

APRIL 2022

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A FEW (LAST) WORDS FROM THE EFC EDITOR

This newsletter, normally produced in time for Corrosion Awareness Day on 24 April, is being published a few days early. This is to accommodate publicity for some of the Corrosion Awareness events (see inside for details) that are being organised by Young ICorr and others, which are mostly online. In fact, there will be an important webinar organised by the WCO tomorrow (22 April) at 11am CEST. [Click here](#) for more details. I hope you will support these initiatives.

There is also a great deal of information inside about EUROCORR 2022, which this year is being held in Berlin as a face-to-face event and we anticipate a really good conference. In addition, there is news from the Polish Corrosion Society and a good number of forthcoming events, many of which are face-to-face this year.

On a personal note this will be my last newsletter

as EFC Newsletter Editor. I am handing over the reins to Dan Mobbs.

He has a great deal of publishing experience and I'm sure the newsletter will be in good hands. I will still be involved with EFC as

Assistant Editor in the printed August edition, which it is hoped will be produced in time for EUROCORR. And, following the end of the conference in September I will then take more of a consultancy role (a back seat) after that.

It has been an interesting and highly enjoyable five year stint. Au revoir and I hope to see you in person at EUROCORR 2022! Douglas Mills



EUROCORR RETURNS IN PERSON FOR FIRST TIME SINCE THE PANDEMIC

After two years as an exclusively online event, EUROCORR is set to return as a face-to-face conference in Berlin from Sunday 28 August to Thursday 1 September.

The EUROCORR local conference organising committee is pleased to again invite you to the European Corrosion Congress 2022, which this year is organised by the German EFC member societies DECHEMA (Society for Chemical Engineering & Biotechnology) and GfKORR (Society for Corrosion Protection).

The flagship event of the European Federation of

Corrosion will take place in the heart of Berlin at the Berlin Central District Hotel and it is expected to attract over a thousand corrosion experts from all over the world.

The high level of scientific expertise of the participants has made EUROCORR the leading scientific conference on corrosion research and is a permanent item on the agenda of experts from universities and industry. And, for young colleagues the Young EFC provides a platform to exchange ideas with expert colleagues and to become part of a unique network. [Click here to read more.](#)

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Everything you need to know to help make the most of EUROCORR 2022

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Help spread awareness of corrosion in our society

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All the latest information from the EFC WP4 and PSK

[EFC EVENTS](#)

Make a date in your diary for the latest EFC events



A FEW WORDS FROM THE EFC PRESIDENT

After a two year absence as a face-to-face meeting, EUROCORR 2022 in Berlin will once again allow corrosion researchers to meet in person. I am looking forward to welcoming you all in the fascinating metropolis of Berlin.

The conference programme will soon be available on the EFC homepage. The conference will be accompanied by a summer school on the Role of Corrosion and Materials Science in the Transition to Net Zero Energy. Registration is recommended, as participation is limited to 25 people.

During the past few months, experts from Working Parties have prepared a White Paper on current challenges in corrosion protection in Europe and beyond. This is now available and will be used together with the World Corrosion Organization to inform decision makers about the evolving, and in some cases novel, needs of corrosion protection in Europe.

Since the last White Paper, new applications of novel materials and manufacturing techniques have been developed, each with its own corrosion protection requirements. This is reflected in the new White Paper.

On a final note, EFC has taken a clear position on the war in Ukraine, a statement with consequences can be found on the homepage. We all hope that this cruel war will come to a quick end, so that no further suffering will befall the people of Ukraine and all those suffering under the war.

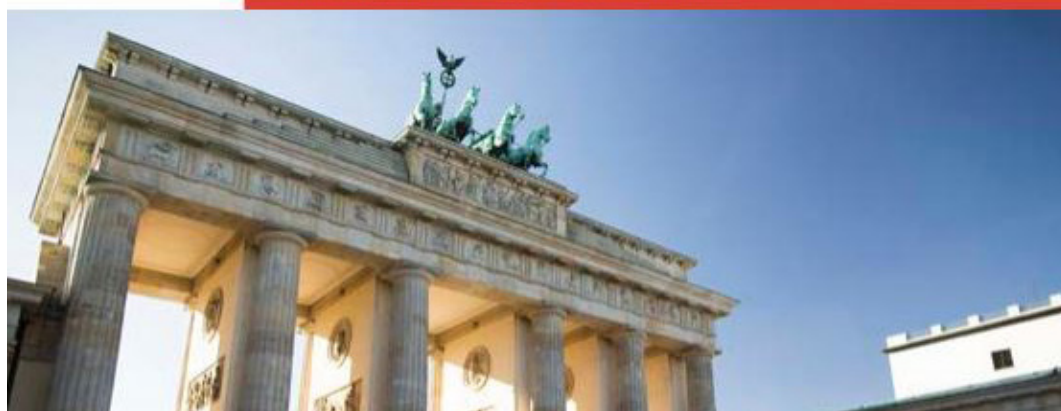
Jörg Vogelsang, EFC President

EURO
CORR
2022

28th August – 1st September 2022 · Berlin · Germany

EUROCORR 2022
European Corrosion Congress

**Corrosion in a Changing World –
Energy, Mobility, Digitalization**



ANTICIPATION GROWS AHEAD OF EUROCORR'S IN PERSON RETURN

THE SCIENTIFIC CORROSION CONFERENCE WILL FOCUS ON ENERGY, MOBILITY, AND DIGITALIZATION

The return of EUROCORR as an in person event in August will welcome the brightest minds in corrosion to a conference that this year will focus on the theme of Corrosion in a Changing World – Energy, Mobility Digitalization.

The four-day scientific programme at EUROCORR 2022 will provide high-level oral presentations that will be scheduled in 11 parallel sessions, with an attractive poster session based on 700 abstracts submitted for the event, so far. Submissions of late posters is possible until 30 April 2022.

EXHIBITION AND SPONSORSHIP

Sponsoring and exhibition forms an integral part of EUROCORR 2022 and offers companies and organisations a unique opportunity to promote

their technologies, products and services, as well as the chance to enhance their visibility and introduce new products or services.

EUROCORR 2022 provides a wide range of sponsorship and exhibition options that can be tailored to the specific requirements of your company and budget. Extensive pre-conference publicity will promote organisations to a wide global audience with a variety of EUROCORR 2022 sponsoring offers available to [download here](#).

REGISTER NOW

The deadline for early-bird registration is **31 May 2022**. To find out more and to apply, contact the local organisers at eurocorr@dechema.de, or visit eurocorr2022.org for updated information.

EUROCORR 2022 AT A GLANCE

- High-profile international keynote and plenary speakers
- Oral presentations supported by EFC Working Parties with specific workshops
- Industry exhibition and numerous networking opportunities
- Poster exhibition with plenty of opportunity for discussion

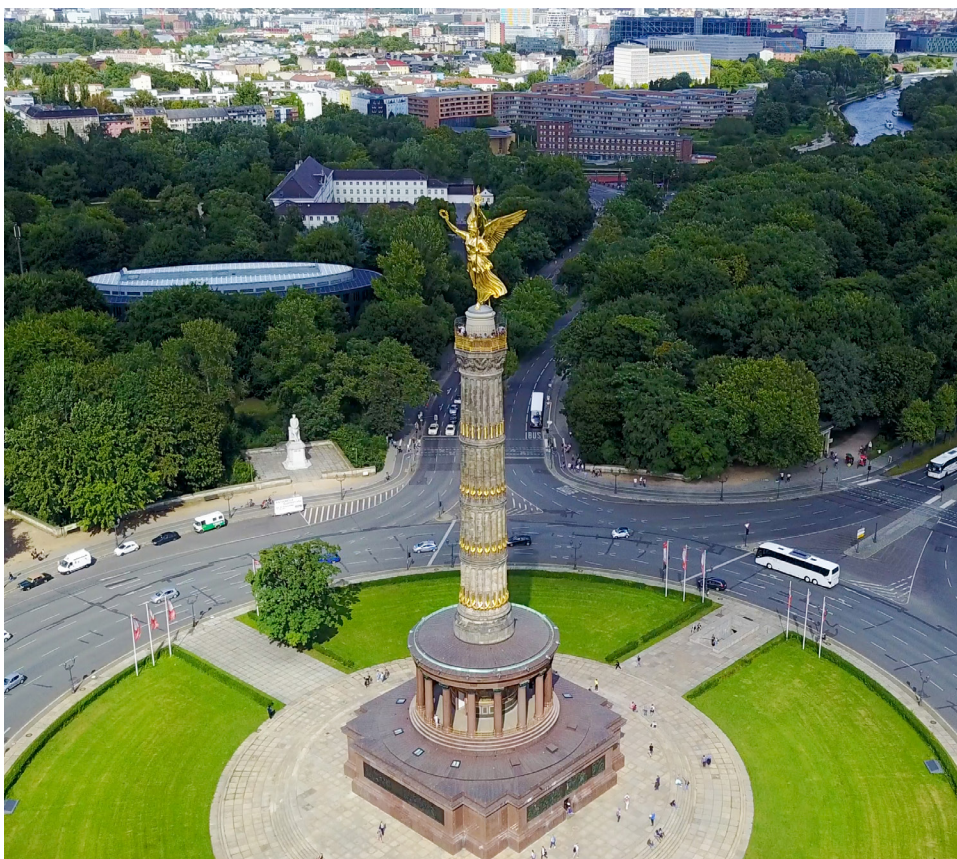
Across five days at the Berlin Central District Hotel, which is in walking distance of the central Tiergarten district (right), EUROCORR 2022 will allow guests to mix with the brightest and sharpest minds in the industry in a wide variety of meetings, keynote lectures, presentations, and joint sessions. For the complete listing of the topics and descriptions of the joint sessions and workshops, [click here](#). **A copy of the preliminary programme is available [here](#).**

JOINT SESSIONS

- Hydrogen Embrittlement in Atmospheric Exposure Conditions (WP5, WP17, WP22 & WP25)
- Atmospheric Corrosion of Cultural Heritage Artefacts and Monuments (WP21 & WP25)
- Polymers in Organic Coatings (WP14 & WP19)
- Cathodic Protection in Marine Environment (WP9 & WP16)
- Modelling Sustainable Active Protective Coatings (WP 6, 8, 14, 22, VIPCOAT EU project)
- Corrosion in Chemical Process Industries (GfKORR)
- Corrosion Issues of Electric Vehicles and E-Mobility Systems (WP17 & WP23)
- Corrosion of Medical Implants and Devices
- Corrosion in Green & Low Carbon Energy Technologies (TF)

CONFIRMED PLENARY SPEAKERS

- Science policy in a world of dramatic change
Prof. Martin Stratmann, Max-Planck-Institut für Eisenforschung GmbH, Germany
- European Corrosion Medal Lecture
Prof. Arjan Mol, Delft University of Technology, Netherlands



Wikimedia Commons/Kkna1sononline

EXHIBITORS AS OF 6 APRIL 2022

ENGINEERING (3X), AMPP, AUTOMA, Bio-Logic Science Instruments, C3 Prozess- und Analysetechnik & Gamry Instruments, ClampOn, Cormet, Cortec Corporation®, Duvine Ltd., EFC, ELANTAS Europe; Framatome, IPS Elektroniklabor GmbH & Co KG, PalmSens, Parr Instruments, Pietro Fiorentini SpA, ReCorrTech, Trenton Europe, VDM Metals International

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EFC SHARES INDUSTRY- LEADING IDEAS ON COMPLEX CORROSION PREVENTION IN LATEST WHITE PAPER

The European Federation of Corrosion (EFC) has revealed their white paper titled Corrosion Challenges Towards a Sustainable Society, which has enlisted some of the brightest minds from the industry to provide an overview of corrosive threats, from additive manufacturing corrosion to oil and gas production.

Focusing on the highly complex science of corrosion prevention, the paper highlights the importance of sharing between individuals and societies throughout the world to help further understand the science and deterrence of corrosion, and to bring the need for research and the consequences of corrosion into the public and political focus.

This meeting of minds and sharing of ideas in the white paper is vital to the industry, as the 2001 U.S. Federal Highway Administration cost of corrosion study, Corrosion Costs and Preventive Strategies in the United States, found the annual direct cost of corrosion to be a staggering \$276 billion - or 3.1% of the gross domestic product.

With this in mind, the EFC has gathered the thoughts of industry leaders from across the world, including Reynier I. Revilla and Iris De Graeve from the Research group of Electrochemical and Surface Engineering at Vrije Universiteit in Brussels discussing additive manufacturing corrosion, as well as Polina Volovitch, Steve Paterson, and Damien Feron explaining the merits and limitations of solar energy.

Materials and Corrosion Adviser, Steve Paterson also contributes to the discussion on geothermal energy, as well as on the WCO White Paper on renewables. Marc Wilms, Gareth Hinds, Paterson, and Damien Feron also contribute to the renewables overview that takes in wind and wave/tidal solutions.

Elizabeth Szala and J.O. Nilsson look into the impact of the reduction of GHG emissions in metal production and its consequences on corrosion performance; Szala and Theo Hack explore lightweight design in transportation to reduce CO₂ emissions; while Maros Halama investigates renewable energy and decarbonisation of industry corrosion in battery and hydrogen technologies.

This commitment to sharing ideas and solutions is reflected in EFC's partnerships with international associations of societies and organizations involved within corrosion management and control, including the Australasian Corrosion Association, the Chinese Society for Corrosion and Protection, and Association for Materials Protection and Performance.

This need for global collaboration has led to the establishment of the World Corrosion Organization (WCO), the leading entity for raising public awareness of corrosion, identifying best practices, providing expertise, and establishing global standards.

As a member, the EFC and WCO meet on a regular basis to work on important initiatives to minimize the effect of corrosion in every country.

EFC WELCOME THREE NEW COMPANIES TO THE BENEFITS OF AFFILIATE MEMBERSHIP

EFC has welcomed AkzoNobel, C-Cube International bv, and Ekinoks Kimya to its roster of affiliate members. The organisations are introduced below and will join existing affiliate members that include Cidetec, the National Institute for Nuclear Science and Technology, and Trenton Europe, among others.

AKZONOBEL

Headquartered in Amsterdam, AkzoNobel has activities in more than 150 countries, and employs over 32,000 people who supply sustainable and innovative paints the world over.

AkzoNobel's broad portfolio of brands includes Dulux, International, Sikkens and Interpon, and as the self-proclaimed most sustainable paint company they aim to become the global industry leader.

Committed to science-based targets, AkzoNobel is using its experience to address globally relevant challenges and protect future generations.

C-CUBE INTERNATIONAL

C-Cube International specialises in corrosion and wear and has developed patented technologies to measure and precisely predict corrosion. C-Cube

operates globally covering a wide range of industries such as infrastructure, shipping, insurance, research organisations, offshore applications, dredging, hydraulics and coating applications.

Based on their measurements the protective properties of coatings can be quantified, the lifetime of the coating can be predicted, and predictive maintenance is enabled. This method of maintaining assets prevents failure and downtime, which saves up to 40% of maintenance costs.

EKINOKS KIMYA

Ekinoks Kimya aim to become a part of the global market by improving their technology. In order to achieve this they are focusing on the need to integrate with their sectors and follow technological developments closely.

Ekinoks Kimya believe this integration will be achieved with the EFC, which serves all the sectors in which they operate in Europe and the Middle East. Ekinoks Kimya want to take an active role in working groups, work with different sectors, and contribute to topics such as coatings, automotive and corrosion within the EFC. [Click here](#) to find out more.



SPREADING VISIBILITY AHEAD OF CORROSION AWARENESS DAY

EFC is preparing to tackle corrosion head on this summer by showing its support for Corrosion Awareness Day through a series of activities, discussions, and presentations.

Corrosion Awareness Day on Sunday 24 April aims to spread knowledge of corrosion in our society and industries, and help increase the visibility of your research, group and expertise. And, EFC has already welcomed submissions from across the global industry, including contributions from Anees Khadom from the University of Diyala, Iraq on corrosion in

petrochemicals industries, and Marta Mohedano from Universidad Complutense de Madrid on the preparation and degradation of materials group at the UCM.

Jean Kittel from IFPEN will post artistic printing of corroded plates on his LinkedIn channel, while the EFC Working Party 4, headed by Stefan Ritter from the Paul Scherrer Institute, is looking at environmentally-assisted cracking of structural materials in light water reactors on 25 April ([click here](#) to find out more).

Beatriz Mingo from The University of Manchester will host a Corrosion Awareness Day photo competition, while Dr. Soheil Sabooni from PAO Techniek en Management, Netherlands will explore the impact of corrosion on the health and safety of the economy and industry through a webinar on 20 May.

Finally, on 24 April, Eventbrite, Canada, will celebrate Corrosion Awareness Day, listening to three very successful women that have

devoted their careers to corrosion. Join us in this panel session to have a chance to listen to their stories and participate by asking questions. [Click here](#) to read the full listing of activities.

WORLD CORROSION ORGANISATION

The WCO has announced it will host a webinar on 22 April at 11:00 am CEST in which the WCO President, Gareth Hinds, will report on the mission and goals concerning the WCO and how you can be part of it. "Our mission is to raise global awareness of the importance of corrosion control," he explained.

The President of the Institute of Corrosion Science and Technology, En-Hou Han will also give an interesting presentation on corrosion protection gas developed in China in relation to low carbon energies, while WCO General Director, Willi Meier, will provide the welcome.

We would like to invite you to participate in this event. No registration is necessary. You can [click here](#) to join the webinar.

SAVE THE DATE FOR THE EFC CORROSION SUMMER SCHOOL

Make a date in your diary for the EFC Corrosion Summer School, which will focus on The Role of Corrosion and Materials Science in the Transition to Net Zero Energy.

The event will be held from 25 to 27 August 2022 in Berlin ahead of EUROCORR 2022, allowing corrosionists to brush up any rusty knowledge before the highly anticipated conference begins on 28 August.

The EFC Corrosion Summer School is a great opportunity for graduate students and post-docs to further obtain specialised training and to network with like-minded colleagues.

Corrosion impacts all societal infrastructures, including transportation facilities, offshore and onshore energy grid, water systems, renewable fuel generation and storage, and maritime vessels and structures.

However, with increased global temperatures and resulting environmental changes, understanding and managing the role of materials degradation and material selection becomes an even more urgent topic for the next generation.

Only 25 seats are available, so [click here](#) to register and for more information.

EFC LEADS TRIBUTES TO DEDICATED AND KNOWLEDGEABLE CORROSION PROFESSOR

Cecilia Monticelli, Associate Professor of Corrosion and Protection of Metallic Materials at the Corrosion and Metallurgy Study Centre at the University of Ferrara, died on February 22, aged 64 after a painful illness. Despite her ill health, she continued to follow the research and teaching activities until the last few days, without ever failing her precious support to her research group.

Monticelli graduated with honours in Chemistry at the University of Ferrara in 1981 and joined the Corrosion Study Centre 'A. Daccò' as a researcher. She received several research grants (MTA, UMIST, Sulzer) to improve her professional experience and from 1 November 2001, she held the position of Associate Professor for the course of Materials Science and Technology at the Engineering Department of the University of Ferrara.

She trained generations of students and researchers, dedicating herself with passion to teaching for degree courses in materials engineering and mechanical engineering, where, in the last years, she also delivered the course on Corrosion and Protection of Metallic Materials.

For several years, she was an active member of AIM, the Italian Association for Metallurgy. In particular, she was part of AIM Corrosion Technical Committee and among the many events she contributed to, we would like to mention the Conference Giornate Nazionali di Corrosione e Protezione, which she organised and chaired in 2015 in Ferrara.

Monticelli accompanied a solid cultural preparation with a high propensity for research that was never superficial or repetitive, and she approached everything with a sharp and critical eye, which led to a high number of publications in international journals, as well as participation in important national and international conferences, book chapters, and national and international collaborations.

Throughout her career, Monticelli has dealt with various research topics; from the study of the corrosion behaviour of metal alloys in conditions relevant to their application, to the development of protective coatings for metal alloys of artistic (like bronzes and gilded bronzes) and industrial interest. She has also covered many other areas, including the study of corrosion behaviour of reinforcements in traditional and innovative



concretes, passing through the inhibition of corrosion by organic substances, the tribocorrosion of innovative ceramic materials, and finally the corrosion behaviour of biomedical and industrial alloys produced by selective laser melting.

The brilliant results of her research allowed her to obtain important funding for national and European research projects (B-IMPACT - Bronze-Improved non-dangerous Patina Coatings and PROCRAFT - Protection and Conservation of Heritage Aircraft). In this context, her skills as coordinator of complex researches that included research units or laboratories from different countries were greatly appreciated.

Monticelli really loved her work, which she always carried out with extraordinary competence, dedication and passion. It was with the same passion she followed her many other interests like reading, cooking, travelling, walking in the mountains and taking long bike rides with friends and family.

Her collaborators will always remember her for her extraordinary professionalism, intelligence and for the teachings she was able to transfer.

NEWS ROUND-UP FROM THE WORKING PARTY 4 ON NUCLEAR CORROSION



HENRI CORIOU AWARD 2022

This year the prestigious honorary Henri Coriou Award of the Working Party 4 was awarded for Outstanding Contribution to Corrosion Science and Engineering in the Nuclear Field to Dr. Pål Efsing, Ringhals AB, Sweden.

EUROPEAN-CHINESE CORROSION ONLINE SEMINAR

On Tuesday 15 March, the fifth edition of an online seminar on corrosion, set up by the Surface Science Editorial Department (Chongqing, China) together with the EFC took place.

As the topic focused on nuclear corrosion the WP 4 booked four renowned lecturers, who all offered interesting talks on topics ranging from nuclear waste corrosion issues to modelling and mitigation of stress corrosion cracking in light water reactors.

Those who contributed include, Cristiano Padovani (Jacobs, UK), Dirk Engelberg (University of Manchester, UK), Thierry Couvant (EdF, France) and Stefan Ritter (PSI, Switzerland). The seminar with Chinese translation was attended by approximately 60 people.

UPCOMING EVENTS

→ 25 April 2022: Third Online Seminar on Nuclear Corrosion

On Corrosion Awareness Day 2022, the EFC WP 4 will hold its third online seminar on nuclear corrosion at 16:00 – 17:30 (UTC+2). A potentially

very interesting lecture on environmentally-assisted cracking of structural materials in light water reactors will be given by Peter Andresen. [Click here](#) to register your free attendance.

→ 27-30 May 2022: Int. Conference on Corrosion Protection and Application (ICCPA 2022)

The WP 4 has co-organised an interesting session on 'Corrosion Protection of Nuclear Engineering and Nuclear Power Materials'. The conference will take place as a hybrid event from 27 to 30 May in Chengdu, China. Five lectures will be given by European experts: K. Lambrinou (SCK CEN, Belgium), M. Kouril (University of Chemistry and Technology of Prague, Czech Republic), V. Peres (ORANO, France), A. Weisenburger (KIT, Germany) and L. Martinelli (CEA, France).

→ 22-24 June 2022: Int. Workshop on Long-Term Prediction of Corrosion Damage in Nuclear Waste Systems (LTC 2022)

Don't forget to register for LTC 2022, which takes place from June 22 to 24 in Baden, Switzerland. This workshop (EFC Event No. 480) is co-organised by WP 4 with the Swiss National Cooperative for the Disposal of Radioactive Waste (Nagra). [Click here](#) to find out more.

→ 28 August-1 September 2022: Nuclear Corrosion Session during EUROCORR 2022

A potentially excellent nuclear corrosion session with more than 30 oral and poster presentations will take place in Berlin. Two full days (29 and 30 August) will be dedicated to WP 4 and an autumn business meeting is planned to take place on 31 August. [Click here](#) to find out more on the WP4 website.

THE POLISH CORROSION SOCIETY HOST STARE CONFERENCE

The annual Polish Corrosion Society conference in Stare Jablonki took place from 20 to 22 October, where 22 papers were delivered, including three plenary papers, six papers in the session Corrosion and Protection of Reinforced Concrete, eight papers in the Protective Coatings on Steel session, and five papers at the Inspector's Session.

After the session, a round table discussion took place, during which the participants focused on the possibilities of presenting the problem of corrosion

in the media, so that it appeared in the public awareness. Bringing up the corrosion problem in various publications, local and national press, social media and discussion forums remains a priority because the problems of corrosion and corrosion protection are still not well known in society.

Many interesting ideas were presented. One of the most important decisions was to make efforts to expose and ensure a place in the economy for the Polish corrosionist. It is worth presenting the issue of

corrosion to the youngest - valuable initiatives of our community also concerned proposals for activities addressed to primary school children.

The conference gave the opportunity to gain technical knowledge in practical applications of anti-corrosion technologies and to exchange experiences between investors, scientific staff, contractors, and manufacturers. Above all, it was a chance to meet in person after such a long absence.



UPCOMING EVENTS 2022

We've compiled a comprehensive list of all the latest EFC events and conferences in 2022 from across the globe, organised by EFC Working Parties, Task Forces and Member Organisations to ensure you don't miss a thing this year. See you there.

TRAINING SEMINAR: RELIABILITY TESTING AND PROTECTION

Online, 26-27 April 2022

EFC Event No. 485

Organised by the GfKORR - Gesellschaft für Korrosionsschutz e.V.

Scope: The surface and material characterisation in electronics is essential for the correct functioning of assemblies, coatings and protection measures. The seminar covers test methods which are helpful for process and material validation as well as spot check control of the reliability of the produced assemblies.

Language: English

[Click here](#) to find out more

25TH INTERNATIONAL CONFERENCE OF MATERIALS PROTECTION AND INDUSTRIAL FINISH "KORMAT 2022"

Hybrid event (Zagreb, Croatia and online), 26-27 April 2022

EFC Event No. 486

Organised by the Croatian Society for Materials Protection

Scope: Corrosion, corrosion resistance, material selection, stainless steels, protective coatings, corrosion in concrete, cathodic protection, structure integrity, testing, quality

management, case histories, corrosion awareness, education

Language: Croatian/English

[Click here](#) to find out more

2022 INTERNATIONAL CONFERENCE ON CORROSION PROTECTION AND APPLICATION (ICCPA2022)

Chengdu, PR China, 27-30 May 2022

EFC Event No. 477

Organised by Chongqing Hongzhixin Information Technology Co., Ltd.,
Affiliate Member of EFC

Conference language: English and Chinese (simultaneous translation available)



Rawpixel

Scope: 1. Corrosion protection in the oil and gas industry; 2. Corrosion protection in marine environments; 3. Corrosion protection in aerospace industry; 4. Corrosion protection in nuclear power generation; 5. Corrosion testing and monitoring

[Click here](#) to find out more

PSK CONFERENCE "PRACTICOR – STEEL AND CONCRETE"

Józefów near Warsaw, Poland, 1-3 June 2022

EFC Event No. 484

Organised by the Polish Corrosion Society

Scope: New anticorrosion technologies and products for steel and concrete, fire protection problems; anticorrosion inspector's work, Round Table discussion on executive problems in anti-corrosion, corrosion problems in the event of a bridge failure in Bydgoszcz.

Language: Polish and English

[Click here](#) to find out more

ZAGREB CORROSION SUMMER SCHOOL

Zagreb, Croatia, 13, 20, 27 June, 4 and 11 July 2022

EFC Event No. 487

Organised by the Croatian Society for Materials Protection (EFC member) together with Faculty of Chemical Engineering and Technology and Faculty of Mechanical Engineering and Naval Architecture at University of Zagreb

Scope: Corrosion summer school is intended for both PhD students and practitioners from industry who want to learn more about corrosion and corrosion protection. Lecturers will present theoretical background and practical experience on corrosion basics, corrosion monitoring, corrosion inhibitors, cathodic protection, organic coatings and stainless steel.

Language: English. [Click here](#) to find out more

7ÈMES JOURNÉES PROTECTION CATHODIQUE ET REVÊTEMENTS ASSOCIÉS

Antibes Juan-les-Pins, France, 14-16 June 2022 (NEW DATE!)

EFC Event No. 455

Organised by CEFRACOR

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.

An exhibition will complete this event.

Language: French (English possible for presentations)

[Click here](#) to find out more

8TH INTERNATIONAL WORKSHOP ON LONG-TERM PREDICTION OF CORROSION DAMAGE IN NUCLEAR WASTE SYSTEMS (LTC 2022)

Baden, Switzerland, 22-24 June 2022

EFC Event No. 480

Co-organised by EFC WP4 on Nuclear Corrosion together with the Swiss National Cooperative for the Disposal of Radioactive Waste (Nagra).

Scope: Overview on national disposal programmes with emphasis on similarities, common challenges and different approaches, regulatory issues, retrievability, etc. Development of and long term performance assessment of high-level waste disposal containers. Experimentation with candidate materials, including laboratory tests, full-scale demonstration, in-situ testing, methodology. Modelling, monitoring and design.

[Click here](#) to find out more

ACHEMA 2022

Frankfurt am Main, Germany, 22-26 August 2022 (NEW DATE!)

EFC Event No. 466

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! [Click here](#) to find out more

EUROCORR 2022

28 August-1 September 2022, Berlin, Germany

EFC Event No. 466

For details see page 3.

[Click here](#) to find out more

SAVE THE DATE

EUROCORR 2023

27- 31 August 2023, Brussels, Belgium

EFC Event

Brussels will become the capital of Corrosion in 2023, with the EFC's annual congress EUROCORR, Europe's most renowned corrosion event.

Venue: SQUARE – BRUSSELS MEETING CENTRE

[Click here](#) to find out more

For complete listings of all future corrosion events in Europe and throughout the world, go to the EFC Calendar of Events, or [click here](#).



P. BARBA

LEGAL NOTICE

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