

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



**BOARD OF ADMINISTRATORS**

**Granada, Spain**

**September 27, 2002**

**WORKING PAPERS**

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## WORKING PAPERS

Meeting of the Board of Administrators

of the

European Federation of Corrosion

Granada, Spain, September 27, 2002

Venue of meeting:

**Congress Hall  
Paseo del Violon - s/n  
18006 GRANADA  
Spain**

Room number 9: ANDALUCIA I

Date and time of meeting:

**September 27, 03:00 pm**

Chairman:

**Mr Don Harrop (EFC President)**

Secretary:

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

**EUROPEAN FEDERATION OF CORROSION  
MEETING OF THE BOARD OF ADMINISTRATORS**

**GRANADA, 27 September 2002, 03:00 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     EFC Working Party Development
  - 3-1    Reactivation of WP 2
  - 3-2    New Proposal for WP 18 on “Tribo-Corrosion”
  - 3-3    STAC Membership Rules
- Item 4     Role of the EFC in Certification
  - 4-1    Progress on Mentor C: Proposal on Training and Certification
  - 4-2    Report on Workshop on Certification in Aix en Provence, EFC Event n° 253
- Item 5     Liaisons with other organisations
  - 4-1    EFC/NACE Collaboration
  - 4-2    FEMS
- Item 6     EUROCORR Series
  - 6-1    The Future of EUROCORR
  - 6-2    EUROCORR 2001
  - 6-3    EUROCORR 2003
  - 6-4    EUROCORR 2004
  - 6-5    EUROCORR 2005
  - 6-6    EUROCORR 2006
- Item 7     Finance
- Item 8     EFC Activities and Projects
  - 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    EU funding of EFC Activities
  - 10-1   Procedures to be adopted in dealing with future EFC/EU contracts
  - 10-2   Opportunities for EU support for EFC under the 6<sup>th</sup> Framework Programme
  - 10-3   EFC Registered Office
- Item 11    Any other Business
- Item 12    Date and Place of next BoA

## **WORKING PAPERS OF THE EFC BOARD OF ADMINISTRATORS**

### **Item 01    Opening of the meeting**

Mr. Harrop, 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 London meeting (26 April 2002) and to raise any matters not covered in the present agenda.

### **Item 2    Report on STAC Activities**

Dr Jörg Vogelsang, Chairman of STAC, will review progress in STAC since the last meeting.

### **Item 3    EFC Working Party Developments**

The resignation of Mr J. Harston (UK) as Chairman of EFC WP15 on Corrosion in the Refinery Industry was announced recently. His successor is M. François Ropital of the Institut Français du Pétrole.

#### ***3-1    Reactivation of WP2 (Corrosion and Protection of Steel Structures)***

Following criticism of his original proposal to reactivate WP2 at the meeting of STAC in Rival del Garda on the grounds that the objectives and terms of reference were insufficiently precise and covered too broad a field, Professor Darowicki has decided to postpone the inaugural meeting which was originally planned to take place in June 2002.

Instead, he proposes to hold the inaugural meeting next year and in the meantime to hold a meeting of Polish construction engineers and industrial designers to discuss the questions at issue. On this basis, a revised proposal will be circulated to the EFC Member Societies with a view towards soliciting broader support for the reactivation of WP2.

Professor Darowicki wants to focus more on the design, construction and renovation of metal structures. He has suggested 11 possible topics of interest (see **Appendix 1**) and would be grateful for comments on these and any other suggestions from the EFC Member Societies.

This will receive attention during the meeting of the STAC in Granada.

### **3-2 *New Proposal for WP18 on “Tribo-Corrosion”***

The proposal by Dr Ponthiaux of Ecole Centrale Paris, Chairman of the CEFRACOR Commission on Tribo-corrosion, to form a new EFC WP on Tribo-corrosion was included as Appendix 1 in the Working Papers for the meeting of BoA in London on April 26<sup>th</sup>. It was well received by all present.

Since that time, an enquiry among the EFC Member Societies has been initiated by the Scientific Secretary to seek nominees to participate in the inaugural meeting on 23 September 2002 in Granada. To date, WP18 has received written support from EFC Member Societies in Belgium, Norway, Portugal, Sweden, UK, and Yugoslavia. This exceeds the requirement for support from societies in at least four European countries laid down in the EFC Bye-Laws. Therefore, subject to approval by the STAC at its meeting in Granada, the BoA will be asked to recommend that the General Assembly should give its final approval to the establishment of EFC WP18 on Tribo-corrosion.

### **3-3 *STAC Membership Rules***

At the last meeting of the BoA it was decided that the EFC Bye-Laws relating to STAC membership (clause 15.1) should be revised to include all WP Chairmen as full members of STAC (with voting rights) and to reduce the number of elected members from 9 to 6, with emphasis being given to people from industry. An action was placed on the Scientific Secretary to propose a suitable revision to the EFC Bye-Laws.

The proposed revision of clause 15.1 is given in **Appendix 2**. The BoA is invited to approve this revision and to recommend it for acceptance by the General Assembly.

Subject to its approval, the change will take effect in 2004 when the next elections to STAC are to be held.

## **Item 4 *Role of the EFC in Certification***

### **4-1 *Progress on Mentor-C Proposal on Training and Certification***

The minutes of the kick-off meeting for the Mentor-C project on 27-28 March were distributed as Appendix 2 of the minutes of the BoA in London. A brief summary of the project is included in these Working Papers (**Appendix 3**). This draws attention to the fact that delays have been incurred because as of 31<sup>st</sup> July three of the seven partners had not signed their sub-contracts. Those who had not signed include CoRI, DECHEMA and NACE. In the case of DECHEMA this was because its administrators would not sign the sub-contract until they had seen the main contract between KU Leuven and the EU. The Scientific Secretary has requested that a copy of the contract should be forwarded to DECHEMA as soon as possible.

The first Project Management meeting for Mentor-C is to take place in Granada on Thursday 26 September 2002.

### **4-2 *Report on Workshop on Certification in Aix en Provence, EFC Event n° 253***

The colloquium entitled “Corrosion Certification: the European Scheme” took place on 4-5 June 2002 at the “Palais des Congrès” in Aix en Provence. This highly acclaimed event attracted approximately 100 delegates and the programme included over 20 presentations from nine different countries (Belgium, France, Germany, Italy, Norway, Poland, Sweden, UK and USA). About half of the presentations were given in French, but

excellent simultaneous translation into English was available for those who needed it. As well as presentations that reviewed the general approaches to certification in different European countries and a Workshop aimed at identifying ways to rationalise and reduce the number of accelerated test methods, there were several round table discussions with presentations on key subjects including:

- The opinion of end-users and suppliers on qualification and certification in the anti-corrosion field
- The qualification and certification of coating products
- The certification of coating inspectors
- The certification of personnel and companies for coating applications
- The certification of personnel and companies for cathodic protection

Several papers discussed the different approaches to corrosion certification that have evolved in different countries, with different numbers of levels and varying degrees of bureaucracy. This was the most comprehensive review of the topic yet to have taken place and the published proceedings, when they appear, will provide an excellent basis for the eventual achievement of equivalence of certification throughout Europe. This allow those obtaining their qualifications in one country the freedom to practise without hindrance throughout Europe and, perhaps, even further afield.

During the Opening Ceremony of the Colloquium, Professor Zucchi of the Aldo Dacco Corrosion Centre at the University of Ferrara presented the Cavallaro Medal for 2002 to Dr Alan Turnbull of NPL for his outstanding contribution to our understanding of localised corrosion and environmentally assisted cracking processes.

The Official Reception at the City Hall in Aix on 5 June was another splendid occasion, at which Gérard Pinard-Legry, the President of CEFRACOR, presented “la grande médaille du CEFRACOR” for 2001 to Pier-Luigi Bonora. This prestigious award is presented every fourth year to a non-French scientist with an international reputation in the fields of corrosion and corrosion protection.

## **Item 5 Liaisons with other organizations**

### ***5-1 EFC/NACE (National Association of Corrosion Engineers) Collaboration***

Previous contacts with NACE have envisaged collaboration which will include:

#### **1- Reciprocity agreement:**

- 25 % to 30 % discount on NACE products would be available for all EFC Members on presentation of the EFC Membership Card, including congress fees, which would be the same as for NACE Members.
- Reciprocal complementary registration for Presidents for NACE events and EFC events.
- Reciprocal links would be implemented between the EFC and NACE Web sites and a reciprocal exchange of information on the EFC and NACE events calendars would also be implemented.
- Reciprocal exchange of stands, free of charge, in EFC and NACE Exhibitions.

A draft agreement is being prepared by NACE, which has undertaken that it will be forwarded in good time for signature during the ICC in Granada. As of 25 August it has not been received.

- 2- Agreement could also be envisaged concerning participation by NACE in future EUROCORR exhibitions. NACE could attract exhibitors in return for some share of the income from the exhibition.

A meeting between NACE and EFC took place during the Aix-en-Provence congresses in June, at which NACE tabled its proposals relating to collaboration with EFC at EUROCORR 2003 and 2004 (see **Appendix 4**). While any contractual arrangements relating to these events would have to be between NACE and the appropriate Host Societies, guidance is sought from the BoA on the desirability of financial and non-financial partnerships between EFC Member Societies and NACE, especially where participation by NACE in the technical programme of EUROCORR is proposed.

### **5-2 FEMS (Federation of European Materials Societies)**

The Scientific Secretary participated in a meeting of the Co-ordination Committee for MatNet A (Structural Materials) on June 21 at which it was decided to establish Topical Groups on Complex Damage Mechanisms, Design and Composites and High Temperature and reactive Environments. Dr Grabke's project on materials problems in waste incineration will form the cornerstone of the latter group and Dr Grabke is requested to hold a meeting of his network before the end of the year.

## **Item 6 EUROCORR Series**

### **6-1 The Future of EUROCORR**

The preliminary views of the EFC President on the future of EUROCORR were presented at the last BoA meeting in London on 26<sup>th</sup> April 2002 (see Clause 3-1 and Appendix 3 of the Minutes).

During a meeting of the EFC Task Force held in Paris during July it was indicated that DECHEMA would be willing to participate behind the scenes in the organisation and promotion of future EUROCORR conferences. For example, DECHEMA could advise on IT systems to facilitate the efficient handling and refereeing of papers so as to ensure that deadlines for the publication of the final programme as much as six months ahead of the conference can be achieved. These could also enable delegates to download the papers in advance of the conference. DECHEMA also has unparalleled experience in the organisation of technical exhibitions and could assist with these also.

Since EUROCORR is important for the Federation as the principal annual meeting for corrosion specialists in Europe and as a showcase of progress on corrosion, it was agreed that these discussions should be further developed in Granada.

### **6-2 EUROCORR 2001**

During the last BoA meeting in London, no AIM representative could attend the meeting in order to present the report on EUROCORR 2001.

The President has since asked AIM to submit the completed report form and has raised the matter of the EUROCORR levy for last year's event since this has not yet been paid.

Progress over these matters will be presented.

### **6-3 *EUROCORR 2003***

The First Announcement and Call for Papers was circulated in spring 2002 (see **Appendix 5**).

Mrs Kálmán. will report progress over the preliminary arrangements for EUROCORR 2003 to be held in Budapest, Hungary, on 28 September - 2 October 2003.

### **6-4 *EUROCORR 2004***

EUROCORR 2004 will be held in France, in Nice Acropolis, on **12 - 18 September 2004**, and co-organised by both of the French EFC Member Societies, CEFRACOR and SCI. The general theme will be “**Prediction and Modelling of Corrosion**”.

The French organisers will present the preliminary arrangements for EUROCORR 2004.

### **6-5 *EUROCORR 2005***

EUROCORR 2005 will be held in Lisbon, on 9 - 13 October 2005. Prof. Mario G.S. Ferreira will be invited to the BoA meeting in order to present the preliminary arrangements for EUROCORR 2005.

### **6-6 *EUROCORR 2006***

Members are reminded that bids to host EUROCORR 2006 should be submitted in writing to the Scientific Secretary **by 31<sup>st</sup> December 2002**.

## **Item 7      Finance**

Mr Booker will present the EFC Accounts for 2001 and the proposed budget for 2003 (see **Appendix 6**).

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

## **Item 8      EFC Activities and Projects**

### **8-1 *Scientific Secretary's Report***

The Scientific Secretary will present his report covering activity since the last meeting of BoA in London on 26 April (**Appendix 7**).

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

### **8-2 *EFC Newsletter***

EFC Newsletter No. 12 has been prepared for distribution in Granada and on the EFC web site. The Scientific Secretary will summarise its content.



### **8-3 EFC Publications**

The Scientific Secretary will report on new editions of existing books and new titles currently in preparation in the EFC Series (see **Appendix 8**).

### **8-4 EFC Web Sites**

In order to increase the value of the EFC web site ([www.EFCWEB.org](http://www.EFCWEB.org)), it was agreed to provide the Working Party Chairmen with the opportunity to propose contributions to the EFC Web Site. It was also agreed that this item should be a major topic of the STAC meeting in Granada and that Mr Meier would lead discussion about the possible evolution of the Web Site.

## **Item 9 EFC Calendar of Events**

The Scientific Secretary will introduce an update of forthcoming events in the EFC Calendar, which now includes important non-EFC events (see **Appendix 9**).

## **Item 10 Administrative Matters**

### **10-1 Procedures to be adopted in dealing with EFC/EU contracts**

During the last BoA meeting, it was agreed that the EFC President and the Scientific Secretary would examine the Mentor-C Model Contract between the Contractor (K. U. Leuven) and each Partner, and provide direction to BoA on what action, if any, is needed to discharge its responsibilities in connection with future EU Contracts to which EFC is a Partner.

This meeting took place on 10 July and it is recommended that in future, contracts between the EU and the EFC should be signed on behalf of the EFC by three members of the Board of Administrators. This course of action reflects Article 23 of the EFC Statutes:

“All acts binding the Federation with regard to third parties, of either financial or legal nature, which are not part of day-to-day business, shall be signed jointly by three administrators duly empowered to act accordingly on a case-by-case basis by the Board of Administrators.”

The Board is invited to approve this proposal.

### **10-2 Opportunities for EU support for EFC under the 6<sup>th</sup> Framework Programme**

At the EFC Task Force meeting in Paris during July, Mr Meier presented a Working Document entitled “Supporting the Cooperation and Coordination of Research Activities Carried out at National or Regional Level (The “ERA-NET” Scheme)”. **Appendix 10** provides a brief summary of the 12-page document which has been circulated by the European Commission’s Research Directorate to generate an open discussion on ways to improve the cooperation and coordination of research activities in the 6<sup>th</sup> Framework Programme. There could be funding possibilities for the EFC since money will be available to establish 70 networks of experts concerned with the structuring of research in Europe, such as the experts belonging to the EFC Working Parties.

Mr Meier will outline the current situation regarding ERA-NET.

**10-3 EFC Registered Office**

At the last meeting of BoA Mr Pourbaix kindly offered to allow the EFC to use the address of CEBELCOR as its registered office, following difficulties encountered with the address of Branche Belge de la SCI. The President had gratefully accepted this offer and undertook to take matters further. Progress concerning the change of address will be discussed.

**Item 11 Any other Business**

Members are invited to raise any other matters.

**Item 12 Date and Place of next BoA**

The next BoA meeting will be held in spring 2003, at a date and place to be announced later.

# APPENDICES

### Text of Prof. Darowicki's Letter Concerning the Reactivation of WP2

Gdansk, 28th June, 2002

Dear Dr McIntyre,

After obtaining nominees for WP2 from 6 Member Societies, reservation from Germany and Belgium and discussion with some of the Polish constructors and designers I am proposing to move the WP 2 inaugural meeting to the next year. There are following reasons for this:

- 1) limited number of Societies accepting co-operation within WP 2 activity;
- 2) serious reservations from important Members with very realistic comments on interaction with other WPs,
- 3) necessity to establish essential fields for WP 2 activity that could be accepted and supported by most of the Members.

I am suggesting that a new programme for WP 2 is required. This should contain the topics that are outside of the other WPs activity. It seems that we should concentrate much more on construction and designing problems used for creating and renewing metallic structures. There is a new proposition from us to organise at first the meeting of the Polish construction engineers and industrial designers to discuss questions at issue. The meeting could be held after summer vacations in the end of September 2002 or in October 2002. We shall send you a report on the meeting suggestions that could be presented to EFC authorities. If you could attend the meeting as our guest it would be excellent but as your coming is not necessary connected with the meeting we shall follow any your proposition and time concerning your visit to Gdansk. We would appreciate to get any suggestions from Great Britain and other Member Societies on the problems connected with construction, designing and damage of the industrial structures when corrosion is a concern.

The Inaugural Meeting date could be established for the next year after obtaining a preliminary consensus with the constructing and designing groups, preparation of the new objectives for WP 2 and obtaining once more the acceptance of the Member Societies. The topics that could be of interest for WP 2 activity are:

1. material combinations under actual service conditions (composites with non-ferrous metals, other metals or plastics, etc.),
2. usage of combinations of corrosion preventive measures to obtain optimum durability of composite structures,
3. joining technology – welding, mechanical fastening, structural adhesive bonding,
4. problems connected with flow affected corrosion that lead to premature damages of pipelines, reactors, heat exchangers, and other equipment,
5. designing of tanks (filling and emptying affect bottom stress corrosion cracking, and numerous other problems),
6. designing of monitoring systems in the case of different types of corrosion,
7. corrosion failure analyses, case histories of catastrophic destruction of steel constructions (masts, halls, bridges, tanks, pipelines etc.).
8. fatigue analyses,
9. construction defect measurements (corrosion metallurgy etc.),
10. corrosion and safety (secondary containments etc.),
11. corrosion by attached materials (gaskets, etc).

There may be other industrial fields that are not the subject of interest of other WPs.

We would be much satisfied if you could collect some opinions on the proposition presented here.

Sincerely yours,

Prof. K. Darowicki

### **Proposed Revision of Clause 15.1 of the EFC Bye-Laws**

#### **a) Current wording:**

#### **15.1 Membership of the Science and Technology Advisory Committee**

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

##### **1 Elected members**

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

Only the nine elected members may exercise a vote in the Science and Technology Advisory Committee.

It is desirable that elected members include representation from academic and industry related organisations, including consultants.

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

##### **2 Chairmen of EFC Working Parties are encouraged to attend meetings of the Science and Technology Advisory Committee but (since they are non-elected members) may not exercise a vote.**

##### **3 The President and Vice-President of the EFC as well as representatives of the EFC Secretariat may attend meetings but without voting rights.**

##### **4 Others who can contribute to the work of the EFC may attend meetings of the Science and Technology Advisory Committee by invitation but without voting rights.**

**b) Proposed Revision (changes are shown in bold):**

## 15.1 Membership of the Science and Technology Advisory Committee

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

## 1 Elected members

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

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

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

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

2 Chairmen of EFC Working Parties are encouraged to attend meetings of the Science and Technology Advisory Committee **as full members with the same voting rights as elected members.**

## 3 The President and Vice-President of the EFC as well as representatives of the EFC Secretariat may attend meetings but without voting rights.

## 4 Others who can contribute to the work of the EFC may attend meetings of the Science and Technology Advisory Committee by invitation but without voting rights.

### **Mentor-C: Vocational Training in Corrosion Engineering**

Two years ago, Professor Walter Bogaerts of the Electrochemistry and Engineering Laboratory at the Katholieke Universiteit of Leuven (K.U. Leuven), Belgium, devised an ambitious project to develop modern distance learning materials for use in connection with vocational training in corrosion engineering. Summary proposals for a project with a total budget of € 820,000 were submitted to the European Commission (EC) for support amounting to €600,000 under the second phase of its Leonardo da Vinci Community Vocational Training Action Programme which runs from 2000-2006. The project was well received but its acceptance was delayed because of the priority then being given to language-related projects. However, it was finally approved late last year with a modest reduction of funding, of which approximately €30,000 is for EFC, and an official start date of 1<sup>st</sup> December 2001. It is scheduled to run for three years until December 2004.

Mentor-C is an acronym for Materials engineering training tools: on-line tutoring, international recognition and certification of Corrosion expertise. The goal of Mentor-C is to produce better systems for vocational training in corrosion (i.e. for technicians and engineers rather than scientists). These will be web-based or CD-ROM-based to facilitate use in distance learning courses. K.U. Leuven is the promoting organisation but there is also an industrial users group and six other partners, including:

CoRI - Coatings Research Institute, Limelette, Belgium  
 Corrosion and Protection Centre, UMIST, Manchester, UK  
 DECHEMA, e.V. - Frankfurt, Germany  
 EFC - European Federation of Corrosion, London Office, UK  
 ISQ - Instituto de Soldadura e Qualidade, Oeiras, Portugal  
 NACE International - European Region, Dudley, UK

The kick-off meeting for the project took place in Leuven on 27-28 March 2002 when Professor Bogaerts was appointed as Project Manager and pro tem. Chairman of the Steering Committee. Many administrative matters were discussed, including the intellectual property rights of those contributing existing materials to the development of new learning aids.

Most of the meeting was devoted to discussion of the six main work packages (WP 1 - 6).

WP 1 (months 1-15) concerns the development, adaptation and testing of software shells and will be led by K.U. Leuven. This will review available software platforms for the delivery of learning materials to the web or on CD-ROM/DVD, identify the most suitable option and adapt it for use with multi-level, multi-module, multi-lingual course materials. The aim is to produce working software including sample course material by the mid-term review after 18 months.

WP 2 (months 3-24) relates to the development of the basic Mentor-C course modules and will again be led by K.U. Leuven. These modules will be developed from common input materials including, for example, the UMIST ECorr software and the EFC corrosion films, but at two different levels: for technicians and engineers. Further materials will be made available to those wishing to pursue the science of corrosion to a greater depth. The basic modules will appear in several languages e.g. English, French, German and Spanish. Emphasis will be placed on the use of a problem-oriented approach to learning. This will ensure that everything is learnt in the correct context.

WP 3 (months 6-30) will provide at least three specialist modules for those familiar with corrosion basics who wish to receive training either in a particular aspect of corrosion technology (e.g.

protective coatings or the corrosion of welds) or for work in a specific industry (such as oil and gas production). These modules could eventually provide the basis for a European certification scheme at one or more levels. WP 3 begins shortly and will be led by UMIST. Final decisions on the topics of the specialist modules will be made within the next six months.

WP 4 (months 6-33) covers the digitisation of the printed and film materials and the mastering of CD-ROMs, DVDs and web materials. This activity will be led by K.U. Leuven.

WP 5 (months 31-36) will expose the teaching materials produced during the project to rigorous testing and evaluation. It will be led by the EFC whose Working Party on Corrosion Education and Computer Applications will organise trial sessions involving members of the industrial users group and other typical end users at all relevant levels.

WP 6 (months 24-36) on dissemination will also be led by the EFC and will publicise the project to make potential end users aware of what is to become available by means of announcements, press releases and demonstration workshops. This work package will also include considerations relating to intellectual property rights, copyright issues and commercial exploitation of the products. In addition, consideration will be given to the eventual use of the Mentor-C learning materials in a European certification scheme for corrosion technicians and engineers.

Within three years, Mentor-C will provide vocational training resources of high quality for use in distance learning courses, both supervised and unsupervised, for technicians and engineers throughout Europe wishing to increase their working knowledge of corrosion. The Mentor-C content and approach will be unique and will not compete with the more advanced course materials currently on offer from academic establishments.

Work is now progressing but delays threaten because so far only four of the seven partners have signed their sub-contracts.



### Abstract Preparation Instructions

Authors are kindly requested to send their 1-page abstracts to the **Scientific Correspondence** (address see below) by **20 January 2003**. Electronic submission of abstracts is preferred. Please follow the instructions given on the conference web site.

#### Format of abstracts

Abstracts may include tables, figures and references. Please prepare your abstract in electronic form as a word processor file, e.g. MS Word. Margins should be 30 mm wide on each sides of A4 size paper (210×297 mm). The text should be single-spaced and justified using Times New Roman 12pt font. The title should be typed centered in bold letters 14pt, followed by authors(s) names(s) (centered, 12 pt), and affiliations (centered, italic, 12 pt). Please leave a blank line between title and authors, authors and affiliations, and two blank lines between affiliations and the body of text. Please indicate the preferred mode of presentation (oral or poster) and preferred allocation of your paper to a Scientific Session.

#### SCIENTIFIC CORRESPONDENCE

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P. McIntyre (UK) – Scientific Secretary  
E. Berecz (Hungary)  
F. Blekkenhorst (The Netherlands)  
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I. Bakos, E. Berecz, M. Bod, É. Dénes, F. Haskó, P. Hencsei, I. Karl, F. H. Kármán, Zs. Keresztes, L. Kiss, J. Kónya, M. Lakatos-Varsányi, B. Lengyel, P. Linhardt, I. Lukovits, G. Mészáros, F. Molnár, T. Pajkossy, Á. Rauscher, A. Shaban, S. Szabó, L. Sziráki, J. Telegdi, Gy. Tolnai, T. Török, K. Varga, B. Verő, D. Zsámbók

### Exhibition organisers

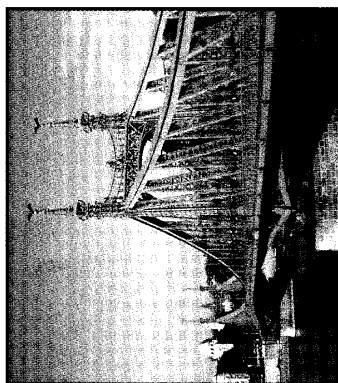
Coordinator: K. Nemes  
J. Bognár, B. Bölöny, L. Csizinszky, G. Demjén, F. Dömölky, L. Gál, M. Horváth, W. Meier, I. Pellérdi, Gy. Stráner, M. Tompa, L. J. Tóth, Gy. Vértés

### First Announcement and Call for Papers

# EUROCORR 2003

## The European Corrosion Congress

European Federation of Corrosion  
Event No. 261



### Bridge between Academy and Industry

September 28 – October 2, 2003  
Budapest, Hungary



## Call for Papers

EUROCORR 2003 will be organized by the Hungarian Corrosion Society (HUNKOR), member society of EFC. EUROCORR congresses are held every year in different European Countries and are nowadays considered major events in corrosion in Europe. The EUROCORR 2003 conference will cover the major topics of corrosion and corrosion protection of current interest from a fundamental to practical point of view. The scientific program will consist of oral and poster presentations in sessions of the different working parties of the EFC and introduced by keynote lectures. Authors wishing to present a contribution are asked to submit a 1-page abstract according to the *Abstract Preparation Instructions* by **20 January 2003**.

All information about the conference will be available on the web site: [www.diamond-congress.hu/eurocorr](http://www.diamond-congress.hu/eurocorr)

## Preliminary Scientific Sessions

- Corrosion and Scale Inhibition
- Corrosion and Protection of Steel Structures
- Corrosion by Hot Gases and Combustion Products
- Nuclear Corrosion
- Environment Sensitive Fracture
- Surface Science and Mechanism of Corrosion
- Corrosion Education and Computer Applications
- Physicochemical Methods of Corrosion Testing
- Marine Corrosion
- Microbial Corrosion
- Corrosion of Steel in Concrete
- Corrosion in Oil and Gas Production
- Coatings
- Corrosion in the Refinery Industry
- Cathodic Protection
- Automotive Corrosion etc.

## Hot Topics

- Nanostructured Functionalized Coatings
- Role of the Internet in Dissemination of the Corrosion Research Results etc.

## Registration

The second circular and the conference web site will include the complete registration form with details of registration fees, and both hotel and tour reservation information.

Preliminary registration fee: 490 EUR

Preliminary exhibition fee: 160 EUR/sqm + 25% VAT

## Location

Budapest, the capital of Hungary, is an economical, financial and cultural center with two million inhabitants. The city which is beautifully situated on both sides of the Danube river has a history dating back over 2000 years. There are ruins from the time of the Roman Empire as well as from the Middle Ages. Its main characteristics reflect the atmosphere of the end of the 19<sup>th</sup> century when the millennium of the Hungarian State was celebrated. It boasts a number of museums, theatres, concert halls, a lot of restaurants and other amenities. Several baths and thermal waters of various medicinal springs are also at the disposal of visitors. Budapest can easily be reached by air, train or car.

## Venue

After more than 15 years in operation, the Budapest Congress Centre is the largest congress and convention facility in the country. It is located in the middle of a wonderful chestnut-tree park. The Budapest Congress Centre provides full and flexible services and it also has an easy access to downtown, to the airport and to the highways.



## Publications

Abstracts will be provided to participants at the commencement of Congress. The proceedings consisting of the full papers on CD-ROM will be available at the congress.

Authors will be informed about acceptance of their paper by the end of March 2003 along with details on how to prepare the full manuscript. The 10-page manuscripts are requested to be submitted by **30 June 2003**.

## Language

The official language of the conference is English.

## Deadlines

- 20 January 2003 Submission of abstracts
- 31 March 2003 Acceptance notification for authors
- 30 June 2003 Submission of full manuscript for the CD-ROM

## Exhibition

Parallel to the Eurocorr 2003, the HUNGAROKORR - HUNGAROCOAT Joint Technical Exhibition will be organised featuring presentations and displays by manufacturers of instruments, materials, systems, publications and software of interest to attendees. Companies interested in exhibiting should contact the organizers for more information.

## Social Program

Several social events will be provided for registered participants and accompanying persons, including a welcome reception, cultural evening, and conference dinner. A wide variety of sightseeing tours to different places will be available to non-technical registrants.

Details of social events will be announced in the second circular and on the conference web site.

**NACE PROPOSALS ON EFC/NACE COLLABORATION OVER FUTURE EUROCORR  
EVENTS (TABLED IN AIX-EN-PROVENCE ON 4 JUNE 2002)**



**Eurocorr**  
EFC/NACE Collaboration  
Discussion Points

**Eurocorr 2003, Budapest, Hungary**

1. NACE participates as a non-financial co-sponsor, providing marketing support in exchange for logos on promotional materials.
2. NACE Provides:
  - a. Ads (EFC provides materials), editorial preview, and post show coverage
  - b. Use of NACE advertising and exhibitor prospect lists for exhibit marketing
  - c. Use of NACE membership lists to market registrations
  - d. Distribution of Eurocorr exhibit materials to C/2003 exhibitors at C/2003; distribution of Eurocorr program materials to C/2003 attendees at C/2003
  - e. Booth for EFC at C/2003
  - f. Use of C/2003 registration lists for marketing programs
  - g. Publicity on the NACE web site
  - h. Promotion in the NACE member electronic newsletter
3. EFC Provides to NACE:
  - a. 3 comp registrations
  - b. 1 comp 10X10 booth
  - c. Logo prominently featured on all print and electronic marketing materials
  - d. Registration and exhibitor lists in electronic form
  - e. Space at the conference to host a products sales area (book store room)

**Eurocorr 2004, Nice, France**

1. NACE would participate as a financial partner
2. All the marketing support described above would apply to Eurocorr 2004
3. Options for dividing the conference organizational tasks:
  - a. NACE could be responsible for organizing portions of the technical program divided by technical session (20 of 40 symposia) or by major subject category (marine coatings, CP, etc.) or by day. This can be confusing to authors
  - b. NACE could be responsible for collecting papers and organizing them into the proceedings CD while EFC handles center logistics
  - c. NACE could take in registrations through the NACE web site ecommerce system (all or U.S. registrations).
  - d. NACE could work together on exhibits and sponsorships, and split profits 50:50
  - e. NACE could partner with our UK book distributor to have a substantial publications sales area at the conference
  - f. NACE could also work with Quorum (education licensee) to run education courses immediately before or after the conference, driving up participation
  - g. Sales of exhibits will have to be a joint effort to effectively cover the primary European region and the secondary U.S. region.

#### 4. Other Co-organization Issues

- a. NACE would expect to have some joint peer review oversight of the papers with EFC. This could be accomplished through the UK Section/European Region.
- b. NACE is very careful about intellectual property rights. As a co-sponsor, NACE would want authors to sign an agreement either transferring copyright jointly to NACE/EFC or absolving NACE of all copyright complaints. NACE would also like rights to publish the papers in MP.
- c. We'll want to avoid scheduling conflicts with FCW, since Eurocorr is traditionally held in the fall. FCW 2003 is scheduled for September 7-12 in Pittsburgh, PA.
- d. The European Region and the UK Section will be valuable resources in NACE/EFC collaboration on Eurocorr.
- e. It is very difficult to sell U.S. exhibitors into attending European shows, particularly in this climate. Most exhibitors will come from Europe. We have an exhibitor prospects list of about 1,000 names and advertiser prospect list with 1,000 names. NACE is happy to work with EFC to facilitate exhibit sales by sending exhibit prospectus and other marketing materials to those groups, but we are wary about committing to a 'U.S. pavilion.'

#### 5. Revenue Sharing

- a. EFC's traditional revenue sharing arrangement with the host society would need to involve NACE
- b. The NACE share of revenues would need to parallel the share of organization and marketing expenses

#### Global EFC/NACE

1. Marketing support of Eurocorr could be factored into a standing, signed agreement between NACE and EFC
2. NACE financial involvement in Eurocorr would require a separate signed agreement

**REPORT OF THE SCIENTIFIC SECRETARY TO THE  
BOARD OF ADMINISTRATORS (AUGUST 2002)**

As the EFC representative on the Steering Committee for the EU-supported MatNet Project, I attended a meeting of the Steering Committee at FEMS in Frankfurt on 18 April and a Coordination Meeting with Prof. Degischer, the new leader of Work Package A on Structural Materials, in Vienna on 21 June. There it was decided that Topical Groups on “Complex Damage Mechanisms”, “Design of Composites” and “High Temperature & Reactive Atmospheres” would be formed. The EFC project on “Materials Problems in Waste Incineration” falls within the latter Group and work must now proceed as soon as possible. Unfortunately, Prof. Grabke, who confirmed his intention to undertake the work in April, has now retired and I have been unable to contact him since. Unless communications can be resumed shortly, it will be necessary to explore other ways of establishing a network in the high temperature field with EFC WP3 (Corrosion in Hot Gases and Combustion Products).

The kick-off meeting of the EU-supported Mentor-C Project took place in Leuven on 27-28 March and I attended it as Scientific Secretary and Coordinator for the project. I subsequently produced the report on the meeting that was appended to the minutes of the last meeting of the BoA and published an announcement about the work that appeared in *British Corrosion Journal*, Issue 2 (2002). Since then, an unexpected delay to the project has arisen because some of the Partners have not signed their sub-contracts. It is hoped that this situation will be resolved before the First Project Review Meeting takes place in Granada on 26<sup>th</sup> September.

In connection with EFC Event No. 253, the Colloquium on Certification held in Aix-en-Provence, the EU has made the first payment of €10,000 under the CORRCERT project into the new EFC bank account in Brussels that was set up with the assistance of Ir. Pourbaix earlier this year. I visited Aix on 4-5 June to attend the colloquium and to participate in a meeting with the Vice-President of NACE, Pierre Crevolin, at which NACE proposals for collaboration in future EUROCORR events were tabled. Since then, I have been in contact with NACE about the draft EFC/NACE reciprocity agreement, which, it is hoped, will be signed in Granada. On 26 July, I participated in a meeting of the EFC Task Force in Paris at which the NACE proposals relating to EUROCORR were discussed, and I have since asked the Executive Director of NACE, Jeff Littleton, to provide an updated version of the NACE proposals for discussion in Granada. While in Paris, I also met Michel Pierre of CEFRACOR to discuss details of the support for the Aix Colloquium (€25,000 in all) that should be reimbursed by the EU under the CORRCERT project.

I have maintained contact with Prof. Darowicki about the reactivation of EFC WP2 (Corrosion and Protection of Steel Structures) and with Dr Ponthiaux about the formation of EFC WP18 (Tribocorrosion). Enquiries were initiated among the EFC Member Societies to seek support and the nomination of official members to attend the inaugural meetings of WP2 and WP18. In both cases, the support offered was well in excess of the four-country support required by the EFC Bye-Laws. However, WP2 is postponing its inaugural meeting until next year in order to strengthen its proposal in the light of comments received from STAC and BoA. The inaugural meeting of WP18 will take place in Granada on 23 September 2002 and I will be in attendance.

While attending the Plenary Meeting of ISO/TC 156 (Corrosion of Metals and Alloys) in Lisbon in May, I met with Professor Ferreira to discuss the arrangements for EUROCORR 2005.

Since the meeting of the BoA in London, I have worked with the Paris Office to prepare the minutes of that meeting and, also, the Working Papers for both the BoA and GA meetings in

Granada. Further effort has been expended on the Working Papers for the meeting of STAC in Granada and on the latest issue of the EFC Newsletter.

Contact has been maintained with the EFC Working Parties, particularly with regard to the arrangements for Granada, where meetings of WP3 (Corrosion in Hot Gases and Combustion Products), WP7 (Corrosion Education and Computer Applications), WP9 (Marine Corrosion), WP10 (Microbial Corrosion), WP11 (Corrosion of Reinforcement in Concrete), WP13 (Corrosion in Oil and Gas Production), WP14 (Coatings), WP16 (Cathodic Protection) and WP17 (Automotive Corrosion) are planned. The inaugural meeting of WP18 (Tribo-Corrosion) will also take place in Granada.

Thanks largely to the efforts of the Series Editor, Mr Mercer, two important new titles in the EFC Series will be published in the near future: EFC 36, "Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems", edited by D. Féron of EFC WP 4 on Nuclear Corrosion; and EFC 37, "Test Methods for Assessing the Susceptibility of Prestressing Steels to Hydrogen Induced Stress Corrosion Cracking" by B. Isecke of EFC WP11 on Corrosion of Reinforcement in Concrete. Several other additions to the Series are also expected to appear during the next year.

Paul McIntyre  
EFC Scientific Secretary  
25 August 2002

**EUROPEAN FEDERATION OF CORROSION**

**BOARD OF ADMINISTRATORS**

**27 SEPTEMBER 2002**

**GRANADA**

**HONORARY TREASURER'S REPORT**

## **HONORARY TREASURER'S REPORT**

### **1. SUMMARY**

The statement of accounts for the year ended 31 December 2001 indicates that the real outcome over the year is very dependent on the final resolution of MS subscriptions still outstanding and the levy from Eurocorr 2001 not yet declared. This makes the income some 29 % below budget, to some extent offset by a 7.8 % underspend on expenditure, supplemented by a small € 259 exchange gain.

There is concern over arrears with MS subscriptions and a breakdown in communication in some cases. Writing off bad debts results in a loss of value in the reserves represented by surpluses carried forward, while over-zealous application of the Bye-Laws might lead to premature loss of members.

The proposal for the 2003 budget is based on an assessment of trends which are becoming more difficult to quantify, but is designed to be a balanced budget, safeguarding the reserves as far as possible.

### **2. DRAFT STATEMENT OF ACCOUNTS FOR THE YEAR ENDING 31 DECEMBER 2001**

#### **Subscription Income (see Annex 1)**

The current list of contributions due up to 31.12.01 from Member Societies is shown, updated to 21 August 2002 to include late payments. Invoices were issued in May, a reminder sent in November and a final reminder was sent in February 2002. Contributions are still outstanding from:

- (a) Branch Belge de la SCI: 1999, 2000 & 2001
- (b) Force Institute (Denmark): 2001
- (c) Ukranian Association of Corrosionists
- (d) Azerbaijan Society for the Protection of Metals

**The concern about the difficulties in obtaining a response from Branche Belge, whose Bruxelles' address represents the registered address of the EFC under Belgian law, is reflected elsewhere in the Working Papers.**

#### **Income and Expenditure Account (see Annex 2)**

The I/E amount compares the budget figures for 2001 with the actual result alongside the figures for 2000.

Having had successful outcomes from the Eurocorr 1999 & 2000 Congresses, there is now concern about the lack of a detailed response from AIM for Eurocorr 2001 at Riva del Garda. Negotiations are still in progress.

The deficit on the year at present stands at €6619. The final figure will be critically dependent on the outcome from negotiations over Eurocorr 2001, to be reported in the 2002 accounts. The present reserves in the General Fund stand at €11617.



### **Balance Sheet (Annex 3)**

This summarises the position with the addition of the Educational Fund, from which there has been no expenditure to date.

There is a reduction of surpluses in the General Fund of €6617.

Notes expanding on particular items of income and expenditure have also been produced in Annexe 4.

### **3. BUDGET FOR 2003 (Annex 5)**

The budget for 2003 is a balanced one, proposed on the basis of adjustments made in the light of actual expenditure/income in 2001 and other forecasts taken into account in discussions with the Scientific Secretary.

### **4. REVIEW OF CONTRIBUTION RATES**

Due to other commitments, no significant progress on a consultative review of the contribution rates has been made to report to the Board. It also appears that some MS from Eastern Europe already encounter difficulties in meeting their existing commitments without facing an increase as earlier proposed.

### **5. FUTURE DEVELOPMENTS**

As part of the expanding horizons of EFC activities it is pleasing to note that three initiatives with the European Community's Framework V Programme are now on stream:

- (a) Leonardo da Vinci project "Mentor-C"
- (b) The "MatNet" project
- (c) The "CORRCERT" project

The combined income from EC Funding to support these EFC initiatives amounts to some € 68,470. Of this sum approximately 50 % covers the Scientific Secretary's involvement through the London Office. Some of these monies will be handled through the EFC account in London while, at the EC's insistence, it has been necessary to open a Bruxelles account at the FORTIS BANQUE under the general oversight of M. Antoine Pourbaix, M. Phillipe Berge and Mr. Don Harrop on behalf of the Board under strict EC accounting rules.

The finance office in London will be consulted to ensure a smooth incorporation within the overall EFC accounting process if indeed required.

During the year The Institute of Materials has been merged with the Institution of Minerals Mining and Metallurgy to become a new society called The Institute of Materials, Minerals and Mining, with the shortform title of IOM<sup>3</sup>. The EFC funds are now incorporated within the reorganised financial structure of the new society with the normal safeguards associated with a chartered body registered as a charity.

C J L Booker  
Honorary Treasurer

## Annex 1

## 2001 CONTRIBUTIONS TO EFC FUNDING (as at 21 August 2002)

| Ref. | SOCIETY                                            | COUNTRY          | Charge<br>Euros | Received<br>Euros |
|------|----------------------------------------------------|------------------|-----------------|-------------------|
| 1    | Eisenhutte Osterreich Montanuniversitat            | Austria          | 1000            | 1000              |
| 2    | Branche Belge de la SCI                            | Belgium          | 700             | -                 |
| 3    | CEBELCOR                                           | Belgium          | 1500            | 1500              |
| 4    | Force Instituttet                                  | Denmark          | 1500            | -                 |
| 5    | The Finnish Corrosion Society                      | Finland          | 1500            | 1500              |
| 6    | CEFRACOR                                           | France           | 1500            | 1500              |
| 7    | Societe de Chimie Industrielle                     | France           | 1500            | 1500              |
| 8    | GFKORR                                             | Germany          | 1500            | 1500              |
| 9    | DECHEMA eV                                         | Germany          | 1500            | 1500              |
| 10   | Associazione Italiana di Metallurgia AIM           | Italy            | 1000            | 1000              |
| 11   | CSFCE, Italy                                       | <i>expelled</i>  |                 |                   |
| 12   | AITIVA                                             | Italy            | 1000            | 1000              |
| 13   | Nederlands Corrosie Centrum NCC                    | The Netherlands  | 1500            | 1500              |
| 14   | <i>Bond voor Materialenkennis BVM</i>              | <i>expelled</i>  |                 |                   |
| 15   | Norsk Korrosjonsteknisk Forening                   | Norway           | 1500            | 1500              |
| 16   | INETI                                              | Portugal         | 1000            | 1000              |
| 17   | <i>Sociedade Portuguesa de Quimica</i>             | <i>expelled</i>  |                 |                   |
| 18   | Sociedad Espanola de Quimica Industrial            | Spain            | 1000            | 1000              |
| 19   | Swedish Corrosion Institute                        | Sweden           | 1500            | 1500              |
| 20   | <i>Schweizerische Gesell. für Chimische Ind.</i>   | <i>resigned</i>  |                 |                   |
| 21   | <i>SGO</i>                                         | <i>resigned</i>  |                 |                   |
| 22   | Institute of Corrosion                             | UK               | 1500            | 1500              |
| 23   | The Institute of Materials                         | UK               | 1500            | 1500              |
| 24   | <i>Committee of Corrosion Protection, Bulgaria</i> | <i>expelled</i>  |                 |                   |
| 25   | Croatian Society for Materials Protection          | Croatia          | 150             | 150               |
| 26   | Czech Association of Corrosion Engineers           | Czech Republic   | 150             | 150               |
| 27   | <i>Hungarian Chemical Society</i>                  | <i>resigned</i>  |                 |                   |
| 28   | Hungarian Corrosion Society                        | Hungary          | 150             | 150               |
| 29   | <i>Hungarian Scientific Society of Mech. Eng.</i>  | <i>resigned</i>  |                 |                   |
| 30   | Polskie Stowarzyszenie Korozyjne                   | Poland           | 150             | 150               |
| 31   | <i>All Union Corrosion Association</i>             | <i>dissolved</i> |                 |                   |
| 32   | Institute of Metals and Technologies               | Slovenia         | 150             | 150               |
| 33   | Ukranian Association of Corrosionists              | Ukraine          | 150             | -                 |
| 34   | Union of Eng. & Tech. for Prot. of Metals          | Yugoslavia       | 150             | 150               |
| 35   | Azerbaijan Society for the Prot. of Metals         | Azerbaijan       | 150             | -                 |
| 36   | Corrosion Committee of Romanian Academy            | Romania          | 150             | 150               |
| 37   | ANTI KOR                                           | Russia           | 150             | 150               |
| 38   | The Corrosion Association                          | Turkey           | <u>150</u>      | <u>150</u>        |
|      |                                                    | TOTAL            | <u>25350</u>    | <u>22850</u>      |

**Annex 2****INCOME AND EXPENDITURE GENERAL FUND**

| <b>Income</b>                                                         | Note | 2001 budget |                  | 2001 results |                  | 2000 results |             |
|-----------------------------------------------------------------------|------|-------------|------------------|--------------|------------------|--------------|-------------|
|                                                                       |      | <b>Euro</b> | <b>Euro Euro</b> | <b>Euro</b>  | <b>Euro Euro</b> | <b>Euro</b>  | <b>Euro</b> |
| Subscriptions                                                         |      | 26,350      |                  | 25,350       |                  | 25,965       |             |
| Less: Bad and doubtful debts                                          | (1)  | 0           |                  | (3,750)      |                  | 233          |             |
| Net subscriptions receivable                                          |      | 26,350      |                  | 21,600       |                  | 25,732       |             |
| Eurocorr levy                                                         | (2)  | 4,500       |                  | 0            |                  | 13,535       |             |
| Royalties                                                             |      | 3,000       |                  | 2,592        |                  | 2,791        |             |
| Individual membership                                                 |      | 500         |                  | 0            |                  | 0            |             |
|                                                                       |      | 34,350      |                  | 24,192       |                  | 42,058       |             |
| <b>Expenditure</b>                                                    |      |             |                  |              |                  |              |             |
| <i>Scientific Secretary</i>                                           |      |             |                  |              |                  |              |             |
| Fees                                                                  |      | 12,000      |                  | 12,320       |                  | 11,460       |             |
| Travel, accommodation, subsistence, postage, stationery & other costs |      | 2,000       |                  | 4,508        |                  | 3,821        |             |
| IoM administration charge                                             |      | 8,000       |                  | 8,193        |                  | 7,795        |             |
|                                                                       | (3)  | 22,000      |                  | 25,021       |                  | 23,076       |             |
| Honorary Officers expenses                                            |      | 3,000       |                  | 2,472        |                  | 960          |             |
| Support for working parties                                           | (4)  | 6,500       |                  | 1,806        |                  | 4,518        |             |
| Medal                                                                 |      | 1,000       |                  | 1,000        |                  | 0            |             |
| Bank charges                                                          |      | 400         |                  | 270          |                  | 245          |             |
| Contingency sum                                                       |      | 800         |                  | 500          |                  | 682          |             |
| Total expenditure                                                     |      | 33,700      |                  | 31,069       |                  | 29,481       |             |
| <b>(Deficit)/surplus</b>                                              |      | 650         |                  | (6,877)      |                  | 12,577       |             |
| Exchange gains                                                        |      | 0           |                  | 259          |                  | (902)        |             |
| <b>(Deficit)/surplus for the year</b>                                 |      | 650         |                  | (6,618)      |                  | 11,675       |             |
| <b>Surplus brought forward</b>                                        |      | 18,236      |                  | 18,236       |                  | 6,561        |             |
| <b>Surplus carried forward</b>                                        |      | 18,886      |                  | 11,618       |                  | 18,236       |             |

**Annex 3****EDUCATIONAL FUND**

|                                | Note | <b>Euro</b> | 2001<br><b>Euro</b> | 2000<br><b>Euro</b> |
|--------------------------------|------|-------------|---------------------|---------------------|
| Grant received                 |      |             | 0                   | 0                   |
| <b>Surplus brought forward</b> |      |             | 4,025               | 4,025               |
| <b>Surplus carried forward</b> |      |             | <u>4,025</u>        | <u>4,025</u>        |

**BALANCE SHEET**

|                                |     | 31/12/01<br><b>Euro</b> | 31/12/00<br><b>Euro</b> |
|--------------------------------|-----|-------------------------|-------------------------|
| <b>Current assets</b>          |     |                         |                         |
| Current year subscriptions     | (5) | 1,800                   | 6,400                   |
| Contribution due from Eurocorr |     | 0                       | 6,270                   |
| Other debtors (Royalties)      |     | 2,592                   | 0                       |
| Amount held by IoM             |     | 11,251                  | 11,091                  |
|                                |     | <u>15,643</u>           | <u>23,761</u>           |
| <b>Current liabilities</b>     |     |                         |                         |
| Creditors and accruals         |     | 0                       | 1,500                   |
| <b>Net assets</b>              |     | <u>15,643</u>           | <u>22,261</u>           |
| <br>General fund               |     | <br>11,618              | <br>18,236              |
| Education fund                 |     | 4,025                   | 4,025                   |
| <b>Total funds</b>             |     | <u>15,643</u>           | <u>22,261</u>           |

**Annex 4**

| 1) <b>Bad and doubtful debts</b>        | 2001 results  |               | 2000 results  |               |
|-----------------------------------------|---------------|---------------|---------------|---------------|
|                                         | Euro          |               | Euro          |               |
| <i>Subscriptions written off</i>        |               |               |               |               |
| CSFCE (Italy)                           | 1,800         |               | 0             |               |
| Yugoslavia                              | 100           |               | 0             |               |
| Working party subscriptions             | 0             |               | 233           |               |
| <i>Provision against doubtful debts</i> |               |               |               |               |
| Belgium (SCI)                           | 1,400         |               | 0             |               |
| Azerbaijan                              | 300           |               | 0             |               |
| Ukraine                                 | 150           |               | 0             |               |
|                                         | <u>3,750</u>  |               | <u>233</u>    |               |
|                                         |               |               |               |               |
| 2) <b>Eurocorr</b>                      |               |               |               |               |
| Eurocorr 2001                           | 0             |               | 0             |               |
| Eurocorr 2000                           | 0             |               | 6,270         |               |
| Eurocorr 1999                           | 0             |               | 7,265         |               |
|                                         | <u>0</u>      |               | <u>13,535</u> |               |
|                                         |               |               |               |               |
| 3) <b>Scientific Secretary</b>          |               |               |               |               |
|                                         | £             |               | £             |               |
| Fees                                    | 7,518         | 12,320        | 7,351         | 11,460        |
| Travel & incidental expenses            | 2,146         | 3,517         | 2,352         | 3,667         |
| Postage                                 | 605           | 991           | 99            | 154           |
| IoM administration charge               | 5,000         | 8,194         | 5,000         | 7,795         |
|                                         | <u>15,269</u> | <u>25,021</u> | <u>14,802</u> | <u>23,076</u> |
|                                         |               |               |               |               |
| 4) <b>Support for working parties</b>   |               |               |               |               |
|                                         | £             |               | £             |               |
| Scientific Secretary fees               | 732           | 1,200         | 770           | 1,200         |
| Postage & courier costs                 | 0             | 0             | 0             | 0             |
| Other 2000 costs (paid)                 | 0             | 606           | 0             | 1,250         |
| Other 2000 costs (accrued)              | 0             | 0             | 0             | 1,500         |
| Prior year costs                        | 0             | 0             | 0             | 568           |
|                                         | <u>732</u>    | <u>1,806</u>  | <u>770</u>    | <u>4,518</u>  |

**Annex 4**

|                                           |   | 2001 Results | 2000 Results |
|-------------------------------------------|---|--------------|--------------|
| <b>5) Subscriptions outstanding</b>       |   |              |              |
| CSFCE (Italy)                             |   | 0            | 1,800        |
| Belgium (SCI)                             | P | 1,400        | 700          |
| Denmark                                   |   | 1,500        | 1,500        |
| AITIVA (Italy)                            |   | 0            | 1,000        |
| Portugal                                  |   | 0            | 1,000        |
| Azerbaijan                                | P | 300          | 150          |
| Yugoslavia                                |   | 150          | 250          |
| Hungary                                   |   | 150          | 0            |
| Ukraine                                   | P | 150          | 0            |
|                                           |   | <hr/>        | <hr/>        |
|                                           |   | 3,650        | 6,400        |
| Provision for irrecoverable subscriptions | P | (1,850)      | 0            |
|                                           |   | <hr/>        | <hr/>        |
|                                           |   | 1,800        | 6,400        |
|                                           |   | <hr/>        | <hr/>        |
| Exchange rate                             |   | 1.639        |              |

**ANNEX 5****EUROPEAN FEDERATION OF CORROSION**  
**PROPOSED BUDGET FOR 2003****EXPENDITURE**

|                             | <b><u>Actual</u></b> | <b><u>Budget</u></b> |                     |
|-----------------------------|----------------------|----------------------|---------------------|
|                             | 2001                 | 2002                 | 2003                |
|                             | Euros                | Euros                |                     |
| Scientific Secretary:       |                      |                      |                     |
| Fees                        | 12320                | 12000                | <b>12000</b>        |
| Travel & postage etc        | 4508                 | 3000                 | <b>3900</b>         |
| Administration charge       | 8194                 | 8000                 | <b>8000</b>         |
|                             | <u>25021</u>         |                      |                     |
| Honorary officers expenses  | 2472                 | 2000                 | <b>2000</b>         |
| European Corrosion Medal    | 1000                 | 0                    | <b>1000</b>         |
| Support for Working Parties | 1806                 | 4550                 | <b>4000</b>         |
| Bank charges                | 270                  | 300                  | <b>300</b>          |
| Contingency sum             | 500                  | 800                  | <b>950</b>          |
|                             | <u>31069</u>         | <u>30650</u>         | <u><b>32150</b></u> |

**INCOME**

|                                       |               |              |                     |
|---------------------------------------|---------------|--------------|---------------------|
| Subscriptions                         | 25350         | 26650        | <b>24,650</b>       |
| Less: Bad and doubtful debts          | 3900          |              |                     |
|                                       | <u>21450</u>  |              |                     |
| Eurocorr Congress levy (provided for) | 4500          | 1000*        | <b>4500</b>         |
| Royalties                             | <u>2592</u>   | <u>3000</u>  | <u><b>3000</b></u>  |
|                                       | <u>28542</u>  | <u>30650</u> | <u><b>32150</b></u> |
| (Deficit)/Surplus                     | (2527)        | 0            | <b>0</b>            |
| Exchange Gains                        | 259           | 0            |                     |
|                                       | <u>(2268)</u> | <u>0</u>     | <u><b>0</b></u>     |
| Surplus brought forward               | <u>18236</u>  | <u>15958</u> | <u><b>15958</b></u> |
| Surplus carried forward               | <u>15958</u>  | <u>15958</u> | <u><b>15958</b></u> |

\* Aix-en-Provence Certification Colloquium

## RECENT AND FORTHCOMING ADDITIONS TO THE EFC SERIES

Two of the best-selling books in the EFC Series sold out recently so have been re-published in second editions, as follows:

**EFC 16 (2<sup>nd</sup> Edition, 2002):** “Guidelines on Materials Requirements for Carbon and Low Alloy Steels for H<sub>2</sub>S-Containing Environments in Oil and Gas Production”

This guideline document from EFC WP13 (Corrosion in Oil and Gas Production) is specifically concerned with the material requirements for carbon and low alloy steel for H<sub>2</sub>S-containing oil and gasfield services. It considers types of cracking, conditions under which these may occur in H<sub>2</sub>S service, as well as requirements to prevent cracking. Test methods are recommended for evaluating materials performance and particularly focus on a fitness-for-purpose approach whereby the test conditions are selected to reflect the realistic service conditions. Notable changes to the hardness guidelines have been made in this second edition.

**EFC 17 (2<sup>nd</sup> Edition, 2002):** “Corrosion Resistant Alloys for Oil and Gas Production: Guidance on General Requirements and Test Methods for H<sub>2</sub>S Service”

Another publication from EFC WP13 which aims to establish a common understanding of the requirements for the testing and qualification of corrosion resistant alloys (CRAs) for use in oil and gasfield production facilities. The general criteria for selection and requirements for testing of CRAs are stated in the context of a detailed understanding of the corrosive conditions in oilfield facilities. Test procedures are proposed for evaluation of the resistance of CRAs to in-service cracking (by SSC and SCC) in H<sub>2</sub>S service. Since the publication of the first edition of EFC 17 in 1996, research has shown that some test solutions can influence test results, particularly with martensitic stainless steels. This has led to a major revision of EFC 17. There are now three test solution options listed in the document. They are also consistent with those to be published in ISO 15156-3: Petroleum and natural gas industries -- Materials for use in H<sub>2</sub>S-containing environments in oil and gas production -- Part 3: Cracking-resistant CRAs (corrosion-resistant alloys) and other alloys. There are also several other sections of EFC 17 that have been revised, and more recent information on titanium has been included.

## IN PREPARATION

**EFC 32:** “Guidelines for the Compilation of Corrosion Cost Data and for the Calculation of the Life Cycle Cost of Corrosion — A Working Party Report” edited by P. S. Jackman (from WP 13 on Corrosion in Oil and Gas Production).

**EFC 36:** “Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems”, edited by D. Féron (EFC WP 4 on Nuclear Corrosion).

**EFC 37:** “Test Methods for Assessing the Susceptibility of Prestressing Steels to Hydrogen Induced Stress Corrosion Cracking” by B. Isecke (EFC WP11 on Corrosion of Reinforcement in Concrete).

**EFC 38:** “Modern Scanning Electrochemical Methods for Localised Corrosion”, edited by R. Akid (EFC WP8 on Corrosion Testing).



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**CALENDAR OF FORTHCOMING EFC AND OTHER MAJOR EVENTS**


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| <b>Date/venue</b>                                     | <b>Conference</b>                                                                                                                                          | <b>Contact</b>                                                                                                                                                                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22-27 September 2002<br>Granada,<br>Spain             | 15 <sup>th</sup> International Corrosion Congress<br>"Frontiers in Corrosion Science<br>and Technology                                                     | Viajes Iberia Congresos<br>San Bernardo, 20 - 6 <sup>o</sup> planta<br>28015 Madrid, Spain<br>Fax: +34 1 532 45 43<br>E-mail: <a href="mailto:congresos.madrid@viajesiberia.com">congresos.madrid@viajesiberia.com</a>                |
| 23-27 September 2002<br>Fontevraud<br>France          | Fontevraud V: Contribution of Materials<br>Investigation to the Resolution of Problems<br>Encountered in Pressurised Water Reactors<br>(EFC Event No. 259) | SFEN - Fontevraud V<br>67 rue Blomet<br>F-75015 Paris, France<br>fax: +33 (0) 1 5358 3211                                                                                                                                             |
| 30 September –<br>2 October 2002<br>Munich<br>Germany | Materials Week 2002 – European Congress<br>on Advanced Materials, their Processes and<br>Applications                                                      | Werkstoffwoche-Partnerschaft<br>Hamburger Allee 26, 60486 Frankfurt<br>Germany<br>fax: +49 69 791 7733<br>e-mail: <a href="mailto:materialsweek@dgm.de">materialsweek@dgm.de</a>                                                      |
| 3-4 October 2002<br>Brussels<br>Belgium               | Supermartensitic Stainless Steels 2002                                                                                                                     | Prof. Ir. A. Dhooge,<br>Belgian Welding Institute,<br>Sint-Pietersnieuwstraat 41,<br>B-9000 Gent, Belgium<br>Fax: +32 (0) 9 223 73 26<br>E-mail: <a href="mailto:alfred.dhooge@rug.ac.be">alfred.dhooge@rug.ac.be</a>                 |
| 7-9 October 2002<br>Volgograd<br>Russia               | International Conference on Building<br>Structures – Durability – Theory and<br>Practice of Corrosion Protection                                           | NIIZhB<br>2 <sup>nd</sup> Institutskaya str., 6,<br>109428 Moscow, Russia<br>Fax: +095 174 7463<br>E-mail: <a href="mailto:orgcomitet@niizhb.ru">orgcomitet@niizhb.ru</a>                                                             |
| 12-13 October 2002<br>Norfolk, Va.,<br>USA            | Building Façade Maintenance, Repair<br>and Inspection Operations<br>(ASTM Symposium)<br>PA 19428-2959, USA                                                 | Dorothy A. Fitzpatrick, Symposia<br>ASTM, 100 Barr Harbor Dr.<br>PO Box c700, W. Conshohocken,<br>Fax: +1 610 832 9555                                                                                                                |
| 22-24 October 2002<br>Cardiff, Wales<br>UK            | UK Corrosion 2002<br>Incorporating the 43 <sup>rd</sup> Corrosion Science<br>Symposium<br>(International Technical Conference and<br>Exhibition)           | The Institute of Corrosion<br>4 Vimy Court, Vimy Road,<br>Leighton Buzzard,<br>Bedfordshire LU7 1FG<br>Fax: +44 (0) 1525 376 690<br>e-mail: <a href="mailto:admin@icorr.demon.co.uk">admin@icorr.demon.co.uk</a>                      |
| 5-8 November 2002<br>Beijing<br>China                 | CICCC 2002<br>2nd China International Corrosion<br>Control Conference                                                                                      | Ren Zhendu/Xin Yingdi<br>Preparatory Office of CICCC 2002<br>No. 1, Zhongjie District 1, Liupukang,<br>Beijing 100011, P. R. China<br>Fax: +86 10 6204 4373<br><a href="mailto:Fangfu@mail.cncic.gov.cn">Fangfu@mail.cncic.gov.cn</a> |

## Appendix 9/2

|                                                     |                                                                                                                                                                    |                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-7 November 2002<br>Tampa, Florida<br>USA          | SSPC Annual Conference                                                                                                                                             | Rose Mary Sargent<br>The Society for Protective Coatings<br>40 24th Street 6th Floor,<br>Pittsburgh, PA 15222-4656, USA<br>Fax: +1 412 281 9993<br>E-mail: <a href="mailto:surgent@sspc.org">surgent@sspc.org</a>                                             |
| 10-11 February 2003<br>Manchester<br>UK             | An International Conference on Cathodic Protection                                                                                                                 | David Scantlebury<br>Corrosion and Protection Centre<br>UMIST, P.O. Box 88,<br>Manchester M60 1QD, UK<br>fax: +44 (0) 161 200 4865<br>e-mail: <a href="mailto:scantlebury@umist.ac.uk">scantlebury@umist.ac.uk</a>                                            |
| 11-14 March 2003<br>Paris-Nord Villepinte<br>France | The Surface Treatments and Coatings<br>International Trade Exhibition                                                                                              | SITS 2003<br>1, rue du Parc,<br>F-92593 Levallois Perret Cedex France<br>fax: +33 (0) 1 4968 5484<br>e-mail: <a href="mailto:sits@exposium.fr">sits@exposium.fr</a>                                                                                           |
| 16-21 March<br>San Diego<br>California, USA         | Corrosion NACEpo 2003<br>58 <sup>th</sup> Annual Conference & Exposition                                                                                           | NACE International,<br>1440 South Creek Drive, Houston,<br>TX 77084-4906, USA<br>Fax: +1 281 228 6329<br>e-mail: <a href="mailto:msd@mail.nace.org">msd@mail.nace.org</a>                                                                                     |
| 25-27 March 2003<br>Cranfield<br>UK                 | 1 <sup>st</sup> IWA Conference on Scaling and<br>Corrosion in Water and Wastewater<br>Systems                                                                      | Conference Secretary<br>School of Water Sciences<br>Cranfield University<br>Cranfield, MK43 0AL, UK<br>fax: +44 (0) 1234 751 671<br>e-mail: <a href="mailto:iwa@cranfield.ac.uk">iwa@cranfield.ac.uk</a>                                                      |
| 4-9 May 2003<br>Nieuwpoort<br>Belgium               | Electrochemical Methods in Corrosion Research<br>EMCR 2003<br>(EFC Event No. 263)                                                                                  | Mrs. Lieve Van Den Bossche<br>Vrije Universiteit Brussel<br>Dept. Metallurgy, Electrochemistry and<br>Materials Science, Pleinlaan 2,<br>1050 Brussels, Belgium<br>Fax: +32 2 629 32 00<br>e-mail: <a href="mailto:lievdbos@vub.ac.be">lievdbos@vub.ac.be</a> |
| 5-8 May 2003<br>Orlando, Florida<br>USA             | ITSC 2003<br>International Thermal Spray Conference<br>and Exposition                                                                                              | Ms. Valerie Roberts<br>ASM Thermal Spray Society<br>9639 Kinsman Road<br>Materials Park, Ohio 44073-0002<br>Fax: +1 440 338 4634<br>E-mail: <a href="mailto:vroberts@asminternational.org">vroberts@asminternational.org</a>                                  |
| 19-24 May 2003<br>Frankfurt am Main<br>Germany      | ACHEMA 2003<br>27 <sup>th</sup> International Exhibition-Congress on<br>Chemical Engineering, Environmental<br>Protection and Biotechnology<br>(EFC Event No. 265) | DECHEMA e.V.<br>Ausstellungskongresse, Postfach 15 01 04<br>D-60061 Frankfurt am Main, Germany<br>Fax: +49 (0) 69 7564 201<br>e-mail: <a href="mailto:helpline@dechema.de">helpline@dechema.de</a>                                                            |
| 18 June 2003<br>Denver<br>Colorado<br>USA           | Electrochemical Techniques for Evaluating<br>Corrosion Performance and Estimating<br>Service-Life of Reinforced Concrete<br>(ASTM Symposium)                       | Neal S. Burke, Symposium Chairman<br>W. R. Grace & Co.—Conn<br>62 Whittemore Avenue, Cambridge,<br>MA 02140, USA<br>Fax: +1 617 498 4827<br>E-mail: <a href="mailto:neal.s.burke@grace.com">neal.s.burke@grace.com</a>                                        |

## Appendix 9/3

|                                                        |                                                                                                                                  |                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29 June–3 July 2003<br>Bordeaux<br>France              | EDEM 2003: 2 <sup>nd</sup> International Conference<br>on Environmental Degradation of<br>(EFC Event No. 264)                    | Dr. Jean-Marc Olive,<br>Laboratoire de Mecanique-Physique<br>Engineering Materials<br>Universite Bordeaux 1,<br>351 Cours de la Liberation,<br>33 405 Talence Cedex, France<br>fax: +33 5 5684 6964<br>e-mail: <a href="mailto:olive@lmp.u-bordeaux.fr">olive@lmp.u-bordeaux.fr</a> |
| 6-11 July 2003<br>Manchester<br>UK                     | Corrosion Science in the 21 <sup>st</sup> Century<br>(International Symposium)                                                   | Symposium Secretary<br>Corrosion and Protection Centre<br>UMIST, Sackville Street, P.O. Box 88<br>Manchester M60 1QD, UK<br>Fax: +44 (0) 161 200 4865<br>e-mail: <a href="mailto:21stcentury@umist.ac.uk">21stcentury@umist.ac.uk</a>                                               |
| 28 September-<br>2 October 2003<br>Budapest<br>Hungary | EUROCORR 2003<br>The European Corrosion Congress<br>(EFC Event No. 261)                                                          | Prof. Dr. Erika Kálmán<br>Chemical Research Centre<br>Hungarian Academy of Sciences<br>H-1525 Budapest, P.O. Box 17,<br>Hungary<br>Fax: +36 1 325 7509<br>e-mail: <a href="mailto:eurocorr@chemres.hu">eurocorr@chemres.hu</a>                                                      |
| 12-16 September 2004<br>Nice<br>France                 | EUROCORR 2004 - Long Term Prediction and<br>Modelling of the Corrosion Behaviour of<br>Metallic Materials<br>(EFC Event No. 266) | CEFRACOR<br>28 rue Saint-Dominique, 75007 Paris<br>France<br>Fax: +33 1 45 55 90 74<br>e-mail: <a href="mailto:cefracor@club-internet.fr">cefracor@club-internet.fr</a>                                                                                                             |

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### The “ERA-NET” Scheme (Summary)

The ERA-NET scheme will be the EU’s principle means in the 6<sup>th</sup> Framework Programme of supporting cooperation and coordination of research activities at national or regional levels. Its expected budget is €160 million.

**Objective:** To promote closer interactions between research workers in different EU (and Associated) Member States through:

- Networking of research activities conducted at national or regional levels
- The mutual opening of national and regional research programmes

**Activities:** Either full or partial research and innovation programmes, provided they are:

- strategically planned and executed at national or regional level
- financed or managed by national or regional public bodies

Some activities supported by charities or other private organisations may qualify if only the first criterion is met.

**Participants:** Public bodies  
National bodies  
Bodies operating at European level that include pan-European coordination of nationally funded research as part of their mission

### Number of Participants

At least 2, in different Member States or Associated States, of which at least 1 must be in a Member State or Associated candidate country. In addition, a single participant such as an EEIG (European Economic Interest grouping) or any legal entity established in a Member State or Associated State that is made up of legal entities from at least 2 different Member States or Associated States of which at least one is a Member State or Associated State may be the sole participant in an ERA-NET.

### Activities to be Supported

- 1) Networking of research activities carried out at national and regional level
  - a) Systematic exchange of information and best practice
  - b) Strategic activities
  - c) Implementation of Joint Activities
- 2) Mutual opening of national or regional research programmes
- 3) Management of an ERA-NET

### Financial Aspects

ERA-NETS will be implemented as “coordination actions” and the eligible costs of the activities listed above can receive up to 100 % funding. No support will be provided for the research activities themselves for which the ERA-NET members will be expected to pay. However, up to €2 million (more, exceptionally) will be available to fund a single ERA-NET.

### Timing

The first deadline will be in early 2003, with a budget of about €40 million. Thereafter, there will be a deadline roughly every six months up to early 2006, each with a budget of about €20 million.