

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



BOARD OF ADMINISTRATORS

London, UK

September 12, 2000

MINUTES

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MINUTES

Meeting of the Board of Administrators

of the

European Federation of Corrosion

London, UK, September 12, 2000

Venue of meeting: **Queen Mary and Westfield College
Mile End Road
London**

Date and time of meeting: **September 12, 5:30 pm**

Chairman: **Dr Philippe Berge (EFC President)**

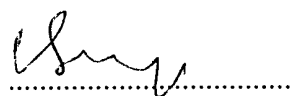
Secretary: **Ms P. Bridou (Paris Office)**

Attendance list page 1**EUROPEAN FEDERATION OF CORROSION****MEETING OF THE BOARD OF ADMINISTRATORS**

London, 12 Septembre 2000

ATTENDANCE LIST**Signatures****As President of EFC :**

Dr. Ph. BERGE (France),



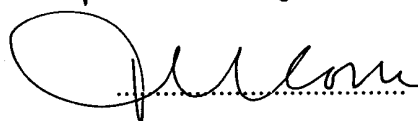
Prof. Dr. E. BERECH (Hungary)



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



Prof. J. M. COSTA (Spain)



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

Excused

Mr. O. FORSEN (Finland)



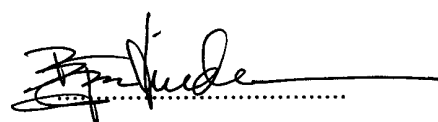
Mr. Don HARROP (United Kingdom)



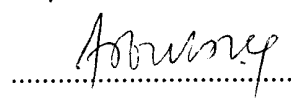
Prof. Dr. B. ISECKE (Germany)



Dr. B. LINDER (Sweden)



Dr. A. POURBAIX (Belgium)



Mr. B. A. RICKINSON (United Kingdom)

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Attendance list page 2**EUROPEAN FEDERATION OF CORROSION**

MEETING OF THE BOARD OF ADMINISTRATORS

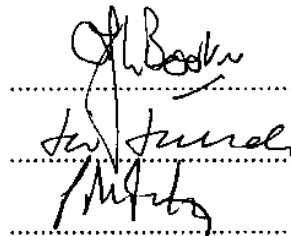
London, 12 Septembre 2000

EX OFFICIO REPRESENTATIVES

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

Mrs. L. LUNDE (Norway), As Chairman of the STAC

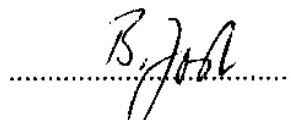
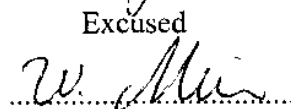
Dr. P. McINTYRE (United Kingdom), As Scientific Secretary


GENERAL SECRETARIAT*Frankfurt Office:*

Mrs. B. JOST

Prof. Dr. G. KREYSA

Dr. W. MEIER


 Excused

London Office:

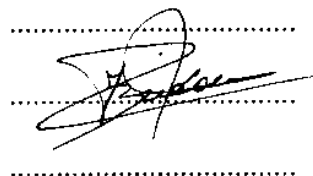
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Paris Office:

P. BRIDOU


GUEST(S) :

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EUROPEAN FEDERATION OF CORROSION
MEETING OF THE BOARD OF ADMINISTRATORS
LONDON, 12TH September 2000, pm
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 Workshop on Certification in 2002 ; EU support
 - 3-2 “Mentor-C” (EC Proposal on Materials Engineering Training Tools: On-line Tutoring, International Recognition & Certification of Corrosion Expertise)
- Item 4 Liaisons with other organizations
 - 4-1 NACE
 - 4-2 CCATA
 - 4-3 FEMS
- Item 5 EFC Membership
 - 5-1 Expulsion of Bulgaria from EFC Membership
 - 5-2 EFC Membership Card Enquiry
 - 5-3 Honorary Membership of the EFC
 - 5-4 Application from Turkey to join EFC
 - 5-5 Application from Russia to join EFC
 - 5-6 Working Party Membership
- Item 6 EUROCORN Series
 - 6-1 New Guidelines for EUROCORN
 - 6-2 EUROCORN 2000
 - 6-3 EUROCORN 2001
 - 6-4 Arrangement for BoA and GA Meeting in 2002
 - 6-5 EUROCORN 2003
 - 6-6 EUROCORN 2004
- Item 7 Finance
- Item 8 EFC Activities
 - 8-1 Scientific Secretary's Report
 - 8-2 EFC Newsletter
 - 8-3 EFC Publications
 - 8-4 EFC Web Site
- Item 9 EFC Calendar of Events
- Item 10 Any other Business
- Item 11 Date and Place of next BoA

UNCONFIRMED MINUTES OF THE EFC BOARD OF ADMINISTRATORS

Item 01 Opening of the meeting

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

Item 02 Apologies for Absence

Apologies had been received from the following members of BoA:

Mr G. Kreysa, DECHEMA, Frankfurt, Germany,
Mr. J. H. W. DE Wit, Ijmuiden, Netherlands,
Mr B.A. RICKINSON, London, United Kingdom.

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

1-1 The proposed agenda was approved.

1-2 The minutes of the Paris meeting (7 April 2000) were approved as a correct record.

Item 2 Report on STAC Activities

The STAC meeting was held as a full-day meeting on Sunday, September 10th in order to allow time for a review of activity in each Working Party. This new arrangement had worked well and will be continued next year. Mrs Lunde reported that the meeting had been very well attended, with participation by 12 of the 16 Working Party Chairmen.

Following the President's request that each WP should develop a three-year programme of work, the Scientific Secretary had distributed a pro-forma to the WP Chairmen so that their proposals could be presented in a uniform way. Responses had been received from all WPs.

Many WPs had proposed collaboration with others over the organisation of joint sessions at EUROCORR. This would provide programmes of greater interest to industry and would reduce the total number of sessions, helping to make the event more manageable. Mrs. Lunde had compiled these proposals in tabular form and undertook to distribute this to the members of BoA.

A few WPs appear to be working less effectively than expected and their 3-year programmes had received adverse comment in the STAC. For example, some proposals lacked detail and had ill-defined target dates. In some cases regular meetings of the WP had not taken place or had been very poorly attended, which demonstrated that the group was not functioning properly. It was agreed that a report on the review of WP programmes would be appended to these minutes (see Appendix 1).

In order to improve the overall effectiveness of the WPs, the BoA accepted the recommendation from the STAC that each one should be asked to review its own structure and performance at three-yearly intervals. These reviews would also provide a regular opportunity to re-confirm the chairmanship of the WP or, if appropriate, to appoint a new chairman. Consideration should

also be given during each review to the continued viability of the WP. Where its original objectives had been met, a decision should be made either to wind up the WP or to revise its objectives and terms of reference. The Chairman of STAC agreed to draft a letter from the EFC President to the WP chairmen informing them about the proposed 3-yearly reviews.

There was discussion in the BoA of some particular points that had arisen from the review of the three-year plans by the STAC. For example, it was noted that WP12 (Computer Information Systems) would not be holding a WP meeting in London. It was felt by the BoA that its Chairman, Mr. W. Bogaerts, might prefer to wind up WP12 and instead take up a special position with responsibility for Computer Information Systems within WP7 (Corrosion Education). Furthermore, concerns had been expressed about the proposed 3-year Work Programmes submitted by WP1 (Inhibitors) and WP8 (Physico-Chemical Methods of Corrosion Testing) because these lacked detail. It was decided that special letters relating these matters would be sent to the appropriate chairmen by the President. The Vice-President offered to assist in the preparation of these letters.

The President announced that both the Chairman (Mr de Kéroulas) and the Secretary (Mr Santarini) of WP4 (Nuclear Corrosion) had announced their decision to resign from these posts. Their successors would be announced in the near future. A proposal to broaden the scope of the WP to encompass corrosion in conventional (fossil-fired) power plants had been rejected by WP4, which wanted to retain its current specificity because of special safety issues in the field of nuclear power. Members of the BoA were asked to consider whether a new WP on Corrosion in Conventional Power Plant should be proposed for consideration at the next meeting of the BoA.

Item 3 Role of the EFC in Certification

3-1 Workshop on Certification in 2002; EU support

The EFC President announced the organisation of an EFC Workshop on Certification, to be held in Aix en Provence, France, on Tuesday 5th and Wednesday 6th of June 2002.

The workshop is intended to cover the following aspects of certification:

- Cathodic Protection,
- Coating and Painting,
- Education.

It will take place in conjunction with a CEFRACOR Colloquium on Cathodic Protection, to be held in Aix en Provence, France, on 7 and 8 June 2002.

Contact had been established with the European Commission in Brussels with a view to inviting its support for the proposed Workshop. Mr Meier of Dechema had made contact with Prof J. Routti in Brussels, who had suggested that a meeting should be arranged with Mr E. Andreta, Director of European Commission DG XII (Science, Research and Development). The Scientific Secretary undertook to finalise the arrangements for this meeting, which would involve himself, Mr Meier and the President, as soon as possible.

NACE would also be invited to make a presentation at the EFC Workshop dealing with the certification systems for corrosion personnel in the USA.

Under the agreement between PCE and EFC, action would be taken to publish the preliminary announcement of the Workshop in the next issue of PCE.

3-2 *“Mentor-C” (EC Proposal on Materials Engineering Training Tools: On-line Tutoring, International Recognition & Certification of Corrosion Expertise)*

The Scientific Secretary reported that Prof W. Bogaerts had submitted a proposal for EU funding under the Leonardo Initiative, which includes the EFC as a partner and relates to the development of interactive hypermedia-based self-study materials, leading to various levels of certification. EFC Working Parties 12 (Computer Information Systems), 3 (Corrosion by Hot Gases and Corrosion Products) and 7 (Corrosion Education) would be involved, together with NACE Europe and UMIST, should the application succeed.

The proposal had been well received by the EC and the final decision on funding was awaited. Subject to a successful outcome, the EFC would be involved in coordinating the work via the Scientific Secretary at the London Office. The EFC and its Working Parties stood to gain a total of 37,500 Euros from participation in the project.

Item 4 **Liaisons with other organisations**

4-1 *NACE (National Association of Corrosion Engineers)*

In order to reinforce links between NACE and EFC and to facilitate future collaboration, a meeting had been scheduled to take place during EUROCORR 2000 on the following day (13th September). NACE International would be represented by its Chief Executive, Mr Gerald Shankel, and the EFC by its President, Vice-President, the Chairman of STAC, and the Scientific Secretary.

The proposed agenda for this meeting would include:

- 1- Progress over formalisation of the relationship between EFC and NACE;
- 2- NACE participation in the proposed EC funded “Mentor C” Project: Material Engineering Training Tools: On-Line Tutoring, International Recognition of Certification of Corrosion Expertise;
- 3- NACE participation in the EFC Workshop on Certification during 2002;
- 4- Review of NACE strategy in Europe;
- 5- Coordination of NACE and EFC Events Calendars;
- 6- Reciprocal arrangements for discounts on publications;
- 7- Possibility of a joint NACE-EFC Corrosion Trade Show in Europe (with training and presentations directed towards engineers and technicians);
- 8- Any Other Business;
- 9- Future Meetings.

The results of this meeting will be reviewed at the next BoA meeting in April, in Frankfurt.

4-2 *CCATA (China Chemical Anticorrosion Technology Association)*

The President reported that he and the Scientific Secretary had met with Professor Ren Zhenduo, the CCATA Vice Standing President and General Secretary, and Ms Xin Yingdi, the CCATA Vice Standing General Secretary, atACHEMA in Frankfurt on 24 May to discuss the implementation of the cooperation agreement. The results of the discussion were summarised in the Appendix 3 of the Working Papers. This clarifies the way in which the agreement will operate. No objections to this documents were raised

during the meeting and the BoA approved a proposal that it should be appended to the Cooperation Agreement between EFC and CCATA.

4-3 *FEMS (Federation of European Materials Societies)*

The EFC is one of a dozen organisations participating in MatNet, a new network of European materials societies established under the auspices of the Federation of European Materials Societies (FEMS) with support from the EU under the Accompanying Measures division of the 5th Framework Programme.

Professor Hans Grabke, in collaboration with the Scientific Secretary, had submitted a revised version of his proposal concerned with the formation of a European network on materials problems in waste incineration power plants for funding under Work Package A of MatNet. This proposal had been accepted and would provide 10,000 euros, most of which will go towards the costs of holding meetings of experts to discuss materials and corrosion problems and the results from research investigations.

Item 5 EFC Membership

5-1 *Expulsion of Bulgaria from EFC Membership*

Mrs Jost of the Frankfurt Office had made many attempts to contact the Bulgarian Committee of Corrosion Protection by post, telephone and fax, without any success. It was concluded by BoA that this Society must have decided to let its membership of the EFC lapse and that it should be removed from the membership list.

It was agreed that the situation would be reconsidered should the Bulgarian Society express new interest in the EFC at some future date.

5-2 *EFC Membership Card Enquiry*

Mr Meier reported that following an enquiry of EFC Member Societies which had been conducted by the Frankfurt Office in June 2000 about the proposed EFC Membership Card, a new version of the Agreement had been circulated in August (see Appendix 2).

The idea of the EFC Membership Card had been well received and already 10 Member Societies had signed the agreement.

However, several concerns were voiced in BoA about the agreement. The most important of these concerned the reduced rates that EFC Member Societies would in future have to offer to members of other Member Societies for conference fees, publications, etc. Mr. Linder explained, for example, that the Swedish Corrosion Institute has only company members paying high fees to support their research programme, in return for which they receive large discounts. It would be impossible to offer equally large discounts to members of all other EFC Member Societies. Mr Forsén also anticipated practical difficulties in implementing the Membership Card scheme. After discussion it was agreed that reductions should be offered wherever possible so that the cards would provide some transparent value to the holder. However, under special circumstances a flexible approach would be possible and it would be permissible for societies to exercise discretion over the size of discounts offered to members of other societies.

Mr Harrop stated that the Institute of Corrosion does not have membership cards at present. Mr Meier explained that numbered EFC cards could be provided where particular societies did not have membership cards of their own or would not be issuing

membership cards bearing the EFC logo for some time. For societies with company members, limited numbers of EFC cards (e.g. 50) could be provided for distribution to individuals who requested them.

Mrs Lunde reported that the Chairman of NKF believed that EFC Membership Cards would make people feel part of the EFC, which would improve relations.

Following discussion, BoA approved implementation of the EFC Membership Card on the basis that each EFC Member Society signing the agreement could:

- use the EFC logo on its own Membership Card, where appropriate, or
- distribute numbered EFC Membership Cards to those of their members who requested them;
- where possible, offer reduced fees for their conferences, publications, etc., to members of other EFC Member Societies.

5-3 *Honorary Membership of the EFC*

The Members of BoA unanimously approved the nomination of Prof H. J. Grabke as an Honorary Member of the EFC and recommend that he should be proposed to the General Assembly for election.

The Paris Office will prepare a suitable certificate and make arrangements for an official presentation ceremony to take place during EUROCORR 2001 in Riva del Garda, Italy.

5-4 *Application from Turkey to join EFC*

As requested, the Turkish Corrosion Association sent a copy in English of the Statutes of the Association, which was presented in Appendix 6 of the Working Papers.

This document seems to present this association as a non-profit organisation. The BoA decided to recommend to the General Assembly the acceptance of the application from the Turkish Corrosion Association to join EFC.

Subject to the acceptance of this proposal by the GA, the Frankfurt Office will formally notify the Society of its admission to the EFC, with an initial annual contribution level of 150 Euros, commencing on 1 January 2001.

5-5 *Application from Russia to join EFC*

A few days before the BoA meeting, the Frankfurt Office had received an English version of the Statutes of the Russian Scientific and Educational Corrosion Centre, ANTIKOR (Appendix 3).

This document appears to present the association as a non-profit organisation. The BoA decided to recommend to the General Assembly the acceptance of the application from ANTIKOR to join EFC.

Subject to the approval of the GA, the Frankfurt Office will formally notify the Society of its admission to the EFC, with an initial annual contribution level of 150 Euros, commencing 1 January 2001.

5-6 *Working Party Membership*

Members of the BoA noted the nomination of Mrs E. Dénes of the DUNAFERR Research Institute, Hungary, as a new Working Party Member for the EFC WP “Corrosion by Hot Gases and Combustion Products”.

Contrary to what was mentioned in the Working Paper, this nomination does not need the approval of the General Assembly.

Item 6 EUROCORR Series

6-1 *New Guidelines for EUROCORR*

The Scientific Secretary explained that the revised version of the new Guidelines, which had been included as Appendix 8 of the Working Papers, contained minor improvements recommended at the BoA Meeting in April 2000. These had been approved at the meeting of the STAC subject to the need to add a statement that the Organisers should consult the WP Chairmen before publishing the first Call for Papers by circulating a draft version by e-mail for comment within 2 weeks. This would ensure that the wishes of the WP Chairmen regarding joint sessions, etc., are taken into account.

Subject to one further amendment, to the EUROCORR REPORT FORM 2, to state that the EUROCORR levy will, in future, be calculated on the basis of 5 % of the total fees paid by the delegates, the BoA authorised the submission of these modified Guidelines to the General Assembly for approval.

6-2 *EUROCORR 2000*

It was too early to report on EUROCORR 2000 other than to note that over 400 delegates had registered from at least 35 different countries.

A debriefing about the organisation and results of the event will take place during the next Task Force Meeting, which will be held before the BoA meeting in April 2001.

6-3 *EUROCORR 2001*

Mr Bonora reported that the second circular about EUROCORR 2001, to be held in Italy at Riva del Garda, from 30 September - 4 October 2001, would be put on the Web as soon as the WP Chairmen had informed him about the number and themes of their sessions. The Call for Papers had been distributed by mail a few months previously.

6-4 *Arrangement for BoA and GA Meeting in 2002*

In accordance with the EFC Bye-Laws, EUROCORR cannot be held in 2002 because the International Corrosion Congress, ICC, will be held in Granada, Spain, on 22 - 27 September of that year.

The BoA accepted a kind offer from Mr Costa to hold the meetings of the STAC, BoA and GA in conjunction with the ICC in Granada. The President undertook to convey this information to the General Assembly.

6-5 *EUROCORR 2003*

Mr. Berecz reported that EUROCORR 2003 will take place in Budapest. He will be Co-Chairman of the International Scientific Committee (with the Chairman of STAC) and the Organising Committee will be led by a young researcher. The first circular will be distributed in December 2001.

6-6 *EUROCORR 2004*

Bids to host EUROCORR 2004 should be submitted in writing to the Scientific Secretary **by 31st December 2000** and not 2001 as mentioned in the Working Papers.

Item 7 **Finance**

M. Booker presented the Honorary Treasurer's Report for 1999 (Appendix 10 in the Working Papers). The final audited statement of account indicated that a projected budget deficit of 5,600 Euros had been reduced to 1589 Euros. This had been mainly achieved by additional voluntary contributions from CEBELCOR and DECHEMA, subsidisation of the entire costs associated with producing and distributing the EFC Newsletter by The Institute of Materials, and an exchange gain adjustment. The indications were that the budget was now likely to move into surplus, allowing the depleted reserves to be renewed.

It was noted that the Committee for Corrosion Protection (Bulgaria) was seriously in arrears (1997, 1998, 1999) and was recommended for deregistration as a Member Society, while the CSFCE (Italy) and the Ukrainian Association of Corrosionists were in arrears for 1999.

The final revised Budget for 2000 and the Budget Proposal for 2001 were submitted for approval by the BoA and recommended for submission to the General Assembly.

The Honorary Treasurer's "Statement of Accounts", Amended Budget for 2000 and Proposed Budget for 2001 were approved by the Board and recommended for submission to the General Assembly.

For information, an interim financial statement for 2000, tabled at the meeting, is presented in Appendix 4.

In conclusion, Mr Booker reported that a successor for the position of Honorary Treasurer had not yet been found; fortunately, his personal circumstances now allowed him to extend his present association with the EFC until the end of 2002. This announcement was greeted with unanimous acclaim by the Board.

Item 8 **EFC Activities**

8-1 *Scientific Secretary's Report*

The Scientific Secretary presented the report on his activities since the last meeting of BoA which had been included as Appendix 11 of the Working Papers. Among other things, he highlighted his contacts with FEMS in connection with MatNet, and with both NACE International and CCATA in connection with future collaboration. He had been heavily involved with the organisation of EUROCORR 2000 as Secretary of the Organising Committees, had produced a new issue of the EFC Newsletter and had assisted the EFC Series Editor with the preparation of four new publications.

The BoA approved the Scientific Secretary's Report.

8-2 EFC Newsletter

EFC Newsletter No. 10 was available to delegates during EUROCORR 2000 and would be mailed to EFC members.

The Newsletter would also be available on the EFC web site.

8-3 EFC Publications

The attention of the BoA was drawn to Appendix 12 of the Working Papers, which provided details of four new additions to the EFC Series (Numbers 28, 29, 30 and 31).

8-4 EFC Web Sites

Mr Meier reported that the EUROCORR Website, www.EUROCRR.org, and the EFC Website, www.EFCWEB.org were now working.

Item 9 EFC Calendar of Events

Appendix 5 provides an updated EFC calendar of events.

Item 10 Any other Business

It was agreed that the Frankfurt Office would seek nominations from the EFC Member Societies in connection with next year's election of members for the STAC and BoA which will take effect from 2002.

Item 11 Date and Place of next BoA

It was agreed that the next BoA meeting would be held at the Frankfurt Office on 20th April 2001, (Friday), at a time and in a room to be announced later.

A P P E N D I C E S

SUMMARY OF THE REVIEW OF EFC WP 3-YEAR PROGRAMMES HELD DURING THE MEETING OF STAC ON 10 SEPTEMBER 2000

A review of the 3-year plans of the EFC Working Parties was conducted during the full-day meeting of the STAC held in London on 10 September 2000. Most of the WPs had submitted their 3-year plans using the pro-forma provided by the Scientific Secretary and this facilitated the review process over which the Chairman of STAC and the EFC Vice-President presided. Twelve of the sixteen WP Chairmen attended the STAC to discuss their proposals. Apologies were received from Mr Trabanelli (WP1, Corrosion and Scale Inhibition), Mr Marcus (WP6, Surface Science and Mechanisms of Corrosion), Mr Thierry (WP10, Microbial Corrosion) and Mr Harston (WP15, Corrosion in the Refinery Industry).

WP 1 (Corrosion and Scale Inhibition)

Mr Trabanelli had submitted his 3-year programme following the meeting of WP1, which had taken place in conjunction with the 9th SEIC in Ferrara the previous week. WP 1 aims to increase its contacts with industry, work on standards, organise meetings on topics such as monitoring, testing, electrochemical methods, etc., and do cooperative experimental work on inhibitor testing.

Seven types of activity were proposed to meet these objectives, including:

- WP meetings
- Sessions at EUROCORN 2001 on Corrosion and Scale Inhibitors
- Provision of information to the Scientific Secretary for the Newsletter
- The 5th International Course on Corrosion Inhibitors to be held in Frankfurt in May 2001
- Organisation of a Collaborative Programme on Inhibitor Testing
- Involvement in the development of standards on corrosion and scale inhibition
- Publications (such as the recently published Proceedings of the 9th SEIC)

This programme was criticised because some of the items were very general. Specific details were often lacking (e.g. the sort of standards to be developed and timescales for the activity). The need for more vigorous leadership was discussed.

WP 3 (Corrosion in Hot Gases and Combustion Products)

Mr Schütze explained that the aim of WP3 is to develop more precise tools for assessing resistance to high temperature corrosion and for life prediction. This will be achieved through the implementation of ten types of activity:

- WP meetings (both business-oriented in conjunction with EUROCORN and technical in connection with collaborative work on cyclic oxidation tests)
- Technical sessions based on the response to the call for papers at every future EUROCORN
- Cooperation with other WPs to arrange joint sessions at EUROCORN, as appropriate
- Contributions to the EFC Web pages, as appropriate
- Contributions to the Newsletter on a variety of topics
- Organisation of Workshops, e.g. "Lifetime Modelling of HT Corrosion Processes", February 2001
- Collaborative research on Cyclic Oxidation Testing with EC support
- Participation in other EC projects (CORSAIR, MENTOR-C)
- Pre-normalisation work on Cyclic Oxidation Testing
- Publications in the EFC Series (e.g. Proceedings of the Modelling Workshop in 2001)

There was no comment on this programme.

WP 4 (Nuclear Corrosion)

Mr de Kéroulas explained that in light of his impending retirement, the proposed programme would be subject to change. His preferred objectives would be to develop stronger links with those working in the field of nuclear corrosion in Eastern Europe and further afield (e.g. NACE) and to exchange information on test methods, etc.

Proposed activities included:

- Annual WP meetings
- Sessions at EUROCORR each year
- Cooperation with WP 3, WP 5 and WP 6 to organise joint sessions at EUROCORR
- Possible contributions to the EFC web pages
- Annual contributions to the Newsletter
- Biennial technical meetings (audience ~ 30) on special topics (e.g. monitoring or waste storage)
- Possible contributions to the EFC Series (e.g. Proceedings of next year's EUROCORR session)
- Possible extension of the scope to include fossil plants and the back-end of the nuclear cycle
- Monitoring of current developments in the nuclear industry
- Establishment of links with Eastern European countries

It was acknowledged that there would be a need to firm up on these proposals as soon as the chairmanship of WP4 has been resolved.

WP 5 (Environment Sensitive Fracture)

Mr Magnin stated that WP5 aims to develop links between academia and industries having stress corrosion or corrosion fatigue cracking problems.

Its activities will include the following:

- A WP meeting in conjunction with CDI 2001 in Wyoming next year
- Organisation of a session at EUROCORR 2003 (but not at EUROCORR 2001)
- Cooperation with WP 4 and WP 13 to organise joint sessions at EUROCORR 2003
- Preparation of a report on CDI 2001 for the EFC Newsletter
- Organisation of CDI 2001 in Wyoming on 16-23 September 2001 as EFC Event No. 247
- Participation in HYDRANET (a proposed European Project initiated by the Petten Laboratory on the effects of hydrogen on the mechanical properties of metals)
- Possible publication of the Proceedings of CDI 2001 by EFC, perhaps in conjunction with TMS

These proposals were accepted without comment.

WP 6 (Surface Science and Mechanisms of Corrosion and Protection)

In the absence of Mr Marcus, the Scientific Secretary explained that WP6 will focus on the use of local probe microscopies (STM & AFM) to study passivity, its breakdown and localised corrosion.

WP6 activities will include:

- A special WP meeting in October 2001 on local probe microscopies for corrosion research
- Organisation of EUROCORR sessions on Initiation of Pitting and Surface Analysis Techniques
- Organisation of joint sessions at EUROCORR with other WPs
- An inter-laboratory comparison of surface analytical techniques (from 2000 to 2003)

APPENDIX 1/3

It was felt that there is much scope for this WP to cooperate with other WPs and that the programme should be modified to provide more precise proposals on cooperation with other WPs.

WP 7 (Corrosion Education)

Mr Costa reported that he had sought views from the members of WP 7 and the main objectives to have emerged related to the incorporation of modern multi-media technologies (CD-ROM, Internet, e-mail, etc.,) into the corrosion education process, particularly with regard to the enhancement of continuing professional development and distance learning. Other aims included the provision of information on corrosion teaching and certification.

Planned activities include:

- Annual WP meetings dealing with both business and technical matters
- Joint sessions at EUROCORN 2001 and 2003 on use of the Internet in corrosion education (with WP 12) and on the teaching of electrochemistry (with WP 8)
- Development of a Corrosion Education Web page
- Reports on activity for the Newsletter
- EFC Workshops on use of the Internet in corrosion education and on Electrochemical methods
- Participation in the proposed MENTOR-C EC funded project
- An EFC publication on Trends in Corrosion Education (based on EUROCORN papers)
- Compilation and dissemination of information on courses, industrial training needs and software

These proposals were received without comment.

WP 8 (Physico-Chemical Methods of Corrosion Testing)

Mr de Wit reported that WP 8 aims to provide an overview of existing measuring techniques, to disseminate information on new testing methods within the EFC, and to create links between academia and industry. He had found it very difficult to organise EUROCORN sessions with well focused themes because of the limited number of workers in the field. Nevertheless, sessions encompassing diverse topics had provided a useful outlet for papers that were unsuitable for other sessions and had been very well attended. In contrast, the WP meetings have had very limited attendance.

Planned activities include:

- WP meetings (to be held only in conjunction with EUROCORN unless involving other WPs)
- Sessions on special topics at EUROCORN (as new developments permit)
- Joint sessions at EUROCORN (mainly at the request of other WPs)
- Imminent publication of EFC 30 on Crevice Corrosion (jointly with WP 9)

On the basis of this presentation it was clear that the future of WP 8 merits serious attention. Mr de Wit suggested that if EFC wishes to focus on more specific topics, consideration should be given to the abandonment of WP 8.

WP 9 (Marine Corrosion)

Mr Espelid reported that the 3-year programme for WP 9 had been discussed at its most recent meeting in Paris. Many main objectives had been identified, including: the development of a new standard test method for crevice corrosion of stainless steels in sea waters; publication in the EFC Series of state-of-the-art reports

APPENDIX 1/4

on experience with stainless steels and non-ferrous alloys in sea water; the organisation of a full-day session on marine corrosion plus at least one joint session with another WP at every EUROCORR conference; the establishment of a website for WP 9; the formation of dedicated sub-groups on specific topics; the establishment of a “Marine Corrosion” network, possibly with EC funding.

The activities planned over the next three years are:

- Two WP meetings per year (focusing on technical, industrial & collaborative work)
- Sessions at each EUROCORR focusing on industrial topics
- Collaboration with WPs 10, 14 and 16 to organise joint sessions at EUROCORR
- Establishment of a website page, possibly in cooperation with the Marine Corrosion Club by July 01
- Organisation of a Workshop/Seminar on a standardised crevice test method by October 02
- Round Robin crevice corrosion test for stainless steels in natural and treated sea waters
- Participation in a 5th Framework Programme to develop a standard crevice corrosion test by Jan 03
- Establishment of a new EU funded network on “Marine Corrosion” by August 01
- EFC Publications on Stainless Steels in Sea Water and Use of Cu and Al Alloys in Sea Waters
- Various other possibilities exist, such as: preparation of an overview of all corrosion test standards relating to marine corrosion; studies of NDE methods to detect localised corrosion in alloys, of the characteristics of antifouling paints, of the behaviour of GRP in marine environments and of corrosion protection methods for sea water piping systems
- New Sub-Task Groups will be established to increase efficiency

There were no comments on this programme.

WP 10 (Microbial Corrosion)

The Scientific Secretary summarised the objectives of WP 10 over the next three years as being to organise meetings and workshops on microbially induced corrosion (MIC), to prepare a publication on MIC cases and to increase European collaboration on MIC.

These objectives will be achieved by the following activities:

- Annual meetings of WP 10
- Annual sessions at EUROCORR
- Proposed cooperation with WP 9 and WP 13 to organise specific workshops by 2002
- Preparation of a list of European MIC experts by 2001
- Contributions to the EFC Newsletter
- Organisation of a summer school in collaboration with a European Network on MIC in 2002
- Organisation of a workshop on MIC in Portugal by 2004
- Collaboration over the collection of MIC case histories
- Participation in a European Network on MIC funded under the 4th Framework Programme until 2002
- Publication of MIC Case Histories in the EFC Series during 2002

There were no comments on these proposals.

WP 11 (Corrosion of Reinforcement in Concrete)

Mr Mietz reported that the main objectives of WP 11 over the next three years include the completion of three new publications in the EFC Series by separate Task Groups. In addition, a recently formed Task Group on life assessment will conduct an assessment of available corrosion models, leading to the publication of a state-of-the-art-report, and work on the development of improved methodologies based on new data.

Detailed activities will include:

- Annual meetings of the WP
- A session focusing on corrosion control of highways and bridges at EUROCORR 2001
- Organisation of a Workshop on Smart Structures in conjunction with EUROCORR 2001
- Possible joint sessions with WP 9 and WP 16 at EUROCORR 2003
- Development of a WP page on the EFC Website in early 2001
- Preparation of an article on the new Task Group on corrosion models for the Newsletter in 2001
- Participation in RILEM TC 154 on electrochemical techniques for measuring corrosion in concrete
- Participation in the work of CEN TC219/WG2 on electrochemical treatments for concrete
- Preparation of EFC publications on Inhibitors for use in Concrete (2001), Test Methods for Assessing the Susceptibility of Prestressing Steels (2001) and Embeddable Reference Electrodes for Concrete (2002).

These proposals were accepted without comment.

WP 12 (Computer Information Systems)

Mr Bogaerts stated the main objectives of WP 12 are to promote awareness of computer-based corrosion and materials information systems and contribute to their development. Another aim is to encourage compatibility between and connectivity of different corrosion information systems.

Current and planned activities include:

- Participation of members in development of the “OCEAN” thematic network project being coordinated by UMIST with support from Framework 4 (BRITE/Euram) until 2001
- Preparation of the “Mentor-C” proposal, concerned with the development over 3 years of computerised tools for distance learning, for support under the Leonardo initiative (from which EFC would gain 37,500 Euros for coordination and testing activities, subject to its approval and in which NACE-Europe is a partner)
- Organisation of a joint session with WP 7 at EUROCORR
- Assessment of the potential for remote monitoring of corrosion experiments
- Development of an internet handbook on corrosion (currently held up by other pressures)

The President referred to the involvement of WP12 with NACE and the EU and suggested that each of the WPs should consider the possibility of collaborating with those bodies.

It was observed that WP 12 operates differently from the other WPs in that it does not have conventional WP meetings, although a meeting of participants in the “OCEAN” project was to be held during EUROCORR.

WP 13 (Corrosion in Oil and Gas Production)

Mr Jackman stated that WP 13 is a large and active working party. Its Task Groups are primarily concerned with the publication and maintenance of state-of-the-art reports on important aspects of oil and gas production. The Chairmen of two Task Groups (on inhibitors for upstream oil and gas production and on CO₂ corrosion) had resigned recently but successors had been found.

Activities over the next three years will include:

- Annual WP meetings (of 50-100 people, mainly from industry)
- EUROCORR sessions (jointly with other WPs as appropriate) with special topics including environmental cracking, CRAs, martensitic stainless steels, CO₂ corrosion and H₂S corrosion

- Contributions to the EFC Newsletter
- Preparation of revised EFC Guideline Documents on Carbon & Low Alloy Steels for H₂S Service and Corrosion Resistant Alloys for H₂S Service (2001)
- Preparation of new EFC Guideline documents on Life cycle corrosion costs (2001), Use of inhibitors in upstream oil and gas production (2003), and Corrosion of CRAs in sweet environments (2004)
- Publication in the EFC Series of selected papers from EUROCORR '99 and EUROCORR 2000
- Incorporation of oil and gas industry terminology in ISO 8044

These proposals were accepted without comment.

WP 14 (Coatings)

Mr Vogelsang stated that the main objectives for the next three years are to organise EUROCORR sessions on Coatings (in collaboration with other WPs, as appropriate), to develop standard electrochemical assessment techniques for coatings, and to continue the series of Workshops about the application of electrochemical methods to organic coatings.

Particular activities will include:

- Annual working party meetings
- Biannual Task Force meetings
- Special sessions at EUROCORR 2001 on multiple layer systems and composites
- Joint sessions at EUROCORR with WP 8, WP 9 and WP 17
- Maintenance of a page dedicated to coatings on the EFC Website
- Workshops on "Electrochemical techniques applied to organic coatings" in Poland (2001) and elsewhere in 2003
- Round Robin test programme on the application of EIS to barrier coatings in connection with the development of a standard
- Participation in an EU supported project on thermally sprayed coatings and submission of other proposals to EU
- Participation in the development of a new standard EIS test for barrier coatings
- Preparation of an EFC Publication on "Composites and multiple layer materials" from the proceedings of EUROCORR 2001

This plan was accepted without comment.

WP 15 (Corrosion in the Refinery Industry)

The Scientific Secretary reported that WP 15 provides its members with a highly valued forum for the exchange of information on corrosion in refineries and technological developments. Subject to ratification by WP members at the next meeting, objectives for the next three years will include studies of materials for sour service in refineries, of the requirements of cooling water systems; and of the use of risk based inspection in refineries. Other aims include the preparation of a couple of new books in the EFC Series.

Envisaged activities include:

- Biannual WP meetings
- Additional meetings of sub-groups on special studies as required
- Sessions at EUROCORR, possibly in collaboration with another WP (e.g. WP3) in 2001
- Possible contributions for the EFC Newsletter as required and for the EFC Website in 2001

- Possible collaborative work on best practice for sour service in refineries
- Possible participation in the development of a standard for cooling water treatment
- Publication in the EFC Series of a report on amine unit corrosion (2001) and a book based on selected information from previous WP meetings and EUROCORR sessions (2002)

Following this presentation, it was observed that WP Chairmen would have to commit themselves to firm proposals after the next meetings of their WPs.

WP 16 (Cathodic Protection)

Mr Roche stated that an important objective of WP 16 is to promote (via CEN) standardisation of the certification process in Europe for personnel, companies and services dealing with cathodic protection. Other aims include the preparation of recommendations for CP measurements and coating surveys (possibly in collaboration with CEOCOR) and the dissemination of information on CP at conferences and symposia and on the web.

WP 16's activities will include:

- Biannual WP meetings
- Sessions on general aspects of cathodic protection at EUROCORR
- Joint sessions with WP 9 and WP 11 at EUROCORR 2001 and 2003
- Possible development of a forum devoted to CP on the EFC Website
- Participation in the EFC Workshop on Certification in Aix en Provence (June 2002) and in the Polish Symposium on CP (May 2002)
- Cooperation with CEN/TC 219/WG 5 on Qualification and certification of personnel in CP (from 2001)
- Publication of Recommendations for CP measurements and coating surveys (possibly with CEOCOR) in 2003
- Possible joint study with WP9 on test methods for sacrificial anodes in sea water (this relates to CEN/TC 219/WG 3 whose proposed standard has been rejected)

This plan was accepted without comment.

WP 17 (Automotive Corrosion)

Mr Blekkenhorst stated that because WP 17 had not yet been officially approved by the EFC General Assembly, he had not submitted a 3-year plan. However, a number of objectives were to be discussed at its next meeting, as follows:

- to increase the involvement of people from the automotive industry in WP 17
- to prepare an inventory of automotive corrosion problems (including experience from USA & Japan)
- to organise a symposium on accelerated automotive corrosion tests and to publish the proceedings in the EFC Series
- to cooperate with WP 8 and WP 14 over the development of a standard EIS technique for coatings
- to establish working relationships between WP 17 and NACE, ASME and AISI

In the ensuing discussion, great satisfaction was expressed for the session on Automotive Corrosion at EUROCORR 2000 which had been organised by Mr Blekkenhorst and in which most of the contributions had been solicited. In this way it had been possible to present an overview of the state-of-the-art. This contrasted with some of the other sessions, particularly those dealing with less well-defined topic areas, where more reliance had been placed on the response to the call for papers and which, as a consequence, lacked focus.

General Discussion

The Vice-President remarked that the aims of the 3-year planning process had been to get people to look ahead to develop a working calendar for the EFC and to encourage collaboration between different WPs so that “hot” topics which would be more attractive to industry could be presented at EUROCORR in future.

Mr de Wit questioned the wisdom of holding EUROCORR annually and proposed that it should be biennial. Mr Isecke stated that this had proved to be unsuccessful in the past. The Vice-President commented that the effective use of the three-year planning process would reduce the need for each WP to produce a strong session each year. Mr Isecke agreed that WPs should not be forced to hold sessions every year and the President stressed the need for them to focus on particular topics in each session.

Mr Isecke commented that the 3-year plans had shown that some WPs are facing greater difficulty than others. This was particularly true for those working on topics of general interest and delivering tools for use by other WPs. WP 1 (Inhibitors), WP 6 (Surface Science), and WP 8 (Testing) were quoted as examples. The Vice-President stressed that these are all important topics, which attract many participants to EUROCORR and the EFC. Nevertheless, it was felt that changes are necessary from time to time in order to maintain the effectiveness of the WPs and that the EFC should implement a mechanism whereby the organisational structure and performance of each WP is reviewed periodically. It was decided that such reviews would best be undertaken by the WPs themselves.

During these reviews the following questions should be considered:

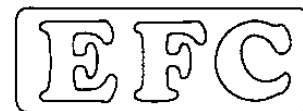
- have the original objectives of the WP been achieved? If so, the WP should either set itself new objectives or close, though in some cases a merger with another WP might be more appropriate.
- is the structure of the WP still suitable, particularly with regard to the level of activity, commitment and effectiveness of the chairman? If not, a successor should be appointed. In most cases the sitting chairman would be reconfirmed.

It was agreed that the BoA should be asked to invite each WP to conduct a performance review at its next meeting and, thereafter, at three-yearly intervals.

Summary

In concluding the review of 3-year plans, the Chairman declared that the exercise had been a useful one and should continue during future meetings.

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



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 Your letter of / réf.

Ihre Zeichen
 Your Ref. / lettre au

Unsere Zeichen
 Our Ref. / réf.

Telefon / Phone / Tél.
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Datum
 Date / date

EFC/GK/WM

-143/-209

16.08.2000

EFC Membership Card Proposal

Dear Dr. McIntyre

With this letter we send you our revised proposal for the EFC Membership Card Scheme. The revised proposal takes into consideration the comments which we received after our first communication in this respect (letter to EFC member societies of 16 June 2000).

We intend to present the proposal at the next meeting of the Board of Administrators which is scheduled to take place on 12 September 2000 in London. Please let us have further comments and suggestions, if any, before Friday, 8 September 2000. You may do so by fax to # ++49-69-7564 299. Thank you.

Sincerely yours

European Federation of Corrosion
 Frankfurt office of the General Secretariat

Prof. G. Kreysa

Dr. W. Meier

BÜROS DES GENERALSEKRETARIATS

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 SOCIÉTÉ DE CHIMIE INDUSTRIELLE, 28 RUE SAINT-DOMINIQUE, F-75007 PARIS, TEL.: +33-1-53 59 02 10, FAX: +33-1-45 55 40 33
 Ort der Vereins-Eintragung: Branche Belge de la Société de Chimie Industrielle, 49 Square Marie-Louise, B-1040 Brussel, Tél.: 2/230 4090

EFC Membership Card Proposal

1. Background

The Frankfurt Office of the EFC sent the Member Societies a questionnaire describing the EFC-Membership Card Initiative.

The Members of an EFC Member Society which has signed the EFC Membership Card Agreement can attend any event organized by another Member Society which also participates in the EFC Membership Card Programme under the same conditions (reduced fee etc.) as the national members of the said EFC Member Society.

The benefit to the EFC and the EFC Member Societies are obvious:

- The EFC becomes more visible to individuals.
- Events become more attractive to participants from abroad.
- Membership in a national society is more attractive because the EFC Membership Card is an added value.

2 Procedure

Based on the comments received the following procedure is proposed:

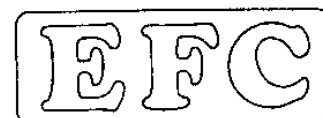
Societies willing to participate in the EFC Membership Card Scheme have to sign the agreement.

Societies with individual members can put the EFC logo on their own membership cards, such that the membership card of this Member Society is at the same time the EFC Membership Card.

Societies who have company members can get EFC Membership Cards from the EFC (see example). 50 cards are free, while additional copies have to be paid.

The EFC will distribute a list with all Societies participating in the EFC Membership Scheme. The Societies have to offer this reduced fee in their registration forms. If somebody wants to get the reduction he can either proof his authorization by showing his membership card of an EFC Member Society which joined the scheme or by showing the EFC Membership Card which the Membership Societies previously distributed to their Company Members.

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



EFC Membership Card Agreement

The signatory member societies, with the aim of granting their members the advantages of the EFC Membership Card, agree the following:

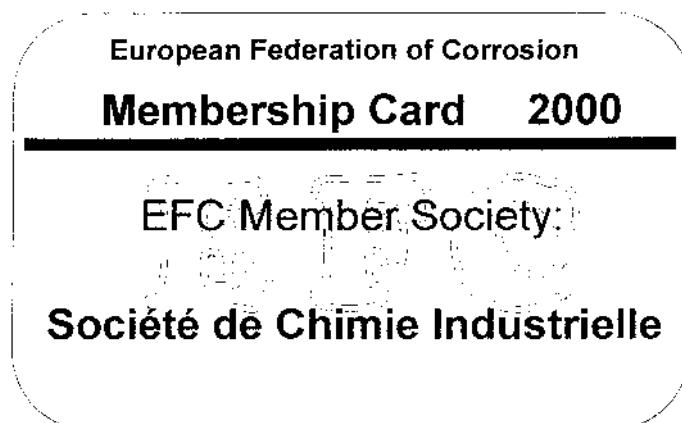
- o The societies who sign this agreement will allow members of other signatory societies to attend events under the same conditions as apply to their own members.
- o The societies who sign this agreement will grant members of other signatory societies the same discounts on publications, if any, as they grant to their own members.
- o The signatory societies agree to distribute the EFC Membership Card to their members or incorporate the EFC logo and the designation „EFC Membership Card“ in their own membership cards.

Date

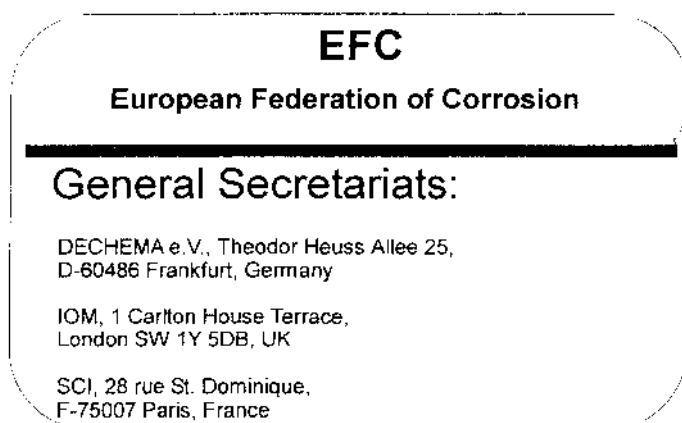
Member Society

Signature

Front



Back



APPENDIX 3**International Training and Research Center “ANTIKOR”**

ANTIKOR was founded in 1991 as part of the Gubkin Russian State University of Oil and Gas.

One of the leading subdivisions of the University, the Center comprises 10 specialized research laboratories:

- Diagnostics
- Protective coatings
- Electrochemistry
- Corrosion and mechanical methods of Research
- Defectoscopy
- Inhibitory and cathodic protection
- Metallographic research
- Gravity measurements
- Laser technology
- Computer modeling of engineering processes

ANTIKOR activity is twofold: training of specialists and undertaking fundamental and applied research in the field of chemical resistance of materials and corrosion protection.

ANTIKOR offers training for Master's, Candidate and Doctor of Science degrees for both Russian and international students.

The powerful research potential (87 employees, including 36 candidates and doctors of science) and the most modern equipment allow ANTIKOR to tackle most important scientific and technical problems in the field of corrosion protection of trunk pipelines and other petroleum industry facilities. The Center has successfully fulfilled the orders of major oil and gas companies (Gazprom, LUKOIL, Mostrangaz, Ultrangaz, Komineftgaz, etc.), and has participated directly in the development of engineering standards and technical documentation for methods of corrosion tests, materials and equipment used in corrosive media. ANTIKOR regularly takes part in major international programs and works with international partners (Bulgaria, Cuba, Germany, USA, Vietnam and others).

ANTIKOR specialists have been awarded state prizes for their achievements in research.

ANTIKOR is also the organizer of national and international meetings, conferences and congresses: for example, three International Congresses on corrosion named “PROTECTION”, were held by ANTIKOR in 1992, 1995 and 1998. Preparations for the fourth international forum ‘Protection-2001’, due to take place in October 2001, are presently under way.

ANTIKOR researchers have published 8 monographs and over 250 articles, and have received 6 patents.

EUROPEAN FEDERATION OF CORROSION
BOARD OF ADMINISTRATORS MEETING 12 SEPTEMBER 2000

BUDGET FOR 2000

and

Estimated Actual Income/Expenditure as at 31 August 2000

Expenditure

	Budget Euros	Actual Euros
Scientific Secretary:		
Fees	12000	10333
Travel & postage etc	2000	2397
Administration charge	8000	-
Newsletter	0	0
Honorary officers expenses	3000	1733
Support for Working Parties	6500	3092
Bank charges	300	223
Contingency sum	500	0
	<u>32300</u>	<u>17778</u>

Income

Subscriptions	26350	14028
Newsletter sales	0	0
Eurocorr Congress '99 levy	4500	7500
Royalties	3000	-
Individual membership	500	
Other income	0	
Exchange gains	0	-
	<u>34350</u>	<u>21528</u>

Notes:

1. These calculations assume an exchange rate of 1GB£ = 1.66 Euros.
2. Subscription income is just over 50%.
3. Eurocorr '99 provided a healthy excess over budget.
4. Working party expenditure relates to 1999 activities.
5. Some of the Scientific Secretary's fees may later be reconciled within the WP's budget.
6. Reminder invoices are being sent to MS in arrears after the Eurocorr Congress.

EFC CALENDAR OF FORTHCOMING EFC EVENTS

Date/venue	Conference	Contact
10-14 September 2000 London, UK	EUROCORR 2000 (EFC Event No. 235)	Cathy Pearcey Conference Department The Institute of Materials 1 Carlton House Terrace London SW1Y 5DB, UK Fax: +44 171 839 2289
19-22 September 2000 Turin, Italy	25 th FATIPEC Congress (EFC Event No. 245)	AITIVA, Piazza Morandi 2, I-20121 Milano, Italy Fax: +39 02 78 4969
22-23 February 2001 Frankfurt am Main Germany	Life Time Modelling of High Temperature Corrosion Processes (EFC Event No. 248)	Prof. Michael Schütze Karl-Winnacker-Institut der Dechema Theodor-Heuss-Allee 25, D-60486 Frankfurt am Main, Germany Fax: +49 69 7564 388 e-mail: schuetze@dechema.de
21-24 August 2001 Helsinki, Finland	10 th International Symposium on Corrosion in the Pulp and Paper Industry (EFC Event No. 249)	Tero Hakkarainen VTT Manufacturing Technology P.O. Box 1704, FIN-02044 VTT, FINLAND Fax: +358 9 456 7002 e-mail: tero.hakkarainen@vtt.fi
16-21 September 2001 Moran, Wyoming, USA	Corrosion Deformation Interactions 2001 (CDI 2001) (EFC Event No. 247)	Thierry Magnin Ecole des Mines, Centre SMS 158 Cours Fauriel, F-42023 St. Etienne Cedex 02, France Fax: +33 477 420157 e-mail: magnin@emse.fr
30 September – 4 October 2001 Lake Garda, Italy	EUROCORR 2001 (EFC Event No. 246)	AIM, Piazzale Rodolfo Morandi 2, 20121 Milano, Italy Fax: +39 02 7602 0551 e-mail: aim@fast.mi.it
9-10 May 2002	Symposium on Cathodic Protection - Theory and Practice (EFC Event Number 250)	Prof. K. Darowicki/Dr J. Jankowski Dept. of Anticorrosion Technology Technical University of Gdansk Narutowicza 11/12, PL 80-952 Gdansk Poland Fax: +4858 347 1092