

Issue December 2020

<https://www.efcweb.org>

Dear Readers,

Life goes on even in these very difficult times and the EFC is certainly going on well under the circumstances. As Arjan's letter says below we have been making the very best of it that we can! As a participant in the virtual EUROCORR I would like to add my thanks to the organisers for a successful and cleverly put together event. In fact it will be reported in the next four issues of Corrosion Engineering Science and Technology. As I write this there is much talk of vaccine for Covid -19 becoming available and being mass distributed. If that happens it would enable the meetings in the middle to latter part of 2021 particularly EUROCORR 2021 to be held face to face, and I'm sure we would all like to meet in Budapest, a city I have been to two or three times and much enjoyed. But if that is not possible we know that the virtual event will be the next best thing.

Anyway back to this newsletter; there are lots of interesting articles in here. And even a Christmas card on the last page.

Enjoy your reading!

*Douglas Mills*

EFC Newsletter Editor

*Louise Atkin*

Assistant Editor

## IN THIS ISSUE:

- A few words from the EFC President
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## A FEW WORDS FROM THE EFC PRESIDENT

*To all the members of the European Federation of Corrosion*

Dear colleagues and friends,

I hope you are doing well and are in a good shape and health. Obviously it has been way too long since we have seen each other in real life at some conference, meeting or whatever. The virtual life is part of our inevitable bubble these days and we are still restricted in many aspects of our personal and work life.

Extraordinary times ask for extraordinary patience, persistence, understanding, flexibility and support towards one another. Having said that, I have seen so much strength, initiative and continuation of activities within our EFC corrosion community that it has made me deeply proud to be part of it and I continue to have

a very positive perspective on a bright future for all of us. Sure, sometimes it has needed, still needs and will remain to need, extra efforts and understanding. But EFC's reservoir of energy and courage has proven to be robust and lasting.

I am sure you will also enjoy this edition of the EFC Newsletter. Great reports of past activities and future initiatives are in. Above all, I wish to thank all of you



who have participated and contributed to a highly successful Virtual EUROCORR2020: our flagship event could not have worked so well without your great support as well as that of the organizers of the event.

Well, I am at the end of my Presidency of EFC and will continue as EFC Past President as from January 1, 2021 for the next few years. It has been a humbling experience, a privilege and pleasure to serve you in the last two years. I wish to thank you for your immense trust and support throughout these years. The list of people that I wish to thank would be way too long for these 'Few Words' section of the Newsletter, therefore I say 'MANY THANKS', in capital letters, to all of you and I am sure you understand and feel addressed.

It is also a great comfort to be able say that I am sure EFC is in capable and experienced hands with Dr Joerg Vogelsang and Dr Tomas Prosek as incoming EFC President and Vice-President respectively. I wish you both all success. I have no doubts that you will have so, and sincerely hope you will enjoy the plunge as much as I did.

To all, stay healthy and in good spirit: I cannot wait to see you in real life again soon: somewhere, sometime it will happen: looking forward to it!

*Arjan Mol, EFC President*

## GOODBYE

**Ruth Bingham** has now retired from her position as Assistant Editor of the EFC newsletter. The Editor and the production team would like to thank her very much for her steadfast efforts over the last few years.

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# VIRTUAL EUROCORR

The European Corrosion Congress



## REPORTING FROM VIRTUAL EUROCORR 2020

ONLINE, 7-10 SEPTEMBER 2020

We would like to congratulate and thank DECHEMA and all participants in Virtual EUROCORR 2020 for making the event such a great success! Only four months before its planned start the team of Willi Meier undertook to organise the event virtually in order to serve the community. Many thanks also to the colleagues from Belgium and all the Scientific Committee who greatly supported the transition to the virtual format.

At our inaugural virtual congress we had 605 visitors from all across the globe with 4 plenaries, 381 lectures, 70 posters and 10 exhibitors. Each of the 33 sessions was visited by up to 200 visitors.

Virtual EUROCORR 2020 was opened by the EFC President with a charming welcome and continued with the first plenary lecture by Professor Stuart Lyon, the laureate of the European Corrosion Medal 2020.

On the Tuesday morning, 8 September 2020, the plenary lecture was given by Prof. Maria Forsyth (Deakin University, Australia) on *“Environmentally friendly multifunctional corrosion inhibitor systems”*

Highlight of the third day of Virtual EUROCORR 2020 was the afternoon plenary lecture of Dr. Carol Frances Glover (University of Virginia, USA) on *“The many colours of metal-based primers: corrosion protection mechanisms and latest developments”*.

The scientific programme on Thursday, 10 September 2020 started with the plenary lecture Dr. Oumaïma Gharbi (Sorbonne Université, France) on *“The additive manufacturing of high strength Al alloys: a new challenge in corrosion science”*.

The plenary lectures on Wednesday and Thursday had been proposed by *Young EFC*.

All **recordings of the plenary lectures** are freely available on the Virtual EUROCORR 2020 YouTube channel at:

[https://www.youtube.com/channel/UCZj\\_ydPWZhutcFlw6a20qzg](https://www.youtube.com/channel/UCZj_ydPWZhutcFlw6a20qzg)

The organising team had been working extremely hard to provide the registered participants with the **recorded lectures**, as an additional benefit of Virtual EUROCORR 2020. **The recordings are available until end of December 2020 for all registered participants.**

Once again, thank you for your involvement in Virtual EUROCORR 2020 and we look forward to seeing you at EUROCORR 2021.

*Take care and stay safe!*

**THE ELECTRONIC VERSION OF THE EFC NEWSLETTER No 28 (SEPTEMBER 2020), WHICH IS TRADITIONALLY BEING DISTRIBUTED AT EUROCORR, IS AVAILABLE FOR DOWNLOAD: [CLICK HERE](#)**



## UPCOMING EUROCORR 2021

**BUDAPEST, HUNGARY – 19-23 SEPTEMBER 2021**

*Theme: Materials science and advanced technologies for better corrosion protection*

### INVITATION AND CALL FOR PAPERS

As the 2021 hosts of the renowned annual corrosion congress EUROCORR, HUNKOR, together with the European Federation of Corrosion, EFC, and DECHEMA, we cordially invite you to attend EUROCORR 2021.

The EUROCORR 2021 Congress has the motto "Materials science and advanced technologies for better corrosion protection". The scientific programme of EUROCORR will allow 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 of corrosion control. As always during EUROCORR, each day 12 to 14 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** in addition to the traditional EUROCORR topics:

- Corrosion in molten salts and ionic liquids for Energy Applications (WP3 & WP4)
- Microbial corrosion in Marine Environment (WP9 & WP10)
- Cathodic protection in Marine Environment (WP9 & WP16)
- Microbial corrosion – battling bugs in Oil & Gas production (WP10 & WP13)
- Corrosion in Concrete and Cathodic Protection (WP 11 & WP16)
- Polymers in Organic Coatings (WP14 & WP19)

- Corrosion and corrosion protection of additive manufactured metals (VUB, WP6, WP14 & WP22)
- Corrosion issues in electric vehicles and e-mobility systems (WP17 & WP23)
- Corrosion in green and low carbon technologies (WCO, WP10, WP13 & WP15)
- Corrosion of medical implants and devices (WP6, WP8, WP18 & WP23)
- Understanding into Accelerated Atmospheric Corrosion Tests (WP17, WP22 & WP25)

For the complete listing of the topics, see:

<https://eurocorr.org/EUROCORR+2021/Sessions>

**The call for papers is open!**

**Deadline for abstract submission: 19 January 2021**

Instructions for abstract submission and the online submission form are available on the congress website at: <https://eurocorr.org/2021>.



## Exhibition and sponsorship

EUROCORR 2021 provides a wide range of opportunities to promote your company among the representatives dealing with corrosion and protection of materials, coming from the institutional and industrial background from all around Europe and even from overseas. Several sponsorship packages as well as supplementary options are offered

For advertising, exhibiting and sponsorship opportunities see:

<https://eurocorr2021.org/sponsorship.php>

For general information concerning EUROCORR 2021, the venue and Budapest, please visit the local congress website at: <https://www.eurocorr2021.org>

***We are looking forward to your contribution and participation at EUROCORR 2021!***

## EUROCORR YOUNG SCIENTIST GRANT 2021 - CALL FOR APPLICATIONS

The Federation is pleased to announce the call for applications for its prestigious EUROCORR Young Scientist Grant which will be presented for the sixth time during EUROCORR 2021. 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.

Thanks to a donation of the Chinese Society for Corrosion and Protection (CSCP), the grant will be augmented to 4 grants of up to 1,500€ or 3 grants of up to 2,000€; further, the CSCP will grant direct support to one recipient out of the 3 or 4 awarded, if collaboration includes travelling between China and Europe.

The Deadline for submission of applications is **15 February 2021**.

Further information and the application form are available on the EFC website at <https://efcweb.org/YSG.html>

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## EUROCORR 2021 - INFORMATION FOR EXHIBITORS

### SPECIAL OFFER: EXHIBITION BOOTH & EFC AFFILIATE MEMBERSHIP

**Take the opportunity to discover the EFC Affiliate Membership benefits and enjoy all advantages related to international visibility!**

EUROCORR 2021 exhibitors are offered a package including the EFC Affiliate Membership and the Exhibition Booth at a discounted price:

- 25% on the booth (for a standard booth of 6m<sup>2</sup>: 2,320€ instead of 2,900€)
- 16% on the Affiliate Membership
  - for companies: 1,300€ instead of 1,550€
  - for research laboratories and universities: 865€ instead of 1030€

(All prices excl. VAT)

The offer is available until **28 February 2021**.

### Register now!

More information about the Affiliate Membership and the registration form are available on the EFC website at: [https://efcweb.org/Special\\_Offer](https://efcweb.org/Special_Offer)

To get more information about the EUROCORR 2021 exhibition, contact Nóra Éles-Etele (local organiser for EUROCORR 2021) at:

[elesetele@diamond-congress.com](mailto:elesetele@diamond-congress.com)

## THE LOYALTY PROGRAMME

The EFC has set up the Loyalty Programme, a reward system granting priority on choosing the location of the booth to its most committed exhibitors. The Loyalty Programme aims to achieve a fair rewarding system for all exhibitors, and is governed by the following priority rules:

- Exhibitors booking one year in advance at the preceding EUROCORR,
- Main EUROCORR sponsors,
- Affiliate Members,
- Long-time returning exhibitors, according to a score calculated on the basis of participation to past EUROCORRs.

The Loyalty Programme has been pre-tested for EUROCORR 2019. Now the benefits of the programme are available for exhibitors of EUROCORR 2021 too.

To enter the Loyalty Programme for EUROCORR 2021, exhibitors should register before **28 February 2021**.

### Register now!

To register for the EUROCORR 2021 Exhibition, contact Nóra Éles-Etele at:

[elesetele@diamond-congress.com](mailto:elesetele@diamond-congress.com) .

Further information:

<https://eurocorr2021.org/sponsorship.php>

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## NEW EFC PRESIDENT AND VICE-PRESIDENT APPOINTED

The start of 2021 will bring two changes to the leadership at the European Federation of Corrosion (EFC) with the appointment of **Dr. Jörg VOGELSANG** as the new EFC President, and **Dr. Tomáš PROŠEK**, as the new EFC Vice-President.

### **Jörg A Vogelsang**

obtained a Diploma in Chemistry in 1988 and he wrote his PhD thesis in the group of Prof. Dr. M. Hauser at the Institute of Physical Chemistry of the University of Stuttgart entitled "*Convolution kinetics treatment of various excimer formation*



*mechanisms with respect to nonstationary diffusion and molecular reaction parameters*" (1991). Since 1992 he has worked for Sika, firstly in Stuttgart, Germany and after 2002 in Zurich, Switzerland. In Stuttgart he was responsible for basic research in corrosion of reinforcements in concrete and corrosion protection by organic coatings.

As a founding member of the EFC Working Party Coatings he became its chairman in 1998. In parallel, he was very active in the German corrosion society GfKORR, where he was appointed as member of the Scientific Committee in 1999 and he founded also a coatings working party for GfKORR in 2000. From 2001 until 2007 he served as chairman of the Science and Technology Advisory Committee (STAC) of the EFC.

In 2001, he was appointed as member of the scientific board of the "Karl-Winnacker" research institute of the DECHEMA e.V. and he was elected to the board of administrators of GfKORR e.V. After his move to Zurich in 2002, he created a surface and material science lab; in 2008 he was placed in charge of all analytical activities in Zurich and, since then, has coordinated Sika's group activities in chemical analysis. In 2012, he was promoted as Corporate Head of Analytics & Testing. Since 2013, he has been an elected member of the EFC Board of Administrators (BoA) and in 2014 he commenced service as the vice president of GfKORR e.V.

He is also very active in standardization; he is member of several standardizing committees in Germany and in ISO, where he was Chair of TC35 SC9 for three terms.

His special interest is the standardization of Electrochemical Impedance Spectroscopy and electrochemical methods applied to organic coatings in general. He has published more than 50 papers.

**Tomáš Prošek** graduated at the University of Chemistry and Technology in Prague in 1996. From 2001 to 2015, he worked at Swedish Corrosion Institute in Stockholm, Sweden and at Institut de la Corrosion in Brest, France. He was responsible for construction, building and infrastructure activities with focus on atmospheric corrosion of galvanized and coil-coated steel materials.



Since January 2016, he has been leading the Department of Metallic Construction Materials in Technopark Kralupy of the University of Chemistry and Technology in Prague.

His research focuses on corrosion protection by metallic and organic coatings, atmospheric environmentally assisted cracking, hydrogen embrittlement, outdoor and accelerated corrosion testing and corrosion monitoring.

Besides teaching and research activities, Tomáš Prošek is the President of the Association of Czech and Slovak Corrosion Engineers (AKI), where he is developing training courses. From 2013 to 2019, he served as a member of Board of Administrators (BoA) of EFC.

He was awarded the Prize of the Polish Corrosion Society in 2018, Edward C. Greco Award of the International Corrosion Council for leadership in organization and conduct of the 20th International Corrosion Congress in 2017, EFC Kurt Schwabe Prize to young scientists in recognition of the scientific and technical contribution to the field of corrosion in 2006 and the Czech Business Council for Sustainable Development Award in 1996.

## NEWS FROM WORKING PARTIES AND TASK FORCES

### NEW EFC TASK FORCE “CORROSION IN GREEN & LOW CARBON ENERGY TECHNOLOGIES”

In recent years, green and low carbon energy technologies have emerged as a strategic priority to reduce the global carbon footprint, decrease CO<sub>2</sub> emissions and improve air quality. **EFC has established a Task Force to enable the exchange of information, develop guidelines and promote mitigation strategies for corrosion in the new energy sector.** This will involve collaboration and information exchange between academia and industry in order to assist in the development of solutions to reduce the impact of energy generation and usage on our environment.

For instance, the developments of hydrogen use as well as the geothermal energy are linked to the selection of appropriate materials under severe corrosion and scaling conditions. Near-shore and off-shore wind turbine structures face seawater corrosion, while the production of biofuels from vegetable waste also faces new corrosion challenges to be solved. In fuel cells, electrolysers and batteries, corrosion issues are mainly related to performance, lifetime and safety. For solar power, corrosion phenomena are also encountered both in photovoltaic and in thermal solar technologies. Even well-established technologies such as hydroelectric power require advances in the performance of new materials and more reliable lifetime

prediction. The potential impact of microorganisms is also an area to be explored.

Following the successful initial workshop on corrosion in green and low carbon technologies at the virtual EUROCORR 2020 conference, it is intended to hold a similar event during EUROCORR 2021 - September 19-23, 2021 in Budapest, Hungary. The EFC-WCO workshop will have some keynote lectures on corrosion in the new energy sector and provide the opportunity to learn and to exchange information on corrosion issues and mitigation strategies. Those interested in this vital transition to a green and low carbon future are asked to consider how they can contribute to this workshop and to submit their abstracts for the presentation or poster sessions via [www.eurocorr.org](http://www.eurocorr.org) before **January 19, 2021**.

Co-chairs of the EFC-WCO workshop organised also with the WP10, WP13 and WP15:

*Steve Paterson\* & Damien Féron\*\**

\*Chair of the EFC Taskforce for Corrosion in Green and Low Carbon Energy Technologies

\*\*WCO President

**Find out more about the Task Force on the EFC website at: <https://efcweb.org/TF>**

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### NEW EFC WORKING PARTY 25 “ATMOSPHERIC CORROSION”

WP25 Atmospheric Corrosion has been established as a Task Force (TF) by the Science and Technology Advisory Committee (STAC) of EFC on September 3, 2017. The mission and programme of the TF were discussed and approved in the first meeting on September 4, 2017.

Since 29th September 2020 the TF has been transformed into Working Party 25 after agreement of the General Assembly. The new Working Party is co-chaired by Tomáš Prošek and Johan Tidblad.

**Find out more about the Working Party on the EFC website at: <https://efcweb.org/WP25> !**





# YOUNG EFC

## UPCOMING ACTIVITIES AND NEW LOGO



### DO YOU KNOW THAT LESS THAN 30% OF SCIENTISTS ARE WOMEN?

Aiming at increasing the visibility of **women scientists**, the **Young EFC** would like to publish (*LinkedIn*) [pictures of female corrosionists in their workplace](#) (lab, office, home office, ...). Hereafter, we would like to invite **our female members** to share with us: [1 photo + affiliation + short description](#).

Please send it to [YoungEFC@efcweb.org](mailto:YoungEFC@efcweb.org) before **11 February 2021**.

Looking forward to seeing what women are researching in Corrosion!

In contribution to the #WomenAndGirlsScienceDay, <https://en.unesco.org/commemorations/womenandgirlinscienceday>

**Any ideas? Comments? Suggestions?**

Contact us by e-mail! [YoungEFC@efcweb.org](mailto:YoungEFC@efcweb.org)

### JOIN US FOR AN INTERACTIVE SESSION ON SCIENTIFIC WRITING!

We will discuss how to go about constructing and writing a research paper, share tips on how to choose the best journal for you and what the editors are looking for in an article.

**Arjan Mol, Editor-in-Chief of Corrosion Science**, will share his perspective on how to prepare your manuscript to be considered in a high-impact journal.

Come and share your thoughts and questions!

**Registration is open until 20 December 2020 at:** <https://forms.gle/XNutrnN27P3dPN8TA>

If you have problems with the registration link you can still register by sending an email to [YoungEFC@efcweb.org](mailto:YoungEFC@efcweb.org). Please indicate: Name, Surname, Affiliation, email, Country, level as a paper author (beginner, intermediate, advanced) and position.

Date: **20 January 2021 - 15:00** (CEST)

Duration: **90 min**

Online Format

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## NEWS FROM MEMBER SOCIETIES

### THE INSTITUTE OF MATERIALS, MINERALS & MINING (IOM3) LAUNCHES NEW VISUAL IDENTITY & WEBSITE



IOM3 is proud to launch its new logo, visual identity and website, devised to reinforce our Institute core values of being forward looking, dynamic, mindful, environmentally conscious, innovative and global.

IOM3 wanted a new visual identity that was strong, simple & striking, embodying the forward looking nature of IOM3 but also using different shapes to represent our history, the mergers of diverse bodies, and the eclectic mix of people and ideas, which have come together to form the Institute we know today. The various shapes make reference to the fact that our differences can become our strengths when we work together towards a common goal.

In a statement, IOM3 President Professor Serena Best CBE FEng CEng FIMMM said, 'I am delighted with the refreshment of the IOM3 visual identity - this modernisation of our image and has been developed with wide consultation across the membership. The new visual identity represents an important development for our whole membership and comes

alongside the successful delivery of the new IT platform which will enhance engagement with our global community.'

The launch of our visual identity and website is the culmination of a major digital transformation project within IOM3, delivered in record time. IOM3 has worked with partners BlueLight, Pixl8 and Hart Square to deliver a new website, portal and CRM over the course of 15 months. Our visual identity was developed by our talented In-house design team. The new digital systems provide a flexible and modern new platform that has brought together all our administrative systems in one and will allow IOM3 to deliver better and more customised services to its members. Over the coming months we will be building on this and providing additional content and functionality to members and customers alike.

Take a look around the new website at [www.iom3.org](http://www.iom3.org)

A copy of our brand guidelines can also be found at [bit.ly/IOM3-visual-identity-20](http://bit.ly/IOM3-visual-identity-20)

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### SERIES OF EFC-CSCP WEBINARS

As a follow-up to the successful 1st International Conference on Corrosion Protection and Application, ICCPA, 2019, Chongqing, China, which was organized jointly by the Chongqing Association for Science and Technology, the Chinese Society for Corrosion and Protection (CSCP) and the EFC, a **series of webinars** on selected corrosion subjects will be held over a three-month period.

The first webinar will take place on

**Friday, December 11, 2020, from 8 a.m.** Central European Time (CET).

The webinar will be opened by Professor Arjan Mol, president of the EFC, and Professor Wen-tao Li, executive vice-president of Chongqing Wujia Periodicals Press. From 8.10 till 9.10, Arjan Mol will introduce EFC activities and modus operandi to Chinese corrosionists. From 9.10 a.m., Jörg A. Vogelsang, vice-president of the EFC, will give a talk on *Testing of corrosion protective organic coatings in industry: expectations and limitations*.

To participate to the webinar, go to <https://voovmeeting.com/user-center/join> and enter the Conference ID (743 381 978) and password (101807).

# FUTURE EUROCRRS – THE EUROPEAN CORROSION CONGRESS

Each year EUROCRR attracts over one thousand corrosion experts from all over the world. The high level of scientific expertise of the participants has made EUROCRR a permanent fixture on the agenda of experts from universities and industry. For young colleagues the Young EFC provides a platform to exchange ideas with expert colleagues and to become part of a unique network.



## SAVE THESE DATES!

### EUROCRR 2022

28 August - 1 September 2022, Berlin, Germany

Motto: *Corrosion in a changing world - Energy, Mobility, Digitalisation*

EUROCRR 2022 is being organised by GfKORR (Society for Corrosion Protection) and DECHEMA (Society for Chemical Engineering and Biotechnology).

Berlin is multi-faceted. Berlin is diverse. Berlin sets trends. It is not without reason that the German capital city is one of the most visited cities in Europe. Berlin stands for freedom, tolerance and diversity of life-styles. Go on a journey through time and discover the scenes of world history in Berlin. You should therefore note the date and plan a trip to Berlin in autumn 2022.



### EUROCRR 2023

27- 31 August 2023, Brussels, Belgium

EFC's annual conference EUROCRR 2023 will take place in Brussels (Belgium). The organisers, VOM asbl in collaboration with University of Mons, Vrije Universiteit Brussel, Materia Nova and DECHEMA are pleased to invite you to participate in EUROCRR 2023.

**Place:** Brussels, SQUARE – Brussels Meeting Center  
**Information:**

- University of Mons, Prof. Marjorie Olivier, [marjorie.olivier@umons.ac.be](mailto:marjorie.olivier@umons.ac.be)
- VOM, Ir Veerle Fincken, [v.fincken@vom.be](mailto:v.fincken@vom.be)
- Vrije Universiteit Brussel, Prof. Herman Terryn, [herman.terryn@vub.be](mailto:herman.terryn@vub.be)
- Materia Nova, Dr Mireille Poelman, [mireille.poelman@materianova.be](mailto:mireille.poelman@materianova.be)

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**The International Standard ISO 12944 for Coating Inspectors is available now!**  
**IFO Institute and DIN CERTCO starts courses in Dubai!**

The international standard ISO 12944 is the "Know-How" for corrosion monitoring activity with paints and coatings. Inspectors in the world and everyone being responsible for corrosion management can learn more now about the corrosion phenomena in steel constructions and its monitoring and protection.

The IFO Institute starts **education courses in Dubai beginning from Autumn 2020.**

These courses are addressed to everyone being open-minded for building activities of steel constructions.

We recommend booking this course, especially that the participation in the course is a basis for the international certificate of DIN-Geprüft-Surface-Treatment-Inspector.

**Book the course today!**

Contact: [agatha.swierczynski@dincertco.de](mailto:agatha.swierczynski@dincertco.de)

Learn more at: [www.dincertco.de/12944\\_en](http://www.dincertco.de/12944_en) / [www.ifo-gmbh.de](http://www.ifo-gmbh.de)



Please check the respective event websites for postponements!

### EFC Event No. 465

Ustroń Jaszowiec, Poland

postponed to 2021 – date to be confirmed

#### **28th National Conference on Scientific and Technology "Anticorrosion. Systems - Materials - Coatings"**

Scope: 1. Modern materials, coatings and developments in corrosion prevention; 2. EU requirements for corrosion protection; 3. Corrosion protection for machines, equipment and installation; 4. Corrosion problems in the construction industry; 5. Evaluation of coatings and corrosion protection.

<http://gliwice.sitpchem.org.pl/28-antykorozja-2020/>

### EFC Event No. 460

Malaga, Spain

27-30 June 2021

#### **Symposium on Corrosion and Surface Protection Methods - CNMAT 2020**

Scope: During the last decades, surface engineering has evolved from the first stage of development of surface treatment and coating methods to improve the corrosion and wear properties to a new scenario in which surface functionalization for all types of applications is the main objective. Nowadays, new surface development providing optical, electrical, magnetic, biomedical functionalities and resistance to their work environment is an important demand in many industrial sectors.

Language: Spanish

<https://cnmat2020.com/>

### EFC Event No. 455

Antibes Juan-les-Pins, France

8-10 June 2021 (NEW DATE!)

#### **7èmes Journées Protection Cathodique et Revêtements Associés (7<sup>th</sup> Cathodic Protection and Associated Coatings meeting)**

Scope: This event on cathodic protection and associated coatings is devoted to end users as well as suppliers of equipment, designers, service companies, authorities, laboratories, universities and research

centres. Progress accomplished in terms of science and techniques, standardisation, and certification of personnel will be addressed for all application sectors (buried, marine or concrete structures, internal components of equipment). An exhibition will complete this event.

Organised by CEFRACOR

<https://www.cefracor.org>

### EFC Event No. 451

Cambridge, United Kingdom

5-9 September 2021 (NEW DATE!)

#### **Advances in Corrosion Protection by Organic Coatings – ACPOC**

Scope: Presentations on latest advances in corrosion protection by organic coatings, including topics on pre-treatments and inhibitors.

Online submission begins 1st April 2021.

**Online submission deadline: 18th July 2021**

<https://acpocconference.org/>

### EFC Event No. 466

Frankfurt am Main, Germany

4-8 April 2022 (NEW DATE!)

#### **ACHEMA 2022**

Scope: Future production: modular, connected and smart; Industrial intelligence and sensor-based process control; Plant design and maintenance; Pumps, compressors, valves and fittings: state of the art in fluid handling; Innovative mixing and separation solutions; Bioprocessing: bioreactors, process development and control; Pharma meets production; Renewing the chemical & pharma supply chain; Materials and material processing; Additive manufacturing; Innovative product design in mechanical process engineering; The digital lab: laboratory and analytical techniques; Raw materials; Water technologies; Future energy use in process industries; Product and process security; Safety First!

**Website:** <https://www.achema.de/en/>

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

### LEGAL NOTICE:

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