

# E-NEWSLETTER

Issue April 2016

Dear Fellow Corrosionists,

Welcome to our annual e-newsletter This edition is connected to April 24th's World Corrosion Awareness Day and contains the latest news on the people and activities that make up our Federation. Willi Meier has taken over as Chair of the World Corrosion Association - see later in this newsletter for more details. We also have details about the upcoming EUROCORR in Montpellier, and information about the further planned EUROCORRs in Prague (2017), Krakow (2018) and most recently announced Seville in Spain (2019). I would just like to say a few words on EUROCORR 2015. This very successful event was held in Graz, Austria from 6 - 10th September 2015. The focus of the meeting was Earth, Water, Fire, Air, Corrosion Happens Everywhere. The meeting attracted over 805 delegates from 52 countries with Austria, France, Germany and the UK providing around half the delegates between them. Over 360 papers and 120 posters were presented during the 18 sessions and 5 workshops. Other things to note in this newsletter are the young scientists grant to enable them to visit and interact with other corrosionists and the 3 day Graduate Course in Corrosion Science which will precede EUROCORR in Montpellier. So where are we with corrosion in 2016, nearly a hundred years since Ulick Richardson Evans provided a firm foundation for its electrochemical nature (his first paper in this area was published in 1923)? Maybe the general view is that corrosion has been solved (older people often ask me "why is corrosion of the motor car no longer apparent? - the answer I give is "cathodic electrocoat"!) But it hasn't! Recently we had a new kitchen installed complete with a new cutlery drainer sporting a nice white organic coating on the steel base. Within three months this item is failing due to blistering and corrosion. Quite obviously the protective coating system was not up to the job. Very many people must have similar experiences. Governments only sit up and take notice when there are big failures (as Willi talks about in his short article about the World Corrosion Association later in this newsletter) - maybe we need to get the public to contribute to a list of all these many small corrosion failures which are also are a drain on the economy and send it to the Prime minister / President of each European country and also the appropriate Government minister (also the EU President!) The EFC (and also the WCO) is in a great position to help with the compilation of such a list. Bigger failures as well of course would be included. Anyway we all need to raise awareness where we can. (maybe relevant senior government people could be sent this newsletter!) This theme is well addressed in Fatima's letter (below).

Have a good, corrosion free, summer! And see you in Montpellier

http://www.efcweb.org
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Douglas Mills

**EFC Newsletter Editor** 

To all the members of the European Federation of Corrosion

#### Dear members.

It has been a great honour for me this last year to serve you as the EFC President. I started my mandate in January 2015 and since then I've been driving the EFC towards its vision "To be recognised as the leading representative for all the professionals (individuals and societies) interested in a solid scientific knowledge on corrosion protection strategies and corrosion science."

The EFC represents over 30 societies from European countries including a number of well-known overseas societies. Presently, the growing number and geographical diversity of new



organisations joining EFC guarantee that EFC is a highly reputed and prestigious organisation and an example to other such societies around the world. Undoubtedly, the EFC plays a key role in addressing the global problem of corrosion and its prevention. This is clearly highlighted in the EFC annual event, the EUROCORR congress, a flagship occasion that attracts nearly 1000 delegates from more than 50 countries all over the world.

The EFC strategic plan envisages consolidating the EFC position in Europe and overseas and aims at implementing new initiatives that require a closer collaboration with the member societies and which will lead to international expansion of the EFC. The targets are clear: The EFC must increase its value and brand, must become an internationally recognised reference and must work closely with its members for mutual benefits.

Therefore I commit to providing the leadership the EFC requires to implement its strategic plan, and to achieve its objectives and ambitions that include:

- To strengthen the EFC position as leading association in Europe in close dialogue and collaboration with its member societies
- To advance the science of corrosion and the engineering and technologies for corrosion protection of materials.
- To disseminate the highest level scientific knowledge by leading worldwide-recognised events.
- To increase the international visibility of EFC beyond the borders of Europe by consolidating strategic partnerships in selected regions of the world
- To expand membership numbers to span influence in the most relevant streams of corrosion-related research and solutions.

I do believe that these objectives can be achieved and that the EFC team, which includes the Science and Technology Advisory Committee (STAC) and the Secretariats in Paris, London and Frankfurt am Main, are deeply committed to strengthen the visibility and presence of the EFC in Europe and internationally.

As President of the EFC, I cannot finish this message without expressing my gratitude to all the member societies: thank you for supporting my Presidency, for contributing to the EFC activities and for strengthening EFC as a reference in the corrosion field.

I look forward to many great years ahead for the EFC and I am honoured to have the opportunity to serve as your President.

Thank you very much. See you in Montpellier for the EUROCORR 2016. Sincerely yours,

Fátima Montemor

### WHO'S WHO

## EFC Managing Officer - Dr. Hélène Illaire

The start of September 2015 has brought a change at the European Federation of Corrosion (EFC) with the appointment of the Managing Officer, a position newly created by the EFC.

**Dr. Hélène Illaire's** principal responsibilities include public relations activities, in particular, coordinating and supervising the EFC offices in London, Paris and Frankfurt; developing activities to strengthen the participation of Member Societies in EFC and vice-versa; assisting Member Societies in internationalisation of their activities; organising events like courses and workshops; assuming the continuity and sustainability of the EUROCORR exhibition in close interaction with the organisers and exhibitors; recruiting new Member Societies (European and International) and Affiliate Members, such as universities, research institutes and companies.



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EFC Administration: http://efcweb.org/Administration.html

#### Dear colleagues,

Our dear and esteemed teacher and friend, professor dr. sc. Ivan Esih, left us at the age of 87. He spent most of his working career at the University and instructed many generations of students and teachers.

Born in Zagreb on 28 June 1929, he graduated in Chemical Engineering in 1954 and attained his PhD in Chemistry at the University in Zagreb in 1970. After six years of practice in chemical engineering and coating technology, he joined the Technical College at the University of Zagreb in 1961, where he founded the Laboratory and Chair of Materials Protection, introducing the subject into the higher education curriculum of former Yugoslavia.



He was teacher and professor of General and Physical Chemistry, of Corrosion and Corrosion Protection and of Surface Engineering and served as a vice dean, first of the Technical College (1966-1967), then subsequently of the Faculty of Mechanical Engineering and Naval Architecture (1972-1976). As an author he published 3 university textbooks, 3 chapters in books, 7 handouts and 3 handbooks for engineers and over 140 scientific and professional papers in journals and proceedings. Although he retired in 1999, he remained active, in scientific and professional terms, both within and outside the Faculty.

His many recognitions, honours and awards included the Order of Labour with Silver Wreath (1971), the Great FMENA Medal (1976), and the Plaque of the Yugoslav Federation of Engineers and Technicians.

Professor Esih left a deep mark among the academic and business community, especially in the field of corrosion protection. He was one of the founders of the Croatian Society for Materials Protection. From 1961 to 1982 he was Secretary of the Croatian Society for Materials Protection and then from 1982 to 2003 its President. From 1989 to 1991 he was Chairman of the Union of Engineers and Technicians for Materials Protection in former Yugoslavia. He worked together with researchers from around the world and his work was recognised and highly valued by the entire corrosion community. Since 1984 he was a member of the International Corrosion Council, and from 1995 to 2004 he represented the Croatian Society for Materials Protection in the European Federation of Corrosion. From 1972 to 2014 he organised 22 Conferences of Materials Protection and Industrial Finish "KORMAT".

Professor Ivan Esih was an outstanding chemical engineer, researcher, expert and polyglot, and his knowledge and experience was a valuable resource for the engineering community in Croatia and abroad. In his teaching, scientific and professional work and his engagement in general, he distinguished himself by perseverance and integrity, and an extremely fair and kind relationship to students, collaborators and co-workers, for whom he always had time.

Since his retirement, for fifteen years, he remained involved with the Laboratory of Materials Protection and the Croatian Society for Materials Protection.

He was our guide and mentor, a great man who will dwell forever in our hearts as our highly esteemed professor and teacher.

Croatian Society for Materials Protection

## **EUROCORR 2016**

**EUROCORR 2016** will take place from **11 to 15 September 2016** in **Montpellier** (**France**) a beautiful and charming Mediterranean city, offering a blend of history, culture and modernity. CEFRACOR, The French Member Society of the EFC, in cooperation with Chimie ParisTech, will be co-organising this major corrosion event.



EUROCORR 2016 will cover all aspects of corrosion science, technology, and engineering, with emphasis on a main theme: *Advances in linking science to engineering*.

Special Topics in addition to the traditional  $\boldsymbol{Working\ Party\ Sessions\ }$  will be:

**Joint Sessions**: Coatings for High Temperatures; Cathodic Protection in Marine Environment; Cathodic Protection of Steel in Concrete; Polymer and Composite Materials in Refinery, Petrochemical and Chemical Industries; Accelerated Corrosion Testing, Science - Lab & Field.

**Workshops**: Advanced Analytical Methods for Corrosion Research; Corrosion and Protection of Magnesium Alloys; Corrosion Issues for Renewable Energies; Corrosion Reliability of Electronics Devices and Materials; Quality Control, Standardization and Certification for Protective Paint Systems; Improving Corrosion Control of Ships; CO2-Corrosion in Industrial Capture, Transportation and Utilization Applications; Surface Preparation Issues Related to Corrosion Protection Performance.

For a complete listing of all EFC working party sessions, joint sessions, and workshops, please refer to the respective EUROCORR 2016 web page at: <a href="http://eurocorr.org/Topics.html">http://eurocorr.org/Topics.html</a>

## Important dates:

27 May 2016 - Deadline for early registration 15 June 2016 - Deadline for submission of full manuscripts The registration fees include access to the oral sessions and workshops, poster presentations and exhibition, lunches, coffee breaks and cocktails, programme booklet, proceedings (on memory stick), exhibitors guide, and the list of participants. *Online registration will open on 25 April 2016*.

#### **Exhibition & Sponsorship:**

**EUROCORR 2016 sponsors** (as of April 2016) are: GRTgaz (Platin Sponsor); BAC Corrosion Control, DCNS, Institut de la Corrosion, Materials Technology Institute, Thermo-Calc Software, Total (Gold Sponsors); CEA - Centre MINOS (Silver sponsor); The Electrochemical Society (ECS), International Society of Electrochemistry (ISE).

Details about Sponsorship Opportunities and the Order Form are available at: <a href="http://eurocorr.org/Sponsoring.html">http://eurocorr.org/Sponsoring.html</a> **Exhibitors** (as of April 2016): 3X ENGINEERING, AMETEK, BAC Corrosion Control, Bio-Logic Science Instruments SAS, CEFRACOR, Chimie ParisTech, Contrôle et Maintenance, Cormet, Cortec Corporation, CURTISS-WRIGHT Surface Technologies, DEHN France, ECT France, EFC, Elsyca, ENGIE, Filière Peinture Anticorrosion, Freyssinet, GAMRY Instruments, GRTgaz, GEP AFTP, ICMCF, Institut de la Corrosion, IPS, IPSI, Ivium Technologies, MetriCorr, Metrohm, MONTI-Werkzeuge GmbH, Materials Technology Institute (MTI), NACE International, Oerlikon Metco, Olympus, PalmSens, Polyguard, SANDVIK, STOPAQ, Société Française du Vide (SFV), Thermo-Calc Software, Trenton Corporation, World Corrosion Organisation (WCO).

Companies and organisations are invited to present their products, services and the latest developments in the fields of surface treatment, materials, coatings, surface analysis, imaging and microscopy, vacuum systems. The different exhibition options are provided at: <a href="http://www.vide.org/eurocorr2016/exhibition.html">http://www.vide.org/eurocorr2016/exhibition.html</a>

Last booths available.

## **EUROCORR Young Scientist Grant**

At EUROCORR 2016, the EUROCORR Young Scientist Grant will be presented for the first 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 2017 Conference

For the most up-to-date details on EUROCORR 2016, please refer to the website at: http://www.eurocorr2016.org/

#### **Graduate Course on Corrosion Science**

The course is intended for graduate students or researchers working in academic or industrial environments with an interest in materials science and engineering. The aim is to discuss the underlying chemistry and physics of the most important forms of metal corrosion. Mechanistic as well as applied aspects will be dealt with.

The course will be held in the conference center "Le Corum" during the 3 days prior to EUROCORR 2016 (Friday 9 to Sunday 11 September 2016).

The course will be held by Prof. Christofer Leygraf together with lecturers among the most competent experts in their respective fields.

### Course fees:

EUROCORR 2016 Registered Participants: € 275,-Others: € 375,-

For detailed information (including course plan) and registration, please refer to the EUROCORR 2016 web page at: <a href="http://eurocorr.org/GraduateCourse.html">http://eurocorr.org/GraduateCourse.html</a>

### **NEW MEMBERS AND MEMBERSHIP ENQUIRIES**

The EFC welcomes on board its newest Affiliate Member (since September 2015):

## National Institute for Nuclear Science and Technology (INSTN)

CEA - Centre d'Etudes de Saclay, 91191 Gif-sur-Yvette, France

Website: http://www-instn.cea.fr

INSTN (French National Institute for Nuclear Science and Technology) is the academic Institute of CEA. INSTN delivers several diploma, including Masters where corrosion is one of the items included in the Masters. INSTN organises also specific courses and formations (in French and English) including some on corrosion issues, such as the one on "Corrosion Modelling".

## **EFC Membership Enquiries**

For European, international and Affiliate EFC membership inquiries please contact the EFC Frankfurt office (<a href="https://encount.com/nonescape-encount

For a listing of current EFC Member Societies and Affiliate Members, go to the EFC website at: http://www.efcweb.org/Who+we+are

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

#### Change of Chairmanship

In September 2015, **Ms. Elizabeth Szala**, R & D - Innovation Centre Duffel, Aleris Aluminium Duffel BVBA, Belgium, succeeded Dr. Fouzia Hannour in the position of Chair of the EFC Working Party on Automotive Corrosion (WP17). The main focus of WP17 has been to organise strong sessions covering key topics in the field of automotive corrosion and corrosion prevention/solutions. Moreover, because of the specificity of the automotive corrosion issues, it has been a main focus to stimulate the participation of industries in EUROCORR. European but also international OEMs have been approached as automotive manufacturing is expanding globally and particularly in Asia.

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Also in September 2015, **Dr. Stéfano Mischler**, École Polytechnique Fédérale de Lausanne (EPFL), Tribology and Interface Chemistry Group, Lausanne, Switzerland, was elected as the new Chair of the EFC Working Party on Tribo-Corrosion (WP18). He succeeds Prof. Jean-Pierre Celis, the first Chair of this Working Party, who held the position for thirteen years.

The General Policy of WP 18 at European level is: to inventory the industrial concerns and needs in the area of tribocorrosion; to stimulate multidisciplinary research activities in order to develop solutions to the industrial problems of tribocorrosion; to structure and strengthen the European research area (ERA) in line with the CEC-6 FP,7FP, Cost-ESF; to disseminate new insights acquired on typical aspects of tribocorrosion in order to achieve worldwide recognition of European research and technological developments on tribocorrosion.

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#### Ongoing activities of working parties

To view the ongoing activities of all 20 of the EFC's working party corrosion specialty areas, please go to the individual Working Party web pages on the EFC website at: <a href="http://www.efcweb.org/wp.html">http://www.efcweb.org/wp.html</a>

## **RECENT EFC PUBLICATIONS**

Stress Corrosion Cracking of Nickel-based Alloys in Water-cooled Nuclear Reactors, 1st Edition: The Coriou Effect (EFC 67)

Edited by Damien Féron and Roger W. Staehle

Release: 17 February 2016

- Up-to-date reviews of recent research findings from leading experts in the field
- Authoritative and comprehensively reviewed by the Working Party 4 on Nuclear Corrosion
- Showcases the excellent quality and technical accomplishments of Henri Coriou and CEA

Woodhead Publishing, 384 pages, Print Book ISBN: 9780081000496

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## Corrosion Under Insulation (CUI) Guidelines(EFC 55), 2<sup>nd</sup> Edition Edited by Stefan Winnek

Release: 27 Nov 2015

- Revised and fully updated technical guidance on managing CUI provided by EFC Working Parties WP13 and WP
- Contributions from a number of European refining, petrochemical and offshore companies
- Extensive appendices that provide additional practical guidance on the implementation of corrosion-underinsulation best practice, collected practical expertise and case studies

Woodhead Publishing, 162 pages; Print Book ISBN: 9780081007143; eBook ISBN: 9780081007396

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EFC-appointed publisher for our noteworthy EFC "Greenbook" Series, Woodhead Publishing based in Cambridge, England, was acquired by Elsevier in August 2013. Publications 38, 41-51, 53-55, and 65 onwards are distributed by Elsevier. All members of an EFC Member Society are entitled to a discount on any EFC "Greenbook" Series titles. For more information and to browse the titles, please visit the Elsevier store: <a href="http://store.elsevier.com/Woodhead-Publishing/IMP">http://store.elsevier.com/Woodhead-Publishing/IMP</a> 209/.

Prior to Woodhead the publisher was Maney.

A complete list of EFC publications is given at: http://efcweb.org/List+of+EFC+Publications.html

#### **FUTURE EUROCORRS THE EUROPEAN CORROSION CONGRESS**



Theme: Corrosion Control for Safer Living

Prague, an architectural, musical and cultural jewel of a city will be the location for EUROCORR 2017 which will be jointly hosted by The Czech Association of Corrosion Engineers (AKI) and DECHEMA e.V. This 2017 EUROCORR will be held jointly with the International Corrosion Congress-ICC. The programme will include lectures and poster presentations in all areas covered by the EFC Working Parties with additional topical workshops.

The call for papers will open in autumn 2016.

Website: http://www.eurocorr2017.org; http://www.20thicc.com

E-mail: eurocorr2017@guarant.cz

Contact:

Czech Association of Corrosion Engineers (AKI)

Prof. Milan Kouril

VSCHT Praha (106), Technická 5 16628 Praha 6 - Dejvice, Czech Republic

E-mail: kourilm@vscht.cz

Website: http://www.aki-koroze.eu

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Other important dates for your diary

#### **EUROCORR 2018**

09-13 September 2018, Krakow, Poland

EFC Member Society PSK, the Polish Corrosion Society, will be your host for EUROCORR 2018 in the beautiful city of Krakow, one of the oldest cities in Poland.

Contact:

Polish Corrosion Society

Dr inz. Agnieszka Królikowska (President)

Elblaska 133A

80-718 Gdansk, Poland

E-mail: <u>akrolikowska@ibdim.edu.pl</u> Website: <u>http://www.psk.org.pl</u>

## **EUROCORR 2019**

09-13 September 2019, Seville, Spain

EUROCORR 2019 is hosted by EFC's Spanish Member Society, SOCIEMAT.

Contact:

Sociedad Espanola de Materiales (SOCIEMAT) Spanish Materials Society Urb. Los Arroyos c/25 no 78 28292 El Escorial, Madrid, Spain

E-mail: sociemat1996@gmail.com Website: http://sociemat.es

## FORTHCOMING EFCE EVENTS AND COURSES

27 April 2016, Salle Jules Meny (Paris-la-Défense), France (EFC Event No. 408)

"High Temperature Hydrogen Attack" Round Table

Website: http://efcweb.org/High+Temperature+Hydrogen+Attack+Round+Table.html

09-12 May 2016, Toronto, Canada (EFC Event No. 403)

LTC2016 - 6th International Workshop on Corrosion in Nuclear Waste Systems

Website: http://www.ltc2016.ca/

11-13 May 2016, Ryn, Poland (EFC Event No. 414)

PSK Conference 2016 "State-of-the-art-anticorrosion technologies"

Website: <a href="http://psk.org.pl/konferencje-psk2/psk-ryn-2016">http://psk.org.pl/konferencje-psk2/psk-ryn-2016</a>

15-20 May 2016, Les Embiez Island, France (EFC Event No. 402)

HTCPM 2016 - 9th International Symposium on High-Temperature Corrosion and Protection of Materials

Website: http://www.htcpm2016.com/

24-27 May 2016, Lille, France (EFC Event No. 406) FAC 2016 - Conference on Flow Accelerated Corrosion

Website: http://edf-fac2016.org/

15-17 June 2016, Gniew, Poland (EFC Event No. 415) Corrosion Measurements in Electrochemical Protection

Website: http://www.pkeopk.sep.com.pl/index.php

04-07 September 2016, Mittweida, Germany (EFC Event No. 407)

7th Kurt Schwabe Symposium
Website: http://dechema.de/en/KS2016

05-07 October 2016, Bayburt, Turkey (EFC Event No. 411)

XIV. International Corrosion Symposium Website: <a href="http://www.korozyondernegi.org.tr/">http://www.korozyondernegi.org.tr/</a>

25-27 October 2016, London, United Kingdom (EFC Event No. 405)

**Element Oilfield Engineering with Polymers Conference** 

Website: http://oilfieldpolymers.nace.org/

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: <a href="http://www.efcweb.org/Events.html">http://www.efcweb.org/Events.html</a>

#### **EFC Event Publicity**

If you are an EFC member society and are organising a corrosion-related event or course, you are entitled to EFC endorsement via an EFC Event number and a full publicity write-up of your event in our newsletters, including a listing in the EFC Calendar of Events and on the home page of the EFC website. Event and Course Application Forms can be downloaded on our website at: <a href="http://www.efcweb.org/Events.html">http://www.efcweb.org/Events.html</a> and sent to EFC Scientific Secretary Dr. Roman Bender at: <a href="mailto:bender@dechema.de">bender@dechema.de</a>

#### Newsletter subscription

If you wish to subscribe to our EFC newsletters please send your name and full contact details to Ines Honndorf: honndorf@dechema.de

## NEWS FROM MEMBER SOCIETIES AND RELATED ORGANISATION

## From the World Corrosion Organization – WCO

**Prof. Willi Meier** (see photo) has taken over the role as Director General of the World Corrosion Organization from long time incumbent George Hays.

Willi would like to thank George for his long term commitment towards corrosion abatement and says he looks forward to the challenges of raising public awareness of corrosion around the world. His first endeavour in promoting awareness to corrosion and its control is through his patronage of Corrosion Awareness Day, taking place on 24th April this year. Read Willi's open letter to the corrosion world below. Willi studied chemistry at the RWTH Aachen, Germany, where he gained his PhD in 1992.



He is responsible for the international cooperation of the DECHEMA e.V. and is General Secretary of the European Federation of Corrosion (EFC) and the European Federation of Chemical Engineering (EFCE). In 2013, he was appointed honorary professor at the Technical University of Clausthal and holds courses in product design.

## "Be part of the picture" by Prof. Willi Meier

Corrosion Awareness is raised when incidents occur within a production plant or civil construction buildings like bridges etc. crash due to corrosion issues. Nearly all these incidents could be avoided if corrosion protection methods had been properly applied or the right construction materials were chosen. The cost of corrosion damage is estimated to be in the range of billions of dollars per year worldwide and also lives could be saved if people were aware of corrosion problems. The World Corrosion Organization has therefore created the Corrosion Awareness Day which will take place on April 24, 2016. All Corrosion Societies around the world are invited to organize events and set up joint actions to bring corrosion into the public focus. The WCO offers support concerning promotion, coordination or secretarial support for the proposed actions.

More information can be found on the Website <a href="http://www.corrosion.org">http://www.corrosion.org</a>
If you are interested to participate please contact: <a href="mailto:info@corrosion.org">info@corrosion.org</a>



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To make a contribution to the next newsletter (being published in September 2016), please send your name and full contact details to Ines Honndorf: honndorf@dechema.de

The statements and opinions expressed in the e-newsletter are those of the contributors and EFC assumes no responsibility for them.

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