

Issue November 2017

<http://www.efcweb.org>

Dear fellow corrosionist,

This interim newsletter provides an update on what has happened since the publication of the Print newsletter. For much fuller information on latest activities and future activities please see the [September print Newsletter issue](#) of our Federation.

It also contains one or two items that missed the last newsletter. For example the inaugural presentation of the Paul McIntyre award.

I hope you find this newsletter interesting and informative.

Regards

*Douglas Mills*

EFC Newsletter Editor

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## REVIEW ON EUROCORR 2017 & 20TH INTERNATIONAL CORROSION CONGRESS & PROCESS SAFETY CONGRESS 2017

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We would like to sincerely thank our Czech Association of Corrosion Engineers (AKI) and DECHEMA for organising this fantastic **Joint Meeting** in the beautiful city of Prague. Uniquely in the history of the EUROCORR series, the merger of EUROCORR with the global triennial International Corrosion Congress and the Process Safety Congress, organised on behalf of EFC, ICC and CCPS, created the largest European corrosion congress ever held. The joint Congress included 741 oral presentations and 278 posters, attracting 1388 participants from 62 countries and 49 exhibitors, with a particular increase in participation from Asia and the USA. These numbers again prove the importance of EUROCORR as the annual European event for the worldwide corrosion community and an important platform for dialogue and networking amongst all who work in corrosion science and technology.



We would like to take the opportunity to congratulate the winners of the various EFC Awards. This year's **EFC Poster Prize** was presented to **Mr. Alexander Lutz**, Vrije Universiteit Brussel, Belgium, for the outstanding poster contribution on "*Local electrochemical study of ternary Zn-Fe-Mo alloy coatings on carbon steel*".

The following awards relate to the Nuclear Working Party session which was holding its 50th anniversary celebration.

The laureate of the 2017 Henri Coriou Award for outstanding contributions to corrosion science and engineering in the nuclear field is **Prof. Hannu Hänninen**, Aalto University, Finland. Also, among **WP4** (Nuclear Corrosion) the prize for the **best oral presentation** of the 2017 Nuclear Corrosion Session was awarded to "*Hydrogen trapping by irradiation-induced defects in 316L stainless steel*", by **Ms. Anne-Cécile Bach**, CEA, France; The prize for the **best poster presentation** of the 2017 Nuclear Corrosion Session was awarded to "*Effect of dissolved oxygen on flow-accelerated corrosion in neutral and alkaline solutions*", by **Mr. Kazutoshi Fujiwara**, Central Research Institute of Electric Power Industry - CRIEPI, Japan.

A comprehensive listing of all EFC Awards and Medals presented at EUROCORR 2017 is available at:

<http://eurocorr.org/EFC+Awards+and+Prizes-p-100955.html>

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## Report on the recent Young EFC meeting

Dear Friends!

We are glad to have welcomed you to our meeting in Prague at the EUROCORR 2017 conference. We received both very positive feedback and constructive criticism from you and would like to thank you very much! The Young EFC board came up with a lot of activities in Prague which resulted in a colourful conference. For example, the Young EFC was involved in the judging of the overall poster prize competition. We are shaping things to become youth-oriented and will continue to promote young corrosion researchers.

More than 50 people participated in our meeting during the conference, in which we had the opportunity to meet a lot of young corrosion researchers and some senior experts, such as Prof Christofer Leygraf and Dr Sytze Huizinga who support us in becoming a bridge between senior professionals and young corrosionists.

We congratulate Beatriz Mingo, Elisabetta Di Francia, and Baiwei Zhu who received the EFC Young Scientist Grant of the last year! Many thanks to them for presenting their work which certainly has encouraged many other young corrosion scientists and engineers to apply for this grant in future.

We are preparing ourselves for the EUROCORR 2018 conference to be held in Krakow in Poland and hope to meet old and new friends there! Take care and all the best!

*The Young EFC Board*

Find us online and do not hesitate to join this initiative (no fees are required): <http://efcweb.org/YoungEFC.html>

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## UPCOMING EUROCORR 2018 – CALL FOR PAPERS

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As the 2018 hosts of the renowned annual corrosion congress EUROCORR, the Polish Corrosion Society, PSK, together with EFC and DECHEMA, cordially invite you to attend EUROCORR 2018 which will be held in Cracow, Poland from 9th to 13th September 2018 (EFC Event No. 429). Do not miss the chance to contribute to **EUROCORR 2018** at: <http://www.eurocorr.org/2018/>

Under the motto "**Applied Science with Constant Awareness**", the scientific programme of **EUROCORR 2018** gives you an opportunity to catch up with the most recent and reliable scientific results and the latest industrial achievements, and to take part in the development of new standards and regulations in the subject area of corrosion control. As always during EUROCORR, each day 10 to 12 parallel sessions will run, some dealing with the most important general corrosion problems and some focusing on those specific to each branch of industry.



**Special joint sessions and workshops** in addition to the traditional EUROCORR topics:

- Corrosion mechanisms, methods and modelling (WP6 & WP8)
  - Cathodic Protection in Marine Environment (WP9 & WP16)
  - Microbial Corrosion in Marine Environment (WP9 & WP10)
  - Progress in prevention of microbial corrosion in Oil & Gas (WP10 & WP13)
  - Cathodic Protection in Civil Engineering (WP11 & WP 16)
  - Corrosion issues in CO<sub>2</sub> environment (WP13 & TF CO<sub>2</sub>)
  - Polymers in organic coatings (WP14 & WP19)
  - Accelerated Atmospheric Corrosion Testing – Exchange Platform for Advanced Methods (WP6, WP8, WP14, WP17, WP22 & WP23)
  - Corrosion protection by ZnAlMg coatings in atmospheric conditions (WP14, WP17 & TF)
  - Anticorrosion in sustainable building industry
  - Implementation and Administration of Corrosion Education Courses
  - Securing global water supplies through improved corrosion protection (WCO)
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- Big Data and Artificial Intelligence serving Corrosion Protection (WCO)
- Durability of photovoltaic systems (ENSCP)

For the complete listing of the topics, see: <http://eurocorr.org/topics2018.html>

**The call for papers is now open** at: <https://eurocorr.org/submission2018.html>

Deadline for abstract submission: **16 January 2018**

For general information concerning EUROCORR 2018, please visit the congress website at: <http://www.eurocorr2018.org> .

### **EUROCORR Young Scientist Grant – call for applications**

At EUROCORR 2018, the EUROCORR Young Scientist Grant will be presented for the third time. The grant will provide financial support to junior corrosionists to enable them to visit and interact with other corrosionists at their respective institutes and to discuss research issues of mutual concern relevant to the field. Each EUROCORR Young Scientist Grant recipient will be given the opportunity to present a brief outcome of the research visit at the EUROCORR Conference the following year.

The Deadline for submission of applications is **1 March 2018**.

For further details, see: <http://efcweb.org/EUROCORR+Young+Scientist+Grant.html>

*We look forward to meeting you in Cracow!*

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## **NEWS FROM WORKING PARTIES AND TASK FORCES**

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### **Change of Chairmanship**

In September 2017, **Professor Philippe Refrait**, Laboratory of Engineering Sciences for Environment (LaSIE), University of La Rochelle, France, succeeded Dr. Ulf Kivisäkk in the position of Chair of the EFC Working Party on Marine Corrosion (WP 9). The new Vice-Chair is Dr Shiladitya Paul, Materials Group, TWI, Cambridge, United Kingdom.

The objectives of the Working Party can be defined as follows: to provide engineers, designers and materials specialists with information related to the use of materials in the marine environment; to act as or to create a platform for discussion by authorities from industry and academic institutions on materials aspects of marine corrosion; to identify and to define areas in which information is not up-to-date or not available in the required form; to identify areas in which research and development is required; to establish and maintain contacts with other workers in the same area and either co-operate with them or avoid duplication of activities. In order to meet the objectives of the Working Party the following working methods have been decided upon for use in the Working Party: Organisation and participation in Workshops, Seminars and Conferences; preparation of guidelines on all aspects of marine corrosion; either conducting research or simulating others to do so in areas where a lack of scientific knowledge has been identified.

For further information, please visit the Working Party website at: <http://efcweb.org/WP9.html> .

### **News from the Working Party on Nuclear Corrosion (WP 4)**

The **workshop on '50 years of Working Party Nuclear Corrosion'**, held during EUROCORR/International Corrosion Congress 2017 in Prague was a great success with nine excellent invited talks covering many nuclear corrosion topics. Several of the awards are detailed on the front page of this newsletter. For workshop impressions and further information on the Awards presented by WP4, see <http://efcweb.org/WP4.html>

### **Ongoing activities of working parties**

To view the ongoing activities of all twenty-one of the EFC's working party corrosion specialty areas, please go to the individual Working Party web pages on the EFC website at: <http://www.efcweb.org/wp.html>

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## **FORTHCOMING EFC EVENTS**

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30-31 January 2018, DTU, Lyngby Denmark (EFC Event No. 432)

### **3rd International Seminar on Climatic reliability of electronics: Global Challenges and Perspectives**

This is a focused seminar with Invited presentations from industry and academia on various issues related to climatic reliability of electronics.

Website: <http://www.celcorr.com/index.php/ecebrs/upcoming-events>

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23-25 May 2018, DTU, Lyngby, Denmark (EFC Event No. 428)

### **17th Nordic Corrosion Congress**

Scope of the programme: Monitoring and testing for research and industrial control; Concrete and steel constructions – corrosion and protective strategies; Degradation of non-metallic materials; Durable materials in aggressive environments (chemical industry, HTHP) ; Environmental and health consequences of corrosion; Corrosion protection of marine constructions (coatings, off-shore wind turbines); Advanced analysis techniques for corrosion investigations; Water and building installations (atmospheric corrosion, metal release, materials selection); Corrosion and reliability of electronics and micro mechanics (testing, failure analysis, corrosion prevention); Corrosion in the energy sector; Corrosion properties of advanced materials, surface coatings and new manufacturing techniques.

Deadline for abstract submission extended to 15 December 2017.

Website: [http://www.atv-semapp.dk/arr2018/180523\\_nkm/pg\\_nkm.html](http://www.atv-semapp.dk/arr2018/180523_nkm/pg_nkm.html)

11-15 June 2018, Frankfurt am Main, Germany (EFC Event No. 430)

### **ACHEMA 2018**

32nd International Exhibition-Congress on Chemical Engineering, Environmental Protection and Biotechnology

Website: <http://achema.de>

22-27 July 2018, Cambridge, United Kingdom (EFC Event No. 418)

### **EMCR 2018 - Electrochemical Methods in Corrosion Research**

This triennial conference covers all aspects of electrochemistry as applied to corrosion, including electrochemical methods (e.g. impedance, noise, polarisation, high-temperature), scanning and microprobe techniques (e.g. SECM, SVP, LEIS, AFM-based), electrochemical modelling from the atom to the application, in-situ and in-operando approaches, and complementary methods (e.g. eQCM, spectroscopy, diffraction, synchrotron) as applied to: environmentally assisted cracking and hydrogen detection Coatings; energy materials (e.g. oil and gas, nuclear, non-conventional); Cathodic protection; Inhibition and water chemistry; Biomaterials.

**The call for papers is open.** Deadline for submission: **13 April 2018**

Website: <http://www.emcrconference.org/>

9-13 September 2018, Krakow, Poland (EFC Event No. 429)

### **EUROCORR 2018**

This is covered in some detail earlier in the present newsletter.

**The call for papers is open (see above).** Deadline for abstract submission: **16 January 2018**

Website: <http://www.eurocorr2018.org>

9-13 September 2019, Seville, Spain

### **EUROCORR 2019**

Save the date! More detail to follow in subsequent newsletters.

6-10 September 2020, Brussels, Belgium

### **EUROCORR 2020**

Save the date! More detail to follow in subsequent newsletters.

For full details of these and a complete listing of many other future corrosion events held in Europe and throughout the world, go to the EFC Calendar of Events at: <http://www.efcweb.org/Events.html>

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## **THE PAUL MCINTYRE AWARD**

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Many readers will remember Paul McIntyre who served diligently, competently and fastidiously as Scientific Secretary of the EFC from 1997 almost until his untimely death from cancer in July 2012. In 2015 The UK's Institute of Corrosion, Corrosion Engineering Division, decided to establish an award to be granted annually for an outstanding corrosion engineer, this award to be on a par with the Institute's U R Evans award for an outstanding corrosion scientist. It was further decided that this award should carry Paul's name. The award itself was designed in a polymeric material, but cleverly illustrated within it is a crack in a metallographic structure (the study and prevention of stress corrosion cracking, alongside hydrogen cracking, being one of Paul's particular interests).

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Apart from major involvement in corrosion engineering, some of the criteria for granting the award were demonstration of significant activity in Paul's other strengths, particularly dissemination of corrosion knowledge (Paul was editor of the British Corrosion Journal (now CEST) from 1996 until 2006), International Standards (ISO) work and having a senior position (normally voluntarily) in a technical organisation such as the EFC or a member body. We were lucky to find an excellent candidate fulfilling these criteria in **Ulf Kivisäkk** of Sandvik Materials Technology R&D, Sweden and it was on the occasion of the CED working day in Sheffield on 27<sup>th</sup> April 2017 that the inaugural award was given to Ulf.



With Ulf Kivisäkk are (L to R): Nick Smart, Paul's son Gerald, Sarah Vasey, and Paul's daughter Anthea

Apart from The ICorr President Sarah Vasey. Paul's son, Gerald and daughter, Anthea, were in attendance and said a few kind words about Paul. Ulf then gave a short talk summarizing his contribution to the EU-funded programme on developing an ISO standard test method for assessing crevice corrosion of 316L stainless steel in marine environments ("CREVICORR"), and also his investigations into HISC of duplex stainless steels.

Nominations are now open for the 2018 Paul McIntyre award please send them to Nick Smart (<[nick.smart@woodplc.com](mailto:nick.smart@woodplc.com)>) the current Chair of CSD before **31st January 2018**.

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