

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
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

3. 支持媒体：

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):

安茂忠 哈尔滨工业大学教授

陈长风 中国石油大学(北京)教授

Xiaobo Chen Senior Research Fellow, RMIT University

陈跃良 海军航空大学青岛校区教授

陈卓元 中国科学院海洋研究所研究员

储成林 东南大学材料科学与工程学院副院长、教授

J rome Crouzillac Engineer, BAC Corrosion Control

董闯 国家杰出青年科学基金获得者，大连理工大学教授

杜翠薇 北京科技大学教授，中国腐蚀与防护学会秘书长

Lorenzo Fedrizzi Professor, University of Udine

Damien Fern ndez Vice-President of World Corrosion Organisation

Wolfram F rber Professor, DECHEMA-Forschungsinstitut

方志刚 海军研究院研究员

高岩 华南理工大学教授

桂泰江 海洋化工研究院有限公司总工程师、教授级高级工程师

顾宝珊 中国钢研科技集团有限公司先进金属材料涂镀国家工程实验室副主任、教授

郭洪波 国家杰出青年科学基金获得者，“长江学者奖励计划”特聘教授，北京航空航天大学材料科学与工程学院副院长、教授

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胡松青 中国石油大学(华东)教授

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Hanlin Liao Professor, University of Technology of Belfort-Montb liard

Christofer Leygraf Professor, KTH Stockholm

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李华 中国科学院宁波材料技术与工程研究所研究员

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李文戈 上海海事大学教授

李辛庚 国网山东省电力公司电力科学研究院首席专家、教授级高级工程师

刘光明 南昌航空大学材料科学与工程学院副院长、教授

刘宏芳 华中科技大学化学与化工学院副院长、教授

刘静 武汉科技大学副校长、教授

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陆峰 中国航发北京航空材料研究院副总工程师、研究员

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Bernard Normand Professor, INSA Lyon

彭晓 南昌航空大学教授

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Philippe Refait Professor, University of La Rochelle

宋光铃 厦门大学教授

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Marc Wilms Engineer, Shell Projects & Technology

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

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Ping Xiao Professor, University of Manchester

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杨进 中国石油大学（北京）安全与海洋工程学院副院长、教授

曾荣昌 山东科技大学教授

左禹 北京化工大学教授

张大全 上海电力大学教授

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张启富 中国钢研科技集团公司新冶高科技集团有限公司总经理，先进金属材料涂镀国家工程实验室主任、教授

张善勇 西南大学新薄膜材料与器件研究中心主任、教授，国际薄膜学会会长

张忠铎 宝钢股份中央研究院钢管技术中心主任、教授

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：王振尧研究员 中国科学院金属研究所

支持单位：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：[wjkbm@163.com](mailto: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 academican 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 Lab of Advanced Coating Technology for Metals
Key Laboratory for Corrosion and Protection, Ministry of Education
Natural Environmental Test and Research Center of Science

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

Adviser (sort alphabetically by the last name):

Xuedong Chen, Academician of Chinese Academy of Engineering

Yufeng Cheng, Academician of EU Academy of Sciences

Wenjiang Ding, Academician of Chinese Academy of Engineering

Baorong Hou, Academician of Chinese Academy of Engineering

Wei Ke, Academician of Chinese Academy of Engineering

Helin Li, Academician of Chinese Academy of Engineering

Fusheng Pan, Academician of Chinese Academy of Engineering

Xinping Mao, Academician of Chinese Academy of Engineering

Shigang Sun, Academician of Chinese Academy of Sciences

Jun Wang, Academician of Chinese Academy of Engineering

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Binshi Xu, Academician of Chinese Academy of Engineering

Qunji Xue, Academician of Chinese Academy of Engineering

Fuze Zhang, Academician of Chinese Academy of Engineering

Tongyi Zhang, Academician of Chinese Academy of Sciences

Zhenye Zhao, Academician of Chinese Academy of Engineering

Kesong Zhou, Academician of Chinese Academy of Engineering

Chairmen:

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

Fusheng Pan, Academician of Chinese Academy of Engineering, President of Chongqing Association for Science and Technology

Executive Chairman:

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

Vice-Chairmen:

Xiaogang Li, Professor, University of Science and Technology Beijing, Vice-Chairman of Chinese Society for Corrosion and Protection, Director of Key Laboratory for Corrosion and Protection, Ministry of Education

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

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Changfeng Chen, Professor, China University of Petroleum

Xiaobo Chen, Senior Research Fellow, RMIT University

Yueliang Chen, Professor, Naval Aviation University Qingdao Campus

Zhuoyuan Chen, Professor, Institute of Oceanology, Chinese Academy of Sciences

Chenglin Chu, Professor, Vice Dean of School of Materials Science and Engineering, Southeast University

J érome Crouzillac, Engineer, BAC Corrosion Control

Chuang Dong, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Dalian University of Technology

Cuiwei Du, Professor, University of Science and Technology Beijing, Secretary General of Chinese Society for Corrosion and Protection

Lorenzo Fedrizzi, Professor, University of Udine

Damien Ferón, Vice-President of World Corrosion Organisation
Wolfram Fürbeth, Professor, DECHEMA-Forschungsinstitut
Zhigang Fang, Researcher, Naval Research Academy
Yan Gao, Professor, South China University of Technology
Taijiang Gui, Professor-Level Senior Engineer, Chief Engineer of Marine Chemical Research Institute Co., Ltd.
Baoshan Gu, Professor, Vice Director of National Engineering Lab of Advanced Coating Technology for Metal Material, China Iron and Steel Research Institute Group
Hongbo Guo, Winner of the National Science Fund for Distinguished Young Scholars of China, Distinguished Professor of Chang Jiang Scholars Program, Professor, Vice Dean of School of Materials Science and Engineering, Beihang University
Xingpeng Guo, Professor, Vice President of Guangzhou University
Bing Han, Senior Engineer, China Iron & Steel Research Institute Group
Jiming Hu, Professor, Zhejiang University
Songqing Hu, Professor, China University of Petroleum
Wenbin Hu, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Dean of School of Materials Science and Engineering, Tianjin University
Yafei Kuang, Professor, Hunan University
Hanlin Liao, Professor, University of Technology of Belfort-Montbéliard
Christofer Leygraf, Professor, KTH Stockholm
Changjiu Li, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Vice Director of State Key Laboratory for Mechanical Behavior of Materials, Xi'an Jiaotong University
Hua Li, Professor, Ningbo Institute of Industrial Technology, CAS
Jin Li, Professor, Fudan University
Wei Li, Professor, Dean of Institute of Advanced Wear & Corrosion Resistant and Functional Materials, Jinan University
Weihua Li, Winner of the National Science Fund for Distinguished Young Scholars of China, Professor, Dean of School of Chemical Engineering and Technology, Sun Yat-sen University
Wenge Li, Professor, Shanghai Maritime University
Xingeng Li, Professor-Level Senior Engineer, Chief Expert of State Grid Shandong Electric Power Research Institute
Guangming Liu, Professor, Vice Dean of School of Materials Science and Engineering, Nanchang Hangkong University
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

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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

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 Crouzillac, 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 Ferrón, 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: Researcher Zhenyao Wang, Institute of Metal Research, Chinese Academy of Sciences

Support units: 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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