see Appendix 2 of the Working Papers) had been signed by the EFC President in March 2003, in San Diego.

The EFC President encouraged EFC Members, who has not yet done it, to request the EFC Membership Card, which will be necessary to take advantage of the EFC/NACE Agreement.

4-2 FEMS (Federation of European Materials Societies)

The MatNet project, administered by FEMS, aimed to establish a lively network to promote and facilitate communication and cooperation between the ten participating societies, of which the EFC is one.

EFC had proposed the formation of a network concerned with materials for waste incinerators, led by Prof. H. J. Grabke. Preliminary meetings had taken place and plans had been made to hold a MatNet workshop on the topic in May 2003.

However, during March, Prof. Grabke had learned from the FEMS Secretary, Peter Schepp of DGM, that there was insufficient money to provide full funding for the planned workshop, which had, therefore, been cancelled. The BoA agreed that this was a very disappointing outcome, particularly since the necessary support for the EFC project had been approved more than three years earlier.

Item 5 **Proposals for Future Organisation of EUROCORN**

Following previous discussions about the future organisation of EUROCORN, during the BoA meetings in Granada last September and in Frankfurt during February, an action had been placed on the EFC President to work with the Frankfurt Office to develop proposals for the establishment of an EFC Congress Secretariat based at the Frankfurt Office (see minutes of Frankfurt BoA meeting, Item 4-1).

The “Proposal for the Future Organisation of EUROCORN”, included in Appendix 4 of the Working Papers, was discussed during the BoA meeting, taking account of comments by Dr Rickinson of the London Office, which were conveyed by the Scientific Secretary. It was proposed that the BoA should accept the proposal subject to the following conditions:

- it will be implemented for 3 years initially, beginning in 2007;
- each year, the EFC Congress Secretariat and the host society will finalise all details and specific conditions in a contract which must receive the approval of all 3 EFC Secretariats;
- for each event the level of support provided by the Congress Secretariat will be appropriate to the needs of the host society;
- the Congress Secretariat will retain control of the finances in order to be in a position to underwrite the event;
- at three-yearly intervals the situation will be reviewed and the rules will be revised, if necessary;
- the proposal will be submitted to the General Assembly for approval.

Action 1: The three EFC Secretariats to finalise the proposals for the future organisation of EUROCORN for approval at the next meeting of the BoA. The proposals are then to be submitted for final approval by the General Assembly in Nice.

Item 6 **EUROCORN Series**

6-1 *EUROCORN 2003*

Mrs Kálmán announced that approximately 400 participants, including students and one-day registrants, were expected to participate in EUROCORN 2003, but it was too early to predict the financial outcome of the event.

Nanocorrosion had been identified as a ‘hot topic’ for EUROCORN 2003.

ANTI-KOR (Russia) had kindly endowed a prize of €250, and a diploma, for the best young author in the session on Corrosion in Oil and Gas Production, and this would be repeated in future years.

Support amounting to €20,000 had been obtained from the EC.

6-2 **EUROCORR 2004**

EUROCORR 2004 will be held in France, in the Nice Acropolis Congress Centre, on **12 - 16 September 2004**, and co-organised by both of the French EFC Member Societies, CEFRA COR and SCI. The general theme will be “**Prediction and Modelling of Corrosion**”.

Preliminary arrangements for EUROCORR 2004 had been published in the Second Announcement and Call for Papers, which was distributed to the BoA Members and would be available to all EUROCORR 2003 participants (see Appendix 1).

20 sessions with 9 workshops focussing on specific topics had been proposed. The organising committee had decided to contract the production of the CD-ROM of the proceedings to DECHEMA. This would guarantee consistency with future EUROCORR proceedings and facilitate the search for references and scientific topics.

The International Scientific Committee for EUROCORR 2004 was scheduled to be held on the afternoon of Tuesday 30 September.

6-3 **EUROCORR 2005**

EUROCORR 2005 will be held in Lisbon, on **4 - 8 September 2005**.

In the absence of Mr. M. G. S. Ferreira, Mrs A.M. SIMOES, presented the proposals for EUROCORR 2005 in Lisbon (see Appendix 2). M. Berge was surprised not to see any topics in the programme relating to the activities of Working Party 4 (Nuclear Corrosion). Mrs A.M. SIMOES had been under the impression that WP4 was no longer active but, in fact, there had just been a change of chairman. This mistake would be corrected in the next Call for Papers.

EUROCORR 2005 had originally been scheduled to take place in the Lisbon Congress Centre, but for budgetary considerations, the Organising Committee had decided to hold the meeting in the Technical University.

The question was raised of the role of INETI, the only Portuguese Member Society of EFC, in the organisation of the event and it was noted that the contractual arrangement between EFC and the Portugueses Society had not been signed yet.

It was agreed that these problems should be resolved before the end of EUROCORR 2003.

Action 2: EFC President, Vice-President and Scientific Secretary to resolve with Mrs Simoes the situation relating to EUROCORR 2005 no later than 2nd October 2003*.

*(*Note: Later in the week, the situation relating to EUROCORR 2005 was clarified in further discussion with Mrs SIMOES and it was confirmed that the event would take place in Lisbon, as originally planned).*

6-4 *EUROCORR 2006*

Serbia had withdrawn its proposal to hold EUROCORR 2006, and no representative from Turkey was present during the meeting.

This meant that the only remaining proposals were from the UK (UMIST) and The Netherlands (NCC).

Both presentations were judged to be very attractive by the BoA. However, the majority decision was to hold EUROCORR 2006 in The Netherlands, probably in Maastricht, and organised by NCC, which will be celebrating its 50th anniversary in 2006.

6-5 *EUROCORR 2007*

The Scientific Secretary reported that only one bid to host EUROCORR 2007 had been received to date, from Germany.

Members were reminded that bids to host EUROCORR 2007 should be submitted in writing to the Scientific Secretary **by 31st December 2003**.

Item 7 Finance

7-1 *Member Society Contribution Rates*

The proposal to adopt single contribution rate for all EFC Member Societies was discussed. It was decided that a prudent course of action would be to retain for the time being the €1500 rate for those already paying it, but to harmonise all other members on the €1000 rate by 2008. In the transition period, 2005-2008, yearly increases in the contribution to be paid will be applied, with flexibility for the third-tier countries (currently paying 150 €). An appropriate single level of EFC Member Society contribution rate will be established later in order to meet the EFC's budgetary requirements.

Action 3: EFC Honorary Treasurer to draft proposals for progressive increases in the contribution rates to be paid by third-tier countries between 2005 and 2008 for approval by the BoA.

The detailed proposals will be submitted to the General Assembly for approval in 2004 and implementation the following year.

Mr Muradov indicated that ANTIKOR would be more than happy to pay the full €1500 contribution rate with immediate effect and asked the Honorary Treasurer to send the invoice for 2003 as soon as possible.

Action 4: Honorary Treasurer to invoice ANTIKOR for €1500 in 2003.

7-2 *Honorary Treasurer's Report*

The EFC Honorary Treasurer presented his Financial report (see Appendix 6 of the Working Papers). He reported that Hungary was understood recently to have paid its outstanding subscription for 2002*. Contributions were still outstanding for 2002 from Denmark, Slovenia and Azerbaijan. Mrs Honndorf stated that she had tried to establish contact with the society in Azerbaijan, so far without success.

(*Note: Ukraine and Serbia have since paid their outstanding contributions for 2002 also).

Mr Booker reported that the budget proposed for 2004 included an increase in support for the EFC working parties from €4100 to €9000, based on the expectation of an increased levy from EUROCORR. It also included a new item relating to the provision to NACE of two complimentary registrations to EUROCORR, estimated at €1000 in total. The anticipated outcome would be a deficit of €550 for the year.

The budget for 2004 was adopted with the abstention of the SCI representative, who indicated that he would delay his agreement until he had received the detailed justification of the IOM administration charge that he had requested at the previous meeting.

Action 5: The action on the Honorary Treasurer to provide detailed information about the IoM administration charge was continued.

Item 8 EFC Activities and Projects

8-1 Scientific Secretary's Report

The Scientific Secretary presented his report covering activity since the last meeting of BoA in Frankfurt on 24 February (see Appendix 7 of the Working Papers).

BoA approved the Scientific Secretary's Report.

8-2 EFC Publications

Appendix 8 of the Working Papers presented the new titles currently in preparation in the EFC series.

8-3 EFC Web Site

Working Party Chairmen are requested to send information to the DECHEMA to up date the EFC web Site, including the minutes of the Working Party meetings where confidential information could be eliminated.

Mr Muradov offered to have the EFC website translated into Russian and to host it on the ANTIKOR website. This offer was gratefully accepted.

Action 6: Mr Muradov to have the EFC website translated into Russian and to host it on the ANTIKOR website.

Item 9 EFC Calendar of Events

The Scientific Secretary introduced an update of forthcoming events in the EFC Calendar, which now includes important non-EFC events, as shown in Appendix 9 of the Working Papers.

Item 10 Administrative Matters

10-1 Opportunities for EU funding of activities

During the last BoA meeting in Frankfurt, Mr Meier advised the BoA that the ERA-Net scheme, which is part of the EC's 6th Framework Programme, could provide a good opportunity for the EFC Member Societies to obtain support for participation in EFC activities such as working party meetings and workshops. Mr Meier reported that an EFC proposal had been submitted to the EC during May 2003 but that the EC had requested more detailed information. He undertook to revise the proposal and to re-submit it before the next cut-off date (24th March 2004).

Action 7: Mr Meier to revise and re-submit the EFC proposal for EC funding under the ERA-Met scheme before 24th March 2004.

It was agreed that EFC Scientific Secretary and Mr Meier should both look out for possible sources of funding for the EFC under the EC's 7th Framework Programme.

Action 8: Mr McIntyre and Mr Meier to explore possibilities for EFC funding under the 7th Framework Programme.

10-2 EFC Awards for 2003

The winners of the three awards, which were to be presented during EUROCORR 2003 were announced by the Chairmen of the respective juries, as follow:

- the European Corrosion Medal, Jury Chairman Mr. J. Vogelsang, winner Prof. Pier Luigi Bonora;
- the Kurt Schwabe Prize, Jury Chairman Mrs. Kálmán, winner Dr Mary P. Ryan;
- the Martí i Franqués Medal, Jury Chairman Mr. Costa, winner Mr. Athur Kenneth Tiller.

10-3 EFC Awards for 2004

The Cavallaro Medal, which is usually awarded every two years by the University of Ferrara, is scheduled for presentation at EUROCORR 2004 in Nice.

The STAC had elected the next Cavallaro Award Jury as follows:

Prof. José M. COSTA, Spain,
 Prof. ISECKE, Germany,
 Prof. Björn LINDER, Sweden, as EFC Chairman,
 Dr. Joerg VOGELSANG, Germany, as STAC Chairman,
 Dr Fabrizio ZUCCHI, Italy, as Jury Chairman.

10-4 EFC registered office

The action placed on the EFC President at the previous meeting to inform the official journal about the transfer of the EFC's registered office from Branche Belge to CEBELCOR was continued.

Action 9: Mr Harrop to inform Le Moniteur belge about the transfer of the EFC's registered office to CEBELCOR.

Item 11 Any other Business

11-1 Progress on Reactivation of WP 2 on “Corrosion and Protection of Steel Structures”

See agenda Item 2-1.

11-2 Election of a new EFC Vice-President

The President announced the need to elect a new EFC Vice-President to succeed Mr Linder, who would soon be assuming the EFC Presidency. Mr Pourbaix was proposed and elected as EFC Vice-President for the next two years, during which a review will be undertaken of the division of business responsibilities, and appointment procedures for future Presidents and Vice-Presidents.

Action 10: EFC President to implement a review of the division of business responsibilities, and appointment procedures for future EFC Presidents and Vice-Presidents.

Item 12 Date and Place of next BoA

The next BoA meeting will be held on **Monday 22 March, 10h30** - at Paris Office – Room 354 – SCI – 28, rue Saint-Dominique, F-75007 PARIS.

**ACTION LIST FROM THE MEETING OF THE EFC BOARD OF ADMINISTRATORS
HELD IN BUDAPEST ON SEPTEMBER 28 2003**

Action 1: The three EFC Secretariats to finalise proposals for the future organisation of EUROCORR for approval at the next meeting of the BoA. The proposals are then to be submitted for final approval by the General Assembly in Nice.

Action 2: EFC President, Vice-President and Scientific Secretary to resolve with Mrs Simoes the situation relating to EUROCORR 2005 no later than 2nd October 2003.

Action 3: EFC Honorary Treasurer to draft proposals for progressive increases in the contribution rates to be paid by third-tier countries between 2005 and 2008 for approval by the BoA.

Action 4: Honorary Treasurer to invoice ANTIKOR for €1500 in 2003.

Action 5: The action on the Honorary Treasurer to provide detailed information about the IoM administration charge was continued.

Action 6: Mr Muradov to have the EFC website translated into Russian and to host it on the ANTIKOR website.

Action 7: Mr Meier to revise and re-submit the EFC proposal for EC funding under the ERA-Met scheme before 24th March 2004.

Action 8: Mr McIntyre and Mr Meier to explore possibilities for EFC funding under the 7th Framework Programme.

Action 9: Mr Harrop to inform Le Moniteur belge about the transfer of the EFC's registered office to CEBELCOR.

Action 10: EFC President to implement a review of the division of business responsibilities, and appointment procedures for future EFC Presidents and Vice-Presidents.

APPENDICES

EUROCORR 2004

European Corrosion Conference

Long Term Prediction & Modelling of Corrosion

12 - 16 September 2004

Palais des Congrès Acropolis

NICE, France

European Federation of Corrosion
EFC event No. 266



Second Announcement and Call for Papers

Chairman : Philippe Marcus

eurocorr2004@scifrance.org

www.scifrance.org/congres/eurocorr2004

Location

Nice, fifth town in France with 345,674 inhabitants, is the focal point of the French Riviera, so often the subject of paintings and photographs. Very proud of its turbulent past, the city preserves its extraordinary artistic and cultural heritage (Greek, Roman, Italian, Russian, English,...), and its own language, "Nissart". Renowned also for its culinary art, it celebrates the traditional feasts, such as Carnival, Battles of flowers... Land of tourism, culture and leisure, it is also a fertile ground for innovation, scientific research, universities (Sophia Antipolis' proximity), and exchange.

Nice has the advantage of an exceptional microclimate. In September, the weather is usually sunny, and temperatures are typically around 21°C.

Venue

The Conference will be held at the Palais des Congrès Acropolis, located in the centre of Nice, within walking distance of many hotels.

Access routes and links

By air : Nice International Airport (direct flights from over 27 countries worldwide).

By train : the T.G.V. (high-speed train) links Paris to Nice in 5½ hours.

By road : the city is linked by the A8 to Aix-en-Provence. It takes approximately 9 hours to drive from Paris to Nice by motorway.



EUROCORR 2004 will be a forum for international exchange of information about all aspects of corrosion and corrosion protection, with emphasis on **Long Term Prediction and Modelling of the Corrosion Behaviour of Metallic Materials**. The scientific and technical program will consist of plenary and keynote lectures, oral presentations in parallel sessions and poster contributions.

Call for Papers

Oral and poster papers related to the described sessions and workshops are solicited.

Abstracts should be sent electronically via:

www.scifrance.org/congres/eurocorr2004

Instructions for the preparation and submission of abstracts are available on the web site. An abstract template can be downloaded.

Abstract Submission Deadline

January 16, 2004

Exhibition

An exhibition will be held during the Conference: the exhibition, poster sessions and coffee breaks will take place in the same hall, close to the conference rooms. Technical details, exhibition fees, and the exhibition booth reservation form can be obtained via:

www.scifrance.org/congres/eurocorr2004

Sessions and Workshops

Workshops (indicated in green) deal with topics that are complementary to or more specific than the topics of the Working Parties.

- 1- Corrosion and Scale Inhibitors in Industrial Environments
(organisers: G. Schmitt, F. Moran)
- 2- Local Probe Techniques for Corrosion Research
(organisers: R. Oltra, R. Akid, V. Maurice, Ph. Marcus)
- 3- Corrosion by Hot Gases and Combustion Products with Emphasis on High-Temperature Corrosion in the Chemical and Petrochemical Industries
(organisers: M. Schütze, F. Ropital)
- 4- Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems (organisers: D. Crusset, D. Féron, J.-M. Gras, D.D. Macdonald)
- 5- Environment Sensitive Fracture, Corrosion Deformation Interactions
(organisers: J.-M. Olive, J.-M. Boursier, D. Delafosse)
- 6- Surface Science and Mechanisms of Corrosion and Protection (organiser: Ph. Marcus)
- 7- Corrosion Education and Computer Applications
(organiser: J.M. Costa)
- 8- Physico-Chemical Methods of Corrosion Testing
(organiser: J.H.W. de Wit)
- 9- Marine Corrosion (organiser: B. Espelid)
- 10- Biofilms and Materials in Natural Environments
(organisers: R. Gubner, B. Tribollet)
- 11- Corrosion of Steel in Concrete
(organisers: J. Mietz, G. Taché)
- 12- Marine Corrosion Workshop on Copper and Aluminium Alloys in Seawater
(organisers: B. Espelid, D. Féron, G. Ferrari, M. Jasner)
- 13- Corrosion in Oil and Gas Production (organiser: S. Olsen)
- 14- Coatings (organiser: L. Fedrizzi)
- 15- Corrosion in the Refinery Industry (organiser: F. Ropital)
- 16- Cathodic Protection (organiser: M. Roche)
- 17- Corrosion in the Automotive Industry
(organiser: F. Blekkenhorst)
- 18- Tribocorrosion – Industrial Needs and Scientific Insights
(organisers: J.-P. Célis, P. Ponthiaux, S. Mischler, M. Stack)
- 19- Heritage Conservation / Corrosion of Archaeological Objects (organisers: Ph. Dillmann, G. Béranger)
- 20- Non Destructive Techniques and Corrosion Monitoring (organiser: Ph. Berge)



International Scientific Committee

Ph. Marcus (Co-Chairman, F),

J. Vogelsang (Co-Chairman, CH),

I. Frateur (Scientific Secretary, F),

E. Aragon (F), G. Béranger (F), Ph. Berge (F), F. Blekkenhorst (NL), W. Bogaerts (B), J.-P. Célis (B), J.M. Costa (E), J.H.W. de Wit (NL), B. Espelid (N), L. Fedrizzi (I), D. Féron (F), J. Galland (F),

R. Gubner (S), D. Harrop (UK), F. Ropital (F), P. McIntyre (UK),

J. Mietz (D), J.-P. Millet (F), F. Moran (F), J.-M. Olive (F), S. Olsen (N), P. Ponthiaux (F), M. Roche (F), G. Schmitt (D), M. Schütze (D), G. Taché (F).

Local Organising Committee

EUROCORR 2004 will be organised by CEFRACOR and SCI.

M. Pierre (Chairman, F),

Ph. Berge (F), P. Bridou (F), H. Founas (F), I. Frateur (F), G. Pinard-Legry (F), J.-P. Dal Pont (F).



Deadlines

January 16, 2004 Deadline for abstract submission

March 31, 2004 Notification of acceptance of oral / poster papers to authors

May 28, 2004 Deadline for submission of the manuscripts for the proceedings

June 15, 2004 Early registration fees



Accommodations & Social Program

The information will be available on the web site.

Registration

All participants are kindly requested to register online via:

www.scifrance.org/congres/eurocorr2004

Registration fees (provisional)

Please note that early registration fees are available until June 15, 2004.

	Before June 15, 2004	After June 15, 2004
Regular participant	720 €	840 €
Student ^{1,2}	360 €	420 €
Daily registration ¹	240 €	300 €

VAT is included in the indicated fees (19.6% VAT).

The registration fees include:

- admission to all Conference Sessions, to the Poster Sessions, and to the Exhibition,
- reception, coffee breaks, and conference dinner,
- book of Abstracts and Proceedings (CD-ROM).

¹Registration fees do not include the conference dinner.

²A photocopy of the valid student card must be attached.



Nice (F), 12-16 September 2004

**Workshop on
"Local Probe Techniques for Corrosion
Research"**

Scope and objectives of the workshop

In situ electrochemical microprobes are essential to investigate mesoscopic aspects of localised corrosion and high resolution *in situ* scanning probe microscopy can be used for the investigation of corrosion at the nanometer-scale. The objectives of this workshop will be to provide:

1. A forum for the discussion of novel local *in situ* probe techniques, electrochemical scanning probes (SRET, SVET, SKP, SCEM) and other promising chemical probes (MicroRaman Spectroscopy, optodes, SNOM), used to assess corrosion processes.
2. A focal point for researchers within the EU and beyond to identify research themes/activities and to discuss the development of *in situ* near field nanoprobes (EC-STM, EC-AFM) in the emerging field of nanocorrosion.
3. Access to current commercial systems via an exhibition of suppliers.

Organisers :

Roland Oltra, CNRS, Université de Bourgogne (France)
Robert Akind, University of Sheffield (UK)
Vincent Maurice, CNRS, ENSCP (France)
Philippe Marcus, CNRS, ENSCP (France)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM). In addition, it is planned to submit the papers for publication (after review) in a **special issue of "Corrosion Engineering, Science and Technology"** (formerly "British Corrosion Journal").

Abstracts should be submitted electronically to CEFRACOR via:
www.scifrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see EUROCORR 2004 Second Announcement and Call for Papers.



Nice (F), 12-16 September 2004

**Workshop on
"Corrosion by Hot Gases and Combustion
Products with Emphasis on High-
Temperature Corrosion in the Chemical and
Petrochemical Industries"**

Scope and objectives of the workshop

The aim of this workshop will be to exchange research results and expertise on the high temperature degradation of materials under conditions found in the chemical and petrochemical industries.

The following items will be addressed:

- corrosion mechanisms at high temperature including sulphidation, carburisation, hydrogen degradation, chlorination, acid attack (e.g. by naphthenic acids, ...) and corrosion in other atmospheres,
- failure cases and feed back of experience,
- corrosion resistant materials and coatings,
- monitoring of high temperature corrosion.

The workshop will also focus on the corrosion challenge of future conditions in the chemical and petrochemical industries.

Organisers :

Michael Schütze, Dechema e.V. (Germany), Chairman of WP3 of the EFC
François Ropital, IFP (France), Chairman of WP15 of the EFC

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM). In addition, it is planned to submit the papers for publication (after review) in a **special issue** of the European Federation of Corrosion series ("**EFC Publications**").

Abstracts should be submitted electronically to CEFRACOR via:
www.scifrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see EUROCORR 2004 Second Announcement and Call for Papers.



Nice (F), 12-16 September 2004

**2nd International Workshop on
"Prediction of Long Term Corrosion
Behaviour in Nuclear Waste Systems"**

14 – 15 September 2004

Scope and objectives of the workshop

The planned duration of isolation of High Level Radioactive Waste (HLRW) from the ecosphere is of the order of 10,000 years or even more, which is further into the future than recorded human history is in the past. The reliable prediction of container degradation rate and engineering barrier integrity over this extended period represents one of the greatest scientific and technical challenges that the world has had to face. Clearly, the reliability and the viability of integrity predictions are of paramount importance in assuring the public that safe disposal can be achieved. These issues were explored during the first International Workshop held in Cadarache (F) in 2001 (26th-29th November). With the goal of promoting scientific and technical exchanges, this second International Workshop will address the main items related to the long term corrosion behaviour, with emphasis on:

- Research and development programmes
- Laboratory testing and *in situ* experimentation
- Historical and archaeological analogues, in conjunction with the workshop on that subject
- Modelling and fundamental issues

Organisers :

Didier Crusset, ANDRA (France)
Damien Féron, CEA (France)
Jean-Marie Gras, EDF R&D (France)
Digby D. Macdonald, Pennsylvania State University (USA)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM). In addition, it is planned to submit the papers for publication (after review) in a **special issue of CEA/ANDRA Review on Nuclear Materials**.

Abstracts should be submitted electronically to CEFRACOR via:
www.scifrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see EUROCORR 2004 Second Announcement and Call for Papers.



Nice (F), 12-16 September 2004

**Workshop on
"Environment Sensitive Fracture"
and
"Corrosion - Deformation Interactions, CDI
2004"**

Scope and objectives of the workshop

The degradation of engineering materials by stress corrosion cracking and corrosion fatigue stems from the synergistic effects of local plasticity and electrochemical corrosion. The first two international conferences on Corrosion - Deformation Interactions (CDI '92 - Fontainebleau, France and CDI '96 - Nice, France) yielded a vast consensus on the importance of these interaction mechanisms at the scale of crystal defects. Such local interactions are also liable to several forms of hydrogen damage, which were reviewed during the joint conference on Hydrogen Effects on Materials Behaviour and Corrosion Deformation Interactions (H-CDI) held during September 2002 in Moran, Wyoming.

This session is aimed at gathering state-of-the-art contributions in the field of Corrosion - Deformation Interactions, with particular emphasis on :

- Quantitative experimental studies of CDI mechanisms at the scale of the microstructure, either on model or engineering material / solution systems,
- Efficient strategies for incorporating elementary damage mechanisms in meso / macro scale models or simulations,
- The design of accelerated test procedures on a physical basis, making use of the concept of Corrosion - Deformation Interactions and related mechanisms.

Organisers : WP5 of the EFC

Jean-Marc Olive, CNRS (France)
Jean-Marie Boursier, EDF (France)
David Delafosse, ENSMSE (France)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM).

Abstracts should be submitted electronically to CEFRACOR via:
www.scifrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see the EUROCORR 2004 Second Announcement and Call for Papers, and web site.



Nice (F), 12-16 September 2004

**Workshop on
"Biofilms and Materials in Natural
Environments"**

Scope and objectives of the workshop

The workshop is intended to get together researchers from different specialisms (microbiology, materials, electrochemistry, surface analysis) and from different backgrounds (industry, university) to establish a better understanding of this interdisciplinary field.

Emphasis will be given to the following topics:

- Surface modification to confer high resistance to soiling (fouling, biofouling, scaling) and/or better cleanability
- Characterisation of redox properties of biofilms
- Early stages of biofilm formation
- Monitoring
- Electrochemical interaction between materials and living environments (MIC, scale deposits...)
- Surface analysis at the micro- and nano-scale in natural environments
- Biomaterials
- Modelling

New advances, from fundamental aspects to applications, will be considered for each topic.

Organisers:

Rolf Gubner, Swedish Corrosion Institute, Chairman of WP10 of the EFC
Bernard Tribollet, CNRS, Université Paris 6 (France)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM). In addition, it is planned to submit extended papers for publication (after review) in a **special issue** of the European Federation of Corrosion series ("**EFC Publications**").

Abstracts should be submitted electronically to CEFRACOR via:
www.sciFrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see the EUROCORR 2004 Second Announcement and Call for Papers, and web site.



Nice (F), 12-16 September 2004

**"Marine Corrosion Workshop on
Copper and Aluminium Alloys in Seawater"**

Scope and objectives of the workshop

The **Marine Corrosion Working Party** of the EFC will organise, within EUROCORR 2004, an international workshop on the behaviour of copper and aluminium alloys in natural and treated seawater.

One of the major objectives of this "**Marine Corrosion Workshop on Copper and Aluminium Alloys in Seawater**" is to contribute evidence and to assemble the results of research and development on these alloys for seawater applications during recent years.

The workshop will bring together scientists and engineers involved in the behaviour of copper and aluminium in seawater, with particular emphasis on Long Term Behaviour and Testing, and on Mechanisms and Modelling.

The workshop will include keynote lectures to give an overview, submitted and invited papers, and both oral and poster presentations.

Organisers:

Bård Espelid, DNV (Norway), Chairman of WP9 of the EFC
Damien Féron, CEA (France)
Gabrielle Ferrari, TNO (The Netherlands)
Mansfred Jasner, consultant to KME (Germany)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM). In addition, it is planned to submit the papers for publication (after reviewing) in a **special issue** of the European Federation of Corrosion series ("**EFC Publications**").

Abstracts should be submitted electronically to CEFRACOR via:
www.sciFrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see EUROCORR 2004 Second Announcement and Call for Papers.



Nice (F), 12-16 September 2004

**Workshop on "Tribocorrosion:
Industrial Needs and Scientific Insights"**

14 - 15 September 2004

On the first day invited speakers will present the state-of-the-art on tribocorrosion in industrial and living systems. During the second day, short presentations will be made in combination with poster sessions. An award for the best poster will be presented during the closing session.

Contributions are welcome on the following topics :

Tribocorrosion in industrial systems

- Case studies (automotive, chemical, marine, and microelectronics industries).
- Basics (mechanisms and modelling) and technological tests (laboratory and field experience and standards).
- Prevention, monitoring and environmental aspects (coatings, paints, lubrication, cathodic protection, pollution).

Tribocorrosion in living systems

- Case studies (dentistry, orthopaedics, food industry, biological sludges, bio-lubricants and bio-systems).
- Basics (mechanisms and modelling) and technological tests (laboratory and field experience and standards).
- Prevention, monitoring and biological aspects (coatings, lubrication, bio-compatibility).

Organisers :

Jean-Pierre Celis, Katholieke Universiteit Leuven (Belgium)
Pierre Ponthiaux, Ecole Centrale Paris (France)
Stefano Mischler, EPFL-Lausanne (Switzerland)
Margaret Stack, University of Strathclyde (Great-Britain)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM). In addition, it is planned to submit the papers for publication (after review) in a **special issue of Tribology International**.

Abstracts should be submitted electronically to CEFRA COR via:
www.scifrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see EUROCORR 2004 Second Announcement and Call for Papers.



Nice (F), 12-16 September 2004

**Workshop on
"Heritage Conservation/Corrosion of
Archaeological Objects"**

14 September 2004

Scope and objectives of the workshop

Archaeological artefacts can be exposed to various environments while buried. This leads to various forms of corrosion that are sometimes complex to study and understand. Nevertheless, the study of such complex systems is of great importance and relates to several applications:

- conservation of archaeological objects that are of intrinsic value for heritage conservation,
- search for information from the structure of corrosion products about the manufacture and use of objects,
- understanding of long term corrosion phenomena in order to help prediction of the behaviour of similar contemporary materials used, for example, in long term waste storage projects (part of this workshop will be held in conjunction with the one dedicated to "Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems").

These various aims and the different materials constituting the archaeological artefacts concern several communities and lead to complementary approaches towards corrosion. Unfortunately, there is not often the opportunity to juxtapose, compare, and share experiences of these approaches.

One of the aims of this workshop is to promote a meeting of the different scientific communities that work on subjects linked with the corrosion of various heritage artefacts. All materials will be considered (metal, glass, etc.).

Organisers :

Philippe Dillmann, CEA (France)
Gérard Béranger, UTC (France)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM).

Abstracts should be submitted electronically to CEFRA COR via:
www.scifrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see EUROCORR 2004 Second Announcement and Call for Papers.



Nice (F), 12-16 September 2004

**Workshop on
"Non Destructive Techniques and Corrosion
Monitoring"**

Scope and objectives of the workshop

Many different Non Destructive Techniques have been developed to detect corrosion degradation of industrial components and to follow its evolution. The multiple aspects of corrosion, thinning, pitting, cracking... necessitate the use of a large variety of techniques, depending on the type and localisation of degradation. Ultrasonic testing, Eddy Current, X-rays, and acoustic emission have been developed and improved to address with more accuracy and efficiency the development of corrosion.

A previous Congress on "CND and Corrosion" (NDT) (Cofrend Reims 2001) clearly showed that close collaboration between Corrosion Engineers and NDT Inspectors is absolutely needed to detect and monitor degradation by corrosion.

EUROCORR 2004 will provide a new opportunity to strengthen the technical contacts between corrosion engineers and scientists and the NDT world.

Descriptions of new NDT techniques, which are, or can be applied to corrosion degradation, are especially welcome in this session.

Organisers :

Ph. Berge, CEFRACOR / SCI (France)

The papers presented at this workshop will be published in the **Proceedings** of EUROCORR 2004 (CD-ROM).

Abstracts should be submitted electronically to CEFRACOR via:

www.scifrance.org/congres/eurocorr2004.

Deadlines, venue and fees: see **EUROCORR 2004
Second Announcement and Call for Papers.**

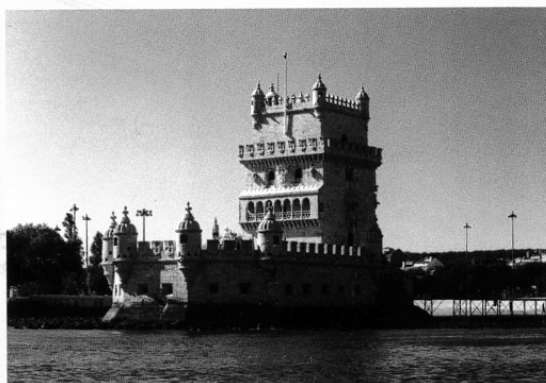
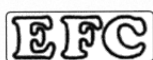
First Announcement

EUROCORR 2005

European Corrosion Congress

European Federation of Corrosion

Event n.º 273



Corrosion Control for Sustainable Development

4 - 8 September 2005

Lisbon, Portugal



Sociedade Portuguesa de Materiais



INTRODUCTION

EUROCORR is probably the most important event in Europe and a reference around the world on the subjects of corrosion and protection.

Covering a large number of topics on the areas of corrosion science and corrosion protection technology, EUROCORR 2005 will focus on "Corrosion Control for Sustainable Development" and will have a hot topic on "Corrosion Control in the Aeronautical Industry". Meetings of the EFC Working Parties will take place in parallel with the sessions of oral and poster presentations.

We invite you to come to Portugal and participate both in the congress and in the technical exhibition.

SCIENTIFIC SESSIONS

- A. Corrosion and Scale Inhibition
- B. Corrosion and Protection of Steel Structures
- C. Corrosion by Hot Gases and Combustion Products
- D. Environment Sensitive Fracture
- E. Surface Science and Mechanisms of Corrosion and Protection
- F. Corrosion Education and Computer Applications
- G. Corrosion Testing
- H. Marine Corrosion
- I. Microbial Corrosion
- J. Corrosion in Concrete
- K. Corrosion in Oil and Gas Production
- L. Tribo-Corrosion
- M. Coatings
- N. Corrosion in the Refinery Industry
- O. Cathodic Protection
- P. Automotive Corrosion
- Q. Corrosion Control in the Aeronautical Industry

LANGUAGE

English will be the official language of the conference.

PUBLICATIONS

A book of abstracts as well as the proceedings on CD-ROM will be provided on-site.

EXHIBITION

A Technical Exhibition will be organized, allowing manufacturers and users of materials, instruments, software and publications to contact and exchange information. Potential exhibitors should contact the Congress Secretariat for specific information.

DEADLINES

15 November 2004 Submission of Abstracts
15 February 2005 Notification of acceptance to authors
15 May 2005 Submission of full manuscripts

LOCATION

Lisbon, capital of Portugal for more than 700 years, stands by the estuary of the Tagus River and the Atlantic Ocean, on the westernmost limit of Europe. The city is favoured by a mild climate, with temperatures typically in the range 20-25°C during daytime in the beginning of September.

SOCIAL PROGRAMME

A social programme will be organized for the registered participants and accompanying persons, including a welcome reception and a congress dinner.

A large variety of sightseeing tours for accompanying persons will also be available.

CONGRESS SECRETARIAT

EUROCORR 2005
c/o Top Atlântico Operated by TopTours
Congress Department
Att. Mr. Vitor Alves
Rua Luciano Cordeiro, 116
1050-140 Lisboa, Portugal
Ph.: (+351) 213 169 802
Fax: (+351) 213 525 285
e-mail: lisboa.congress@topatlantico.com
Congress Website: <http://congress.topatlantico.com/eurocorr2005>

INTERNATIONAL SCIENTIFIC COMMITTEE

M.G.S. Ferreira (*Portugal*): Co-Chairman
Chairman of STAC (EFC): Co-Chairman
P. McIntyre (EFC) – Scientific Secretary
F. Blekkenhorst (*The Netherlands*)
J.-P. Celis (*Belgium*)
J.M. Costa (*Spain*)
B. Espelid (*Norway*)
L. Fedrizzi (*Italy*)
R. Gubner (*Sweden*)
P. Marcus (*France*)
J. Marat-Mendes (*Portugal*)
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A. M. Simões

EUROCORR 2005
4 - 8 September, Lisboa, PORTUGAL

Application Form

European Corrosion Congress
Email: lisboa.congress@topatlantico.com
Website: <http://congress.topatlantico.com/eurocorr2005>

Family Name _____

First Name _____

Title _____

Institution/Company _____

Address _____

Zip Code _____ Town _____

Country _____

Phone _____ Fax _____

E-mail _____

☐ I would like to receive further information on EUROCORR 2005.

☐ Please send me information regarding the exhibition

☐ I intend to participate in EUROCORR 2005.

☐ I intend to submit a paper as:

☐ poster ☐ oral presentation

Tentative title: _____

Session: _____

Other people that may be interested in **EUROCORR 2005**
(name and e-mail address)

(photocopies of this form can be used if necessary)

EUROCORR 2005
4 - 8 September, Lisboa, PORTUGAL

Top Atlântico Operated by TopTours
Congress Department
Att. Mr. Vitor Alves
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1050-140 Lisboa, Portugal