

2019 国际腐蚀防护与应用大会

International Conference on Corrosion Protection and Application (ICCPA 2019)



主要日程安排 Main schedule of the Conference

日期 Date	时间 Time	安排 Arrangement	地点 Place
10月9日 Oct. 9 th	9:00-24:00	会议注册 Registration	一楼大堂 Lobby on the 1 st floor
	17:30-21:30	自助晚餐 Dinner buffet	二楼长江咖啡厅 River café, 2 floor
	19:30-21:30	《表面技术》编辑委员会会议 Meeting of the editorial board of Surface Technology	三楼长江会议室2+3 Yangtze 2 & 3, 3 rd floor
10月10日 Oct. 10 th	6:30-8:00	自助早餐 Breakfast buffet	二楼长江咖啡厅 River café, 2 nd floor
	8:00-12:00	会议注册 Registration	一楼大堂 Lobby on the 1 st floor
	8:30-9:00	开幕式 Opening ceremony	四楼三峡宴会厅 Three gorges grand ball room, 4 th floor
	9:00-10:00	大会报告 Plenary lectures	四楼三峡宴会厅 Three gorges grand ball room, 4 th floor
	10:00-10:30	全体与会人员合影 Group photo	一楼 1 st floor
	10:30-12:00	大会报告 Plenary lectures	四楼三峡宴会厅 Three gorges grand ball room, 4 th floor
	12:00-13:30	自助午餐 Lunch buffet	二楼长江咖啡厅 River café, 2 nd floor
	13:30-17:50	大会报告 Plenary lectures	四楼三峡宴会厅 Three gorges grand ball room, 4 th floor
	18:50-21:00	晚宴 Dinner Reception	四楼三峡宴会厅 Three gorges grand ball room, 4 th floor
10月11日 Oct. 11 th	6:30-8:00	自助早餐 Breakfast buffet	二楼长江咖啡厅 River café, 2 nd floor
	8:30-11:50	主题论坛一：油气管道腐蚀控制、失效分析与防护技术 Forum 1: Corrosion Control, Failure Analysis and Protection Technology for Oil and Gas Pipelines	三楼长江会议室2+3 Yangtze 2 & 3, 3 rd floor
	8:30-11:50	主题论坛二：绿色电力的防腐蚀技术 Forum 2: Anti-corrosion Technology of Green Power	四楼贵宾厅 VIP reception room, 4 th floor
	8:30-11:50	主题论坛三：热喷涂技术在腐蚀防护中的研究及应用 Forum 3: Thermal Spraying Technology for Corrosion Protection	四楼巫峡厅+瞿塘峡厅 Wu gorge & Qutang gorge, 4 th floor
	8:30-11:50	主题论坛四：大气腐蚀与防护 Forum 4: Atmospheric Corrosion and Protection	四楼三峡宴会厅A Three gorges grand ball room A, 4 th floor
	8:30-11:50	主题论坛五：先进钢铁材料腐蚀与防护 Forum 5: Corrosion and Protection of Advanced Steel Materials	四楼三峡宴会厅B Three gorges grand ball room B, 4 th floor
	8:30-11:50	主题论坛六：面向海洋腐蚀的先进表面防护技术及材料 Forum 6: Advanced surface protection technology and material for marine corrosion	四楼三峡宴会厅C Three gorges grand ball room C, 4 th floor

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日期 Date	时间 Time	安排 Arrangement	地点 Place
	12:00-13:30	自助午餐 Lunch buffet	二楼长江咖啡厅 River café, 2 nd floor
	12:30-14:00	Posters答疑及评审 Q & A and Review of Posters	四楼 4 th floor
	14:00-17:30	主题论坛一：油气管道腐蚀控制、失效分析与防护技术 Forum 1: Corrosion Control, Failure Analysis and Protection Technology for Oil and Gas Pipelines	三楼长江会议室2+3 Yangtze 2 & 3, 3 rd floor
	14:00-17:40	主题论坛二：绿色电力的防腐蚀技术 Forum 2: Anti-corrosion Technology of Green Power	四楼贵宾厅 VIP reception room, 4 th floor
	14:00-17:30	主题论坛三：热喷涂技术在腐蚀防护中的研究及应用 Forum 3: Thermal Spraying Technology for Corrosion Protection	四楼巫峡厅+瞿塘峡厅 Wu gorge & Qutang gorge, 4 th floor
	13:30-17:40	主题论坛四：大气腐蚀与防护 Forum 4: Atmospheric Corrosion and Protection	四楼三峡宴会厅A Three gorges grand ball room A, 4 th floor
	14:00-17:30	主题论坛五：先进钢铁材料腐蚀与防护 Forum 5: Corrosion and Protection of Advanced Steel Materials	四楼三峡宴会厅B Three gorges grand ball room B, 4 th floor
	13:30-17:30	主题论坛六：面向海洋腐蚀的先进表面防护技术及材料 Forum 6: Advanced surface protection technology and material for marine corrosion	四楼三峡宴会厅C Three gorges grand ball room C, 4 th floor
	17:30-17:40	主题论坛一优秀口头报告颁奖仪式 Forum 1 award ceremony for outstanding orals	三楼长江会议室2+3 Yangtze 2 & 3, 3 rd floor
	17:40-17:50	主题论坛二优秀口头报告颁奖仪式 Forum 2 award ceremony for outstanding orals	四楼贵宾厅 VIP reception room, 4 th floor
	17:30-17:40	主题论坛三优秀口头报告颁奖仪式 Forum 3 award ceremony for outstanding orals	四楼巫峡厅+瞿塘峡厅 Wu gorge & Qutang gorge, 4 th floor
	17:40-17:50	主题论坛四优秀口头报告颁奖仪式 Forum 4 award ceremony for outstanding orals	四楼三峡宴会厅A Three gorges grand ball room A, 4 th floor
	17:30-17:40	主题论坛五优秀口头报告颁奖仪式 Forum 5 award ceremony for outstanding orals	四楼三峡宴会厅B Three gorges grand ball room B, 4 th floor
	17:30-17:40	主题论坛六优秀口头报告颁奖仪式 Forum 6 award ceremony for outstanding orals	四楼三峡宴会厅C Three gorges grand ball room C, 4 th floor
	17:40-17:50	大会优秀海报颁奖仪式 Award ceremony for outstanding posters	三楼长江会议室2+3 Yangtze 2 & 3, 3 rd floor
	18:00-21:30	自助晚餐 Dinner buffet	二楼长江咖啡厅 River café, 2 nd floor
10月12日 Oct. 12 th .		会议疏散、返程 End, evacuation and return	

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开幕式 Opening ceremony

2019.10.10 Three gorges grand ball room, 4th floor

Host: Prof. Dawei Zhang, University of Science and Technology Beijing

8:30-9:00 Opening Speeches

Prof. Hulin WU, Director of Southwest Institute of Technology and Engineering,
Director of China Weathering Test and Research

Prof. Arjan MOL, Delft University of Technology, The Netherlands & President of EFC

Prof. Yu Zuo, Beijing University of Chemical Technology, Honorary Director, Chinese Society for Corrosion and Protection

Prof. Fusheng PAN, Academician of Chinese Academy of Engineering, President of Chongqing Association for Science and Technology

大会报告 Plenary lectures

2019.10.10 Three gorges grand ball room, 4th floor

Host: Prof. Bernard Normand, INSA de Lyon

Prof. Dawei Zhang, University of Science and Technology Beijing

No.	Time	Speaker	Topic
1	9:00-9:30	Prof. TongYi Zhang, Academician of Chinese Academy of Sciences, Shanghai University	Symbolic Regression of Peak Current Densities in Cyclic Voltammogram
2	9:30-10:00	Prof. Arjan MOL, Delft University of Technology, The Netherlands & President of EFC	In-situ electrochemical, microscopic and spectroscopic studies of local corrosion and buried metal-polymer interfaces
10:00-10:30 Tea Break & Group photo			
3	10:30-11:00	Prof. Herman TERRY, Vrije Universiteit Brussel, Belgium	Experiments and modelling of corrosion & protection systems
4	11:00-11:30	Prof. Bernard Normand, INSA de Lyon	The corrosion sensitivity of coatings: The keys of the optimization
5	11:30-12:00	Prof. Enhou Han, Institute of Metal Research, Chinese Academy of Sciences	Localized corrosion - from mechanisms understanding to safety ensurance and lifetime prediction for engineering structures
12:00-13:30 Lunch buffet			
Host: Prof. Wolfram FÜRBETH, DECHEMA-Forschungsinstitut, Germany			
Prof. Jizhou Duan, Institute of Oceanology, Chinese Academy of Sciences			
6	13:30-14:00	Prof. Damien FERÓN, President of World Corrosion Organisation	Green power and corrosion
7	14:00-14:30	Prof. Changjian Lin, Xiamen University	Advanced strategies of corrosion control of stainless steel in marine environments
8	14:30-15:00	Prof. Philippe REFAIT, University of La Rochelle, France	Protection of steel by thermally sprayed sacrificial coatings: cathodic processes
15:00-15:20 Tea Break			
9	15:20-15:50	Prof. Johan TIDBLAD, RISE Kimab, Sweden	Outdoor corrosion testing and comparison with accelerated corrosion test
10	15:50-16:20	Dr. Steve SHI, TWI, Ltd.	Preferential weldment corrosion-metallurgical aspects, evaluation and mitigation methods
11	16:20-16:50	Prof. Michael ROHWERDER, Max-Planck-Institut für Eisenforschung GmbH, Germany	Intelligent coatings for corrosion protection: on the need for new coating concepts
12	16:50-17:20	Prof. Xiaoran Yang, Southwest Institute of Technology and Engineering	Development and application of Sun track salt (acid) fog exposure technologies
13	17:20-17:50	Mr. Guangwu Wang, Guangzhou Goaland Energy Conservation Tech.Co.,Ltd	Anti-corrosion research of the liquid cooling device for offshore wind turbine

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Forum 1: Corrosion Control, Failure Analysis and Protection Technology for Oil and Gas Pipelines
2019.10.11 Yangtze 2 & 3, 3rd floor

Honorary President: Academician Xuedong Chen, Hefei General Machinery Research Institute

Convenors: Prof. Xinhua WANG, Beijing University of Technology

Mr. Jérôme CROUZILLAC, BAC Corrosion Control, France

Host: Prof. Lei Zhang, University of Science and Technology Beijing

Dr. Anqing Fu, Senior engineer, CNPC Tubular Goods Research Institute

No.	Time	Content	Speaker	Topic
14	8:30-9:00	Keynote	Dr. Ronghua Wei, Southwest Research Institute® (SwRI®)	Plasma Deposition of Diamond-like Carbon (DLC) Coatings on Inner Surface of Oil Tubulars: from R&D to Production
15	9:00-9:20	Oral	Ying Xiao, Ph.D. student, Southwest Petroleum University	Corrosion behavior of 2205 DSS in the NaCl solution containing sulfide ions
16	9:20-9:50	Invited	Prof. Lei Zhang, University of Science and Technology Beijing	Formation and Evolution of H ₂ S Corrosion Products and Their Influence on Corrosion Mechanism
17	9:50-10:10	Oral	Ass. Prof. Maocheng Yan, Institute of Metal Research, Chinese Academy of Sciences	Corrosion Behavior of Cathodically Protected Pipeline Steel under Dynamic DC Interference
10:10-10:30			Tea Break	
18	10:30-11:00	Invited	Dr. Anqing Fu, Senior engineer, CNPC Tubular Goods Research Institute	Tubing String Corrosion Failure and Challenges of High Temperature High Pressure (HPHT) Gas Well
19	11:00-11:20	Oral	Yameng Qi, Researcher, Center Research Institute, Baoshan Iron and Steel Co.	Development of a new low-alloy seamless pipeline for oil and gas gathering system containing SRB and CO ₂
20	11:20-11:50	Invited	Prof. Xiankang Zhong, Southwest Petroleum University	The Corrosion and its Mitigation at a Gradual Pipe Contraction/Expansion in Oil and Gas Field
12:00-14:00			Lunch buffet	
Host: Ass. Prof. Yingchun Chen, Beijing University of Technology				
Ass. Prof. Maocheng Yan, Institute of Metal Research, Chinese Academy of Sciences				
21	14:00-14:20	Oral	Dr. Lin Gu, Drilling & Production Research Department, CNOOC Research Institute Co., Ltd.	Research progress on anti-corrosion of offshore oil well pipes in China
22	14:20-14:50	Keynote	Mr. James PRESTON, CORROSION CONTROL, UK	Developments in cathodic protection for offshore renewable energy structures
23	14:50-15:10	Oral	Prof. Yanxia Du, University of Science and Technology Beijing	Research on the Effects of AC Interference on Electrochemical Parameters and Corrosion Behavior of Pipeline Steel in the Environment with High Content of Ca ²⁺ and Mg ²⁺
15:10-15:30			Tea Break	
24	15:30-16:00	Invited	Zhenhua Chen, Senior engineer, Petrochina Pipeline R&D Center	The progress of evaluation on AC and DC interference on underground steel pipeline
25	16:00-16:20	Oral	Prof. Jingmao Zhao, Beijing University of Chemical Technology	Comparative study of the corrosion inhibition performances of several compounds

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26	16:20-16:40	Oral	Dr. Peike Zhu, Research Institute of Petroleum Exploration and Development, Petrochina	Corrosion investigation of carbon and low alloy steels, supermartensitic stainless steels and duplex stainless steels for oil-gas-water multiphase flow containing H ₂ S, CO ₂ and chloride
27	16:40-17:00	Oral	Ass. Prof. Xudong Sui, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences	Effect of deposition pressures on properties of thick DLC coatings inside of a long pipe prepared by PECVD method
28	17:00-17:30	Invited	YongYang, Senior engineer, China Special Equipment Inspection and Research Institute	Corrosion Characterization in CGHAZ and ICCGAZ of X100 Pipeline Steel in Simulated Solution under AC Interference
17:30-17:40			ForumI award ceremony for outstanding orals	
17:40-17:50			Award ceremony for outstanding posters	
Forum 2: Anti-corrosion Technology of Green Power 2019.10.11 VIP reception room, 4 th floor				
Honorary President: Academician Shigang Sun, Xiamen University				
Convenors: Prof. Daquan ZHANG, Shanghai University of Electric Power				
Prof. Damien FERÓN, vice-president of World Corrosion Organisation, past president of EFC, director of research at the Nuclear Energy Division of the French alternative energies and atomic energy commission(CEA), France				
Host: Prof. Zhanpeng LU, Shanghai University				
Dr. Yuantao Zhao, Shanghai maritime University				
No.	Time	Content	Speaker	Topic
29	8:30-9:00	Keynote	Dr. Gareth HINDS, National Physical Laboratory, UK	Corrosion in fuel cells and electrolyzers
30	9:00-9:20	Oral	Ph.D. Guoqin Cao, Zhengzhou University	The oxidation mechanism of Zr-based alloys and the protective coatings with lifetime extension
31	9:20-9:50	Keynote	Dr. Ralph BÄSSLER, BAM-Federal Institute for Materials Research and Testing, Germany	Material issues in CCUS or corrosion in geothermal applications
32	9:50-10:10	Oral	Zhiheng ZHANG, Master student, INSA de LYON	The passive behaviour of binary Ni-Cr alloys by successive electrochemical impedance spectroscopy measurements
10:10-10:30			Tea Break	
33	10:30-11:00	Keynote	Dr. Qunjia Peng, Chief Engineer, Suzhou Nuclear Power Research Institute	Effect of thermal ageing on environmentally assisted cracking of 308L stainless steel in primary water of PWR
34	11:00-11:20	Oral	Likui Feng, Senior Engineer, State Grid Zhejiang Electric Power Research Institute	Application Research of Dried-air Combined Protection Technology for Lay-up Corrosion of Combined Cycle Unit
35	11:20-11:50	Invited	Prof. Zhanpeng LU, Shanghai University	Mechanisms and Predictive Model for Stress Corrosion Cracking in Nuclear Power Plant High Temperature Water
12:00-14:00			Lunch buffet	
Host: Prof. Daquan Zhang, Shanghai University of Electric Power				
Ass. Prof. Lin Gu, Sun Yat-sen University				
36	14:00-14:20	Oral	JincanCui, Ph.D. Student, University of Shanghai for Science and Technology	The Application of Zwitterionic Graphene Oxide in Waterborne Anticorrosive Coatings

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37	14:20-14:50	Invited	Dr. Jingwei Deng, State Grid Jiang xi electric power research institute	Development and application of anticorrosive material and technology for power grid
38	14:50-15:10	Oral	Dr. Yuantao Zhao, Shanghai maritime University	Corrosion Behavior and Mechanism Analysis of Parts of Coal Storage Bunker in a Thermal Power Plant along the Coast
15:10-15:30		Tea Break		
39	15:30-16:00	Oral	Jiahao Ge, Master student, East China University of Science and Technology	Ultrasonic Detection of Hydrogen Damage in Heat Resistant Steel 2.25Cr1Mo0.25V
40	16:00 -16:20	Oral	Ass. P prof. Baomin Fan, Beijing Technology and Business University	Corrosion inhibition of aniline derivatives/ Molybdate electropolymerization coatings on copper: A combined experimental and theoretical study
41	16:20 -16:50	Invited	Prof. Qunjie XU, Shanghai University of Electric Power	Corrosion Protection of Aluminum Alloys Bipolar Plates of PEMFC by Coating Composite Films
42	16:50 -17:10	Oral	Ass. Prof. Lin Gu, Sun Yat -sen University	Molecular design and anticorrosive properties of waterborne coatings
43	17:10 -17:40	Keynote	Dr. Peter PLAGEMANN, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM, Germany	Corrosion protection of offshore wind power plants in Europe

17:40 -17:50

Forum 2 award ceremony for outstanding orals

Forum 3: Thermal Spraying Technology for Corrosion Protection
2019.10.11 Wu gorge & Qutang gorge, 4th floor

Honorary President: Academician Kesong Zhou, Guangdong Institute of New Materials
 Convenors: Prof. Hua LI, Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences
 Prof. Wenge LI, Shanghai Maritime University Prof. Wolfram FÜRBEETH, DECHEMA-Forschungsinstitut, Germany
 Prof. Philippe REFAIT, University of La Rochelle, France

Host: Prof. Shihong Zhang, Anhui University of Technology
 Prof. Li Yang, Xiangtan University

No.	Time	Content	Speaker	Topic
44	8:30 -9:00	Keynote	Prof. Changjiu Li, Xi'an Jiaotong University	Novel strategy to deposit corrosion resistant metallic coatings by plasma spraying
45	9:00 -9:20	Oral	Prof. Shihong Zhang, Anhui University of Technology	High-temperature stabilization and corrosion mechanism under alternating stress in molten aluminium alloy of Mo-B based coatings
46	9:20-9:50	Keynote	Dr. Shiladitya PAUL, TWI and University of Leicester, UK	Protection of offshore structures using thermal spray aluminum
47	9:50 -10:10	Oral	Xu Wang, Ph.D. student, Beijing University of Technology	The study of hot corrosion behavior of coatings with different oxide content deposited by arc spraying using N ₂ and air

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10:10 -10:30		Tea Break		
48	10:30 -11:00	Keynote	Prof. Hanlin LIAO, University of Technology of Belfort-Montbeliard, France	Corrosion behavior of cold sprayed 7075Al composite coating reinforced with in-situ nanosized TiB ₂ particles
49	11:00 -11:20	Oral	Prof. Hongsong Zhang, Henan University of Engineering	Preparation, Thermophysical Performances of Ca ₃ Ln ₃ Ti ₇ Ta ₂ O _{26.5} (Ln=Yb and Y) Oxides for Thermal barrier Coating Applications
50	11:20 -11:50	Invited	Ph.D. Xiaofeng Zhang, Senior Engineer, Guangdong Institute of New Materials	Al-modified PS-PVD 7YSZ TBCs from basic research to practical application
12:00 -14:00		Lunch buffet		
Host: Ph.D. Xiaofeng Zhang, Senior Engineer, Guangdong Institute of New Materials Ass. Prof. QinYing Wang, Southwest Petroleum University				
51	14:00 -14:20	Oral	Prof. Li Yang, Xiangtan University	A chemo-thermo-mechanically constitutive theory for thermal barrier coatings under CMAS infiltration and corrosion
52	14:20 -14:50	Keynote	Prof. Xueqiang Cao, Wuhan University of Technology	Corrosion mechanism of thermal barrier coatings by CMAS
53	14:50 -15:10	Oral	Ass. Prof. QinYing Wang, Southwest Petroleum University	Erosion-corrosion behavior of laser-clad multi-track Ni-based alloy coating
15:10 -15:30		Tea Break		
54	15:30 -16:00	Invited	Prof. Jifu Zhang, Guangdong Institute of New Materials	Study on Pitting Resistance of Amorphous/Nanocrystalline Coatings prepared by HVOF
55	16:00 -16:20	Oral	Dr. Wenting He, Beihang University	Protective coatings of anti-CMAS corrosion by PS-PVD
56	16:20 -16:40	Oral	Dr. Zipeng Zhao, Southwest Technology and Engineering Research Institute	Microstructure and Friction and Wear Properties of NiCr-Cr ₃ C ₂ Coating by APS and HVOF
57	16:40 -17:00	Oral	Ass. Prof. Shawei Tang, Harbin Institute of Technology	Corrosion Performance of Plasma Sprayed Nanostructured Al ₂ O ₃ -13%TiO ₂ Coatings
58	17:00 -17:30	Keynote	Prof. Ralf FESER, Fachhochschule Südwestfalen, Iserhorn, Germany	Thermally sprayed zinc and zinc-aluminum layers for corrosion protection in off-shore environment
17:30 -17:40		Forum 3 award ceremony for outstanding orals		
Forum 4: Atmospheric Corrosion and Protection 2019.10.11 Three gorges grand ball room A, 4 th floor				
Honorary President: Prof. Xiaogang Li, , University of Science and Technology Beijing Convenors: Prof. Zhenyao WANG, Institute of Metal Research, Chinese Academy of Sciences Prof. Jingfeng Wang, Chongqing University Researcher Kun Zhou, Southwest Institute of Technology and Engineering Prof. Johan TIDBLAD, RISE Kimab, Sweden				

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Host: Ass. Prof. Liang Wu, Chongqing University

Yi Zhou, Senior Engineer, Southwest Institute of Technology and Engineering

No.	Time	Content	Speaker	Topic
59	8:30 -9:00	Keynote	Dr. Ter je GRØNTOFT, Norwegian Institute for Air Research, Oslo, Norway	Atmospheric corrosion costs in Europe and China
60	9:00 -9:20	Oral	Ass. Prof. Xinxin Zhang, Huazhong University of Science and Technology	The Correlation between Stored Energy on Localized Co rrosion Development of Aluminium Alloys: Mechanism, Application and Prediction
61	9:20 -9:50	Keynote	Prof. RongChang Zeng, Shandong University of Science and Technology	Corrosion mechanisms of magnesium alloys from a microstructural perspective
62	9:50 -10:10	Oral	Mr. Christophe Baete, Elysa nv	The application of corrosion simulation in the field of atmospheric environmental corrosion
10:10 -10:30			Tea Break	
63	10:30 -11:00	Keynote	Dr. Teresa DIAMANTINO, LNEG, Amadora, Portugal	Selective coatings for solar thermal energy: Indoor and outdoor test evaluation and correlation
64	11:00 -11:20	Oral	Dr. Maria Serdechnova, Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research	In-situ growth of layered double hydroxides on PEO coated magnesium
65	11:20 -11:50	Invited	Prof. Dawei Zhang, University of Science and Technology Beijing	Data-driven approach to understand environmental corrosion
12:00 -13:30			Lunch buffet	
Host: Xiaobing Ma, Researcher, Beihang University				
Dr. Fangchao Zhao, Senior Engineer, Southwest Institute of Technology and Engineering				
66	13:30 -14:00	Keynote	Dr. Angus Cook, Wood	Methods for high-throughput, automated atmospheric corrosion testing to support long-term storage of radioactive waste
67	14:00 -14:20	Oral	Prof. Yanlong Ma, Chongqing University of Technology	Corrosion resistance of layered double hydroxides film formed on AA2099-T8 Al-Cu-Li alloy and its anodic film
68	14:20 -14:50	Keynote	Prof. Jizhou Duan, Institute of Oceanology, Chinese Academy of Sciences	Research on marine corrosive parameters and the protection system towards severe corrosion environment
69	14:50 -15:10	Oral	Dr. Sviatlana Lamaka, Helmholtz-Zentrum Geesthacht	Comprehensive experimental and computational screening of magnesium corrosion inhibitors and their incorporation within the protective coatings

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15:10 -15:30		Tea Break		
70	15:30 -16:00	Invited	Prof. Yingwei Song, Institute of Metal Research, Chinese Academy of Sciences	Dual Self-healing Coating of Mg Alloys Based on Synergistic Effect of Inhibitors
71	16:00 -16:20	Oral	Yan Hou, Doctorial Student, Dalian University of Technology	Pitting corrosion of strained 2205 duplex stainless steel under wet-dry cycling conditions
72	16:20 -16:50	Invited	Ass. Prof. Liang Wu, Chongqing University	Enhanced protection by a smart coating based on layered double hydroxide on Magnesium alloy
73	16:50 -17:10	Oral	Dr. Yikun Cai, Beihang University	A Time-varying Approach for Corrosion Prediction in Dynamic Industrial Atmosphere
74	17:10 -17:40	Invited	Dr. Fangchao Zhao, Southwest Institute of Technology and Engineering	Effect of micromorphology on corrosion development in marine atmospheric environment
17:40 -17:50		Forum 4 award ceremony for outstanding orals		

Forum 5: Corrosion and Protection of Advanced Steel Materials 2019.10.11 Three gorges grand ball room B, 4th floor

Honorary President: Academician Xinping Mao, Wuhan Branch of Baosteel Central Research Institute (R & D Center of Wuhan Iron & Steel Co. , Ltd.)

Convenors: Prof. Baoshan Gu, China Iron and Steel Research Institute Group
Prof. Tomáš Prosek, University of Chemistry and Technology Prague

Host: Prof. Zhiyong Liu, University of Science and Technology Beijing
Dr. Hao PENG, Wuhan Branch of Baosteel Central Research Institute (R & D Center of Wuhan Iron & Steel Co. , Ltd.)

No.	Time	Content	Speaker	Topic
75	8:30 -9:00	Keynote	Dr. Tomas PROSEK, University of Chemistry and Technology Prague, Czech Republic	In situ studies of hydrogen embrittlement of high strength steels in atmospheric conditions
76	9:00 -9:20	Oral	Ass. Prof. Shengqiang Ma, Xi'an Jiaotong University	Corrosion behavior and mechanism of directionally solidified Fe-B alloy in flowing liquid zinc
77	9:20 -9:50	Invited	Ass. Prof. Mei Yu, Beihang University	Container based self-healing and corrosion monitoring in smart protective coating
78	9:50 -10:10	Oral	Yulin Hao, , Technical research institute of shougang group co., LTD. Engineer	Effect of Element Enrichment State on Phosphating Properties of Steel
10:10 -10:30		Tea Break		
79	10:30 -10:50	Oral	Dr. hongpeng ZHENG, Northeastern University	Impact of exfoliation degree of graphene oxide on the anticorrosion of modified graphene oxide/epoxy composited coating

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80	10:50 -11:10	Oral	Dr. Ziyue Zhang, China Iron and Steel Research Institute Group	Research and application status of zinc-aluminum-magnesium alloy coatings
81	11:10 -11:40	Invited	Prof. Zhiyong Liu, University of Science and Technology Beijing	Behavior and Mechanism of Stress Corrosion Cracking of High Strength Pipeline Steels in Various External Environments
12:00 -14:00		Lunch buffet		
Host: Ass. Prof. Mei Yu, Beihang University Ass. Prof. Shengqiang Ma, Xi'an Jiaotong University				
82	14:00 -14:20	Oral	Dr. Xiaopan Qiu, China Iron and Steel Research Institute Group	Research Progress on Zn-Mg Coatings produced by PVD
83	14:20 -14:50	Invited	Dr. Jianwei YANG, Senior Engineer, Deputy Director of Application Technology Department, R&D of Shougang Group Co., Ltd.	Influence of Ni on the atmospheric corrosion behavior of low-alloy steel
84	14:50-15:10	Oral	Ph.D. Wen Sun, Dalian University of Technology	High-efficiency Preparation of Reduced Graphene Oxide by a Two-step Reduction Method and Its Enhancement of Thermally-Conductive and Anti-corrosive Performance for Epoxy Coatings
15:10 -15:30		Tea Break		
85	15:30-16:00	Invited	Dr. Hao PENG, Wuhan Branch of Baosteel Central Research Institute (R & D Center of Wuhan Iron & Steel Co. , Ltd.)	Comparative study of corrosion resistance of different types of automotive high strength steels
86	16:00-16:20	Oral	Prof. AMBRISH SINGH, Southwest petroleum university	Development and testing of some synthesized inhibitors for corrosion of J55 steel in sweet
87	16:20-16:40	Oral	Yiqi Zhou, Ph.D. student, University of Manchester	Exploring the Application of Bipolar Electrochemistry- Providing Novel Insight for Corrosion Science and Engineering
88	16:40-17:00	Oral	Shaohua Xing, Senior Engineer, State Key Laboratory for Marine Corrosion and Protection, Luoyang Ship Material Research Institute	Influence of Coupled Resistance on Galvanic Corrosion of 10CrNi3Mo Low Alloy Steel / 2205 Stainless Steel Couples in Deep-Sea
89	17:00-17:30	Keynote	Prof. Wolfram FÜRBETH, DECHEMA-Forschungsinstitut, Germany	Nanoparticulate coatings for oxidation protection of steels during press-hardening
17:30-17:40		Forum 5 award ceremony for outstanding orals		
Forum 6: Advanced surface protection technology and material for marine corrosion 2019.10.11 Three gorges grand ball room C, 4 th floor				
Honorary Presidents: Prof. Yu Zuo, Beijing University of chemical technology, China Convenors: Prof. Bernard Normand, INSA de Lyon, France Prof. Jingmao Zhao, Beijing University of chemical technology, China Prof. Chunfeng Ma, South China University of Technology, China Prof. Junlei Tang, Southwest Petroleum University, China				
Host: Prof. Jingmao Zhao, Beijing University of Chemical Technology Prof. Junlei Tang, Southwest Petroleum University				

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No.	Time	Content	Speaker	Topic
90	8:30-9:00	Keynote	Prof. Mikhail Zheludkevich, Helmholtz-Zentrum Geesthacht (HZG) and University of Kiel	Active protective multi-functional coatings with "smart" nanocontainers
91	9:00-9:20	Oral	Prof. Yanwen Zhou, University of Science and Technology Liaoning	Study on Hydrophobicity and Corrosion Resistance of Coating Prepared on AH32 Steel by Plasma Spraying
92	9:20-9:50	Keynote	Prof. ZeHua Dong, Huazhong University of Science and Technology	Online Corrosion monitoring of electrical failure in offshore wind generator platform
93	9:50-10:10	Oral	Prof. Junlei Tang, Southwest Petroleum University	A smart anti-corrosion ethyl cellulose based coating with the CO ² - responsive property
10:10-10:30			Tea Break	
94	10:30-11:00	Keynote	Prof. Jingmao Zhao, Beijing University of Chemical Technology	The inhibition of corrosion inhibitor-loaded LDH coating for Mg alloy in artificial seawater
95	11:00-11:20	Oral	Yu SHI, Ph.D. student, INSA de Lyon France	2D materials charger in hydrophobic hybrid coating for corrosion protection of carbon steel
96	11:20-11:50	Invited	Prof. Xiutong Wang, Institute of Oceanology, Chinese Academy of Sciences	Photocathodic protection of metal using nanocomposite materials in marine environment
12:00-13:30			Lunch buffet	
Host: Ass. Prof. Sheng YUAN, INSA de Lyon Prof. Chunfeng Ma, South China University of Technology				
97	13:30-13:50	Oral	Prof. Chunfeng Ma, South China University of Technology	Degradable Self-polishing Antifouling Coatings (DSPC), A New Generation Technology
98	13:50-14:20	Keynote	Prof. Andreas Erbe, NTNU, Norwegian University of Science and Technology	Cathodic delamination of target-synthesized model polymer systems probed by in situ spectroscopy
99	14:20-14:40	Oral	Ass. Prof. Xue LIU, Institute of Materials, China Academy of Engineering Physics	The preparation of metallic glasses/crystalline composite coatings by laser cladding with enhanced corrosion resistance
100	14:40-15:10	Invited	Ass. Prof. Sheng YUAN, INSA de Lyon, France	Opportunities of sol-gel and electrospinning for corrosion application
15:10-15:30			Tea Break	
101	15:30-15:50	Oral	Muhammad Junaid Anjum, Master student, Beijing University of Chemical Technology	Reduced graphene oxide modified Ni-Co nanocomposite coating for the protection of low carbon steel
102	15:50-16:20	Invited	Prof. Li Liu, Northeastern University	Studies on Corrosion/Failure Behavior of Metals/ Protective Coatings in Deep Sea Environment
103	16:20-16:40	Oral	Ass. Prof. Yuming Tang, Beijing University of Chemical Technology	Comparative study on the failure process of two zinc-rich epoxy coatings by EIS
104	16:40-17:00	Oral	Xia Li, Master student, Chongqing University	One-step spraying method to fabricate robust superhydrophobic surface of magnesium alloys
105	17:00-17:30	Invited	Dr. Guosheng Huang, Senior Engineering , Luoyang Ship Material Research Institute(LSMRI) State Key Laboratory for Marine Corrosion and Protection	Cold Spraying Technology and Its Application for Anticorrosion in Marine Environments
17:30-17:40			Forum 6 award ceremony for outstanding orals	

*最终日程以现场为准 The final schedule is subject to the on-site announcement