

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



BOARD OF ADMINISTRATORS

London, UK

September 12, 2000

WORKING PAPERS

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WORKING PAPERS

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)**

EUROPEAN FEDERATION OF CORROSION
MEETING OF THE BOARD OF ADMINISTRATORS
LONDON, 12TH September 2000, pm
PROPOSED AGENDA

- Item 01 Opening of the meeting
- Item 02 Apologies for absence
- Item 1 Approval of the Agenda and Adoption of the Minutes of the Last Meeting of BoA
- Item 2 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
 - 5-5 Application from Russia
 - 5-6 Working Party Membership
- Item 6 EUROCORR Series
 - 6-1 New Guidelines for EUROCORR
 - 6-2 EUROCORR 2000
 - 6-3 EUROCORR 2001
 - 6-4 Arrangement for BoA and GA Meeting in 2002
 - 6-5 EUROCORR 2003
 - 6-6 EUROCORR 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

WORKING PAPERS OF THE EFC BOARD OF ADMINISTRATORS

Item 01 Opening of the meeting

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

Item 02 Apologies for Absence

Ms. Bridou, Paris Office, will announce apologies for absence.

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

1-1 BoA members are asked to approve the proposed agenda.

1-2 BoA members are asked to approve the minutes of the Paris meeting (7 April 2000) and to raise any matters not covered in the present agenda.

Item 2 Report on STAC Activities

As mentioned in the minutes of the last BoA, April 7, Paris, it was decided to hold a full-day STAC meeting on Sunday, September 10th. During this day, the Working Party Chairmen will present, as requested, their future work programmes and aims for the next 3 years. Ms Lunde, Chairman of STAC, will review the results obtained during this full-day meeting. A short report will be included in the minutes of the London Board meeting.

Item 3 Role of the EFC in Certification

3-1 Workshop on Certification in 2002; EU support

The EFC President will discuss plans for the organisation of an EFC Workshop on Certification, to be held in conjunction with a meeting on Cathodic Protection which is to take place in France during June or September 2002. Arrangements have been made for a preliminary meeting to discuss the Workshop to take place at The Institute of Materials in London at 19.30 h on 11 September.

The President will also report progress towards establishing contact with the EU in Brussels to discuss the possibility of EU sponsorship of EFC activities, including the Workshop on Certification.

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

The Scientific Secretary will report progress over the submission by Prof. W. Bogaerts of a proposal for EU funding under the Leonardo Initiative. This includes the EFC as a partner (see Appendix 1) and relates to the development of interactive hypermedia-based self-study materials, leading to various levels of certification.

Item 4 Liaisons with other organizations

4-1 NACE (National Association of Corrosion Engineers)

In order to reinforce links between NACE and EFC for future collaboration, it is now necessary to formalise an agreement between the 2 organisations. The EFC President sent a letter to the NACE President inviting him to attend EUROCORR 2000 (Appendix 2). Mr. Berge will report arrangements for a meeting to take place on 13 September to discuss various aspects of the agreement that could be envisaged for further cooperation between NACE and EFC.

4-2 CCATA (China Chemical Anticorrosion Technology Association)

Following the agreement signed by Pr. Bonora and discussed during the last BoA meeting, the EFC President and Scientific Secretary met on May 24 in Frankfurt during AICHEM with the Vice Standing President/General Secretary and the Vice Standing General Secretary of CCATA. Various points concerning the EFC-CCATA Cooperation Agreement were clarified. The results of the discussion are summarised in the Appendix 3 in order to be approved by the BoA.

This Cooperation Agreement will also be submitted for approval by the General Assembly.

4-3 FEMS (Federation of European Materials Societies)

It was reported at the last meeting of BoA in Paris that the proposal from FEMS to establish a European Materials Society Network (MATNET) which includes the EFC, had been accepted with reduced funding. Professor 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. Professor Grabke has since reported that this has been accepted and will receive funding later this year (Appendix 4).

Item 5 EFC Membership

5-1 Expulsion of Bulgaria from EFC Membership

Mr. Meier will report the situation concerning the Bulgarian Committee of Corrosion Protection following the Frankfurt Office action to inform this EFC Member Society that the Board had decided to expel it from the EFC.

5-2 EFC Membership Card Enquiry

In order to prepare an EFC Membership Card Agreement, which would be signed by EFC Societies Members, the Frankfurt Office was requested, during the last BoA, to approach each Member Society to establish its willingness to participate (Appendix 5).

Mr. Meier will report the result of the enquiry and will table a summary of the answers and proposals received to date. The EFC Membership Agreement Card will be distributed to the BoA Members and the EFC Member Societies prior to EUROCORR 2000.

5-3 *Honorary Membership of the EFC*

At the last meeting in Paris, it was agreed that BoA would recommend to the General Assembly the election of Prof. H. J. Grabke as an Honorary Member of the EFC. Subject to the approval of this nomination, the Paris Office will be asked to 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*

In order to permit to the BoA to take a final decision concerning the application from the Turkish Corrosion Association to become an EFC Member Society, the Frankfurt Office has obtained a copy in English of the Statutes of the Association (Appendix 6). These will be presented by Mr Meier.

Members of BoA are invited to decide whether to recommend to the GA acceptance of the application to join EFC from the Turkish Corrosion Association (and, if so, at what contribution rate).

5-5 *Application from Russia to join EFC*

Mr Meier will report progress, if any, in obtaining a copy in English of the Statutes of the Russian Scientific and Educational Corrosion Centre, ANTIKOR following its application to join EFC. Subject to the receipt of the Statutes, Members of BoA are invited to decide whether to recommend to the GA acceptance of the application.

5-6 *Working Party Membership*

The Frankfurt Office has received from The Hungarian Corrosion Society 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", (Appendix 7).

BoA members are requested to recommend this nomination to the General Assembly for approval.

Item 6 EUROCORR Series

6-1 *New Guidelines for EUROCORN*

The BoA which took place in Paris on April 7, recommended minor improvements to the Guidelines which had been tabled at the meeting (which were included as Appendix 4 in the Minutes).

BoA is requested to authorise submission of the modified Guidelines (Appendix 8) to the General Assembly for approval.

6-2 *EUROCORN 2000*

Mr Harrop will report arrangements for EUROCORN 2000 in London.

6-3 *EUROCORR 2001*

The Call for Papers has already been distributed. Mr. Bonora will announce progress over arrangements for EUROCORR 2001 to be held in Italy at Riva del Garda, September 30 – October 4.

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

The International Corrosion Congress, ICC, will be held in Granada, Spain, on 22 - 27 September 2002. This means that, in accordance with the EFC Bye-Laws, EUROCORR cannot be held in 2002.

At the last meeting of BoA, Mr. Costa offered to host the annual meetings of the EFC (BoA and the GA) in Granada during the ICC.

BoA Members are requested either to decide that these meetings should take place in conjunction with the ICC or to identify some alternative venue for proposal to the General Assembly.

6-5 *EUROCORR 2003*

The bid from Hungary to host EUROCORR 2003 was chosen by ballot at the last BoA Meeting in Paris. Mr. Berecz will report progress over the preliminary arrangements for this event.

6-6 *EUROCORR 2004*

A joint bid to host EUROCORR 2004 in France was received from SCI and CEFRA COR in April 2000 (Appendix 9).

Members are reminded that any further bids to host EUROCORR 2004 should be submitted in writing to the Scientific Secretary by 31st December 2001.

Item 7 Finance

Mr Booker will present the EFC Accounts for 1999 and budget proposals for 2001 (Appendix 10). An interim financial statement for 2000 will be tabled at the meeting.

BoA is invited to approve the Honorary Treasurer's report and to submit it to the General Assembly for approval.

Item 8 EFC Activities

8-1 Scientific Secretary's Report

The Scientific Secretary will present his report covering activity since the last meeting of BoA in Paris on 7 April (Appendix 11).

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

8-2 *EFC Newsletter*

The Scientific Secretary will discuss EFC Newsletter No. 10.

8-3 *EFC Publications*

Details of four new additions to the EFC Series are given in Appendix 12.

8-4 *EFC Web Sites*

Mr Meier will present information about the current status of two websites purchased on behalf of EFC by DECHEMA.

The EUROCORR website, www.EUROCORG.org, provides details of forthcoming EUROCORR conferences by means of direct links to the organisers' websites.

The EFC website, www.EFCWEB.org, provides the EFC Newsletter and pages for the EFC Working Parties are also expected.

Item 9 EFC Calendar of Events

The Scientific Secretary will introduce an update of forthcoming events in the EFC calendar (Appendix 13).

Item 10 Any other Business

Members are invited to raise any other matters.

Item 11 Date and Place of next BoA

APPENDICES



EDUCATION AND CULTURE

LEONARDO DA VINCI

Community Vocational Training Action Programme

Second phase : 2000-2006

SELECTED EXTRACTS FROM THE APPLICATION FORM (Preproposal)

Project : "Mentor-C"

Materials Engineering Training Tools: On-line Tutoring, International Recognition & Certification of *Corrosion Expertise*

Reserved for the Commission or the National Agencies

Country	Year	Selection procedure	Pre-proposal or full proposal (P / F)	Project number
				PP- TH- LA- NT- RF-

EUROPEAN COMMISSION

B.5 SUMMARY

Please provide a short description of your proposal (max 2 pages, 30 lines per page). You are kindly requested to provide this summary in English, French or German. *(Parts of this summary may be used in directories of successful projects)*

(The Summary should be structured around the following headings: 1 – Justification of the proposal; 2 - Outcomes, including dissemination methods; 3 - Partnership; 4 - Project management and operational timetable)

MENTOR-C : Vocational Training on Corrosion Engineering

Materials Engineering Training Tools :

On-line Tutoring, International Recognition & Certification of Corrosion Expertise

1. Justification

In industry, there is a vast need for qualified technicians or other experts in the field of **corrosion** or **corrosion protection** technology. Corrosion is the degradation of materials of construction under the influence of the operating environment. This environment may vary from simple natural environments (e.g. water, seawater, soil, atmosphere) to complex industrial media containing a series of hazardous chemicals.

All materials, both metals and non-metals, are susceptible to corrosion under one form or the other; and materials degradation phenomena affect the *reliability* and *durability* of almost any engineering component, ranging from a *microelectronics circuit*, to *aircraft*, *chemical reactors* or *suspension bridges*. As an example, in the process industries (oil & gas, petrochemistry, chemistry, pharmaceuticals, power generation, materials production, ...) the *different types of corrosion* are responsible for over 60% of all equipment failures (!).

As a result, annual **economic losses** in the European Union due to corrosion problems are estimated at some 4 to 5 % of the gross national product of each member state (!). In addition, material failures and corrosion problems may lead to major **safety risks** in industry or have serious **ecological consequences**, e.g. due to the release of hazardous chemicals, etc.

Most strikingly, a number of studies –as well in Europe, the USA and Japan– reveal that up to 1/3 of these failures could have been avoided if only the available knowledge and understanding of corrosion phenomena and their prevention would have been available and would have been applied (!).

Unfortunately, there is not any regular school programme in Europe that leads to a recognised degree in the field of *corrosion technology* or *corrosion engineering*. The only exception is the Masters programme at UMIST (University of Manchester Institute of Science and Technology) where a university degree in Corrosion Engineering is offered. No similar regular education or training system exists at a non-university level. There are only ad-hoc *courses* offered by universities, technical institutions and/or professional organisations, or there is the –very common– route of "learning through *hands-on experience*", either in the laboratory (i.e. university or scientific training) or in the field (technical or engineering training). The value of these courses is variable, and there is hardly any system in place that gives the proper recognition or certification. There is one exception again, and this is the current "professional recognition program" of NACE International (world wide organisation of corrosion engineers), but the recognition scheme offered is largely based on USA situations and is not properly adapted to the european context.

2. The Current Project and its Expected Outcomes

The current project wants to improve this situation through:

- (a) devising better systems and tools for vocational training, i.e. utilising the potential of nowadays *information and communication technologies* (ICT), to allow concepts of "*anywhere anytime learning*" in the corrosion technology domain;
- (b) initiating the development of new methodologies of *assessment, certification and validation* of the competencies acquired in work situations and, in a more general way, outside formal centrally organised training systems.

It is the aim of the project to develop **interactive hypermedia-based self-study materials**, allowing **autonomous or semi-autonomous training**, possibly in the framework of a structured programme or curriculum leading to different levels of **recognition or certification** in one or more of the domains related to corrosion technology.

The course will be "*multi-level*" (elementary to advanced), "*multi-lingual*", and "*multi-functional*" (serving various specialist sub-disciplines of the corrosion or corrosion protection field, and useful for various types of qualification outputs: inspectors, installers, engineers & designers, ...).

The electronic course system to be developed will not only comprise the conventional *trainee component* (incl. a number of advanced user features), but also an *innovative course administrator or tutor component*. This should create new possibilities for course management and qualification or certification. It is therefore the ambition of the current project to contribute to an **initial draft proposal for a (European) certification- & recognition mechanism & -procedure**.

3. Partnership

To achieve the goals of the project, a rather well balanced consortium has been brought together which comprises all required key players in the field (i.e. European professional societies) and which could give this project the required momentum.

The project will be a joint effort between ICT & corrosion training technology providers (i.e. two technical university departments), the two European professional organisations active in the field of corrosion and corrosion protection (= training technology providers, with their members being training technology users), and a few other important partners representing crucial sectors of industry (e.g. chemical process industries) or bringing in specific expertises.

The essential ICT expertise will be brought in by university partner K.U.Leuven (consortium leader & promoting organisation), which is currently virtually the only organisation in Europe with practical experience in developing larger-scale computer-aided corrosion teaching systems. At the core of the current consortium are the two professional organisations involved in the field of corrosion at a European level: EFC (European Federation of Corrosion) and NACE International - European Region. EFC is the association which groups all the European scientific or technical *corrosion societies and (public) organisations* (both in the countries of the EU, as well as in all other countries of Europe), NACE International is the world-wide organisation of (individual) *corrosion engineers and technicians*, which has regional divisions on the different continents.

This group of ICT & corrosion (teaching) specialists and European professional organisations is backed by representative partners for important industry sectors with a special interest in corrosion training, or with specific fields of expertise in the corrosion control domain:

- DEHEMA – Gesellschaft für Chemische Technik und Biotechnologie : chemical industries;
- CoRI – Coatings Research Institute : coatings & paints;
- ISQ – Instituto de Soldadura e Qualidade : inspection, ndt & welding expertise.

Before submission of the final proposal, this consortium may be extended with a representative series of individual industrial companies (both large enterprises and SMEs), which have already expressed their genuine interest in the project.

4. Project Management & Timetable

The total work programme is divided in 7 different workpackages (WP), each with clearly identified partnerships and responsibilities. This pre-proposal already gives a description of these workpackages and their timing in Section E.1 (Work Programme) of the current text. This section also contains a brief description of the project management scheme (cf. workpackage 7).

The planned workpackages are:

- Workpackage 1 : Development of software shell(s) – months 1-15 after project start
- Workpackage 2 : Content development – Basic *MENTOR-C* module(s) – months 3-24
- Workpackage 3 : Content development – Specialist *MENTOR-C* module(s) – months 6-30
- Workpackage 4 : Conversion, Translation, Production – months 6-33
- Workpackage 5 : Testing (use) – months 31 through 34 (basic modules) and 33 through 36 (specialist modules)
- Workpackage 6 : Dissemination – months (1) 24 - 36
- Workpackage 7 : Project coordination – months 1 - 36

D.1.- OVERVIEW OF PARTNERS Please provide information on all partners (including promoter and co-ordinator) in alphabetical order of country code using the table below.

N°	Country code	Name of organisation/institution in national language	Org. type code	Region code	Sector code	Size code	Contact person		Street and No Town/City Post code Country	Telephone Fax E-mail	Budget (KECU) (preliminary, rounded figures)		
							Name	M/ F			Total	Requested from Leonardo	%
P1	B	Katholieke Universiteit Leuven	U	BE24	80	S7	Walter Bogaerts	M	W. de Croylaan 2, B-3001 Leuven, Belgium	+32/16-321222 +32/16-321991 walter.bogaerts@mtm.kuleuven.ac.be	265	200 *	75%
P2	UK	UMIST - Corrosion & Protection Centre	U - OF	UKD3	80	S3	S.B. Lyon	M	P.O Box 88, Manchester M60 IQD, UK	+44 / 161-200-4846 +44 / 161-200-4865 corrosion@umist.ac.uk	100	75	75%
P3	B (EUR)	European Federation of Corrosion	OPR (EUR)	BE1	99	S4	Paul McIntyre (J.Costa-W.Bogaerts)	M	p/a Institute of Materials 1 Carlton House Terrace SW1Y 5DB London - UK	+ 44 / 171 839 4071 + 44 / 171 839 2289 paul.mcintyre@materi als.org.uk	37.5	37.5	100%
P4	UK (EUR)	NACE International - European Region	OQ (OPR)	UKH1	99	S6	John Chase (Chris Fowler)	M	Adam Street, Bowesfield Lane Stackton-on-Tees Cleveland TSL8 3HQ.	+44/ 1642-614106 +44/1642-614100 ccel@corrproco.uk	12.5	12.5	100%
P5	D	DECHEMA (Gesellschaft für Chemische Technik und Biotechnologie e.V.)	GRE (OPR)	DE27	24	S3	Michael Schütze	M	Theodor-Heuss-Allee 25 D-60486 Frankfurt	+49/69-7564-0 +49/69-75 64-201 infsys@dechema.de	125	85	70%
P6	P	ISQ (Instituto de Soldadura e Qualidade)	OF - REC	PT13	29	S4	E. Dias-Lopes	M	TAGUSPARK, Apar 119 2781 Oeiras, Portugal	+351/1-4228100 +351/1-4228120 dlopes@isq.pt	125	85	70%
P7	B	CoRI (Coatings Research Institute)	REC	BE31 / BE1	29	S2	M. Piens	M	Avenue Pierre Holoffe B-1342 Limelette	+32/2 653 09 86 +32/2 653 95 03 cori@popost.eunet	45	30	70%
—	—	(ICT partner - European Economic Joint Venture) **	PME		30	S1	TBD		—	—	100	70	70%
—	—	Industrial users group: e.g. Esso, CorrPro, Monsanto ?...	GE + PME's		24/29		—	—	—	—	10	5	50%

* incl. subcontracts (translation, software development assistance, CD-ROM / DVD printing)

** to be confirmed in final proposal

E. ORGANISATION AND MANAGEMENT OF THE PROJECT

E.1. WORK PROGRAMME

– DRAFT : To be Elaborated for Final Proposal –

The total work programme is divided into 7 different workpackages (WP), each with clearly identified partnerships and responsibilities:

- **Workpackage 1 : Development of software shell(s)**

Development of basic software system adapted to the *specific domain of corrosion technology*, and taking into account the *course and training model* (incl. certification possibilities) : i.e., modular courses in multimedial electronic format, with non-supervised or supervised self-study and training facilities, multi-level course system, multi-lingual.

This work will comprise the development of (1) the software to be used on the *trainee/student* side (e.g. basic reading/listening/viewing functions; but also allowing more advanced features, such as placing intelligent bookmarks, making notes or annotations, sending remarks to other students and/or to the course administrator, taking intermediate tests and getting immediate interactive feed-back; etc...), and (2) the software for the general course management on the *trainer/teacher* side (access management and trainee registration, assigning modules and/or tests to trainees, database management and logging systems for monitoring student progress or test results, final test or exam arrangements (e.g. with proctoring system), etc...

Moreover, the software should (a) accommodate *different* separate or interacting *course modules*, each with specific multi-media and/or web-based interactions (incl. simulated field experiments or lab tests); (b) allow for *different levels* of the course, varying from very introductory ... to highly advanced treatment of specific subjects; and (c) should provide *multi-lingual* capabilities.

STARTING POINT : the work will start from previous work done by K.U.Leuven in a joint (private) project with NACE International and from software developed for an experimental teaching project on phase diagrams and thermodynamics.

RESPONSIBLE PARTNER(S) : K.U.Leuven (WP leader), with input on the course model from all other consortium members.

TIMING : months 1 through 15 after the project start, with some further updating and/or debugging during the remainder of the project (months 16 - 36).

- **Workpackage 2 : Content development – Basic MENTOR-C module(s)**

It is currently envisaged that the general MENTOR-C course and training package will consist of (a) a general or basic corrosion and corrosion protection training module(s) set (to be developed in Workpackage 2), and (b) a variable and possibly growing number of optional course or training packages on specialist subjects (to be developed in Workpackage 3, see below).

The required "resource documents and media" (i.e. all the basic paper-based documents, graphics, animations, software demo's, video's, etc...) will be produced or prepared in Workpackages 2 and 3, while the final conversion into coherent hypermedia training packages will be the subject of Workpackage 4.

The general course component will treat the basics of corrosion technology (*chemistry, electrochemistry, materials, and electronics* for e.g. the different corrosion measuring techniques) at *different levels* (e.g. 3 or 4 levels), varying from very elementary to highly advanced, depending on the initial level of knowledge of the trainee and on the final qualification he/she wants to achieve. It may consist of one multi-level module only, or there

may be two multi-level modules with a separate module on *corrosion protection* methods and related trainings (in view of the high importance of this for corrosion technicians).

Software developed under WP 1 should be capable to handle this *different level* approach, without the need to duplicate (or multiply) all (multimedial) course material for every individual level.

The course material of the general (basic) component should also be *multilingual* and the software should again be adapted to allow such multi-lingual version with a minimum of re-implementation effort. The reference language for the MENTOR-C project will be English, but it is planned to produce already during the current phase of the project versions in at least 2 or 3 other Community languages (German, French, Dutch, Portuguese, and/or Spanish).

STARTING POINT : the work will start from previous work done by K.U.Leuven in a joint (private) project with NACE International (NACE Basic Corrosion home study course text) and from electrochemistry or other basic teaching material available at UMIST (e.g. the E-Corr system). Furthermore, it will use training film material previously produced by the European Federation of Corrosion. The latter, however, needs updating, conversion, and other adaptations.

The total "volume" of training material foreseen for these general basic module(s) would be equivalent to some 300 to 800 pages of text (depending on the level), plus the lab session (simulation) material, the graphics animations, and a total amount of some 1 to 3 hours of video illustrations.

RESPONSIBLE PARTNER(S) : K.U.Leuven (WP leader), with input from EFC and UMIST.

TIMING : months 3 through 24 after the project start, with probably some further updating later in the project upon initial evaluations by "prototype" trainees (see Workpackage 5).

- **Workpackage 3 : Content development – Specialist *MENTOR-C* module(s)**

The purpose of the (optional) specialist modules is the training of different specialists in the various sub-domains of corrosion and corrosion protection technology (e.g. *water treatment, corrosion inhibitors & chemical treatment, cathodic protection, protective coatings, materials selection / design, failure analysis, pipelines or underground corrosion*, etc...). The training could lead to various specialist qualifications, such as installers or other technicians, supervisors, inspectors, etc...

For at least some of these modules (e.g. materials selection & design, or failure analysis) multilingual capabilities might be less important, in view of the expected higher level of education of the trainee taking the module. For other modules this may not be true (e.g. cathodic protection technicians or inspectors of e.g. underground storage tanks).

It is the goal to develop some 2 or 3 demonstration modules of this kind within the current project (e.g. coatings, cathodic protection and/or failure analysis), while further modules should be developed later (e.g. with financial resources originating from the exploitation of the initially developed training material).

STARTING POINT : the work will start from in-house (text based) training material available to members of the consortium, supplemented by some EFC film material, and possibly extended by vocational training material from NACE or some private companies (e.g. in-house training video's, slides, illustrations, software, ...).

The total "volume" of training material foreseen for these specialist module(s) will strongly vary from module to module, depending on both the subject and the level (or final qualification to achieve) of the course

RESPONSIBLE PARTNER(S) : Dechema (WP leader), with input from K.U.Leuven, CoRI, ISQ and Umist.

TIMING : months 6 through 30 after the project start, with probably some further updating at the end of the project upon evaluations by "prototype" trainees (see Workpackage 5).

- **Workpackage 4 : Conversion, Translation, Production**

The work comprises, for example, (1) conversion of all "resource documents and multi-media sets" (produced in WP 2 and 3) into the appropriate electronic format; (2) assembly of the individual hypermedia training modules, either as single stand-alone packages or as sets of interacting training tools, according to the envisaged training scenario's; (3) translation of some of the course material (this will be done by partners in the consortium, possibly assisted by specialised translation services); (4) final mastering of the training CD-ROMs or DVDs, printing of disks and supporting documentation (subcontracting), and setting up the appropriate Internet support sites.

RESPONSIBLE PARTNER(S) : K.U.Leuven (WP leader), with subcontracting support and support from partners in the consortium for translations (e.g., Dechema, CoRI, ISQ).

TIMING : this will be an ongoing task running together with the production of outputs from WP 3 and 4, and leading to the creation of different individual or bundled training modules that will become available at different points in time (e.g. for testing and debugging). Overall time span: from ca. month 6 through month 33 after project start.

- **Workpackage 5 : Testing (use)**

The Working Parties on *Education & Training* and on *Computer-based Systems* of the European Federation of Corrosion will organise trial sessions, probably in conjunction with NACE-International, and with the cooperation of a series of "prototypical" end-users, either individual private engineers or technicians, or employees from companies who have already expressed an interest in the project (both SMEs –e.g. CorrPro– and large corporations –e.g. BASF–).

RESPONSIBLE PARTNER(S) : EFC (WP leader), with input from NACE, Dechema, and some selected individuals and private companies. Technical support (e.g. Internet hosting, etc...) will be delivered by K.U.Leuven.

TIMING : months 31 through 34 (basic modules) and 33 through 36 (specialist modules) after the project start.

- **Workpackage 6 : Dissemination**

Ultimately, the courses will be offered to individuals seeking knowledge or training in the field of corrosion technology (maybe including certification), or to corporations seeking additional training possibilities for their employees.

It is sure that qualification and certification will be a future role for the professional societies (aside from the "regular" programmes offered by the universities or other educational institutions). This is also the role of the two European Corrosion Societies in this consortium (EFC and NACE-Europe) and they will have to design appropriate schemes of training and testing (e.g. through a proctoring system), together with a definition of the different levels or types of qualification and certification, etc... NACE International already has such a system in place, but is totally oriented towards the situation in the USA and needs to accommodate the possibilities of nowadays Information & Communication Technologies, e.g. also for taking the tests.

The outcome of the current Workpackage should therefore at least be a *contribution to an initial draft proposal for a (European) certification- & recognition mechanism & -procedure*.

Electronic training systems also pose *technical challenges* (operating servers, computer databases, maintaining web sites, ...) and the professional societies are normally not the best places to take care of these (although there are tendencies of rapid change). Therefore, the consortium will use the services of a small specialised company in the domain of electronic engineering information systems & services (a European Economic Joint Venture established by partners of the consortium for the exploitation of other EC project outcomes). Eventually, the future (commercial) exploitation could be backed by support of a large (electronic) publishing house (interest expressed by both Elsevier Science and Springer Verlag).

Another aspect of "Dissemination" is the generation of awareness and publicity around the project and its possibilities or results. This is a role for both the academic institutions of the consortium (Umist, KULeuven) and for the professional societies (EFC, NACE-Europe).

RESPONSIBLE PARTNER(S) : Umist (WP leader), responsible for general supervision of WP 6, with support from EFC and/or NACE (certification schemes) and the necessary technical support (K.U.Leuven, Connaissance).

TIMING : generation of public "awareness" concerning the project is an ongoing task from the very beginning of the project and running till after the end of it. Activities concerning certification schemes and concept developments will normally run from month 3 till month 30 of the project. Technical facilities development will run together with work in WP 4 and 6, but most of the work involved will be concentrated during months 24 and 36 (and after the end of the project !).

- **Workpackage 7 : Project coordination**

All the technical work will be coordinated and supervised by KULeuven, who has some initial experience in setting up (on-line) electronic corrosion training systems.

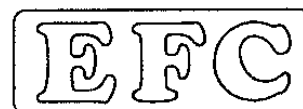
Inputs on the course and certification concepts, and much of the administrative tasks, will be the responsibility of the European Federation of Corrosion, either through its administrative secretariat in London (p/a Institute of Materials) or through its Working Parties: Working Party on Computer-based Systems (chairman prof. W. Bogaerts, Univ. Leuven) and Working Party on Corrosion Education and Training (chairman prof. J. Costa, Univ. Barcelona).

Furthermore, every individual workpackage has a lead partner who should control progress in his workpackage and report deviations and problems a.s.a.p. to the general technical coordinator.

Aside from a "kick-off meeting", management of the project will be organised through 6-monthly "project management meetings" (PMMs) with representatives from all partners. At mid-term (i.e. between month 18 and 19 after the project start) a "mid-term assessment meeting" will be organised where an in-depth review of the project status will be carried out (together with representatives from the Leonardo da Vinci programme). Reports will be produced with contributions from all participants, according to the schedule requested by the Leonardo da Vinci programme administration.

TIMING : month 1 through 36

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



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E-MAIL : SCI.fr@Wanadoo.fr

M. Lee BONE
President NACE International
PO Box 2183-40
HUSTON TX 77218-6340
USA

EUROCORR 2000

03/07/2000
EFC/PhB/PB

Dear Lee,

As you may have heard from Jerry Shankel, the EFC is in the process of formalising its relationship with NACE. As part of this process, proposals will be placed before the General Assembly to be held in London on 12th of September concerning the provision of a complimentary registration to EUROCORR for the President of NACE. To ensure that you are able to participate in EUROCORR 2000, I have great pleasure in enclosing a complimentary registration form. This includes attendance at the Conference Dinner which is to take place at the Millennium Dome on 13th of September.

We have discussed with Jerry Shankel the possibility of holding a meeting between EFC and NACE to discuss opportunities for future collaboration. Paul McIntyre will be submitting items for inclusion on the agenda for this meeting to Jerry later this week.

I hope that you will be able to attend. If this is not the case, we would be happy for the Vice-President of NACE to attend in your place.

Yours Sincerely,

Philippe BERGE
President
EUROPEAN FEDERATION OF CORROSION

Bureaux du Secrétariat Général - Grande-Bretagne et Allemagne.

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THE EFC-CCATA COOPERATION AGREEMENT - APPENDIX 1:
NOTES OF A MEETING HELD IN FRANKFURT ON 24 MAY 2000

Present:	Mr Ren Zhen Duo	CCATA Vice Standing President & General Secretary
	Ms Xin Yingdi	CCATA Vice Standing General Secretary
	Dr Philippe Berge	EFC President
	Dr Paul McIntyre	EFC Scientific Secretary

Background

This meeting took place in conjunction with AICHEMA 2000 at the instigation of CCATA (China Chemical Anticorrosion Technology Association). Its purpose was to devise a strategy for each of the main areas for cooperation between EFC (European Federation of Corrosion) and CCATA, as proposed in the Cooperation Agreement signed by Prof. P. L. Bonora on behalf of EFC and by Ms Yingdi on behalf of CCATA on 26 October 1999.

The decisions reached on each issue are summarised below:

1) Reciprocal Participation in Conferences

Both EFC and CCATA will explore the possibility of exchanging one complimentary registration (plus unlimited numbers of additional registrations at the members' rate) for each others' conferences. To qualify for the members' rates, bookings for European delegates must be made via EFC and those for people from China must be made via CCATA. While the EFC conference (EUROCORR) is held annually (except in years such as 2002 when the International Corrosion Congress takes place in Europe), the CCATA conference (CICCC) is held at three yearly intervals.

Note: It was accepted that these proposals must receive the approval of the management committees of the respective organisations. The outcome of these enquiries will in each case be available before the end of September 2000 when letters will be exchanged.

2) Promotion of Conferences

Both EFC and CCATA will promote each others' conferences. The next China International Conference (CICCC), which is to take place in Beijing on November 5-8 2002, will be publicised in the EFC Newsletter and EFC Member Society Journals, as appropriate. In reciprocation, CCATA will publicise EUROCORR 2001 (Lake Garda, Italy, 30 September - 4 October 2001) in its magazine "Total Corrosion Control". Furthermore, CCATA will provide EFC with details of "Total Corrosion Control", including circulation figures, frequency of publication, type of audience and the cost of placing advertisements so that opportunities for European companies manufacturing corrosion control equipment to advertise in it can be announced in the EFC Newsletter and other suitable publications.

3) Compilation of a Publication entitled “An Introduction to Contemporary Technology and New Products of European Anticorrosion Industry”

The Government in China is promoting the development of the country's Western Region, including the construction of a major new oil pipeline, so there is much interest in recent technological developments in the anticorrosion field within Europe. However, due to other priorities, it was recognised that EFC is not in a position to compile a book on such developments, and related products, for translation into Chinese and distribution to CCATA members. However, EFC will make efforts to obtain information of the sort required (ideally, one-page summaries of individual companies and their products in fields such as cathodic protection, advanced coatings, new materials, etc.), from relevant EFC Working Parties for forwarding to CCATA. CCATA will acknowledge such assistance by including EFC among the editorial team, but only after obtaining EFC approval once the publication has been inspected by the EFC.

4) Training and Education of Personnel

EFC will provide copies of its publications to CCATA at a discount of 20% on purchases of up to 20 copies and of 33.3% on bulk purchases of over 20 copies. CCATA will advertise the EFC Books in their magazine and will publicise them through libraries and universities in China. Should CCATA wish to translate any of the EFC Series into Chinese and market them in China, EFC will negotiate the necessary commercial agreement with its publisher (The Institute of Materials, London).

5) EFC Meetings in China and Vice Versa

It was agreed that it would be neither possible (nor appropriate) to hold future EUROCORR conferences in China or future CCCCC events in EUROPE. However, web links will be established between the EFC and CCATA web sites as quickly as possible via discussions with DECHEMA e.V.

The possibility will be investigated of the organisation by EFC of a special session on a subject of interest to both CCATA and EFC (e.g. cathodic protection) at CCCCC 2002.

Concluding Remarks

This summary of the detailed proposals for cooperation between EFC and CCATA will be appended to the Cooperation Agreement between EFC and CCATA for implementation on approval by both organisations.

From: Prof. H. J. Grabke [grabke@mpie.de]
Sent: Thursday, June 29, 2000 10:33 AM
To: paul_mcintyre@materials.org.uk
Subject: FW: EFC proposal for a european network on incinerators

Dear Dr. McIntyre,

thank you for your e-mail of 18th May, and excuse me for not answering earlier, but in spite of being retired since end of May I am still very busy (I am continuing as consultant for the MPI). I spoke with P.P. Schepp of DGM and he ascertained that our proposal is accepted and will be funded this fall. Concerning the network organised by Petten - they have a more general scope, including emissions, performance, reliability and maintenance of waste incineration plants. I intend to restrict our network to materials and corrosion. Certainly many of the partners in PREWIN will be involved in our network, the contacts are already existing. I may add that I found the many details of the texts in the Collaboration Agreement striking and hope to get along with less organizational efforts.

Yours sincerely

H.J. Grabke

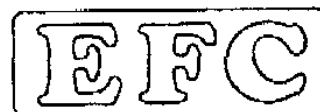
EFC

F-75007 Paris

16.06.2000

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



EFC Membership Card

The EFC Membership Card is to be created to make the European Federation of Corrosion more transparent to individuals and to make membership in national societies more attractive.

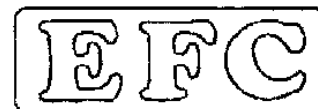
Benefits to the holders of the EFC Membership Card

The members of an EFC Member Society who has signed the EFC Membership Card Agreement would obtain the same discounts on conference rates and publications (if any) organized/offered by another EFC Member Society who also participates in the scheme as obtain the national members of the said EFC Member Society.

Benefits to the EFC and to EFC Member Societies

- o The EFC would become more visible to individuals.
- o Events would become more attractive to participants from abroad.
- o Membership of a national society would be more attractive because the EFC Membership Card would be an added value.

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



EFC Membership Card Agreement (D R A F T)

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

THE CORROSION ASSOCIATION
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 E-mail: mdoruk@metu.edu.tr

Dr.W.Meier
 EUROPEAN FEDERATION OF CORROSION
 Frankfurt Office of General Secretariat
 DECHEMA e.V.
 Theodor-Heuss-Allee 25
 D-60486 Frankfurt (MAIN)
 GERMANY

30.06.2000

Dear Dr.Meier,

Many thanks for your kind letter of 13 April 2000 concerned about the membership of the European Federation of Corrosion, and for detailed information how to apply for it.

The Corrosion Association in Turkey was established in 1987 as an independent non-political, non-governmental and non-profit making organization of Turkish scientists and engineers of distinguished achievements to the promotion of corrosion science and engineering in this country. As you may take from the Statutes, the Association conducts activities in the following areas:

1. *To promote awareness on the national level of the importance of corrosion, especially the resulting economic losses and aspects related to environmental health and safety,*
2. *To provide the medium for coordination and communication between Universities, research institutes, industrial and investment organizations interested in and working in the field of corrosion, and for this purpose to conduct scientific meetings, seminars, panels, courses and exhibitions,*
3. *To continuously monitor developments in the science of corrosion as also corrosion prevention methods, to disseminate the information collected for application on a priority basis and to store it for later referral as necessary,*
4. *To encourage and support national research in corrosion science and the development of corrosion prevention methods and to ensure the coordinated selection of research topics,*
5. *To attempt the standardization of technical terms related to corrosion and the standardization of materials, equipment and designs related to corrosion prevention, and to support the activities of other organizations in this areas, and*
6. *To contribute to the enrichment of Turkish technical literature by producing publications on corrosion.*

In the realization of these activities the most important principle of the Corrosion Association is to insure close communication and cooperation with national and international organizations working in this field.

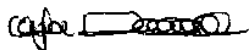
Since its establishment the Corrosion Association in Turkey has realized six Symposiums on Corrosion basically on the national level, but with a strong and ever-increasing international participation. Therefore, the Association decided to conduct this well-known event as an international activity, starting from 7th International Corrosion Symposium, which will be held 18-20 October 2000 in Istanbul (Attachment 1). It has been the policy of the Corrosion Association to publish a book covering the proceedings of each of these biennial symposiums. Under separate cover, I send you proceedings of the last symposium which was held on 4-7.11. 1998 in Izmir (Attachment 2).

In 1889, the Corrosion Association initiated a bilingual journal entitled 'KOROZYON', which is published three times a year. This journal publishes original articles, translations, research results especially related to practical applications, papers treating information from case-studies, survey and review articles, conference reports and book reviews in English and Turkish on the subject of corrosion. Starting from 1995, we had to reduce the number of issues due to the financial constraints. Nevertheless, the Association gives every effort to continue this publication even with some delay. A complete set of issues is sent to you under separate cover (Attachment 3). In addition, the Association succeeded to come up with a comprehensive book on Corrosion and its Prevention by Prof.Dr.Saadet Üneri, which arouse great interest as a textbook and a valuable resource for engineers (Attachment 4).

Since its establishment in 1987, the Association has organized several seminars and workshops to address to corrosion problems of various sectors of industry, including also the pipeline-transportation and storage sectors.

Based on the decision of General Board of 25.06.2000, I have the great pleasure and privilege to send this application in name of the Corrosion Association in Turkey for the membership of the European Federation of Corrosion. It is our hope and expectation that it will be considered at your very next Board and General Assembly meeting to be held on 10-14 September 2000, in London. May I remind you again, that the above documents together with the English translation of the statutes of Association are sent under separate cover. Their arrival at your Secretariat may take a couple of days.

With kind regards,



Prof.Dr.Mustafa Doruk
Head of the Board
The Corrosion Association

ATTACHMENTS:

1. The first Circular of 7th International Corrosion Symposium to be held on 18-20 October in Istanbul, Turkey
2. Proceedings of the 6th Corrosion Symposiums
3. Complete set of issues of Journal 'KOROZYON'.
4. 'Korozyon ve Önlenmesi' by Saadet Üneri
5. The Statutes of the Corrosion Association in Turkey (in English)

"STATUTE OF CORROSION ASSOCIATION"

OBJECT AND SCOPE:

Article 1: An association has been founded under the name of "Corrosion Association".

Article 2: The headquarters of the Association are located in Ankara, Middle East Technical University. The Association can carry out activities in all provinces of Turkey.

Article 3: The aim of the Association is to: carry out activities in Turkey related to the corrosion science and corrosion prevention procedures and to the promotion and extension of the interest in these.

The Association performs the following activities in order to reach this aim:

- a) Encourage the development of corrosion science and corrosion prevention procedures, strive for the diffusion thereof, ensure that the technology necessary for the implementation of prevention procedures is developed,
- b) Support education on corrosion and corrosion prevention,
- c) Search for means for the training needed by the industry regarding corrosion and corrosion prevention and to cooperate with other institutions regarding this,
- d) Gather information related to corrosion and corrosion prevention, diffuse and store as reference material especially in the form that may be needed by practitioners,
- e) Organize and hold scientific meetings, conferences, courses, seminars on corrosion and corrosion prevention,
- f) Organize exhibitions for the promotion of procedures,
- g) Technologies, facilities and materials used in corrosion science and corrosion prevention,
- h) Enter into cooperation with other national, and upon the approval of the Cabinet of Ministers, international organizations founded or that will be founded in the future with similar objectives on issues related to the realization of the Association's objectives.

Article 4: The charter members of the Association are as follows:

No	Name Surname	Place of Birth	Date of Birth	Occupation	Residence Address	Nationality
1	Oktay ANAT	Afyon	8/10/1937	Electrical Eng., MSc	Hoşdere Cad. 190/2 Çankaya Ankara	Turkish
2	Nurettin ARIEL	Ankara	25/5/1949	Chemical Eng., MSc	TEK Lojmanları 51/3, Gölbaşı, Ankara	Turkish
3	Ahmet ÇAKIR	Burdur	21/12/1949	Academician	Fevzi Çakmak Cad. No. 37/34 Bornova, İzmir	Turkish
4	Ali Fuat ÇAKIR	İstanbul	25/4/1938	Academician	Meray Sitesi, Saygılı sok. Denya apt. A12, Etiler, İstanbul	Turkish
5	Mustafa DORUK	Konya	23/2/1932	Academician	Güvenevler, Kıbrıs sok. 12/12 Ankara	Turkish
6	F. Hakan EKİM	Ankara	13/10/1952	Physics Eng.	Bağdat Cad. 381/1 Soley Apt. D.2 Suadiye İstanbul	Turkish
7	Mehmet ERBİL	Niğde	20/4/1947	Academician	Çukurova Üniversitesi Lojmanları Çamlıtepe 162 Adana	Turkish
8	Turgut M. GÜR	İstanbul	1/1/1945	Chemical Eng., MSc	Nispetiye Cad. Feruze Sok. Ceylan Apt. 1/30 Etiler, İstanbul	Turkish
9	Necila HALILOĞLU	Ankara	22/9/1956	Chemical Eng.	Bilir sok 40/2, Küçüksat Ankara	Turkish
10	Naci KALYONCU	G. Antep	22/2/1947	Electrical Eng.	Ataç sok. 34/4 Yenışehir Ankara	Turkish
11	Ethem Ruhi KENDİ	Konya	2/7/1947	Electrical Eng.	4. Cadd. Azim Apt. No. 23/7 Emek Ankara	Turkish
12	Hüseyin Necil KURTKAYA	İstanbul	1943	Electrical Eng., MSc	Cinnah Cad. No. 33/4 Çankaya Ankara	Turkish
13	Esat İsmail PINAR	Gelibolu	30/12/1952	Chemist	Şenyuva Mah. Meriç Sok. No. 13, B. Blok D.18 Beştepe Ankara	Turkish
14	Sadi ÖZGE	Tarsus	15/5/1945	Chemical Engineer, MSc	TEK Lojmanları 17-8 Gölbaşı Ankara	Turkish
15	Mustafa TUNÇGENÇ	İzmir	25/4/1954	Chemical Engineer, MSc	1743 sok. no. 18/3, Daire 9, Karşıyaka İzmir	Turkish
16	Saadet ÜNERİ	Divriği	1339	Academician	Seyranbağları Başçavuş sok. 80/4, Ankara	Turkish
17	Hayri YALÇIN	Kırşehir	31/3/1939	Academician	İçcebeci, Dirim sok. 12/5, Ankara	Turkish
18	Orhan YAVUZ	Afyon	7/1/1940	Civil Engineer, M.Sc	Cumhuriyet Cad. 20/6 Elmadag, İstanbul	Turkish
19	Yaşar Ulvi YILDIRIM	Balıkesir	22/5/1929	Mechanical Engineer	Emlak Kredi, 166 Konut Evleri A1 Blok D.28, Levent İstanbul	Turkish
20	Mehmet YÜKSEL	Çanakkale	14/10/1940	Academician	Karadeniz Üniversitesi Lojmanları 25/4, Trabzon	Turkish

ENTRY AND LEAVING THE ASSOCIATION BY MEMBERS

Article 5: Members of the Association are:

- a) Principal members, and b) Honorary members.

Article 6: In order to be accepted as principal members it is required to be working on corrosion science and corrosion prevention, to agree with the Association's objects, to be recommended by two principles members and agree to pay an annual subscription of at least (2000) TL and to meet the conditions specified in Article 16 of the Associations Law no. 2908. The Executive Board evaluates and finalizes principal membership applications within thirty days. Charter members are principal members.

Article 7: Honorary members are selected among people who make important contributions to the realization of the Association's objectives and bring innovations to science and technology, with the proposal of the Executive Board and the acceptance of the General Board.

Article 8: Members who fail to pay their subscriptions for two consecutive years are deemed to have resigned.

Article 9: Members who become legally disable and those acting discredibly are discharged from the association with the decision of the Ethical Board and acceptance of the General Board. In case one of the conditions specified in Article 17 of the Associations Law no. 2908 is established the member is discharged by the Association's Executive Board.

ORGANS OF THE ASSOCIATION

Article 10. The organs of the association are the General Board, Executive Board, Board of Supervisors and Ethical Board, and committees.

Article 11. The General Board consists of the principal members of the Association and of branch representatives selected by Branch General Boards in case such branches are opened. The General Board convenes annually in June. Furthermore, the General Board may be invited to convene by the Executive Board or the

request of at least one fifth of the members. The members of the Association have equal rights. Each member has a single vote in the General Board and can represent at most one other member. Honorary members do not have the right to vote.

Article 12: The General Board convenes with the participation of the majority of members having the right to participate in the General Board according to the Statute of the Association.

Article 13: The members are invited to the meeting at least 15 days in advance by advertising the time, venue and agenda of the meeting in a newspaper and the situation is notified to the local administrator in writing. The list of participating members is attached to this letter. The members participating in the General Board enter the meeting by putting their signatures next to their names in the list made by the Executive Board. If the quorum is not established in the first meeting the meeting is postponed to 7 days later the earliest; no quorum is required for the second meeting, however, the number of members participating in this meeting should not be less than twice the number of members of the Executive Board and Supervisory Board of the Association.

Article 14: The meeting is opened by the Chairman of the Executive Board or any other member of the Executive Board delegated by him. The failure of the state inspector to attend the meeting does not necessitate the postponement of the meeting. Following the opening, a Chairman, as many as required Assistant Chairman and Clerks is elected to chair the meeting.

The clerks prepare the minutes and sign the same with the Chairman. At the end of the meeting all minutes and documents are given to the Executive Board.

In the General Board meeting only items on the agenda are discussed. However, it is obligatory to include in the agenda items the discussion of which are required by at least on tenth of the attending members.

Article 15: The General Board discusses and decides upon the following issues;

- a) Election of Association organs,
- b) Amendments in Association statute,

- c) Discussion of the Executive Board and Supervisory Board reports, release of the Executive Board,
- d) Discussion and acceptance with or without modifications of the budget and activity program prepared by the Executive Board,
- e) Authorization of the Executive Board for the purchase of immovable properties needed by the Association or the sale of existing immovable properties,
- f) The international activities, membership or leaving associations or institutions of the association with the permission of the Cabinet of Ministers,
- g) The termination of the Association,
- h) Performance of other duties specified in the regulations or the Association Statute as required to be performed by the General Board,
- i) Establishment of the annual subscription fee.

Article 16: The Executive Board consists of five principal and three alternate members. It is selected by the General Board for one year duration. The Executive Board elect among themselves a Chairman, an Associate Chairman, a General Secretary and an Accountant. The Executive Board convenes with the absolute majority of its members. The decisions are made with the majority of attending members. In the case of a tie the side supported by the Chairman is deemed to win. Members that fail to attend three consecutive meetings are deemed to have resigned from the Executive Board. In case of one of the principal members leaving, it is obligatory to call one of the alternate members to duty.

Article 17: Duties of the Executive Board:

- a) Execute administrative and financial affairs of the Association and apply General Board decisions,
- b) Prepare the forthcoming year's budget,
- c) Represent the Association and delegate one or more members among themselves for this purpose,
- d) To carry out the following activities and other similar activities related to the objectives of the Association with the support of the committees:
 - Publish magazines,
 - Organize courses,
 - Hold scientific and technical meetings (congresses),
 - Publish books and booklets (monographs and original work),

- Organize trips,
 - Establish an archive-library and provide documentation for members,
 - Increase public awareness on corrosion and the importance of preventing corrosion,
 - Carry out activities accelerating the transfer of technical information from abroad,
 - Cause examinations and assessments on corrosion and corrosion prevention to be made and regularly publish the results thereof.
- e) Decide upon the opening of Association branches and authorize branch charter members,
 - f) Form groups in other parts of Turkey as long as there is no branch in that region and duly authorize representatives that will aid the performance of the duties of the Executive Board,
 - g) In case of acceptance of foreigners into membership, inform the highest local administrator of this within ten days.

Article 18. The Executive Board ensures that the following books are kept:

- a) Member record book: The identities, date of entry, monthly or annual subscription commitments of Association members are recorded in this book.
- b) Judgment Book: The Executive Board decisions are recorded in this book in date and number order and the decisions are undersigned by the chairman and members.
- c) Incoming and outgoing documents book: Incoming and outgoing documents are recorded in this book according to date and number. The originals of incoming documents and copies of outgoing documents are filed.
- d) Income and Expense Book: The origins of all money collected on behalf of the Association and the recipients of all expenses are shown in this book in a clear and ordered manner.
- e) Budget, final account and balance book.
- f) Fixture book.

Books specified in this article will be notarized.

COMMITTEES

Article 19: The committees are formed as "Permanent Committee" or "Provisional Committee". They consist of three or more principal members with one Chairman, one vice Chairman and

one Accountant, and three alternate members. Labour division is done within the committee.

Article 20: Members of Permanent Committees are elected by the General Board for a one-year-period. They carry out their activities within the authorization given by the Executive Board, in cooperation with the Executive Board and in line with the Association's objectives. They convene at least once a month.

The members of Provisional Committees are selected by the Executive Board and these are formed for a period of less than one year for the performance of certain duties. The organization of activities is similar to permanent committees.

GENERAL AUDITING OF THE ASSOCIATION

Article 21: The headquarters, transactions, accounts, books and activities shall always be audited by the highest local administrator and the Ministry of Interior in accordance with law no 2908.

ASSOCIATION BOARD OF SUPERVISORS

Article 22. The Board of Supervisors is elected by the General Board and consists of three principal and three alternate members. This board performs its supervision duty according to principles and procedures specified in the association statute and submits the results to the General Board in the form of a report.

Article 23: Within seven days of the election made by the General Board, the Executive Board shall inform the highest local administrator of the headquarters' location of the Executive Board and Supervisors, primary and alternate members names and surnames, father names, place and date of birth, occupation and residence.

ETHICAL BOARD

Article 24: The Ethical Board which consists of three primary and two alternate members is selected by the General Board for a period of three years.

FINANCIAL ISSUES

Article 25: The revenues of the Association are the following: member subscriptions, all types of grants and donations made in accordance with Article 61 of law no 2908, publication revenues, revenues obtained from activities such as exhibitions, balls etc. organized in line with the Association's objectives.

FOUNDING OF BRANCHES

Article 26: The Corrosion Association may open branches wherever it deems necessary. The Association Executive Board applies in writing to the highest local administrator of the place where the branch will be opened. The application must contain the names, surnames, father name, place and date of birth, occupation or crafts, residence and nationality of charter members; the branch address and two copies of the Association Statue and power of attorneys must be attached to the letter. Branch charter members must be residents of the branch location for at least six months before the opening. Association branches are subject to the provisions of law no. 2908.

DUTIES AND POWERS OF BRANCHES

Article 27: The duties of the branches are to carry out activities within the province they are located in order to realize the objective described in Article 3. The branches have the power to collect all types of revenue and the subscriptions of their own members; transfer amounts determined by the budget to the central Executive Board and make expenses in accordance with their activity programme with the remaining sum.

BRANCH ORGANS, FORMATIONS AND POWERS

Article 28: The organs of the branches are the General Board, the Executive Board and the Board of Supervisors.

Article 29: The General Board of a branch consists of the principal members of that branch. The General Board convenes annually upon the invitation of the Branch Executive Board. Branch General Boards must complete their meetings at least 15 days before the Central General Board meeting. Branch General Board meetings may be advertised by local means and media

instead of newspaper advertisement. The Branch General Boards discuss and decide upon the following issues:

- a) Election of branch organs and representatives for Central General Board,
- b) Discussion of Branch Executive Board and Board of Supervisors and the release of the Executive Board,
- c) Discussion and acceptance with or without modifications of the budget and activity program prepared by the Executive Board,
- d) Performance of other duties specified in the regulations or the Association Statute as required to be performed by the General Boards.

Article 30: The Branch Executive Board consists of 5 principal and 5 alternate members. In the division of labour, meeting and decision procedures the provisions applicable for the Central Executive Board are applicable. Branch Executive Board have the duty of representing the branch, execute the administrative and financial affairs of the branch, prepare the forthcoming years' budget, apply Branch General Board decision and perform branch province wide activities in all subjects in line with the associations objectives. For the books to be kept by the Branch Executive Board the same provisions to which the Central Executive Board is subject to are applicable.

Article 31: The Branch Board of Supervisors consists of 3 principal and 3 alternate members. In the performance of the supervision duty and other related issues the provisions of the statute are applicable.

REPRESENTATION OF THE BRANCHES IN THE CENTRAL GENERAL BOARD

Article 32: Association branches are represented in the Central General Board meeting by members delegated by the Branch General Board and the number of which will be on tenth of the branch members.

MODIFICATIONS IN THE ASSOCIATION'S STATUTE

Article 33: Modification can be made on the statute with the submission of the request of the Executive Board or one fifth of the members

to the General Board and with the acceptance of two thirds of members attending the meeting.

DECLARATIONS AND TERMINATION OF THE ASSOCIATION

Article 34: The Association will only publish scientific and technical publications in line with its objectives of founding and it will not publish communiqués, declarations and other similar publications.

Article 35: The General Board may always decide to terminate the Association. The termination is carried out according to Article 43 of law no 16305. In case of termination all moneys and properties of the Association become the property of the Turkish Scientific and Technical Research Council. The agenda item related to termination must have been advertised before the meeting. The decision for termination may be taken with a 2/3 majority of attending members. The local administrator must be immediately notified of the decision for termination.

Oktay Akat	Nurettin Ariel	Ahmet Çakır
Ali Fuat Çakır	Mustafa Doruk	F. Hakan Ekim
Mehmet Erbil	Turgut M. Gür	Necla Haliloğlu
Naci Kalyoncu	Ethem Ruhi Kendi	Hüseyin Necil Kurtkaya
Esat İsmail Pınar	Sadi Özge	Mustafa Tunçgenç
Saadet Üneri	Hayri Yalçın	Orhan Yavuz
Yaşar Ulvi Yıldırım	Mehmet Yüksel	



HUNGARIAN CORROSION SOCIETY
 Member of the European Corrosion Federation
 Corporate Member of the International Society of Electrochemistry
 Associate Member of the NACE-International
 Corporate Member of GfKORR Germany

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Prof. Dr. Erika Kálmán
 General Secretary

H-1025 Budapest,
 Pusztaszeri út 59-67.
 Phone: (36)-1-325-7548
 Fax: (36)-1-325-7509
 Kale@eric.chemres.hu
 http://www.chemres.hu

Prof. Dr. Ing. Michael Schütze
 Kurt-Winnacker-Institut der DECHEMA
 c. V. Theodor-Hauss-Allee 25
 D-60486 Frankfurt am Main
 Germany
 Telefax: 49-69-7564-388

Budapest, 25. 05. 2000

Dear Prof. M. Schütze,

The Hungarian Corrosion Society should like to propose Mrs. E. Dénes for the EFC Working Party "Corrosion by Hot Gases and Combustion Products".

She would participate on the next meeting on 11-12. Sept. 2000. Her address is the following:

DUNAFERR Research Institute
 H-2401 Dunaujváros
 Vasmű tér 1-3.
 Pf: 110
 Hungary

Best regards,

Erika Kálmán

Prof. Erika Kálmán
 General Secretary
 of the Hungarian Corrosion Society

GUIDELINES FOR THE ORGANISERS OF EUROCORR EVENTS

1. Organisation

- 1.1 As laid down in the EUROCORR Agreement, each event is to be organised by both an Organising Committee and an International Scientific Committee. The Organising Committee, to be nominated in advance by the host country, will include a member of the EFC Board of Administrators. It will have responsibility for the overall arrangements as spelled out in clause 2 of the Agreement. The International Scientific Committee, chaired jointly by the chairmen of the Organising Committee and of STAC, will include the EFC Scientific Secretary and the Chairmen of the EFC Working Parties, as appropriate, and will have responsibility for the technical aspects referred to in clause 1 of the Agreement.
- 1.2 Good organisation is essential. Meetings of organising committees must be well run and effective.
- 1.3 The efforts of the Organising Committee should be supported by help from the EFC in identifying topics of wide industrial interest.
- 1.4 The Organising Committee must invite members of the International Scientific Committee to at least one meeting in the host country to discuss the scope and content of the technical sessions and the split between oral and poster presentations.
- 1.5 Debriefing sessions should take place after each EUROCORR event so that any lessons can be recorded and passed on to the organisers of subsequent conferences.
- 1.6 In order to establish EUROCORR as a major international event and as the main annual event in the corrosion calendar for Europe, the host country may not hold another national corrosion event of similar standing in the same year. It is, however, welcome to integrate a national event into a EUROCORR conference.

2. Programme

- 2.1 There must be several strong sessions on industrial topics which will be attractive on a European scale and will complement the more fundamentally-based sessions offered by some Working Parties. These should have appeal to a much wider audience than just the other speakers and WP members at the conference. The aim must be to attract a majority of people from outside the EFC who attend because of what they can learn that will be relevant to their work.
- 2.2 Efforts should be made to attract speakers from industry, including those from related fields such as civil engineers and mechanical engineers.

- 2.3 Where possible, both the WP Chairmen and the organisers should focus the sessions on 'hot' topics having particular relevance to new and developing technologies.
 - 2.4 Each WP Chairman should accept full responsibility from the local organising committee for arranging a session that is not wholly dependent on papers submitted in response to the Call for Papers. Selected experts should also be invited to make contributions in order to guarantee the high quality of the programme. Each session should be of an agreed length and attract an agreed number of delegates. The WP Chairmen should take whatever actions are necessary to achieve their agreed targets.
- Note:** WP Chairmen whose topics are in decline may be released from this obligation with the agreement of the organising committees.
- 2.5 Some sessions should focus on very specific points since these can often be of broad interest. They need not be organised by the WP Chairman if some other member of the WP has more relevant knowledge of the subject.
 - 2.6 Where particular topics span the interests of more than one working party, there should be good liaison between all interested WP Chairmen to ensure that a coordinated approach is adopted (as in the case of inhibitors, and cathodic protection, for example). Joint sessions involving two or more WP should be organised, where appropriate.
 - 2.7 In addition, the local organisers should provide special topics of broad interest, encompassing disciplines other than just corrosion, and should identify key local speakers for them.
 - 2.8 Within the constraints imposed by the number and length of the sessions and the duration of the conference, the organisers should make every effort to minimise overlap between sessions that are likely to be of interest to the same audience, e.g. Cathodic Protection and Marine Corrosion.
 - 2.9 Provision should be included for meetings of the STAC, BoA and GA to take place in conjunction with EUROCORR, together with meetings of as many working parties as wish to meet during the event.

3. Venue

- 3.1 In order to provide an attractive product, the venue should be an appropriate one which can be accessed easily and at reasonable cost from the rest of Europe and where the member societies have a record for their professionalism and efficiency. This has to be confirmed by the STAC when recommending future congress organisers.
- 3.2 Low-cost accommodation should be available for those who need it.

4. Finance

- 4.1 The fees should not be so high that significant numbers of potential delegates are deterred from attending.
- 4.2 Reduced fees which encourage delegates to attend only a limited part of the conference should not be offered as a rule.
- 4.3 The local organisers must provide the EUROCORR levy to the EFC. This is currently 15 Euros per full fee paying delegate, subject to a minimum sum of 4,500 Euros, irrespective of the actual number of registrants. It is subject to periodic review by the EFC Board of Administrators and, from 2003 is scheduled to change to 5% of the total registration fees. Provision should be made for this levy when setting the fees for the conference.

5. Exhibition

- 5.1 DECHEMA will maintain contact with regular exhibitors and will develop a network of corporate sponsors who will exhibit at favourable rates at successive conferences.
- 5.2 The local organising committee should delegate responsibility for the organisation of the Exhibition to an individual who should liaise with DECHEMA.
- 5.3 It should be remembered that exhibitions are usually easier to arrange if they focus on a particular topic (e.g. coatings).

6. Publicity

- 6.1 The WP Chairmen will be responsible for publicising their sessions amongst their clientele. Each WP Chairman must encourage participation by delegates from industry and from non-EFC countries by distributing information about forthcoming conferences to their colleagues in industry and in other countries.
- 6.2 A mailing list should be built up of attendees at previous EUROCORR events and this should be passed on to the organisers of subsequent events.
- 6.3 The organiser of EUROCORR must publicise the event on the www.EUROCORR.org website which is available for this purpose from DECHEMA. Links to this website should be included on the www.EFCWEB.org website at DECHEMA, which is available for general EFC publicity purposes, and on the websites of both the Host Society/Societies and the other EFC Member Societies.
- 6.4 The host country should aim to provide at least one-third of the total number of registrants.

7. Other Points

- 7.1 Under the reciprocal agreement with NACE, the President of NACE will be invited to attend EUROCORR as a guest of the EFC. Both his registration fee and his attendance at the conference dinner will be borne from EFC funds.
- 7.2 Also under the reciprocal agreement with NACE, the organisers of EUROCORR will provide NACE with one complimentary place in the EUROCORR Exhibition.
- 7.3 The organisers will provide complimentary registrations for EUROCORR and the conference dinner to the EFC President and Vice-President, to the EFC Scientific Secretary and Honorary Treasurer, and to the members of the organising committees for EUROCORR. Any other complimentary registrations will be at the discretion of the organisers.

EUROCORR REPORT FORM 1 (TO BE COMPLETED BEFORE THE EVENT)**DATES OF EVENT**..... **VENUE**.....**OVERALL THEME OF THE CONFERENCE:**

.....

ANTICIPATED NUMBERS OF DELEGATES:

CATEGORY	REGISTRATION FEES (ex. VAT)	TARGET NUMBERS
Committee Members		
Invited Speakers		
Member Authors		
Non-Member Authors		
Members		
Non-Members		
Students		
		Total: _____

ITEMS INCLUDED IN THE FEES:

.....

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NUMBERS OF PAPERS:

ORAL PRESENTATIONS:

POSTERS:

TOTAL:

TOTAL NUMBER OF TOPICS**NUMBER OF PARALLEL SESSIONS**

EUROCORR REPORT FORM 2 (TO BE COMPLETED AFTER THE EVENT)**DATES OF EVENT**..... **VENUE**.....**OVERALL THEME OF THE CONFERENCE:**

.....

ANTICIPATED NUMBERS OF DELEGATES:

CATEGORY	REGISTRATION FEES (ex. VAT)	TARGET NUMBERS
Committee Members		
Invited Speakers		
Member Authors		
Non-Member Authors		
Members		
Non-Members		
Students		_____
		Total: _____

EUROCORR LEVY (Subject to a minimum of 4500 Euros):

Number of Fee Paying delegates x 15 Euros =

PERCEIVED REASONS FOR DISCREPANCIES BETWEEN THE ANTICIPATED AND ACTUAL NUMBERS OF DELEGATES:

.....

.....

.....

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LESSONS FOR FUTURE ORGANISERS OF EUROCORR:

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.....

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28, RUE SAINT-DOMINIQUE
75007 PARIS

Tél. : 01 53 59 02 10
Fax : 01 45 55 40 33

E-Mail : SCI.fr@Wanadoo.fr.
<http://www.scifrance.org>

Société de Chimie Industrielle

M. Philippe BERGE
Président
Fédération Européenne de la Corrosion

JCS/PB

Paris, le 20 avril 2000

Cher Président,

Faisant suite à la réunion du Board of Administrators de la Fédération Européenne de la Corrosion du 7 courant, nous souhaitons vous informer que la Société de Chimie Industrielle et le CEFRACOR s'associent pour présenter la candidature de la France à l'organisation en 2004 du Congrès EUROCORR.

Nous espérons que votre Fédération prendra en compte favorablement cette demande et nous vous prions, d'accepter, Monsieur le Président, nos salutations les plus distinguées.

Pour la SCI
Le Délégué Général
Jean-Claude STRINI

Pour le CEFRACOR
Le Président
Gérard PINARD LEGRY

C.c.: Dr P. McINTYRE, Institut of Matériaux, EFC Scientific Secretary
Prof. Dr. Gerhard KREYSA, Dechema, EFC Frankfurt Office

EUROPEAN FEDERATION OF CORROSION

THE BOARD OF ADMINISTRATORS

London, UK

12 September 2000

TREASURER'S REPORT FOR THE YEAR 1999

EUROPEAN FEDERATION OF CORROSION

BOARD OF ADMINISTRATORS

12 September 2000

HONORARY TREASURER'S REPORT

1. STATEMENT OF ACCOUNTS FOR THE YEAR ENDING 31 DECEMBER 1999.

1.1 Subscription Income

The current list of contributions due up to 31.12.99 from Member Societies is shown in Annex 1. For administration purposes the reference numbers remain unchanged.

The total sum received includes payments that were recorded after the end of the year and the two additional voluntary contributions from CEBELCOR and DECHEMA.

Contributions still outstanding are from

- (a) CSFCE (Italy) 1999
- (b) Committee for Corrosion Protection (Bulgaria) 1997,1998,1999
- (c) Ukranian Association of Corrosionists 1999

1.2 Income and Expenditure Account

The summarised I/E account is shown in Annex 2 comparing the original budget figures for 1999 with the actual result next to the figures for 1998. The balance sheet is shown in Annex 3. Further details of expenditure are shown in Annexes 4 and 5.

As a result of the emergency measures taken during the year, a predicted deficit of 5600 Euros has been reduced to 1589 Euros. The reserves are now on an upward trend and the "restricted" educational fund holds 4025 Euros.

The Board is invited to recommend the statement of account to the General Assembly for approval.

2. FINAL REVISED BUDGET FOR 2000 AND THE PROPOSAL FOR 2001

These are set out in Annex 6. Provision has been made for increasing the Scientific Secretary's fees to 12000 Euros and introducing a contingency sum of 500 Euros. An enhancement in income for 2000 has been associated with the transfer of a EUROCORR '99 levy of 7,500 Euros from the Aachen Congress.

The expected income from Personal Membership has been reduced to 500 Euros.

These changes will provide for a further consolidation of the accumulated surpluses.

The Board is invited to recommend this adjusted budget for 2000 and the proposal for 2001 to the General Assembly for approval.

3. FINANCIAL POSITION IN THE CURRENT YEAR

Invoices for contributions were sent out to Member Societies in June. An updated statement of account will be circulated when the Board meets.

4. RETIREMENT OF THE HONORARY TREASURER

A job description of his duties has been prepared to assist in the search for a successor within the UK corrosion fraternity.

C J L Booker
Honorary Treasurer

1999 CONTRIBUTIONS TO EFC FUNDING

Ref.	SOCIETY	COUNTRY	Charge Euros	Received Euros
1	Eisenhutte Osterreich Montanuniversitat	Austria	800	800
2	Branche Belge de la SCI	Belgium	500	500
3	CEBELCOR	Belgium	800	800
	Additional Voluntary Contribution			1000
4	Force Instituttet	Denmark	800	800
5	The Finnish Corrosion Society	Finland	800	800
6	CEFRACOR	France	800	800
7	Societe de Chimie Industrielle	France	800	800
8	GFKORR	Germany	800	800
9	DECHEMA eV	Germany	800	800
	Additional Voluntary Contribution			1000
10	Associazione Italiana di Metallurgia AIM	Italy	800	800
11	CSFCE	Italy	800	0
12	AITIVA	Italy	800	800
13	Nederlands Corrosie Centrum NCC	The Netherlands	800	800
14	<i>Bond voor Materialenkennis BVM</i>	<i>expelled</i>	-	-
15	Norsk Korrosjonsteknisk Forening	Norway	800	800
16	INETI	Portugal	800	800
17	<i>Sociedade Portuguesa de Quimica</i>	<i>expelled</i>	-	-
18	Sociedad Espanola de Quimica Industrial	Spain	800	800
19	Swedish Corrosion Institute	Sweden	800	800
20	<i>Schweizerische Gesell. fur Chimische Ind.</i>	<i>resigned</i>	-	-
21	<i>SGO</i>	<i>resigned</i>	-	-
22	Institute of Corrosion	UK	800	800
23	The Institute of Materials	UK	800	800
24	Committee of Corrosion Protection	Bulgaria	100	0
25	Croatian Society for Materials Protection	Croatia	100	100
26	Czech Association of Corrosion Engineers	Czech Republic	100	100
27	<i>Hungarian Chemical Society</i>	<i>resigned</i>	-	-
28	Hungarian Corrosion Society	Hungary	100	100
29	<i>Hungarian Scientific Society of Mech. Eng.</i>	<i>resigned</i>	-	-
30	Polskie Stowarzyszenie Korozyjne	Poland	100	100
31	<i>All Union Corrosion Association</i>	<i>dissolved</i>	-	-
32	Institute of Metals and Technologies	Slovenia	100	100
33	Ukranian Association of Corrosionists	Ukraine	100	-
34	Union of Eng. & Tech. for Prot. of Metals	Yugoslavia	100	100
	TOTAL		<u>17300</u>	<u>18300</u>

**EUROPEAN FEDERATION OF CORROSION
FINANCIAL STATEMENT
Year ended 31 December 1999**

INCOME AND EXPENDITURE GENERAL FUND

INCOME	Note	1999 budget		1999 results		1998 results	
		Euro	Euro	Euro	Euro	Euro	Euro
Subscriptions			16,100		17,800		18,600
Less: Subscriptions provided for	(1)		0		1,300		3,189
Net subscriptions receivable			16,100		16,500		15,411
Eurocorr levy	(2)		4,500		6,761		3,559
Royalties			3,000		2,136		1,832
Other income	(3)		0		911		421
Working party subscriptions			4,000		469		726
			27,600		26,778		21,949
EXPENDITURE							
<i>Scientific Secretary</i>							
Fees		10,000		10,385		10,118	
Special fees re Paris office		0		0		1,065	
Travel, accommodation, subsistence, postage, stationery & other costs		2,000		1,937		2,109	
IoM administration charge		7,500		8,050		7,100	
	(4)	19,500		20,371		20,392	
Honorary Officers expenses		2,000		929		1,329	
Support for working parties	(5)	7,500		6,872		5,347	
Medal		1,000		1,064		0	
Newsletter		3,000		0		3,329	
Bank charges		200		373		255	
Total expenditure			33,200		29,609		30,652
(Deficit)/surplus			(5,600)		(2,831)		(8,703)
Exchange gains			0		1,242		1,486
(Deficit)/surplus for the year			(5,600)		(1,589)		(7,217)
Surplus brought forward			8,150		8,150		15,367
Surplus carried forward			2,550		6,561		8,150
<u>EDUCATIONAL FUND</u>							
Grant received			0		4,025		0
Surplus carried forward			0		4,025		0

**EUROPEAN FEDERATION OF CORROSION
FINANCIAL STATEMENT**

Year ended 31 December 1999

BALANCE SHEET

		31/12/99 Euro	31/12/98 Euro
Current assets			
Current year subscriptions	(6)	1,800	4,200
Other debtors		274	0
Amount held by IoM		12,162	3,950
		14,236	8,150
Current liabilities			
Creditors and accruals		3,650	0
Net assets		<u>10,586</u>	<u>8,150</u>
 General fund		 6,561	 8,150
Education fund		4,025	0
Total funds		<u>10,586</u>	<u>8,150</u>

**EUROPEAN FEDERATION OF CORROSION
NOTES TO FINANCIAL STATEMENT**

1) Subscriptions provided for	1999 results		1998 results	
	Euro		Euro	
Sociedade Portuguesa	0		2,489	
Branche Belge	300		400	
Bulgaria	0		200	
Russia	0		100	
BVM (Netherland)	800		0	
Ukraine	200		0	
	<u>1,300</u>		<u>3,189</u>	
2) Eurocorr	Euro		Euro	
Eurocorr 1997	630		3,559	
Eurocorr 1998	6,131		0	
	<u>6,761</u>		<u>3,559</u>	
3) Other income	£	Euro	£	Euro
EFC workshop levy	417	650		0
Delegate recruitment PCE99	62	100		0
Contribution to meeting costs	100	161		0
Newsletter sales	0	0		421
	<u>579</u>	<u>911</u>	<u>0</u>	<u>421</u>
4) Scientific Secretary	£	Euro	£	Euro
Fees	6,450	10,385	7,125	10,118
Fees re Paris office	0		750	1,065
Postage	110	177	104	148
Printing & stationery	182	293	96	136
Travel & accommodation	908	1,462	1,197	1,700
Miscellaneous	3	5	88	125
Expenses	1,203	1,937	1,485	2,109
IoM administration charge	5,000	8,050	5,000	7,100
	<u>12,653</u>	<u>20,371</u>	<u>14,360</u>	<u>20,392</u>
5) Support for working parties	£	Euro	£	Euro
Scientific Secretary fees	750	1,208	750	1,065
Postage & courier costs	630	1,014	609	866
Other costs (paid)	657	1,000	2,406	3,417
Other costs (accrued)		3,650		
	<u>2,037</u>	<u>6,872</u>	<u>3,765</u>	<u>5,347</u>

EUROPEAN FEDERATION OF CORROSION
NOTES TO FINANCIAL STATEMENT

6) Subscriptions outstanding	1999 Results	1998 Results
	Euro	Euro
CSFCE (Italy)	800	0
Swedish Corrosion Institute	800	0
Bulgaria	100	0
Yugoslavia	100	0
Norway (NKK)	0	800
Branche Belge	0	800
Spain	0	800
CEFRACOR	0	800
Holland (BVM)	0	800
Czech	0	100
Ukraine	200	100
	2,000	4,200
Provision for irrecoverable subscriptions	(200)	
	<u>1,800</u>	<u>4,200</u>

EUROPEAN FEDERATION OF CORROSION
PROPOSED BUDGET FOR 2001

EXPENDITURE

	2000	2001
	Euros	Euros
Scientific Secretary:		
Fees	12000	12000
Travel & postage etc	2000	2000
Administration charge	8000	8000
Newsletter	0	0
Honorary officers expenses	3000	3000
European Corrosion Medal	0	1000
Support for Working Parties	6500	6500
Bank charges	300	400
Contingency sum	500	800
	<u>32300</u>	<u>33700</u>

INCOME

Subscriptions	26350	26350
Newsletter sales	0	0
Eurocorr Congress levy	4500	4500
Royalties	3000	3000
Individual membership	500	500
Other income	0	0
Exchange gains	0	0
	<u>34350</u>	<u>34350</u>
Less surplus to reserves	2050	650
	<u>32300</u>	<u>33700</u>

**REPORT OF THE SCIENTIFIC SECRETARY
TO THE BOARD OF ADMINISTRATORS , JULY 2000**

This year, the Scientific Secretary has participated in two meetings of an EFC Task Force established by the President to maintain the momentum of EFC activity between meetings of BoA and to prepare proposals for action by BoA and the GA. Brief notes and actions from these meetings were prepared and distributed to the other members of the Task Force. The meetings have been well worthwhile and the ideas that have emerged from them will result in closer working relationships between BoA and STAC, more efficient operation of the EFC Working Parties, and more effective EUROCORR events. Guidelines have been drafted for the organisers of future EUROCORR conferences, and these have been amended in response to recommendations from BoA prior to submission to the GA for approval.

In May, the Scientific Secretary visitedACHEMA in Frankfurt with the EFC President to meet with representatives of CCATA, the China Chemical Anticorrosion Technology Association, to discuss detailed arrangements concerning operation of the Cooperation Agreement between EFC and CCATA that was signed by the Past President last year. A summary of the agreements reached was prepared for inclusion as an Appendix to the Agreement, following approval by the General Assemblies of both organisations.

Assistance has been provided to the President and Vice-President in dealings with NACE International aimed at formalising the relationships between the two organisations and identifying the scope for more fruitful cooperation in future. Arrangements have been made for a meeting between senior representatives of NACE and the EFC to take place during EUROCORR 2000 in order to achieve further progress.

Contact has been maintained with FEMS in connection with the MATNET project and, following its approval by DG XII, the Scientific Secretary helped Prof. Grabke to revise his proposal to establish a European Network on Materials Problems in Waste Incineration Power Plants. This was successfully re-submitted for funding under Work Package A of MATNET.

Contact has been maintained with the WP Chairmen and the EFC Vice-President in connection with both the development of three-year work programmes, for which a special pro-forma has been prepared, and the arrangements for the technical sessions at EUROCORR 2000.

Help has been provided to the Series Editor, Mr A. D. Mercer, as required in connection with the preparation for publication of EFC books numbers 28, 29, 30 and 31. At the time of writing it is anticipated that all four volumes should be available for display and sale at EUROCORR 2000.

Input has been provided to Prof. Bogaerts in connection with the new MENTOR-C project proposal, which has to do with the development of computer-based corrosion teaching aids for remote learning purposes leading to eventual certification. This has been submitted for funding to the EU and the Scientific Secretary has acted as signatory for the EFC which stands to gain support amounting to 37500 Euros if it succeeds.

The Paris Office has been given support with preparation of the minutes of the last meeting of BoA and of the Working Papers for BoA and the GA in London. Work has proceeded on preparation of the Working Papers for STAC and the EFC Newsletter, although delays have been encountered due to other pressures, including the demands of acting as Secretary to the International Scientific Committee for EUROCORR 2000, with all that that entails.

A wide range of other administrative tasks has been undertaken, relating to the provision of financial support from EFC funds and secretarial support to the Working Parties.

P. McIntyre, 25 July 2000

RECENT ADDITIONS TO THE EFC SERIES OF PUBLICATIONS

EFC 28: Electrochemical Approach to Selected Corrosion and Corrosion Control Studies - Papers from 50th ISE Meeting, Pavia, September 1999

This book, edited by P. L. Bonora and F. Deflorian, presents a selection of 26 papers from the symposium on “Materials Corrosion and Protection” that was organised jointly by the ISE and EFC at the 50th ISE meeting in Pavia in September 1999. These papers cover five important aspects of electrochemical corrosion and protection research: inhibitors; organic coatings; inorganic coatings; passivity; and corrosion testing and evaluation in special environments. It will be of interest to researchers who want to get first hand information on current approaches in this field.

EFC 29: Microbial Corrosion - Proceedings of the 4th International EFC Workshop, Portugal, 1999

The Fourth International EFC Workshop on Microbial Corrosion was organised by Professor C.A.C. Sequeira and held in Lisbon in 1999. The current publication contains 28 papers devoted to both fundamental and applied aspects of the problem. The purpose of the Workshop was to highlight new advances from fundamental aspects to applications in the field of microbial corrosion. The papers are divided into five topic areas: mechanisms; biofilms; prevention and control; case histories; and other topics (with special reference to bioleaching studies). This book will be of interest to those already in the field and to the new generation of researchers and engineers.

EFC 30: Survey of Literature on Crevice Corrosion, 1979 to 1998 - Mechanisms, Test Methods and Results, Practical Experience, Protective Measures and Monitoring

Test methods used to qualify the susceptibility of stainless steels to crevice corrosion in marine environments are often unrealistic, such as ferric chloride pitting tests. As the starting point for the development of a reliable test method for passive metals that reproducibly reflects the long-term corrosion behaviour of these materials, Prof. F. P. Ijsseling has produced this extensive review of the international state-of-the-art on crevice corrosion. A joint project involving the EFC Working Parties on “Physico-Chemical Methods of Corrosion Testing” and “Marine Corrosion”, with 1083 references, this is the most complete overview on crevice corrosion available today. It will be an invaluable source of information for users and manufacturers of stainless steels.

EFC 31: Corrosion of Reinforcement in Concrete: Mechanisms and Protection - Papers from EUROCORR '99

This new volume in the EFC Series brings together the full papers presented in the successful session on “Corrosion of Steel in Concrete” at EUROCORR '99 held in Aachen, Germany. Thirteen papers after peer review are included, grouped under two headings: corrosion mechanisms and corrosion measurements; and corrosion protection of reinforced concrete structures. It provides a useful source of information to those engaged in the design, construction and maintenance of reinforced concrete structures.

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 e.V. 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