第二届欧洲华人生态与环境青年学者论坛 - 水环境专题

2nd Europe-China Eco-Environmental Forum for Young Scholars

Special Topic on Water Environment

第一轮会议通知

First Round of Meeting Notice

腾讯会议链接 - 766 565 572

Tencent Meeting Link - 766 565 572

2023 年 12 月 9 日

Dec. 9th, 2023

官方网站：https://eu-cnees.com/

会议简介

2022 年，由欧洲华人生态环境协会（ECAEE）发起的“欧洲华人生态与环境青年学者论坛”，旨在为中欧华人生态环境领域青年学者搭建交流学习的平台，加深对新发展格局、新时代背景下中欧生态环境前沿问题的合作交流。相继成功举办了“第一、二届欧洲华人生态与环境青年学者论坛”及其相关专题会议。截止目前，共计来自 12 个欧洲国家参与，涵盖英国剑桥大学、瑞士 Eawag、荷兰代尔夫特理工大学、德国亥姆霍兹环境研究中心等生态环境领域知名研究机构，吸引了包括欧盟玛丽居里学者、德国洪堡学者在内的 60 余位优秀青年参与讨论。

“第二届欧洲华人生态与环境青年学者论坛—水环境专题”会议将于 2023 年 12 月 9 日举办，采用线上+线下结合的方式。本次论坛由清华大学水质与水生态研究中心和中国科学院生态环境研究中心环境水质学国家重点实验室联合 ECAEE 共同主办，旨在进一步促进水环境领域交叉协作和可持续发展。论坛分为以下 5 个主题：

（1） 水处理微生物技术

（2） 水环境与水生态

（3） 水处理资源化与智能化

（4） 流域水环境

（5） 水处理挑战与解决策略

Forum introduction

In 2022, the "Europe-China Eco-Environmental Forum for Young Scholars" was launched by the European Chinese Association for Eco-Environment (ECAEE). The forum aims to establish a communication platform for young Chinese scholars in the field of eco-environmental research across China and Europe, fostering deeper exchange and cooperation on cutting-edge eco-environmental issues within the context of the new development pattern and the challenges of a new era. ECAEE has successfully held the "1st and 2nd Europe-China Eco-Environmental Forum for Young Scholars" and the 1st special topic on water environment. To date, participants from a total of 12 European countries have engaged in the forum, representing prestigious eco-environmental research institutions such as Cambridge University in UK, Eawag in Switzerland, Delft University of Technology in Netherlands, and Helmholtz Center for Environmental Research in Germany, among others. Over 60 outstanding young scientists, including European Union Marie Curie fellows and German Humboldt fellows, have actively contributed to the forum.

The "2nd Europe-China Eco-Environmental Forum for Young Scholars - Special Topic on Water Environment" is scheduled as a hybrid meeting on December 9th, 2023. The objective is to advance cross-collaboration and promote sustainable water environmental development by leveraging the combined strengths of the Center for Water and Ecology of Tsinghua University, the State Key Laboratory of Environmental Aquatic Chemistry at Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences (RCEES, CAS), and ECAEE.

The forum contains five sub-topics:

(1) Microbial technology-based water treatment

(2) Water environment and water ecology

(3) Recycling and intellectualization on water treatment

(4) Watershed water environment

(5) Water treatment challenges and solution strategies

会议日程

Forum Schedule

*柏林时间 (Berlin time，+ 7 h 为北京时间)

9:00-9:05	**会议介绍 – 中国科学院生态环境研究中心 马百文 副研究员** **Forum Introduction - Associate Prof. Baiwen Ma** **Research Center for Eco-Environmental Sciences** **Chinese Academy of Sciences**			
9:05-9:15	**会议致辞 – 清华大学环境学院 刘会娟 教授** **Forum Speech – Prof. Huijuan Liu** **School of Environment, Tsinghua University**			
时间 **Time**	**报告人** **Speaker**	**单位** **Affiliation**	**报告题目** **Report Name**	**水处理微生物技术** **Microbial technology-based water treatment**
9:15-9:30	苏林 Lin Su	英国剑桥大学 University of Cambridge	电活性微生物改造与环境污染物的电传感监测 Engineering on Electroactive Microorganisms and Electrochemical Sensing of Environmental Contaminants	主持人 马百文 副研究员 Host Associate Prof. Baiwen Ma RCEES, CAS
9:30-9:45	于耀淳 Yaochun Yu	瑞士联邦水科学与技术研究所 Swiss Federal Institute of Aquatic Science and Technology	探索环境功能微生物与新型污染物的生物转化 Exploring the Functional Environmental Microorganisms and Emerging Contaminants Biotransformation	
9:45-10:00	熊毕景 Bijing Xiong	瑞士联邦水科学与技术研究所 Swiss Federal Institute of Aquatic Science and Technology	单细胞水平监测微生物对周期性抗生素治疗的响应 Single-Cell Monitoring of Bacterial Responses to Cyclical Antibiotic Treatment	

10:00-10:15	刘斌 Bin Liu	比利时鲁汶大学 Katholieke Universiteit Leuven	合作或竞争？微生物种间相互作用并非一成不变 Positive or Negative? Interspecies Interactions Among Bacteria Are Not Always Constant	
10:15-10:30	潘敏民 Minmin Pan	德国亥姆霍兹环境研究中心 Helmholtz-Centre for Environmental Research - UFZ	多组学分析在探索环境微生物创新应用途径的研究 Multi-omics Analysis Assisted Innovative Applications of Environmental Microbes	
10:30-10:45 休息/合影 **10:30-10:45 Break / Group photo**				
时间 **Time**	**报告人** **Speaker**	**单位** **Affiliation**	**报告题目** **Report Name**	**水环境与水生态** **Water Environment and Water Ecology**
10:45-11:00	赖斌 Bin Lai	德国亥姆霍兹环境研究中心 Helmholtz-Centre for Environmental Research - UFZ	利用太阳能和水制造生物氢气的生物光伏技术 The Biophotovoltaics for Biohydrogen from Sunlight and Water	主持人 哈尔滨工业大学 丁安 副教授 Host Associate Prof. An Ding HIT
11:00-11:15	李盛结 Shengjie Li	德国马普海洋微生物所 Max Planck Institute for Marine Microbiology	淡水环境中电子供体如何影响硝酸盐还原及 N_2O 产生：活性、同位素、微生物 How Electron Donors Influence Nitrate Reduction and N_2O Production During Denitrification in Freshwaters? Activity, Isotopes and Microorganisms	
11:15-11:30	王淼啸 Miaoxiao Wang	瑞士苏黎世联邦理工学院 Swiss Federal Institute of Technology in Zurich	个体代谢专一性和多功能性的权衡决定了微生物群落的代谢效率 The Trade-off between Individual Metabolic Specialization and	

			Versatility Determines the Metabolic Efficiency of Microbial Communities	
11:30-11:45	肖林红 Linhong Xiao	瑞典乌普萨拉大学 Uppsala University	共生微藻单细胞对环境污染物的光合生理学响应 Photophysiological Responses of Symbiodiniaceae Single Cells to Environmental Streesors	
11:45-12:00	高风正 Fengzheng Gao	荷兰瓦赫宁根大学 Wageningen University	微藻与水环境 Microalgae and Water Environment	
12:00-13:00 午间休息 **12:00-13:00 Lunch break**				
13:00-13:05	**会议介绍 – 中国科学院生态环境研究中心 张俊亚 副研究员** **Forum Introduction - Associate Prof. Junya Zhang** **Research Center for Eco-Environmental Sciences** **Chinese Academy of Sciences**			
13:05-13:15	**会议致辞 – 中国科学院生态环境研究中心 强志民 研究员** **Forum Speech – Prof. Zhimin Qiang** **Research Center for Eco-Environmental Sciences** **Chinese Academy of Sciences**			
时间 **Time**	**报告人** **Speaker**	**单位** **Affiliation**	**报告题目** **Report Name**	**水处理资源化与智能化** **Recycling and Intellectualization on Water Treatment**
13:15-13:30	赵严 Yan Zhao	比利时鲁汶大学 Katholieke Universiteit Leuven	eF-IC 技术构筑电膜材料用于精准回收离子资源 Electric Field-assisted Ion Control in Membrane Construction for Ionic Resource Recycling	主持人 张俊亚 副研究员 Host Associate Prof. Junya Zhang RCEES, CAS
13:30-13:45	靳鹏瑞 Pengrui Jin	比利时鲁汶大学 Katholieke Universiteit	用于水处理和资源回收的膜材料设计及制备应用 Design, Fabrication, and	

		Leuven	Implementation of Membrane Technologies for Water Purification and Resource Recovery	
13:45-14:00	贾天龙 Tianlong Jia	荷兰代尔夫特理工大学 Technische Universiteit Delft	基于半监督深度学习的漂浮垃圾检测 Detecting Floating Litter with a Semi-supervised Deep Learning Method	
14:00-14:15	刘兴震 Xingzhen Liu	比利时根特大学 Ghent University	智慧渔业大数据系统：渔业资源管理与水环境预警决策的集成应用 Smart Fishery Big Data System: Integrated Application of Fishery Resource Management and Water Environment Early Warning Decision-making	
14:15-14:30	王辉 Hui Wang	丹麦奥胡斯大学 Aarhus University	基于分子结构和机器学习探究渗滤液浓缩液溶解性有机物与 •OH/O_3 的反应性 Deciphering the Reactivity between •OH/O_3 and Molecular Organic Compositions of Concentrated Leachate through Molecular Signatures and Machine Learning	
时间 **Time**	**报告人** **Speaker**	**单位** **Affiliation**	**报告题目** **Report Name**	**流域水环境** **Watershed Water Environment**
14:30-14:45	刘晓夏 Xiaoxia Liu	欧洲卓越可持续水科技中心 Wetsus	应对水危机：Wetsus 的探索与实践 Coping with the Water Crisis: Wetsus' Exploration and Practice	主持人 德国亥姆霍兹环境研究中心 赖斌 博士 Host Dr. Bin Lai Helmholtz for Environmental
14:45-15:00	刘晓 Xiao Liu	法国斯特拉斯堡大学 University of Strasbourg	运用多元素单体同位素解析磺胺甲恶唑的直接光解 Direct Photodegradation of Sulfamethoxazole (SMX)	

			Characterized by Multi Element Compound Specific Isotope Analysis	Research - UFZ
15:00-15:15	夏蕾 Lei Xia	比利时鲁汶大学 Katholieke Universiteit Leuven	含铁吸附剂的氧化还原稳定性对沉积物内源磷污染修复效果影响 Redox Stability of Iron Rich by-products Influences the Efficacy of Phosphate Immobilization in Freshwater Sediments	
15:15-15:30	朱晓婧 Xiaojing Zhu	德国亥姆霍兹环境研究中心 Helmholtz-Centre for Environmental Research - UFZ	冻土、沉积物和地下水颗粒物中的不可提取态卤代有机物：被忽略的冰山 Nonextractable Organohalogens in Permafrost, Sediment and Groundwater Particles: an Overlooked Iceberg	
15:30-15:45 休息 **15:30-15:45 Break**				
时间 **Time**	**报告人** **Speaker**	**单位** **Affiliation**	**报告题目** **Report Name**	**水处理挑战与解决策略** **Water Treatment Challenges and Solution Strategies**
15:45-16:00	杨竹根 Zhugen Yang	英国克兰菲尔德大学 Cranfield University	生物传感技术在污水流行病学中的应用 Low Cost and Rapid Sensors for Wastewater Surveillance	主持人 哈尔滨工业大学（深圳） 杨敏 副研究员 Host Associate Prof. Min Yang HIT-Shenzhen
16:00-16:15	张希 Xi Zhang	比利时鲁汶大学 Katholieke Universiteit Leuven	用松木生物炭-CuO 复合材料活化高碘酸盐以去除顽固性有机污染物 - 机制和降解产物 Activation of Periodate with Pinewood Biochar-CuO Composite for the Removal of Recalcitrant Organic Pollutants – Mechanisms and Degradation Products	

16:15-16:30	彭谷雨 Guyu Peng	德国亥姆霍兹环境研究中心 Helmholtz-Centre for Environmental Research - UFZ	微纳米塑料体外暴露及一次性口罩光降解过程中微纳米塑料释放机制 Human Extenal Exposure to Micro(nano)plastics (MNPLs) and Release of MNPLs During Photodrgradation of Surgical Masks	
16:30-16:45	贾明升 Mingsheng Jia	比利时根特大学 Ghent University	高温生物脱氮技术的兴起 The rise of Thermophilic Biotechnology for Nitrogen Removal	
16:45-17:00	**自由讨论，会议总结 – 比利时鲁汶大学 郑利兵 博士** **Free Discussion, Forum Summary – Dr. Libing Zheng** **Katholieke Universiteit Leuven - Belgium**			

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