



## WORKING PARTY ON MARINE CORROSION (WP 9)

### MINUTES OF THE MEETING HELD ON 11TH SEPTEMBER 2008 AT EDINBURGH CONFERENCE CENTRE (EUROCORR 2008 CONFERENCE)

Chair: Ulf Kivisäkk – AB Sandvik Materials Technology, [ulf.kivisakk@sandvik.com](mailto:ulf.kivisakk@sandvik.com)

Vice-chair: Carol Powell – CDA, [carol.powell@btinternet.com](mailto:carol.powell@btinternet.com)

Secretary: Anne-Marie Grolleau – DCNS Cherbourg, [anne-marie.grolleau@dcnsgroup.com](mailto:anne-marie.grolleau@dcnsgroup.com)

#### ***SUMMARY OF MAIN DISCUSSION AND DECISIONS***

- Appointment of new board members :
  - Carol Powell, CDA UK – Vice-Chair
  - Anne-Marie Grolleau, DCNS F – Secretary
- Need for new basic guidelines and standards on the use of copper alloys, particularly copper nickels.
- Need for a short document on the use of materials in marine environments

<i>Actions to be taken possibly before next meeting</i>	<i>Main contributors</i>
Organisation of a task group on MIC	Carol Powell
Write an outline on the use of materials in marine environment	Roger Francis
Provide information on European Community funding	Ulf Kivisäkk
Provide a testing laboratory questionnaire list from MCF	Robin Oakley
U. Kivisäkk to Liaise with JP Pautasso	Anne-Marie Grolleau



## ATTENDEES

NAME	AFFILIATION	COUNTRY	e-mail
Stuart Bond	TWI Ltd, UK	UK	stuart.bond@twi.co.uk
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Keith Stokes	Dstl	UK	<a href="mailto:krstokes@dstl.gov.uk">krstokes@dstl.gov.uk</a>
Dominique Thierry	French Corrosion Institute	France	



## 1. OPENING AND WELCOME

The chairman, Ulf Kivisäkk, opened the meeting and asked the 17 attendees to introduce themselves. The agenda was presented for approval and was accepted.

## 2. APOLOGIES FOR ABSENCE

Apologies for absence have been received from the following members:

- Ebbe Rislund, DK
- Bard Espelid, N
- Igor Skalsky, Pl
- Leif Berthagen, S
- Öystein Strandmyr, N
- Olga Sarc-Lahodny, Cr

## 3. MINUTES OF LAST MEETING

The chairman reviewed the minutes from the last meeting held in Freiburg on September 10<sup>th</sup> for comments from the audience. The minutes were approved without any comment.

## 4. OFFICERS FOR WP9

Ulf Kivisäkk advised the attendees that the vice chairman (W. Schleich) and the secretary (E. Rislund) of the Marine Committee had resigned from their current positions. Carol Powell was proposed for the Vice-chair position, which was accepted by all attendees. Anne-Marie Grolleau was proposed for the Secretary position, which was accepted by all attendees.

## 5. ACTIVITIES FOR THE WORKING PARTY WP 9

### 5.1 Performance of Copper Base Alloys in Seawater Piping Systems

Carol Powell stated that this topic was not only associated with naval experience, but could also be of interest for other industries. She suggested the possibility of providing basic guidelines for the use of copper alloys, particularly copper nickel, and asked how EFC could get involved in such a task. She indicated that she thought there were needs for good practice guidelines to ensure correct usage of such alloys.

U. Kivisäkk confirmed that writing guidelines was very much in the frame of the EFC and explained briefly what the basic objectives of the Marine Corrosion Committee were.

J. Mawella pointed out that it was probably too early to provide guidelines especially regarding MIC, as new results had just come out and the scientific community had just started to take the problem into account.

As a first step Carol Powell proposed to organise a limited task group of interested people that could discuss this matter, think about a strategy and make proposals for the next Eurocorr meeting. U.Kivisäkk recommended contacting M. Gubner from the Microbial Corrosion Committee. J.Mawella and R.Oakley indicated that they were interested in joining this group. U. Kivisäkk said that Leif Berthagen would certainly like to contribute too and should be contacted.

Stuart Bond suggested that it would be a good idea could be to get this topic publicized through the EFC website.



R. Oakley suggested that some methods could be developed in the future under the frame of the Marine Committee to address the MIC problem. He also highlighted the fact that all the present members agreed on the issues with copper alloys and that good exchanges had taken place during the marine workshop.

#### 5.2 Performance of materials in marine environments

Roger Francis suggested writing a brief guide (10 to 20 pages at the most) on the use of materials in marine environments. It was agreed by many attendees (Keith Stokes, Robin Oakley) that lessons of the past tend to be forgotten and that education was needed in this area. This guide would be definitely valuable for young engineers. Roger Francis also suggested contacting the working party WP 13 (Oil & Gas). He will provide an outline of the document and have it circulated among the members. Carol Powell agreed to contribute to the copper alloys part. Stuart Bond agreed to contribute to the carbon steels part.

#### 5.3 Survey about existing seawater testing laboratories

Robin Oakley will provide a list of UK laboratories based on Marine Corrosion Forum (MCF) data. He will provide a questionnaire template from the MCF to Ulf Kivisäkk, who will in turn circulate it among the members.

#### 5.4 Standardization of the Crevice test method

Ulf Kivisäkk indicated that the process was very slow and that he will investigate and contact Damien Feron on this matter.

#### 5.5 Further activities / areas

No other topic was raised.

### 6 STATUS OF ONGOING WORK ON EFC PUBLICATION

The Crevice book has been finalised but the process is slow. The objective now is to have it printed before next spring.

### 7 REPORT FROM STAC MEETINGS

Some action was taken by the EFC so that the European Commission could provide some funding for corrosion research for its next programme. There are also limited funds available for work in the EFC's Working parties. Keith Stokes asked for some more information regarding this matter and some information is provided by Ulf Kivisäkk. The funds will be allocated to cover expenditures for special projects carried out in the working parties, such as round robins or specialised workshops. No limit for a project has been set but it seems that sums around 500 - 800 Euros per year may be acceptable. In order to obtain the funds the project must be included in the STAC's budget and hence communicated to EFC in before Eurocorr.

### 8 REPORT FROM EUROCORR 2008

U. Kivisäkk assessed this year's conference. Only a limited number of papers were presented in the Marine session but they were all of very high quality. Good discussions and exchanges took place and on the overall the attendance was very good (a minimum of 40 attendees). He



also indicated that this year's conference was a great success as more than 800 people attended. He acknowledged the organisers.

#### 9 MARINE CORROSION SESSION FOR EUROCORR 2009

Eurocorr 2009 will take place in Nice, France, from September 6<sup>th</sup> to 10<sup>th</sup>. Summaries of papers should be submitted before end of January 2009. Full papers are due before the end of July 2009. There is a special workshop organized on sea water fouling control (biocides, coatings), which local chair of is Jean-Pierre Pautasso (DGA/F). Ulf Kivisäkk will get in touch with him with the objective of organizing the marine session right after this workshop. It is proposed to organize a general session but to devote a part of it to MIC and invite people to treat this topic. Ulf Kivisäkk will collaborate with Carol Powell to organize it.

#### 10 MARINE CORROSION SESSIONS FOR EUROCORR 2010

Eurocorr 2010 will take place in Moscow. Ulf Kivisäkk will contact the Microbial Corrosion Committee to organize a joint session.

#### 11 ANY OTHER BUSINESS

No additional suggestion was made.

#### 12 NEXT MEETING

The next EFC Marine meeting will be organised during the next Eurocorr Congress in Nice.

#### 13 CLOSURE

Ulf Kivisäkk closed the meeting and thanked the attendants and contributors.

Written by	Anne-Marie Grolleau, Secretary	September 17 <sup>th</sup> 2008
Verified by	Carol Powell, Vice chair	
Approved by	Ulf Kivisäkk, Chairman	