

Issue April 2017

<http://www.efcweb.org>

Dear Fellow Corrosionists,

This is the World Corrosion Day (24th April) newsletter. Your Editor will be in mainland Europe on the day (in France near Nimes) as he was in 2015 (on that occasion at La Rochelle!). The Presidents letter says it all below – I would just like to draw your attention to two hot off the press items. The winner of the European Corrosion Medal is Professor. Mario G.S. Ferreira, from Portugal. (a write up on him will occur in the printed newsletter which will be issued at the EUROCORR in Prague). A future event, EUROCORR 2020, will take place in Brussels, Belgium, to be hosted by VOM asbl, the Belgian Association for Surface Treatment, in cooperation with VUB – SURF, UMONS and the Materia Nova Research Centre.

The present newsletter includes obituaries to two famous corrosion people; one French, Philippe Berge and one British, Charles Booker. Great men both of them.

I hope you enjoy reading the newsletter.

Regards

Douglas Mills
EFC Newsletter Editor

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A FEW WORDS FROM THE PRESIDENT

To all the members of the European Federation of Corrosion

Dear members,

At the conclusion of my letter published in the EFC e-newsletter last February, I invited you to be proactive for the Corrosion Awareness day to increase the awareness of the public concerning the need to control corrosion for safety and financial considerations and to deal with environmental issues.

Since 2010, an EFC e-newsletter has been connected to "World Corrosion Day" on April 24th. This is a worldwide event, organised on the initiative of the World Corrosion Organization (WCO). EFC is proud to participate again in this event through this second 2017 e-newsletter. The WCO is a non-profit charitable organisation independent from states and international governmental organisations, based in New-York and co-funded by the European Federation of Corrosion. WCO is the only corrosion Non-Governmental Organisation (NGO) of the United Nations (UN).

Although, for several years, WCO has been more or less a "dormant" organisation, today, with its new President, Prof. En-Hou Han of the Institute of Material Research-Chinese Academy of Science (Shenyang, China) and its new Director General, Prof. Willi Meier of DECHEMA (Frankfurt, Germany), a new strategy has been developed. This will much increase its profile over the next few years, with a large presence during major EFC and NACE events (EUROCORR and CORROSION) and with the publication of White Papers, the first of these being on corrosion issues and protection in water supply facilities. Joint committees are being constituted designed to work on strategies for achieving each of the main WCO goals which are :

- To raise the public awareness of corrosion and corrosion control as well as develop and implement an international recognition of the 24th of April each year;
- To identify international best practice in corrosion management, particularly what practices would best suit the economies of developed countries;
- To facilitate the provision of corrosion control and expertise to governments and communities;
- To normalise and to harmonize corrosion related standards worldwide.



I believe that these goals are in accordance with the EFC objectives and I am pleased that several EFC member societies have already taken the opportunity to become WCO members with preferential conditions as EFC is offering to pay part of the annual membership fee. In many countries, including European ones, the NGO status, which the WCO has, is important to put pressure on government or local authorities to become involved in corrosion issues like protection of infrastructures, educational opportunities, academia and research programs, etc.

EFC is looking forward with much anticipation to EUROCORR 2017 in Prague, September 3rd – 7th, 2017. For the first time, it will be a combined event with the 20th International Corrosion Congress of the International Corrosion Council and with the Process Safety Congress. The whole international corrosion community will converge on the EFC flagship event: it is a major opportunity to bring together researchers, engineers, experts in corrosion science and engineering. EUROCORR 2017 is the right place for networking, identifying new partners, initiating new collaboration, exchanging new results, improving new ideas, etc.

Looking forward to meeting you in Prague, next September.

Pr Damien Féron

11th EFC President (2017-2018)

WHO'S WHO

IN MEMORIAM

It is with great sadness that we announce the passing of **Dr. Jacques-Philippe BERGE** on February 5th, 2017 at the age of 83 years. Dr. Berge made major scientific and engineering contributions in the fields of corrosion, chemistry & materials for energy. He had a major influence on the development of nuclear energy worldwide, particularly in France and in Europe, but also in Japan and in North America.

Jacques-Philippe Berge graduated from the ESPCI (*École Supérieure de Physique et Chimie Industrielles de la ville de Paris*). After gaining two PhDs (*Docteur-Ingénieur* then *Docteur-es-sciences*), he joined EURATOM before being employed by EDF (*Electricité de France*) where he was Head of the Department of Materials Studies (*Département Etudes des Matériaux*) at the R&D Directorate and then the Director of the GDL (*Groupement des Laboratoires*) at the Thermal and Nuclear Production Directorate. He was heavily engaged in many scientific and engineering associations: he was the President of SF2M and COFREND, and an active member of CEFRACOR and SFEN in France, for instance. He was involved in the creation and the organisation of major conferences in nuclear energy, including the 4-yearly "Fontevraud conferences" on materials behaviour in nuclear power plants and the 2-yearly conferences on nuclear water chemistry (NPC).

Dr. Berge became involved in the EFC as an active member of the Working Party on Nuclear Corrosion (WP4). He was elected to chair the WP4 in 1986. During his chairmanship, which encompassed nearly 10 years (1986-1994), he introduced great changes, dynamism and enthusiasm. English became the exchange language inside WP4 and he opened debates to the international scientific community. Within WP4, he edited the very first book in the EFC series of "Green Books" (1989) and in 1991 he organised the first workshop on "corrosion problems related to nuclear waste storage" (Handeck, Switzerland). At the end of his chairmanship, WP4 had 140 active individual members and was structured into nine main topic areas: Pressurized Water Reactors (PWRs), Boiling Water Reactors (BWRs), Fuel elements (cladding), high temperature reactors, liquid metal fast breeders, fusion reactors, reprocessing plants and waste management. He was an active member of the Board of Administrators (BoA) and was elected EFC Vice-President (1998-1999) and unanimously elected EFC President (2000-2001). He stayed involved in the administration of EFC and in 2009 he was nominated EFC Honorary Member by unanimous vote of the BoA and of the EFC General Assembly for his long and successful activity at EFC.

These are but a few examples of Berge's energetic efforts to promote European and international exchanges. He greatly inspired an entire generation of scientists and engineers. He was a leading member in the field of materials and chemistry, promoting research, innovation and dissemination of information via meetings and publications.



IN MEMORIUM

**Dr Charles J L Booker BSc PhD (Lond) PhD (Cantab) FRSC C.Chem FICorr (Hon)
16 August 1930 – 1 March 2017**

Charles J. L. Booker (always known by his work colleagues as Charlie) was a dutiful man, with a sharp wit and a zest for learning. Below is an obituary based on the writings of one of his grandsons (Sam), and from the eulogy delivered by his son Richard at his funeral, with some additions by a colleague who knew and worked with him for about ten years.

Charles came from relatively humble stock and was the first person in his family to attend University. After obtaining an honours degree in Chemistry from Sir John Cass College, he served his country by completing National Service in the RAF. He then went on to achieve not one, but two PhDs! The first, in 1952 from University of London, was in Physical Chemistry. The second, from Christ's College Cambridge, in 1962 was in Metallurgy. In 1958 Charles married Marylyn and they had three children; Karen, Helen, and Richard. With Marilyn's support Charles was able to press ahead with his career. He crossed the Atlantic Ocean, to complete a two year academic placement in Canada. Thereafter he returned to the UK and took up a post working under George Butler at the National Physical Laboratory. During his career Charles contributed towards many leading papers in prestigious journals (including Nature) on corrosion. Charles had a progressive view of education. He strongly believed in the Polytechnic movement, and would encourage a new generation to consider higher education by giving talks at local schools. In 1965 he returned to City of London Polytechnic to become the Principal Lecturer and Course Director of the MSc in Corrosion Science and Engineering. It was whilst working there that Charles would leave his own great legacy. In the 1970s a plan to create a strong flood defence barrier was born and Charles' department was asked to lead a team of chemical engineers, tasked with ensuring the barrier's longevity. With a group of committed colleagues he worked hard to ensure the barrier would elude corrosion in the generations to come. Marylyn died young in 1985 from breast cancer. From this very sad event Charles was determined some good would come, and he threw himself into fundraising for the new Princess Alice Hospice. Despite his retirement, Charles' advice continued to be solicited by the scientific community. He took on a part-time voluntary Directorship at the Institute of Corrosion. He was Honorary Secretary for ten years (1992-2002), and at the conclusion of this period of service a special award was instituted (The Henry Cole award –a Poniard) for outstanding administrative service to the Institute and Charles was the first recipient. He also served the European Federation of Corrosion as Honorary Treasurer in the years 2001-2004 where he worked closely with Paul McIntyre. He still found time to become a very active member of his local church, St Mary's. He also enjoyed being part of Sunbury on Thames History Society and it was here that he met Eileen Bentley. They were married in 1990, and provided each other with valuable companionship. In 2012 Charles was diagnosed with Alzheimer's but he fought against this with characteristic bravery and even humour. However in January 2017 he suffered a severe stroke. His final days were spent in the Princess Alice Hospice, the very hospice whose foundation he had helped to finance many years earlier. Charles Booker was a man of distinction, whose loss will be keenly felt by his colleagues, friends and the three children and eight grandchildren that survive him.



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

EUROCORR 2017 & 20TH INTERNATIONAL CORROSION CONGRESS & PROCESS SAFETY CONGRESS 2017

**Joint EUROCORR 2017 & 20th International Corrosion Congress & Process Safety Congress 2017
3rd to 7th September 2017, Prague, Czech Republic** (EFC Event No. 417)

Theme: *Corrosion Control for Safer Living*

Organised on behalf of EFC and ICC by the Czech Association of Corrosion Engineers (AKI) and DECHEMA e.V., in cooperation with the Centre of Chemical Process Safety (CCPS) at the Prague Congress Centre.



EUROCORR 2017 & 20th International Corrosion Congress topics:

Special **Joint Sessions** and **Workshops** in addition to the traditional **Working Party Sessions** will be: Techniques and standards for SCC testing; Corrosion of steel in concrete and cathodic protection; Corrosion fatigue in seawater; Cathodic protection in marine environments; Impact of corrosion on potable water supplies; Coatings for High Temperatures; 50 years of EFC WP 4 on Nuclear Corrosion; Accelerated Atmospheric Corrosion Testing - The way forward; Session In memory of Prof. Francesco Mazza; Non-destructive testing and corrosion monitoring for industrial applications; Microscopy for understanding and preventing corrosion; Corrosion in automotive: prediction and prevention; and Impact of testing conditions on cracking mechanisms under hydrogen charging.

For a complete listing of all EFC working party sessions, joint sessions, and workshops, please refer to the respective Congress web page at: <http://eurocorr.org/topics2017.html>

Process Safety Congress 2017

Topics: Process Safety Case Studies and Lessons Learned; Process Safety Leadership and Culture; Process Safety Integrity Management; Human Factors Analysis; Hazard identification and risk analysis/management; Process Safety Management Implementation; Special emphasis will be given to sharing process safety learning from corrosion in the Process Industries.

Abstract submission has been extended to 28 April 2017.

Please submit your abstract [HERE](http://www.prague-corrosion-2017.com/) (Link: <http://www.prague-corrosion-2017.com/>)

[REGISTER ONLINE NOW!](http://www.prague-corrosion-2017.com/registration/) (Link: <http://www.prague-corrosion-2017.com/registration/>)

The full registration fee includes: Admission to all scientific sessions; Welcome Party on Sunday, September 3, 2017; Poster Party on Tuesday, September 5, 2017; Conference Dinner on Wednesday, September 6, 2017; Admission to the exhibition area; Conference materials; Refreshments during coffee breaks and lunch breaks.

Important dates:

31 May 2017 - Deadline for early registration

20 June 2017 - Deadline for submission of full manuscripts

EUROCORR 2017 sponsors (as of April 2017) : Sandvik (Platin Sponsor); Cebelcor, CEZ Group, Leica Microsystems (Silver Sponsor).

Support: Praha.eu, and the University of Chemistry and Technology, Prague (UCT Prague).

Special thanks to: AVO and ČSPÚ.

Details about sponsorship opportunities are available at: <http://www.prague-corrosion-2017.com/sponsors/>

Exhibitors (as of April 2017): 3X ENGINEERING S.A.M, Cormet Testing Systems, Cortec® Corporation Europe, DeFelsko Corporation, DEHN + Söhne GmbH, Elsyca NV, Excor-Zerust s.r.o., HINNI-TRACHET S.A./ NV, IPS Elektroniklabor GmbH, Ivium Technologies B.V., Metal Samples, MONTI - Werkzeuge GmbH, NACE International, Nes Nová Dubnica s.r.o, Oerlikon Metco AG, PalmSens BV, Parr Instrument GmbH, STEFFEL KKS GmbH, STOPAQ B.V., Taylor & Francis, Thermo-Calc Software AG, VSMPO Titan Ukraine Ltd.

Companies and organizations are invited to present their products, services and the latest developments in the fields of corrosion science, electrochemical methods, surface analysis, spectroscopy and microscopy, corrosion monitoring, non-destructive testing and corrosion protection by means of coatings, advanced corrosion resistant materials, inhibitors, electrochemical ways of protection, and others.

For further information on the exhibition, please visit: <http://www.prague-corrosion-2017.com/sponsors/exhibition/>

Graduate Course on Corrosion Science (7.5 ECTU)

University of Chemistry and Technology, Technická 3, 166 28, Prague, Czech Republic, 1-3 September 2017

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

Lectures: The course includes lecture hours on three consecutive days prior to EUROCORR 2017. Most lecturers are members of KorrosionsCentrum™ (a collaborative venture between Swerea KIMAB and KTH) in Stockholm and are highly competent experts in their respective fields.

Course fees (including 21% VAT):

EUROCORR 2017 registered participants: 250 €

Others: 300 €

For detailed information (including course plan) and registration, please refer to the EUROCORR 2017 website at:

<http://www.prague-corrosion-2017.com/graduate-course/>

Tribocorrosion Course

University of Chemistry and Technology, Technická 3, 166 28, Prague, Czech Republic, 3 September 2017

This course is intended to give to the participants (graduates, researchers and industrial professionals) a solid basic background in tribocorrosion. It covers the basic concepts of tribology and tribocorrosion, the description of the experimental techniques and of the existing interpretative tools and examples illustrating how to apply the theoretical background into real practice. At the end of the course participants will have the tools to identify and to approach tribocorrosion problems. The course will be imparted by professionals from different backgrounds to cover the interdisciplinary aspects of tribocorrosion.

Course fees (including 21% VAT):

EUROCORR 2017 registered participants: 95 €

Others: 130 €

For detailed information (including course plan) and registration, please refer to the EUROCORR 2017 website at:

<http://www.prague-corrosion-2017.com/tribocorrosion-course/>

For further information and most up-to-date details concerning EUROCORR 2017, 20th International Corrosion Congress & Process Safety Congress, please visit the congress website at:

<http://www.prague-corrosion-2017.com>

NEWS FROM WORKING PARTIES AND TASK FORCES

New EFC-WP11-Task Group on Steel Corrosion in Alkali-Activated Materials established

Chairmen:

Gregor Gluth, BAM, Berlin Germany and Michael Raupach, ibac, Aachen, Germany

Topics:

- passivation in alkali-activated fly ashes, slags, metakaolin and mixes
- critical pH-values causing depassivation
- critical chloride content
- corrosion mechanisms and test methods for the estimation of corrosion rates

The first meeting was held at BAM in Berlin, Germany, with 17 participants from 9 countries.

It is planned to have two meetings per year and, after about three years, to prepare a state of the art report on the above-mentioned topics in the form of papers in Materials and Corrosion or as a green book.

WP 4 Nuclear Corrosion

A highlight of the successful Nuclear corrosion session at EUROCORR 2016 was the presentation of the Nuclear Corrosion Working party (WP4) Henry Coriou award. This award is made to recognise achievements by a scientist, an engineer, or group of scientists or engineers, in the application of corrosion science in the nuclear field. This inaugural award was presented to David Tice (Amec Foster Wheeler) by Damien Féron (outgoing Chair of WP4 after 13 years at the helm). David has had a long and distinguished career in the area of understanding and managing environmentally assisted cracking (EAC) of steels and nickel alloys in the high temperature, high pressure water environments that are used in water-cooled nuclear reactors.



This was followed by his award lecture entitled “Contribution of research to the understanding and mitigation of Environmentally Assisted Cracking (EAC) in structural components in light water reactors “ There were also two prizes given for outstanding oral presentations by a young corrosion scientist or engineer. The recipients were Juxing Bai (Paul Scherrer Institut, PSI) for his talk entitled ‘Using tapered specimen to study the effect of hydrogen on SCC initiation in Alloy 182 under BWR condition’, and Cristian Perez (Atomic Energy and Alternative Energies Commission, CEA, France) for his presentation entitled ‘Pitting corrosion modelling by means of a stochastic cellular automata based model’.

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: <http://www.efcweb.org/wp.html>

EUROCORR 2018

09-13 September 2018, Cracow, Poland

EFC Member Society PSK, the Polish Corrosion Society, will be your host for EUROCORR 2018 in the beautiful city of Cracow, one of the oldest cities and top tourist destinations in Poland. The Old City Wawel Hill and the district of Kazimierz have the prestigious status of Unesco World Heritage. The congress will take place at the ICE Kraków congress center, a modern first-class venue located in the centre of Cracow.

Contact:

Polish Corrosion Society
Elblaska 133A, 80-718 Gdansk, Poland
E-mail: seretarz@psk.org.pl
Website: <http://www.psk.org.pl>



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 n° 78
28292 El Escorial, Madrid, Spain
E-mail: sociemat1996@gmail.com
Website: <http://sociemat.es>

EUROCORR 2020

06-10 September 2020, Brussels, Belgium

EUROCORR 2020 is hosted by VOM asbl, the Belgian Association for Surface Treatment, in cooperation with VUB – SURF, UMONS and the Materia Nova Research Center.

Contact:

VOM asbl.
Kapeldreef 60
3001 Leuven, Belgium
Website: <http://www.vom.be>

FORTHCOMING EFC EVENTS AND COURSES

10-12. May 2017, Rawa Mazowiecka, Poland (EFC Event No. 425)

PSK Conference “State-of-the-art-anticorrosion technologies”

Scope of the programme: EU anticorrosion projects; new anticorrosion technologies and products for steel and concrete, anticorrosion inspector's work, corrosion in transport utilities; corrosion protection in infrastructure, and oil and gas industry, ecology in anticorrosion works

28-30 June 2017, Milan, Italy (EFC Event No. 422)

Giornate Nazionali sulla Corrosione e Protezione 2017

The most important national events in Italy on corrosion, co-organised by AIM , APCE, AITIVA, Centro Inox, Politecnico di Milano, and the NACE Milano Italia Section.

Website: <http://www.aimnet.it/qncorr2017.htm>

5-7 July 2017, University of Mons, Belgium (EFC Event No. 421)

SMT31 - 31st International Conference on Surface Modification Technologies

Topics of this conference are: Coatings synthesis and surface treatment: - Electro and electroless plating - Sol-gel coatings - Conversion coating, anodizing and electrolytic arc oxidation - Gas phase surface treatment - Thermal spraying, cold spraying and plasma-based surface modification - Surface modification of non-metallic materials.

Website: <http://www.umons.ac.be/smt31>

12-15 September 2017, Tara Mountain, Serbia (EFC Event No. 424)

19th YUCORR International conference

The exchange of the latest information and research data between scientists and engineers dealing with corrosion and protection of different materials, as well as with environmental protection and the alternative energy conversion.

Website: <http://sitzam.org.rs/YUCORR/>

23-27 October 2017, Milan, Italy

Cathodic Protection in Concrete

Intensive 5-day course that focuses on the principles and procedures for CP in concrete.

Registration form must be sent to: PoliLaPP – CMIC Dept.; e-mail to polilapp-dcmc@polimi.it

Registration deadline: **29 September 2017**

Website: <http://polilapp.chem.polimi.it/>

22-24 November 2017, Poraj, Poland (EFC Event No. 423)

19th All-Polish Corrosion Symposium (APCS) “New Achievements in Corrosion Research and Engineering”

Scope of the conference: Kinetics and mechanism of corrosion processes. Physico-chemical fracture of materials. Hydrogen in metals. High-temperature corrosion. Corrosion testing, monitoring and long term prediction. Surface treatment methods in corrosion research and technology. Corrosion protection by galvanic, polymer and inorganic coatings. Application technologies and related equipment. Applications and implementation to the industry. Standardization, education, certification and quality control. Economical aspects of corrosion

Website: <http://www.symp-kor-apcs.wip.pcz.pl>

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

EMCR 2018 - Electrochemical Methods in Corrosion Research

The triennial conference covers all aspects of electrochemistry as applied to corrosion.

Save the date!

9-13 September 2018, Krakow, Poland

EUROCORR 2018

Save the date! Website will open in summer 2017.

9-13 September 2019, Seville, Spain

EUROCORR 2019

Save the date!

06-10 September 2020, Brussels, Belgium

EUROCORR 2020

Save the date!

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>

EFC EVENT REPORT

XIV. INTERNATIONAL CORROSION SYMPOSIUM - KORSEM

Bayburt, Turkey , 5-7 October 2016 (EFC Event No. 411)

The International Corrosion Symposium is the most important and prestigious scientific activity in the field of corrosion in Turkey .The symposium which takes place every two years since 1988 is organised by the Corrosion Association of Turkey mostly under the auspices of the universities. The XIV. International Corrosion Symposium (KORSEM 2016) was held on 5-7 October 2016 in Bayburt, surrounded by the most beautiful and historical places in the north eastern Turkey. It is the general belief of the corrosion community in Turkey that this activity was very successful and forwarded the national and international goals, objectives and responsibilities of the scientists and engineers The University of Bayburt hosted and supported this event thoroughly to provide an efficient and fruitful environment for scientific discussions and achievements. In the symposium about 100 oral presentations and 20 research posters were delivered and discussed. Besides the attendance of 120 researchers from six different countries the undergraduate and postgraduate students, the Turkish Industry and state organizations participated in the event through their engineers and technicians who are responsible for identifying, measuring and preventing corrosion. The symposium also provided a valued opportunity to the corrosion community in Turkey to honour the late Professor Dr. Hayri Yalcin, who was an eminent scientist and played a leading role in pioneering the corrosion education and research in Turkey. In the first day of the symposium, a 20-minute presentation was given to commemorate Professor Yalcin with his scientific contributions to corrosion science and engineering. A significant number of papers discussed in the symposium concentrated on corrosion characteristics of composite materials.

A panel discussion has been organised to review the latest developments on implant materials including the achievements of Turkish universities in this field. Further topics evaluated and discussed in the symposium concentrated on the corrosion behaviour of metallic materials, corrosion control by applications of inhibitors, corrosion prevention through surface coatings, cathodic and anodic protection, and the losses caused by corrosion.

The symposium commenced with a welcome reception arranged by the University of Bayburt and continued with excursions to historical places including the Aydintepe Underground City, Çinagil Cave, Kop Martyrs' Memorial Baksı Art Museum and the sites in Erzurum famous for their historical artefacts

For more information about KORSEM 2016 and other activities of the Corrosion Association in Turkey please visit the website <http://www.korozyondernegi.org.tr>

Prof. Dr. Mehmet GAVGALI

Head of Organising Committee of KORSEM 2016

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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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