

Working Party 9 “Marine Corrosion” (EFC WP9)

Minutes of the Meeting¹

12 September, 2018, Krakow, Poland

Chair: Philippe Refait, University of La Rochelle, France; philippe.refait@univ-lr.fr

Vice-chair & Secretary: Shiladitya Paul, TWI & University of Leicester, UK; shiladitya.paul@twi.co.uk

Summary of main discussions

- Approval of the minutes of the 2017 meeting of the WP
- Links with other organisations like NACE, DNV etc.
- The WP to organise Joint sessions with WP10 (Microbial corrosion) and WP16 (cathodic protection)
- The WP to publish selected papers in a special issue of Materials and Corrosion (Journal) on Marine Corrosion (Deadline 28 December 2018)

Attendees

Name	Affiliation	Country	E-mail
Philippe Refait	University of La Rochelle	France	philippe.refait@univ-lr.fr
Anne-Marie Grolleau	Naval Group	France	anne-marie.grolleau@naval.group.com
Troels Mathiesen	Force Technology	Denmark	trm@force.dk
Ole Knudsen	SINTEF	Norway	Ole.knudsen@sintef.no
Ivan Richardson	Copper Alloys Ltd.	UK	ivan@copperalloys.net
Marc Jeannin	University of La Rochelle	France	marc.jeannin@univ-lr.fr
Andrew Drage	Copper Development Association	UK	Andrew.drage@copperalliance.org.uk
Lucille Brun	Corrodys	France	lbrun@corrodys.com
Xiaolong Zhang	Endures BV	Netherlands	Xiaolong.zhang@endures.nl
Shiladitya Paul	TWI & the University of Leicester	UK	Shiladitya.paul@twi.co.uk

1. Welcome and introduction

The meeting was opened by the Chairman, Philippe Refait, who presented the agenda and asked the attendees to introduce themselves. There were a couple of talks missing in the last session hence WP9 discussions were held during this break.

¹ Meeting notes prepared on 12 September 2018

2. Apologies for absence

Several people send their apologies. The chair acknowledged that some interested members were not able to attend due to funding issues.

3. Approval of the minutes of the last meetings

The minutes of the last meeting (held in Prague) was made available to the members of WP9.

4. Report from the STAC meeting

The chair updated the meeting on the discussion held in the STAC meeting about the link with NACE. Actually, this discussion did not lead anywhere. Some members of the STAC think that the collaboration with NACE can be (and is actually in some WPs) fruitful. It seems however that the wish of NACE to develop in Europe could lead to potential conflict. This would possibly be discussed at a later date. The Chair would update the WP next year on the activities of STAC and any future collaborations.

5. Report from Eurocorr 2018

Approximately 1400 participants registered for Eurocorr 2018. The WP9 received several papers with 17 selected for oral presentations, but only 15 were presented. Joint sessions (JS) were also held in conjunction with WP10 (microbial corrosion) and WP16 (cathodic protection). Several oral presentations were organised in the joint sessions:

- 5 oral presentations in JS with WP10 (Microbial Corrosion)
- 2 oral presentations in JS with WP16 (Cathodic Protection), but only 1 was presented.

The attendance was consistently above 45 per talk, reaching about 65 at its maximum. Behaviour of several materials in marine environments were presented by several authors. The talks represent a good balance of contribution from academia and industry.

6. EFC series “green books”

Philippe Refait discussed the projects on EFC “green books”.

1. “Best practice guideline on corrosion in sea water heat exchangers systems”. This project was initiated by WP15 (Corrosion in the Refinery and Petrochemistry industry) and will be developed jointly by WP9 and WP15. A working group is under construction and the chair of WP15 (François Ropital) has suggested that a member of the “marine corrosion” community participates to this working group. Anne-Marie Grolleau volunteered for the task.
2. “Recent advances on the understanding of the mechanisms of marine corrosion of carbon steel”. This project is at the planning stage and has been presented to the STAC during the meeting on Sunday, September 9th, 2018. The chair is going to seek for contributors and he welcomes everyone’s input into this.

Ivan Richardson suggested that Cu alloys should be considered for any future projects on marine corrosion.

7. Marine Corrosion session for Eurocorr 2019

It has been proposed to organise a general session on marine corrosion and joint sessions with other WPs regarding the following topics:

- Microbial corrosion in Marine Environments with WP10
- Cathodic protection in marine environments with WP16

8. Activities of WP9

Corrosion Modelling:

Philippe Refait asked if the WP should look at modelling corrosion. Anne-Marie Grolleau noted that this is a big topic and requires efforts from different researchers. She also enquired if support will be sought from companies. Philippe Refait suggested a joint session on corrosion modelling, but this may not be possible in 2019. However, he indicated that contact with researchers and companies would be useful. Ole Knudsen enquired if a specific modelling technique and material/environment combination would be considered as this is a broad topic. Philippe Refait confirmed that this would be a more fundamental mechanistic modelling. He also gave an example where one could look at carbon steel in marine environment. Anne-Marie Grolleau and Philippe Refait informed the attendees that a Winter School "Modelling of Corrosion" would be held in January 2019 at INSTN (Saclay, France) on the behalf of the EFC (<https://efcweb.org/Events/Courses.html>).

Special Issue:

A special issue on 'Marine Corrosion' has been planned and this will be published in the international scientific journal "Materials and Corrosion" affiliated to EFC. There was a discussion on the impact factor as some academics may only consider high impact journal for publications. Shiladitya Paul noted that special issues get a lot more visibility and this is something the contributors should consider. There was some discussion on the deadline for submission of contributions. Philippe Refait suggested a deadline of 28 December 2018 for final submission.

9. Any other business and new initiatives

Anne-Marie Grolleau noted that the WP has not participated in any collaborative research in the last few years. She suggested that round robin tests are a good way of collaborating with researchers and the WP meeting can be used as the forum for discussion. Ole Knudsen was supportive of the idea and noted that in the past he carried out round robin at his own cost. However, he also noted that this may not be feasible for industrial partners. He also noted that round robin tests can be conducted when a need is identified. This is something the WP would do in the next few months. All members of the WP are encouraged to suggest topics/research areas that could be considered for round robin tests.

10. Date and venue of the next meeting

The next meeting of EFC WP9 will be organised during Eurocorr 2019 in Seville, Spain. No intermediate meeting is planned.

11. Meeting closure

Philippe Refait thanked everyone for their continued support for the WP activities. He closed the meeting and encouraged the attendees to provide feedback on the topics covered in the meeting.