

第一届国际腐蚀防护与应用大会 EFC China 2019

第一轮通知

中国·重庆 2019.10.9-12

会议主题：技术共享、协同发展、共建美好家园

金属的腐蚀无所不在，危害遍及几乎所有的行业，如石油、电力、钢铁、海洋等。其对国民经济的破坏非常严重，据统计，全世界每年因金属腐蚀造成的直接经济损失约为 7000 亿-10000 亿美元。腐蚀是全人类共同面对的问题，而至少 30% 的腐蚀是可以通过科普、研究与技术应用来控制的。为了减少腐蚀带来的损失，国内外相关科研工作者不断努力创新，获得了大量优异的工作成果。

欧洲腐蚀联盟、重庆市科学技术协会和中国腐蚀与防护学会定于 2019.10.9-12 在中国重庆召开“第一届国际腐蚀防护与应用大会 EFC China 2019”，旨在加强国际间的技术交流、信息共享，寻求合作机会，共同应对腐蚀问题的挑战。

本次会议将邀请中国工程院、中国科学院、欧洲科学院院士和国内外知名专家、学者做专题报告，并邀请国内外学者及行业翘楚汇聚一堂，就腐蚀防护及应用领域的最新研究成果和业界动态进行广泛、深入地交流和探讨。欢迎国内外广大相关工作者踊跃参会投稿，届时莅临大会一展风采。

大会组织机构

1. 主办单位：

欧洲腐蚀联盟（EFC）
重庆市科学技术协会
中国腐蚀与防护学会

2. 联合承办单位：

西南技术工程研究所
国家镁合金材料工程技术研究中心
先进金属材料涂镀国家工程实验室
腐蚀与防护教育部重点实验室
国防科技工业自然环境试验研究中心
重庆五九期刊社

3. 支持媒体：

Journal of Magnesium and Alloys (SCI)
Journal of Materials Science & Technology (SCI)
Heat Treatment and Surface Engineering (EI)
《表面技术》(EI)
《装备环境工程》

4. 大会顾问（以姓氏拼音为序）：

陈学东 中国工程院院士、**程玉峰** 欧洲科学院院士、**丁文江** 中国工程院院士、

侯保荣 中国工程院院士、**柯伟** 中国工程院院士、**李鹤林** 中国工程院院士、**潘复生** 中国工程院院士、**毛新平** 中国工程院院士、**孙世刚** 中国科学院院士、**王浚** 中国工程院院士、**谢建新** 中国工程院院士、**徐滨士** 中国工程院院士、**薛群基** 中国工程院院士、**张福泽** 中国工程院院士、**张统一** 中国科学院院士、**赵振业** 中国工程院院士、**周克崧** 中国工程院院士

5. 大会主席：

Arjan MOL Professor, Delft University of Technology, President of EFC

潘复生 中国工程院院士，重庆市科学技术协会主席

6. 大会执行主席：

吴护林 西南技术工程研究所所长，中国南方工业集团有限公司首席科技专家，国防科技工业自然环境试验研究中心主任、研究员级高级工程师

7. 大会副主席：

李晓刚 北京科技大学教授，中国腐蚀与防护学会副理事长，教育部腐蚀与防护重点实验室主任

张伦武 西南技术工程研究所副所长，中国南方工业集团有限公司首席科技专家，国防科技工业自然环境试验研究中心副主任、研究员级高级工程师

8. 学术委员会（以姓氏字母为序）：

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Xiaobo Chen Senior Research Fellow, RMIT University

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J érome Crouzillac Engineer, BAC Corrosion Control

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Damien Fer ón Vice-President of World Corrosion Organisation

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周堃 西南技术工程研究所研究员

周勇 西安石油大学教授

大会专题论坛

论坛一：油气管道腐蚀控制、失效分析与防护技术

名誉主席：陈学东院士

召集人：Ph.D. Jérôme Cruzillac, BAC Corrosion Control
王新华教授 北京工业大学

Ph.D. Marc Wilms, Shell Projects & Technology

主要议题：

- 1) 管道内外腐蚀与控制
- 2) 杂散电流腐蚀与防护
- 3) 力化学腐蚀与防护（应力腐蚀/腐蚀疲劳/氢脆）
- 4) 多相流腐蚀与防护
- 5) 微生物腐蚀
- 6) H₂S/CO₂ 腐蚀
- 7) 海洋管道腐蚀控制

论坛二：绿色电力的防腐蚀技术

名誉主席：孙世刚院士

召集人：Professor Damien Ferón, Vice-President of World Corrosion Organisation
张大全教授 上海电力大学

主要议题：

- 1) 电力设备腐蚀与防护
- 2) 电厂水化学与腐蚀控制
- 3) 绿色能源防护技术
- 4) 核电站腐蚀与防护
- 5) 电网腐蚀控制技术

论坛三：热喷涂技术在腐蚀防护中的研究及应用

名誉主席：周克崧院士

召集人：Professor Wolfram Fürbeth, DECHEMA-Forschungsinstitut
李华研究员 中国科学院宁波材料技术与工程研究所

李文戈教授 上海海事大学

Professor Philippe Refait, University of La Rochelle

主要议题：

- 1) 腐蚀防护涂层材料
- 2) 腐蚀防护涂层工程应用实践
- 3) 新型腐蚀防护热喷涂技术
- 4) 海洋防护涂层技术
- 5) 大气污染区防护涂层技术
- 6) 抗高温氧化热喷涂技术

论坛四：大气腐蚀与防护

名誉主席：李晓刚教授 北京科技大学

召集人： Professor Johan TIDBLAD, RISE Kimab, Sweden

王振尧研究员 中国科学院金属研究所

王敬丰教授 重庆大学

周堃研究员 西南技术工程研究所

支持单位：国家镁合金材料工程技术研究中心

腐蚀与防护教育部重点实验室

国防科技工业自然环境试验研究中心

主要议题：

- 1) 腐蚀行为与腐蚀机理
- 2) 室内、外试验评价与相关性
- 3) 环境因子的影响与作用
- 4) 表面涂镀防护技术
- 5) 缓蚀剂与转化膜防护技术

论坛五：先进钢铁材料腐蚀与防护

名誉主席：毛新平院士

召集人：顾宝珊教授 中国钢研科技集团有限公司

Professor Tomáš Prosek, University of Chemistry and Technology Prague

支持单位：先进金属材料涂镀国家工程实验室

主要议题：

- 1) 耐蚀钢铁材料设计与耐蚀机理
- 2) 先进钢铁材料表面处理技术（绿色制造、环境保护与回收）
- 3) 防腐涂料与涂装（如纳米涂料、石墨烯涂料、智能涂料等）
- 4) 缓蚀剂与转化膜
- 5) 新型金属镀层与涂装技术（如连续 PVD、ZnAlMg 镀层等）

大会工作语言

英语

大会征文

与腐蚀、防护及应用相关的研究成果、学术观点、工程应用等均以论文和摘要形式投稿，会议前印刷会议论文集，未发表的优秀论文会推荐至支持媒体，通过正常评审程序后发表（作者负责版面费）。

论文要求：具有创新性、科学性、实用性；数据、结论可信；摘要不少于 500 词；论文不涉及国家秘密。

投稿方式：

- 1) 文件保存为 Word 文档，以作者名+单位+分论坛序号命名，如需申请做口头报告，请备

注。

2) 邮箱投稿: wjqkbm@163.com

3) 网站投稿: 详见第二轮会议通知

投稿时间:

摘要投稿截止时间: 2019.6.30

全文投稿截止时间: 2019.8.31

欢迎广大腐蚀、防护与应用相关的科研工作者投稿。

大会重要日期

会议第一轮通知: 2019.1.31

会议第二轮通知: 2019.3.31

会议第三轮通知: 2019.6.30

会议第四轮通知: 2019.8.31

摘要投稿截止时间: 2019.6.30

全文投稿截止时间: 2019.8.31

会议召开: 2019.10.9-12

大会联系方式

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EFC-China 2019

1st International Conference on Corrosion Protection and Application (ICCPA)

Oct. 9-12, 2019

Chongqing, China

**Conference Theme: Technology sharing, coordinated development, jointly
building a beautiful home**

Corrosion of metals is ubiquitous and harmful for almost all industries, such as oil, electricity, steel, ocean and so on. Its damage to the national economy is very serious, according to statistics, the direct economic loss caused by metal corrosion annually is about 700 billion~1 trillion dollars. Baorong Hou, an academicians of Chinese Academy of Engineering, and his team estimate that China's corrosion losses in 2014 were as high as 2 trillion yuan, which was about 3% of the country's GDP. Corrosion is a common problem facing all mankind, and at least 30% of corrosion can be controlled through popularization of science, research and technology application. In order to reduce the loss caused by corrosion, related researchers at home and abroad have made continuous efforts to innovate and obtained a large number of excellent work results.

European Federation of Corrosion (EFC), Chongqing Association for Science and Technology and Chinese Society for Corrosion and Protection will hold "1st International Conference on Corrosion Protection and Application (ICCPA), EFC China 2019" in Chongqing, China on Oct. 9-12, 2019, which aims at strengthening international technical exchanges and information sharing, seeking cooperation opportunities, and jointly addressing the challenges of corrosion problems.

The conference will invite academicians of Chinese Academy of Engineering, Chinese Academy of Sciences, EU Academy of Sciences and well-known experts and scholars at home and abroad to make special reports, and also invite Chinese and foreign scholars and industry leaders to gather together, and conduct extensive and in-depth exchange and discussion on the latest research results and industry trends in the field of corrosion protection and application. Welcome the domestic and foreign related workers contribute papers enthusiastically, at then participate in the conference to exhibit the elegant demeanour.

■ Organizations

Hosted by organizers: European Federation of Corrosion (EFC)
Chongqing Association for Science and Technology
Chinese Society for Corrosion and Protection

Organizers: Southwest Technology and Engineering Research Institute
National Engineering Research Center for Magnesium Alloys
National Engineering Lab of Advanced Coating Technology for Metals
Key Laboratory for Corrosion and Protection, Ministry of Education
Natural Environmental Test and Research Center of Science
Chongqing Wujiu Periodicals Press

Media Support: Journal of Magnesium and Alloys (SCI), Journal of Materials Science & Technology (SCI), Heat Treatment and Surface Engineering (EI), Surface Technology (EI), Equipment Environmental Engineering

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J érome Crouzillac, Engineer, BAC Corrosion Control

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Damien Ferón, Vice-President of World Corrosion Organisation

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Zhigang Fang, Researcher, Naval Research Academy

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Taijiang Gui, Professor-Level Senior Engineer, Chief Engineer of Marine Chemical Research Institute Co., Ltd.

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Wei Li, Professor, Dean of Institute of Advanced Wear & Corrosion Resistant and Functional Materials, Jinan University

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Wenge Li, Professor, Shanghai Maritime University

Xingeng Li, Professor-Level Senior Engineer, Chief Expert of State Grid Shandong Electric Power Research Institute

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Hongfang Liu, Professor, Vice Dean of School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology

Jing Liu, Professor, Vice President of Wuhan University of Science and Technology

Min Liu, Professor, Vice Dean of Guangdong Academy of Sciences, Director of National Engineering Laboratory for Modern Materials Surface Engineering Technology

Changjian Lin, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Xiamen University

Yuanhua Lin, Professor, Southwest Petroleum University
Feng Lu, Researcher, Vice Chief Engineer of AECC Beijing Institute of Aeronautical Materials
Zhanpeng Lyu, Researcher, Shanghai University
Bernard Normand, Professor, INSA Lyon
Xiao Peng, Professor, Nanchang Hangkong University
Tomáš Prosek, Professor, University of Chemistry and Technology Prague
Lijie Qiao, Winner of the National Science Fund for Distinguished Young Scholars of China, Distinguished Professor of Chang Jiang Scholars Program, Professor, University of Science & Technology Beijing
Philippe Refait, Professor, University of La Rochelle
Guangling Song, Professor, Xiamen University
Mingxian Sun, Researcher, Luoyang Ship Material Research Institute
Yong Sun, Reader, De Montfort University, Leicester, UK
Zhihua Sun, Professor, AECC Beijing Institute of Aeronautical Materials
Dihua Wang, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Vice Dean of School of Resource and Environmental Sciences, Wuhan University
Fuhui Wang, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Northeastern University, President of Chinese Society for Corrosion and Protection
Jingfeng Wang, Professor, Vice Dean of College of Materials Science and Engineering, Chongqing University
Liping Wang, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Ningbo Institute of Industrial Technology, CAS
Xinhua Wang, Professor, Beijing University of Technology
Zhenyao Wang, Researcher, Institute of Metal Research, Chinese Academy of Sciences
Marc Wilms, Engineer, Shell Projects & Technology
Hulin Wu, Professor, Manager of Southwest Technology and Engineering Research Institute, Chief Expert of China South Industries Group Co., Ltd., Director of Natural Environmental Test and Research Center of Science
Jianhua Wu, Professor, JiMei University
Ping Xiao, Professor, University of Manchester
Jianwei Yang, Senior Engineer, Deputy Director of Application Technology Department, R&D of Shougang Group Co., Ltd.
Jin Yang, Professor, Vice Dean of School of Safety and Marine Engineering, China University of Petroleum
Rongchang Zeng, Professor, Shandong University of Science and Technology
Yu Zuo, Professor, Beijing University of Chemical Technology
Daquan Zhang, Professor, Shanghai University of Electric Power
Dun Zhang, Researcher, Institute of Oceanology, Chinese Academy of Sciences
Jianqiang Zhang, Associate Professor, University of New South Wales
Jin Zhang, Professor, University of Science & Technology Beijing
Lunwu Zhang, Professor, Vice-Manager of Southwest Technology and Engineering Research Institute, Chief Expert of China South Industries Group Co., Ltd., Vice Director of Natural Environmental Test and Research Center of Science
Qifu Zhang, Professor, General Manager of New Metallurgy Hi-tech Group Co., Ltd., China Iron

and Steel Research Institute Group, Director of National Engineering Lab of Advanced Coating Technology for Metal Material

Sam Zhang, Professor, Director of Center for Advanced Thin Films and Devices, Southwest University, President of Thin Films Society

Zhonghua Zhang, Professor, Director of Steel Pipe Technology Center, Baosteel Central Research Institute

Kun Zhou, Researcher, Southwest Technology and Engineering Research Institute

Yong Zhou, Professor, Xi'an Shiyou University

■ **Special Topic Forum**

Forum 1: Corrosion Control, Failure Analysis and Protection Technology for Oil and Gas Pipelines

Honorary President: Academician Xuedong Chen

Convenors: Ph.D. Jérôme Cruzillac, BAC Corrosion Control

Professor Xinhua Wang, Beijing University of Technology

Ph.D. Marc Wilms, Shell Projects & Technology

Main topics:

- 1) Internal and external corrosion control of pipelines
- 2) Stray current corrosion and protection
- 3) Mechanochemical corrosion and protection (stress corrosion/corrosion fatigue/hydrogen embrittlement)
- 4) Multiphase flow corrosion and protection
- 5) Microbial corrosion
- 6) H₂S/CO₂ corrosion
- 7) Marine pipeline corrosion control

Forum 2: Anti-corrosion Technology of Green Power

Honorary President: Academician Shigang Sun

Convenors: Professor Damien Ferón, Vice-President of World Corrosion Organisation

Professor Daquan Zhang, Shanghai University of Electric Power

Main topics:

- 1) Corrosion and protection of power equipment
- 2) Hydrochemistry and corrosion control of power plant
- 3) Green energy protection technology
- 4) Corrosion and protection of nuclear power plants
- 5) Grid corrosion control technology

Forum 3: Research and Application of Thermal Spraying Technology in Corrosion Protection

Honorary Presidents: Academician Kesong Zhou

Convenors: Professor Wolfram Fürbeth, DECHEMA-Forschungsinstitut

Professor Hua Li, Ningbo Institute of Materials Technology & Engineering, CAS

Professor Wenge Li, Shanghai Maritime University

Professor Philippe Refait, University of La Rochelle

Main topics:

- 1) Corrosion protection coating materials
- 2) Corrosion protection coating engineering application practice

- 3) New corrosion protection thermal spraying technology
- 4) Marine protective coating technology
- 5) Protective coating technology for air pollution areas
- 6) High temperature oxidation resistance thermal spraying technology.

Forum 4: Atmospheric Corrosion and Protection

Honorary President: Professor Xiaogang Li, University of Science and Technology Beijing

Convenors: Professor Johan Tidblad, RISE Kimab, Sweden

Researcher Zhenyao Wang, Institute of Metal Research, Chinese Academy of Sciences

Professor Jingfeng Wang, Chongqing University

Researcher Kun Zhou, Southwest Technology and Engineering Research Institute

Support units: National Engineering Research Center for Magnesium Alloys

Key Laboratory for Corrosion and Protection, Ministry of Education

Natural Environmental Test and Research Center of Science

Main topics:

- 1) Corrosion behavior and corrosion mechanism
- 2) Indoor and outdoor test evaluation and correlation
- 3) Influence and role of environmental factors
- 4) Surface coating and plating protection technology
- 5) Corrosion inhibitor and conversion film protection technology

Forum 5: Corrosion and Protection of Advanced Steel Materials

Honorary President: Academician Xinping Mao

Convenors: Professor Baoshan Gu, China Iron and Steel Research Institute Group

Professor Tomáš Prosek, University of Chemistry and Technology Prague

Support unit: National Engineering Laboratory for Advanced Coatings Technology of Metal Materials

Main topics:

- 1) Corrosion resistant steel material design and corrosion resistant mechanism
- 2) Advanced surface treatment technology for advanced steel materials (green manufacturing, environmental protection and recycling)
- 3) Anticorrosive paint and coating (such as nano coating, graphene coating, intelligent coating, etc.)
- 4) Corrosion inhibitor and conversion film
- 5) New metal coating and coating technology (such as continuous PVD, ZnAlMg coating, etc.)

■ **Conference Language**

English

■ **Call for Papers**

Research achievements, academic views and engineering applications related to corrosion, protection and application can be submitted in the form of papers or abstract. The conference proceedings will be printed before the conference, outstanding unpublished papers will be recommended to the supporting media and published after passing the normal review process (the author is responsible for the page charges).

Requirements: innovative, scientific, practical, credible data and conclusions; the abstract should not be less than 500 words; paper does not cover state secrets.

Submission of Papers:

1. Electronic files of MS Word is acceptable, name as "author + unit + forum number". Please note if oral presentation is required.
2. Submit by e-mail: wjqkbm@163.com
3. Submit online: see round-2 conference notice for details

Submission time:

Deadline of abstract: Jun.30, 2019

Deadline of article: Aug.31, 2019

Welcome science researcher related to corrosion, protection and application to submit articles!

■ Important Dates

Deadline of 1st notice: Jan.31, 2019

Deadline of 2nd notice: Mar.31, 2019

Deadline of 3rd notice: Jun.30, 2019

Deadline of 4th notice: Aug.31, 2019

Deadline of abstract: Jun.30, 2019

Deadline of article: Aug.31, 2019

■ Contact us

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