



The 5th International Students' Ecology and Environment Forum 第五届国际学生环境生态论坛

生态文明与低碳转型

Ecological Civilization and Low-Carbon Transition



2022年12月3-4日

会议手册

Conference Manual



北京师范大学环境学院

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随着全球人口和经济规模的不断增长，能源消费所带来的环境问题日益严重，温室气体排放以及由此引发的气候变化给人类生存和发展带来极大的挑战，对全球的自然生态系统和社会经济系统产生深刻的影响，制约了全人类的可持续发展。因此，协同创新推进低碳转型，推动实现经济社会发展与生态环境建设的共赢，成为各国实现可持续发展的必由之路。如何推动低碳转型，积极应对气候环境变化，推动经济社会发展，需要国际社会秉持多边主义，各尽所能、合作应对。为此，北京师范大学环境学院联合北京师范大学国际交流与合作处，共同组织发起国际学生环境生态论坛，旨在增强全球高校国际学生间的学术交流，分享学术成果，提升研究生的科研和创新能力，共同为全球环境问题提出解决方案。本届论坛的主题是“生态文明与低碳转型”，会议语言为英语，于2022年12月3-4日（周六和周日）在北京师范大学举行。

With the continuous global population increase alongside economic growth, the environmental problems caused by energy and resource consumption are dire. Likewise, greenhouse gas emissions and the resulting climate change have conveyed significant challenges to the survival of humans and their development; this profoundly impacts the global natural ecosystem and socioeconomic system, restricting the sustainable development of humankind. Therefore, collaborative innovation to promote low-carbon transformation and achieve a win-win situation between socioeconomic development and ecological civilization construction has become a crucial step for all countries to achieve sustainable development. To promote low-carbon transformation and economic and social development while actively responding to climate and environmental changes, the international community needs to uphold multilateralism and do its best to cooperate during unexpected events actively. To this end, the School of Environment of Beijing Normal University and the International Exchange & Cooperation Office of Beijing Normal University jointly launch the International Student Environmental Ecology Forum. This forum aspires to enhance academic exchanges among international and domestic students from univer

sities all around the world, share academic achievements, strengthen the research and innovation capabilities of graduate students, and jointly provide solutions to the global environmental crisis. The selected theme of the forum for this year is "Ecological Civilization and Low-Carbon Transformation." The conference will be carried out online and offline in English at Beijing Normal University on December 3-4, 2022 (Saturday and Sunday).

环境学院简介

Introduction of School of Environment,
Beijing Normal University



北京师范大学环境学院成立于2003年，起源于1983年创建的环境科学研究所。北京师范大学环境学院是我国首批从事环境科学研究与教育的平台之一，获得了我国第一批环境领域世界银行项目的支持，开展了我国第一个环境影响评价项目。学院经过多年的发展，现已形成了学科类型齐全、内涵特色鲜明、优势领域主导的环境科学与工程一级学科体系。其中，环境科学为国家重点学科，环境工程为北京市重点学科。此外，环境科学与工程一级学科在全国第四轮学科评估中获评为A，入选第二批“一流学科”建设名单。据2022年11月ESI统计，环境/生态学科在世界前1%研究机构排名中，论文数列23/1596（前0.02%），引用列63/1596（前0.04%），成为我校首个进入ESI前千分之一的学科。2022年，北京师范大学在USnews环境生态专业世界排名中列49位，英国QS排名中列101-150位。

Founded in 2003, the School of Environment, Beijing Normal University, formerly known as the Environmental Science Institute, came into being in 1983. The school is among the first Chinese academic platforms approved by the Ministry of Education to deal with environmental science research and education and is also recognized as a high-level talent development base. The School of Environment, Beijing Normal University has received the support of the first batch of the World Bank projects in the field of environment in China and carried out the first environmental impact assessment project in China. After years of development, the school has formed a Level 1 Environmental Science and Engineering subject system characterized by a complete range of disciplines, distinctive functions, and a focus on advantageous areas. Among these disciplines, Environmental Sciences has been included in the list of National Key Disciplines, while Environmental Engineering has been identified as a Beijing Key Discipline. In the latest subject ranking of the Ministry of Education, Environmental Science and Engineering first-level discipline was rated as A in the fourth round of national discipline evaluation and was in the “first-class universities and disciplines of the World” construction list. According to ESI statistics published

in November 2022, the Environment/Ecology subject of the School of Environment, Beijing Normal University ranked No. 23 (top 0.02%) in all 1596 universities evaluated in terms of the total number of papers and No. 63 (top 0.04%) in terms of total citations, thus becoming the first subject in our university to rank among ESI's top 1%. Our Environmental Science and Engineering subject was rated 49th in a world ranking of US News and 101-150th in that of QS.

国际交流与合作处简介

Introduction of Office of International Exchange & Cooperation, Beijing Normal University



北京师范大学国际交流与合作处是北京师范大学负责协调全校国际交流与合作事务的职能机构。主要负责执行国家外交和外事政策，落实学校国际化发展战略及管理全校涉外工作等，具体职能包括：组织、起草及制定全校国际交流合作工作的发展规划和方案；协调全校外事活动，为各部、院、系、中心的教学、科研和国际交流提供外事信息和联系服务；统筹管理校际国际交流与合作项目，包括交流计划的制定、合作协议的拟定、项目实施情况的后续跟踪与服务，推动项目有序发展；统筹规划本校学生的海外交流项目；协调管理外国留学生、交换生和交流学者的各项事宜，包括招生录取、教学管理、经费管理、国际校友联络等；协调管理来华外籍专家的聘请、报批、外事和生活服务等工作；审核报批国际会议；审批教职工和学生因公出国（境）工作，主要包括出国（境）留学、参加学术会议、讲学、合作研究、参赛等；及负责学校交办的其他国际交流与合作事务。

The Office of International Exchange and Cooperation at Beijing Normal University is responsible for coordinating matters pertaining to international communication and cooperation. The Office implements national policy related to foreign affairs, while managing specific school business involving foreign matters. The Office's main functions include organizing, drafting, and formulating plans and programs to develop international cooperation. Moreover, it also carries out and coordinates activities dealing with foreign affairs. It is specifically responsible for relaying information pertaining to foreign affairs and contacting international counterparts on behalf of various departments, parties involved in scientific research, and international academic programs at Beijing Normal University. The Office plans and runs intercollegiate programs dealing with international cooperation and exchange; specifically formulating plans for exchange, drafting cooperation contracts, providing follow-up service for international programs, promoting the orderly development of such programs, planning study abroad programs, etc. The Office makes arrangements and provides supervision for international students, exchange students and

visiting scholars; recruiting and enrolling such students, supervising their studies, arranging tuition payments, and contacting international alumna. It is also responsible for inviting foreign experts, meeting the experts' everyday needs, and submitting reports on those experts' work for approval by the authorities. Other key duties include verifying documents for international meetings and submitting reports about those meetings' proceedings, and endorsing international assignments for students and teachers (including studying abroad, attending international academic conferences, giving lectures abroad, engaging in collaborative research abroad, and competing in competitions). Finally, the Office also manages an assortment of international exchange affairs as delegated by Beijing Normal University.

The Office of Hong Kong, Macao, and Taiwan Affairs, as well as the Center for Global Education are also located within the Office of International Exchange and Cooperation.

中国高等教育学会生态文明教育研究分会简介

Introduction of Ecological Civilization Education Research
Branch of China Association of Higher Education



中国高等教育学会生态文明教育研究分会是在中国高等教育学会的大力支持和指导下，依托清华大学跨学科的综合优势以及清华大学生态文明研究中心在生态文明教育研究与实践探索方面的研究与实践经验，由清华大学牵头并联合其他高校共同发起，并于2019年3月30日正式成立。分会是从事生态文明教育研究和实践的全国性、专业性、非营利性的学术团体，由高等学校、先进企业等单位，以及高校、企业中从事生态文明的理论和实践工作者自愿组成。

分会主要关注高校生态文明教育教学改革和人才培养模式创新，组织开展生态文明教育和生态文明建设相关领域的会议及国际交流活动，推进高校与高校，以及高校与企业之间多种形式的研讨合作；并发挥智库作用，为各级教育行政部门提供相关的咨询、政策建议与决策支持服务。

The Ecological Civilization Education Research Branch of the China Association of Higher Education was founded on March 30, 2019, with great support and guidance from the China Association of Higher Education. It was conceptualized by Tsinghua University and organized through joint efforts with other higher education institutions on a voluntary basis. It leverages the advantageous inter-discipline functions of Tsinghua University and the research and practice experiences of the Ecological Civilization Research Center of Tsinghua University. The branch is a national non-profit academic group dealing specifically with ecological civilization education research and practices. Its members include organizations such as colleges, universities, and advanced enterprises as well as individuals devoted to theoretical and practical ecological civilization work in colleges, universities, and enterprises.

With a focus on ecological civilization education reforms and talent development model innovation, the branch organizes meetings and international exchange activities in the fields of ecological civilization education and construction, and promotes various forms of discussion and cooperation in the academic world and between academia and enterprises. It also acts as a think tank, providing

education administration authorities of different levels with information, policy consultation, and decision support services.

北京环境科学学会简介

Introduction of Beijing Society for Environmental Science



北京环境科学学会成立于1979年，是由环境科技工作者自愿联合发起成立，经北京市社会团体登记管理机关核准登记的非营利性学术社会团体，是北京市科学技术协会的组成部分。

学会汇聚了环境领域优秀的科学家、技术人员、管理专家和企业家，在传播科学思想、普及科学知识、弘扬科学精神、促进学术繁荣、开展学术交流、推动首都环境科学技术发展以及为社会经济发展、生态环境保护的决策管理提供咨询服务等方面，做了大量工作并取得可观成绩，被北京市民政局评定为4A级社会组织。

学会作为党和政府与广大环境科技工作者的纽带和桥梁作用，为推动首都生态环境保护和生态文明建设提供科技支撑与服务。学会始终将发展会员、提升服务会员能力、打造学术共同体视、服务与首都社会经济发展视为未来发展的重中之重，近年来在各工作领域取得了长足进步。

Beijing Society for Environmental Science was jointly founded by environment science & technology professionals on a voluntary basis in 1979. It is a non-profit social academic group approved and registered by social group registration and administration authorities in Beijing, and a part of the Beijing Association for Science & Technology.

The society has gathered outstanding scientists, technicians, management experts and entrepreneurs in the field of environment, and it has done a lot of work and made considerable achievements in disseminating scientific ideas, popularizing scientific knowledge, promoting scientific spirit, promoting academic prosperity, carrying out academic exchanges, promoting the development of environmental science and technology in the capital, and providing advisory services for decision-making and management of social and economic development and ecological environment protection, It was rated as a 4A social organization by Beijing Municipal Civil Affairs Bureau.

As the link and bridge between the Party, the government and the vast number of environmental science and technology workers, the society provides scientific and technological support and services for promoting ecological environment protection and ecological civilization construction in the capital. The society has always regarded the development of its members, the improvement of its ability to serve its members, the building of a common academic vision, and the service and socio-economic development of the capital as the top priorities for its future development. In recent years, the society has made considerable progress in various fields of work.

主办方 Organizer

北京师范大学
Beijing Normal University

北京环境科学学会
Beijing Society for Environmental Science

中国高等教育学会生态文明教育研究分会
Ecological Civilization Education & Research Branch
of China Association of Higher Education

承办方 Hosts

北京师范大学环境学院
School of Environment, Beijing Normal University

北京师范大学国际交流与合作处
Office of International Exchange & Cooperation,
Beijing Normal University

北京环境科学学会环境教育分会
Environmental Education Branch of Beijing Society
for Environmental Science

协办方 Other Co-Organizers

水环境模拟国家重点实验室
State Key Laboratory of Water Environment Simulation

水沙科学教育部重点实验室
Key Laboratory for Water and Sediment Science, Ministry of Education

黄河口湿地生态系统教育部野外科学观测研究站
Yellow River Estuary Wetland Ecological System Field Science Observation
and Research Station, Ministry of Education

中国环境科学学会环境地学分会
Chinese Society for Environmental Sciences Environmental Geography Branch

北京市流域环境生态修复与综合调控工程技术研究中心
Beijing Engineering Research Center for Watershed Environmental
Restoration & Integrated Ecological Regulation

北京市国际科技合作基地好氧颗粒污泥技术联合研究中心
Beijing International Science & Technology Cooperation Base Aerobic
Granular Sludge Technology Joint Research Center

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Xia Xinghui	Beijing Normal University	Professor
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	Wen Zongguo	Ecological Civilization Education & Research Branch of China Association of Higher Education	Secretary General/Professor
	Sun Tao	Beijing Normal University	Vice Dean/Professor
	Zhang Lixiao	Beijing Normal University	Vice Dean/Professor
	Feng Chenghong	Beijing Normal University	Vice Dean/Professor
	Li Xiwen	Beijing Normal University	Vice Secretary of the Party Committee of SoE
Contact	Su Yutao	Beijing Normal University	Secretary for International Students
	Su Liya	Beijing Normal University	Secretary for Graduate Students
	Li Pengpeng	Beijing Normal University	Secretary for Undergraduate Students
	Zhang Jun	Beijing Normal University	Administration Office Director
	Shen Xiaoyu	Beijing Normal University	Secretary

第五届国际学生环境生态论坛 主论坛议程


Agenda of The 5th International Students' Ecology and Environment Forum

形式：线上全球直播

Form: Live Broadcast Worldwide

日期：2022.12.3

Date: December 3, 2022

09: 00 - 17: 00	参会人员签到 Sign In 签到链接与二维码： Link and QR code to sign in: https://tp.wjx.top/vm/hEI3odM.aspx	
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日期：2022.12.4

Date: December 4, 2022

09: 30 - 09: 55	主办单位与特邀嘉宾致辞 Speeches by BNU representatives and Special Guest 北京师范大学环境学院院长沈珍瑶教授 Shen Zhenyao, Dean of School of Environment, BNU 北京师范大学国际交流与合作处处长吴玉军教授 Wu Yujun, Director of Office of International Exchange and Cooperation of BNU 中国高等教育学会生态文明教育研究会理事长、中国工程院院士贺克斌教授 He Kebin, Director General of Ecological Civilization Education & Research Branch of China Association of Higher Education, Fellow of Chinese Academy of Engineering 环球中国环境专家协会 (PACE) 会长徐袁副教授 Xu Yuan, President of the Professional Association for China's Environment (PACE) 北京环境科学学会环境教育分会主任委员、北京师范大学环境学院副院长徐琳瑜教授主持 Xu Linyu, Host of the Opening Ceremony, Chair of Environmental Education Branch of Beijing Society for Environmental Science, Vice Dean of School of Environment, BNU
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09: 55 - 10: 00	与会嘉宾线上合影 Group Photo Online
10: 00 - 11: 30	特邀嘉宾主旨报告 Keynote Speakers Presentation 加拿大工程院院士Ed McBean 教授 Dr. Edward McBean, Fellow of the Canadian Academy of Engineering 那不勒斯费德里科二世大学Carlo Gualtieri教授 Carlo Gualtieri, Professor of the University of Napoli Federico II.
11: 30 - 13: 30	午休 Lunch Break
13: 30 - 17: 30	线上分论坛 Online Sessions
17: 30 - 18: 00	闭幕颁奖仪式 Closing and Awards Ceremony

开幕式直播链接及二维码：

Link & QR code to live broadcast site of the opening ceremony:

<http://live.eventsmap.cn/watch/10892927>



论坛详情，敬请关注微信公众号与本届论坛微信群
 For details about the forum, please follow our WeChat public account and join the WeChat group ISEEF 2022

特邀致辞嘉宾简介

Profile of Special Guests



贺克斌

中国高等教育学会生态文明教育研究分会理事长，清华大学环境学院教授，碳中和研究院院长。中国工程院院士，中国工程院环境与轻纺学部主任，国家生态环境保护专家委员会副主任，国务院学位委员会环境科学与工程学科评议组召集人，教育部科技委环境学部主任，中国环境科学学会副理事长，全国环境科学与工程教学指导委员会主任，中国环境保护产业协会副会长。长期致力于大气复合污染特别是PM_{2.5}的研究，在大气颗粒物与复合污染识别、复杂源排放特征与多污染物协同控制、大气污染与温室气体协同控制方面开展深入细致的研究。入选爱斯唯尔2014-2021年“中国高被引学者”，2018年-2022年科睿唯安“全球高被引科学家”。

He Kebin is the Director General of Ecological Civilization Education & Research Branch of China Association of Higher Education, a professor of the School of Environment and dean of the Institute for Carbon Neutrality at Tsinghua University. He is a member of the Chinese Academy of Engineering, vice Chairman of the National Expert Committee for Ecology and Environmental Protection, and the Chairman of the National Teaching Steering Committee on Environmental Science and Engineering. He is focused on the research of complex air pollution. He conducted research on the fields of the identifying of particulate matters and complex air pollution, characterization of complicated emission sources and multi-pollutant control, and the coordinated control of air pollution and greenhouse gases. He was selected as Elsevier's Most Cited Chinese Researchers in 2014-2021 and Clarivate Global Highly Cited Researchers in 2018-2022.



沈珍瑶

北京师范大学环境学院院长，教授，博士生导师。国家杰出青年科学基金获得者，教育部长江学者特聘教授，享受政府特殊津贴专家，教育部新世纪优秀人才，第六届优秀环境科技工作者奖获得者（并获特别推荐奖）。主要研究方向为流域非点源污染模拟与控制、流域水质模拟与水环境效应、流域综合管理等。主持或作为主要研究人员参加60余项科研项目，包括973计划课题、科技部社会公益研究专项资金项目、国家自然科学基金重点项目、国家自然科学基金项目等。在国内外学术期刊发表学术论文360余篇，其中为SCI收录200余篇；出版专著及教材9部。获得过国家自然科学二等奖、国家科技进步二等奖、教育部科技进步一等奖、教育部自然科学一等奖、教育部技术发明一等奖。

Shen Zhenyao, Dean, Professor, Doctoral Supervisor, School of Environment, Beijing Normal University. Winner of the National Science Fund for Distinguished Young Scholars, Distinguished Professor of Changjiang Scholars of the Ministry of Education, expert enjoying special government allowance, outstanding talent of the Ministry of Education in the new century, and winner of the 6th Excellent Environmental Science and Technology Worker Award (and special recommendation award). The main research directions are non-point source pollution simulation and control, water quality simulation and water environment effects, and integrated management of river basins. Presided over or participated in more than 60 scientific research projects as a major researcher, including 973 Program topics, special fund projects for social public welfare research of the Ministry of Science and Technology, key projects of the National Natural Science Foundation of China, and projects of the National Natural Science Foundation of China. He has published more than 360 academic papers in domestic and foreign academic journals, including more than 200 papers included in SCI, and published 9 monographs and textbooks. He has won the second prize of the National Natural Science Award, the second prize of the National Science and Technology Progress Award, the first prize of the Ministry of Education for Science and Technology Progress, the first prize of the Ministry of Education for Natural Science, and the first prize of the Ministry of Education for Technological Invention



吴玉军

北京师范大学国际交流与合作处处长，港澳台办主任，兼任孔子学院管理中心主任；北京师范大学哲学学院教授、博士生导师；国家“万人计划”青年拔尖人才、北京新世纪社科理论人才、北京市优秀青年人才。主要从事西方政治哲学研究，出版《非确定性与现代人的生存》《现代性语境下的认同问题》等学术专著4部，译著《经验及其模式》，发表学术论文一百余篇。主持教育部人文社会科学研究基金课题“全球化时代青少年国家认同感的培育”。

Wu Yujun, Director of the Office of International Exchange and Cooperation, Director of the Office of Hong Kong, Macao, and Taiwan Affairs, Director of the Management Center of Confucius Institute, Beijing Normal University, and professor and doctoral supervisor of Philosophy School, Beijing Normal University. Dealing mainly with researches on political philosophy, he has published four academic monographs including *Uncertainty and Subsistence of Modern Humans and Identity Issues in Modern Contexts*, and over one hundred academic papers. He is responsible for organizing a research subject titled “Development of National Identity among the Youth in the Age of Globalization” under Humanities and Social Sciences Research Foundation of Ministry of Education.



徐袁

自2010年8月起在香港中文大学地理与资源管理学系历任助理教授和副教授，同时还在环境、能源和可持续发展研究所主持环境政策和管治项目以及目前担任环球中国环境专家协会（PACE）会长。他的研究关注能源、环境和气候政策及战略，涵盖污染物减排、能源转型、产业发展和创新。加入港中大之前，他在麻省理工学院产业业绩研究中心从事博士后研究，2010年初从普林斯顿大学威尔逊公共与国际事务学院取得博士学位，2004年从北京大学大气科学系取得硕士学位，以及2001年分别在北大地球物理系和中国经济研究中心取得理学和经济学两个学士学位。

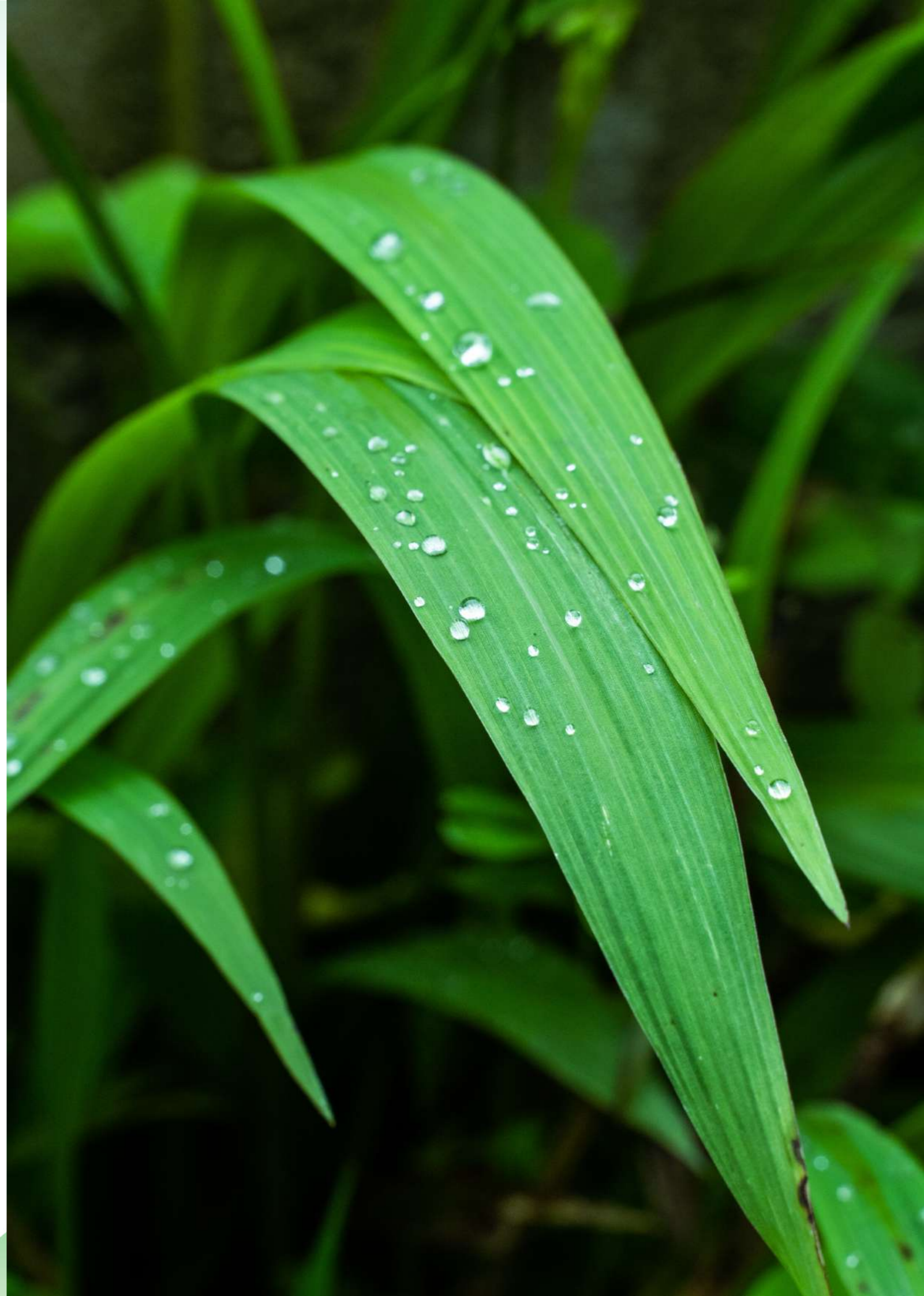
XU Yuan is an associate professor in the Department of Geography and Resource Management and leads the Environmental Policy and Governance Programme in the Institute of Environment, Energy and Sustainability, The Chinese University of Hong Kong. He is also currently serving as the President of the Professional Association for China's Environment (PACE). His research focuses on energy/environment/climate policy, governance and strategy, covering emission mitigation, energy transition, industrial development and innovation. Before joining CUHK in August 2010, he received a Ph.D. degree in public policy from the Woodrow Wilson School of Public and International Affairs, Princeton University (2010) and was a postdoctoral research associate in the Industrial Performance Center, Massachusetts Institute of Technology. He also holds an M.S. degree in climatology (2004), a B.S. degree in atmospheric sciences (2001) and a bachelor's degree in economics (2001), all from Peking University.



徐琳瑜

北京环境科学学会理事，环境教育分会主任委员，北京师范大学环境学院教学副院长，教授，博士生导师。2009-2010德国亚琛工业大学高级访问学者。获国家科技进步二等奖，中国环境保护产业协会-环境技术进步二等奖，北京市高等学校青年教学名师奖，北京市级虚拟仿真实验教学项目，北京市教学成果一等奖，高等学校科学研究优秀成果（科学技术）一等奖，入选教育部新世纪优秀人才计划。主持或完成国家重点研发计划生态专项课题1项，国家科技支撑课题2项，国家自然科学基金3项，省部级项目10余项。出版国家精品教材2部，专著8部，参与编写英文专著2部。在国内外期刊发表科技论文140余篇。申请国家发明专利4项，获软件著作权4件。

Xu Linyu board member of Beijing Society for Environmental Science, Chair of Environmental Education Branch of Beijing Society for Environmental Science, vice dean, professor, and doctoral supervisor of School of Environment, Beijing Normal University. As a senior visiting scholar, she went to the Aachen University of Technology in 2009-2010. She won the second prize of the National Science and Technology Progress Award, the second prize of the China Environmental Protection Industry Association - Environmental Technology Progress Award, the Beijing Young Teacher Award for Colleges and Universities, the Beijing municipal virtual simulation experiment teaching project, the first prize of Beijing teaching achievements, the first prize of excellent achievements in scientific research (science and technology) of colleges and universities, and was selected into the New Century Excellent Talents Program of the Ministry of Education. She has led or completed 1 national key research and development plan ecological special project, 2 national science and technology support projects, 3 national natural science funds, and more than 10 provincial and ministerial projects. So far, she has published 2 national first-class textbooks and 8 monographs and co-authored 2 English monographs. She has published more than 140 scientific papers in core domestic and foreign journals and won 4 national invention patents and 4 software copyrights.



特邀主题报告演讲嘉宾简介

Profile of Keynote Speakers



报告题目: 水的可持续性——21世纪最重要的挑战之一

报告人: Ed McBean 教授

基本信息:

Edward McBean 教授，1968年获得不列颠哥伦比亚大学（UBC）学士学位，1973年以优异成绩获得麻省理工学院（MIT）博士学位。2003年被授予加拿大水安全和供应一级研究主席。Edward McBean在圭尔夫大学任教直到2017年，之后则成为圭尔夫大学水安全研究领导讲座教授。由于在水安全领域做出的贡献杰出，Edward McBean教授当选加拿大工程院院士。此外他还获得了加拿大工程学院颁发的K. Y. Lo奖、Julian C. Smith奖、安大略省专业工程师颁发的研究与开发奖等。特色研究成果主要包括归趋与转换模型在水资源中的应用、水系统的脆弱性评价、废物管理和温室气体排放方面，主要是通过数据统计、环境中化学物质和病原体的归趋与转化分析以及风险评价等方法来确定供水风险的特征及机理。出版学术专著3部，在学术期刊上发表了400多篇论文，在世界各地的科学会议上发表了500多篇论文，参与七十多个国家的水安全问题研究。

Title: Sustainability of Water, One of the Most Important Challenges for the 21st Century

Speaker: Prof. Ed McBean

Introduction:

Dr. Edward McBean received his BSc from University of British Columbia (UBC) in 1968, and his PhD (Magna Cum Laude) from Massachusetts Institute of Technology (MIT) in 1973. In 2003, McBean was awarded a Tier 1 Canada Research Chair in Water Security and Supply, which he held at the University of Guelph until 2017. Subsequently, he has been University of Guelph Research Leadership Chair Professor, Water Security. Ed is also a Fellow of the Canadian Academy of Engineering. The honour recognizes individuals who perform beyond normal engineering practice and contribute in exemplary ways towards their respective disciplinary fields, and to the wider community. Ed is also a recipient of numerous additional awards, including the K. Y. Lo Award from the Engineering Institute of Canada for demonstrating Canadian expertise to the world, the Julian C. Smith from the Engineering Institute of Canada for achievement in the development of Canada, the Research and Development Award from the Professional Engineers of Ontario, etc. In that context, he relies upon statistical interpretation of data, fate and transport of chemicals and pathogens in the environment, and risk assessment, to determine how features of water supply risk may arise. Hence, there are dimensions of a number of features including climate change and fate and transport modeling as applied to water resources phenomena. In addition to the above, Ed also has extensive experience in waste management, and greenhouse gas emissions as contributory to global climate change. Ed has published three books, edited 17, published more than 400 papers in the refereed journals and presented more than 500 papers at technical meetings around the world. Ed has been involved in research in water security issues in more than seventy countries.

特邀主题报告演讲嘉宾简介

Profile of Keynote Speakers



报告题目: 全球变化下的巨型河流:
来自亚马逊、刚果和奥里诺科河的实地观察

报告人: Carlo Gualtieri 教授

基本信息:

Carlo Gualtieri 教授，那不勒斯费德里科二世大学工程与建筑结构系教授，环境建模和软件 (Elsevier) 编委会成员，环境流体力学 (Springer) 编委会成员，国际环境建模与软件学会 (iEMS) 会员，国际水环境工程与研究协会 (IAHR) 成员。35种ISI期刊的审稿人，担任美国、澳大利亚、西班牙、伊朗等国家的博士论文顾问和外部评审员。发表学术论文149篇，包括33篇科研论文，76篇会议论文，以及24篇与河流水力学和环境流体力学计算相关的参考论文。出版多部水力学相关著作，参与组织了环境流体力学会议，研究主要涉及环境河流水力学、环境流体力学、两相流实验、供水网络管理与环境风险评价等领域。

Title: Mega-rivers under the global change: some field observations from Amazon, Congo and Orinoco

Speaker: Prof. Carlo Gualtieri

Introduction:

Carlo Gualtieri, Professor in Environmental Hydraulics at the Department of Structures for Engineering and Architecture (DIST) of the University of Napoli Federico II. Prof. Gualtieri has 149 peer-reviewed scientific papers, including 33 publications in scientific journals, 76 publications in conference proceedings, and 24 other refereed publications in subjects related to environmental and fluvial hydraulics and computational environmental fluid mechanics, with over 100 papers, experimental investigations of two-phase flows, water supply networks management and environmental risk. He is also co-author of 2 textbooks on Hydraulics and author of a textbook on Environmental Hydraulics. He co-edited the books Fluid Mechanics of Environmental Interfaces (Taylor & Francis, 2008, 2012 2nd Edition) and Advances in Environmental Fluid Mechanics (World Scientific, 2010). He is since 2006 member of the Editorial Board of Environmental Modelling and Software (Elsevier) and since 2008 of Environmental Fluid Mechanics (Springer). He contributed as Reviewer for more than 35 ISI Journals and as advisor and external examiner for Ph.D. thesis in foreign countries (Australia, Spain, Iran, The Netherlands, USA). since 2004, He co-organized the Environmental Fluid Mechanics session at the International Environmental Modelling & Software Society (iEMSs) biennial conferences. He is also active as expert reviewer for research funding agencies in several countries. He is a member of the International Association for Hydro-Environment Engineering and Research (IAHR) and of the iEMSs.

December 4, 2022, Sunday Afternoon

Session 1 Carbon Peak Carbon Neutrality & Green Finance and Environmental Governance		
腾讯会议号: 405-200-098 Tencent Meeting No. 405-200-098		
TIME	Lecture & Institute	Title
13:30-13:40	Welcome Speech	
13:40-13:55	Alsamawi Amjad Beijing Technology and Business University 北京工商大学	The Impact of Green Economy on Economic Growth of BRI Developing Countries
13:55-14:10	Weilliam Chu Beijing Normal University 北京师范大学	Identifying Low Cost Opportunities for Chinese Energy Sectors under NDC through International Bilateral Emissions Trading
14:10-14:25	Lv Fucheng Beijing Normal University 北京师范大学	Assessment of Forest Ecosystem Carbon Balance in China ased on FORCCHN Model
14:25-14:40	Chen Na Beijing Normal University 北京师范大学	Modeling and Simulation of Carbon Peak Policy Coordination in Guangdong-Hong Kong-Macao Greater Bay Area based on Multi-Agent
14:40-14:55	Guo Zhi Beijing Normal University 北京师范大学	Integrated Assessment of Low-Carbon Transformation under the Carbon Neutrality: Case Study of Transport Sector in China
14:55-15:10	Yang Na Beijing Normal University 北京师范大学	Hybrid Life Cycle Assessment of Wind Power Sector in China: Evolving Trend and Driving Factors
15:10-15:25	Ke Yuhan Guangdong University of Technology 广东工业大学	Estimate Physical and Embodied Land Use and Carbon Emissions in Megacity: A Case of Shenzhen, China
15:25-15:40	Doorgeshwaree Jaggeshar Beijing Normal University 北京师范大学	An OSeMOSYS Optimization of the Energy Transition Pathway in the Electricity Sector for the Insular Island, Mauritius

15:40-15:55	Zaenhaer Duman Beijing Normal University 北京师范大学	Spatiotemporal Patterns and Driving Factors of Carbon Emissions and Air Pollution at the City Level in China
15:55-16:10	Zhang Liying Beijing Normal University 北京师范大学	Optimization of Peak Reaching Path of Coal Electricity Output to Achieve China's 2060 Carbon Neutrality Goal: A Modelling Study
16:10-16:25	Wen Zhixin Beijing University of Civil Engineering and Architecture 北京建筑大学	Quantifying Greenhouse Gas Emissions Reduction Potential of Domestic Waste Classification System in Beijing
16:25-16:40	Zhang Jianpeng University of Chinese Academy of Sciences 中国科学院大学	Carbon Decoupling Trends and Pathways of the Belt and Road Region from a Global Perspective

December 4, 2022, Sunday Afternoon

Session 2 Green High-Quality Development & Green Finance and Environmental Governance		
腾讯会议号: 938-104-786 Tencent Meeting No. 938-104-786		
TIME	Lecture & Institute	Title
13:30-13:40	Welcome Speech	
13:40-13:55	Li Xinqing Beijing Normal University 北京师范大学	Resilience Analysis of Urban Food-Energy-Water (FEW) Network: A Case Study of Beijing
13:55-14:10	Wang Yongyang Guangdong University of Technology 广东工业大学	Multi-Attributes Quantitative Framework to Evaluate Urban Ecological Resilience: Broadening Understanding through Multiple Perspectives
14:10-14:25	Zhang Zijie Beijing Normal University 北京师范大学	Revealing Current Spatial Distribution of Water Withdrawal and Consumption and Water Stress by Coal Power Generation in China based on High Spatial Resolution
14:25-14:40	Mi Shiyu The Hong Kong University of Science and Technology 香港科技大学	An Energy-LCA Analysis of Environmental Sustainability in Urban Agriculture: Evidence from Food-Energy-Water-Carbon Nexus Perspective Area based on Multi-Agent
14:40-14:55	Wu Wenhao Beijing Normal University 北京师范大学	How Much Carbon Storage will the Ecological Space Leave in a Rapid Urbanization Area? Scenario Analysis from Beijing-Tianjin-Hebei Urban Agglomeration
14:55-15:10	Usman Abdullahi Beijing Normal University 北京师范大学	Land Use/Land Cover Transformation Trajectories in Relation to their Driving Processes and Impacts on Ecosystem Services in Kaduna River Basin, Nigeria
15:10-15:25	Muhammad Israr Khan Kohat University Of Science and Technology 科哈特理工大学	Comparative Analysis of the Cultivable Land Responsible for Higher Global Warming Potential between Paddy and Upland Crops under Higher Nitrogen Fertilization
15:25-15:40	Bai Chunyue Beijing Normal University 北京师范大学	Heating Choices and Residential Willingness to Pay for Clean Heating: Evidence from a Household Survey in Rural China

15:40-15:55	Liao Danqi Beijing Normal University 北京师范大学	Sustainable Development Path in China's Poverty Alleviation within Planetary Boundaries
15:55-16:10	Hou Jiaqi Beijing Normal University 北京师范大学	Potential Role of Rural Constructed Wetlands in Shaping Food-Water-Energy Nexus
16:10-16:25	Yuan Qiuling Beijing Normal University 北京师范大学	A Method to Analyze the Food-Water-Energy Nexus for Data-Sparse cities: A Comparison of Green Roofs in São José dos Campos, Brazil and Johannesburg, South Africa
16:25-16:40	Sun Yutong Beijing Normal University 北京师范大学	Tracking Urban Consumption-Based Carbon Emissions of Typical Chinese Megacities in the Multi-Scale Economics

December 4, 2022, Sunday Afternoon

Session 3 Environmental Pollution Prevention and Control and Ecological Restoration①

腾讯会议号: 740-137-173 Tencent Meeting No. 740-137-173

TIME	Lecture & Institute	Title
13:30-13:40	Welcome Speech	
13:40-13:55	Muhammad Bilal University of Engineering and Technology Peshawar Pakistan 白沙瓦工程与技术大学	Enhanced Removal of Cadmium from Water Using Bio-Sorbents Synthesized from Branches and Leaves of Capparis decidua and Ziziphus mauritiana
13:55-14:10	Gao Zhimin Hohai University 河海大学	Design Strategies of Carbon-Based Single-Atom Catalysts for Selective Electrochemical Hydrogen Peroxide Production
14:10-14:25	Tian Zhenjun Beijing Normal University 北京师范大学	Food Waste Fermentation Liquid Addition as Carbon Source for Low C/N Municipal Wastewater Treatment: Bench-Scale Performance and Microbial Response
14:25-14:40	Wang Chengxian Tongji University 同济大学	Enhanced Settling Performance of Activated Sludge by Composite Micron Powder Carrier with Implications on High-Loading Treatment of Low-Strength Sewage
14:40-14:55	Zhao Qianming Shanghai Ocean University 上海海洋大学	Allelopathic Inhibition and Mechanism of Quercetin on Microcystis aeruginosa
14:55-15:10	Li Jiannan Harbin Institute of Technology 哈尔滨工业大学	Enhanced Denitrification Effects by Microbial Electrochemical System Coupled with Optimized Three-Dimensional Corncob Filled Anode
15:10-15:25	Izaz Ali Shah Beijing Normal University 北京师范大学	Effects of Water Matrix on the Rejection of Neutral Pharmaceutically Active Compound by Thin-Film Composite Nanofiltration and Reverse Osmosis Membranes
15:25-15:40	Zhang Jianxu Chang'an University 长安大学	Fabrication of Magnetically Recyclable Fe ₃ O ₄ /BiOBr/BiOI Nanocomposite with Z-Scheme Heterojunction for Enhanced Photocatalytic Degradation and Mechanism Insight

15:40-15:55	Yao Guanglei Tongji University 同济大学	La(OH) ₃ Synergistically Reinforced Hierarchical MoS ₂ @Cellulose-Lignin Composite Membranes for Tellurium (IV) Separation in Wastewater
15:55-16:10	Jia Zhichao Tianjin University 天津大学	Highly Selective Hydrodeoxygenation of Lignin to Naphthenes over Three-Dimensional Flower-Like Ni ₂ P Derived from Hydrotalcite
16:10-16:25	Gan Fengli Sichuan University 四川大学	Self-Assembled Macroporous Zeolite Monolith Catalyst for the Hydrodeoxygenation of Bio-Oil
16:25-16:40	Shi Shengnan Southeast University 东南大学	Building Radiative Cooler with Synergistically Fire Resistance Based on 2D/3D Cellulose/LDH Nanosheets Film for Effective Energy Conservation

分论坛议程

Agenda of Panel Sessions

December 4, 2022, Sunday Afternoon

Session 4 Environmental Pollution Prevention and Control and Ecological Restoration②

腾讯会议号: 661-216-336 Tencent Meeting No. 661-216-336

TIME	Lecture & Institute	Title
13:30-13:40	Welcome Speech	
13:40-13:55	Wu Zihao Guangdong University of Technology 广东工业大学	Using Linear Alkylbenzenes (LABs) to Identify Anthropogenic Contributions to Aquatic Pollution in Complex Urban Ecosystem: A Case Study of Pearl River Delta, China
13:55-14:10	Li Dianpeng Nanjing University 南京大学	Spatiotemporal Characteristics and Ecological Risks of Heavy Metals in Lake Sediments of Caohai, China: An Integrated Analysis
14:10-14:25	Zhou Rixiu Nanjing University 南京大	Occurrence, Risk Assessment, and Sources of PAHs and OCPs in the Sediment of a Plateau Lake (Caohai Lake) in China
14:25-14:40	Mi Shiyu The Hong Kong University of Science and Technology 香港科技大学	Gradient of Suspended Particulate Matter Hastens the Multi-Interface Partition Dynamics of Atrazine and its Degradation Products
14:40-14:55	Roberto Xavier Supe Tulcan Beijing Normal University 北京师范大学	Sediment Flux and Coastal Development Alter Historical Vanadium Concentrations in Bays and Estuaries of China
14:55-15:10	Li Chaoran Hohai University 河海大学	Fungi Play an Important Role in the Biodiversity-Ecosystem-Function Relationship of Intermittent River Biofilm
15:10-15:25	Christian Miguel Huarez Yarleque Beijing Normal University 北京师范大学	Application of Debris Flow Simulations on the Early Warning System Development: China and Peru's Practical Cases
15:25-15:40	Muhammad Yousuf Jat Baloch Jilin University 吉林大学	Evolution Mechanism of Arsenic Enrichment in Groundwater and Associated Health Risks

15:40-15:55	Liu Jia Tongji University 同济大学	Enhanced Degradation of Antibiotic by Peroxydisulfate Catalysis with CuO@CNT: Simultaneous $1O_2$ Oxidation and Electron-Transfer Regime
15:55-16:10	Shan Shuang Dalian Maritime University 大连海事大学	Long-Term Influence of P-Chloro-M-Dimethyl Phenol (PCMX) on Anaerobic Microbial Consortia: Performance, Microbial Communities and Network Analysis
16:10-16:25	Guo Yuchao Jiangsu University 江苏大学	Acrylamide Aggravated Liver Injury by Activating Endoplasmic Reticulum Stress in Female Mice with Diabetes
16:25-16:40	Sun Wei Hohai University 河海大学	Effects of Influent Nitrogen Composition on Water Purification and Greenhouse Gas Emissions in Surface-Flow Constructed Wetland with Micro-Polluted Water

分论坛议程

Agenda of Panel Sessions

December 4, 2022, Sunday Afternoon

Session 5 Environmental Pollution Prevention and Control and Ecological Restoration^③

腾讯会议号: 513-918-948 Tencent Meeting No. 513-918-948

TIME	Lecture & Institute	Title
13:30-13:40	Welcome Speech	
13:40-13:55	Wang Shu Tianjin University 天津大学	Geobacter Autogenically Secretes Fulvic Acid to Facilitate the Dissimilated Iron Reduction and Vivianite Recovery
13:55-14:10	Li Kang Peking University 北京大学	The Plastisphere of Biodegradable and Conventional Microplastics from Residues Exhibit Distinct Microbial Structure, Network and Function in Plastic-Mulching Farmland
14:10-14:25	Lei Jilin China Agricultural University 中国农业大学	Nitrification Inhibitor DMPP Reduces Nitrous Oxide Emissions from the Biogas Slurry Amended Soil
14:25-14:40	Wang Huihui Beijing Normal University 北京师范大学	Greening or Browning? The Macro Variation and Drivers of Different Vegetation Types on the Qinghai-Tibetan Plateau from 2000 to 2021
14:40-14:55	Zhang Xia Shanghai Jiao Tong University 上海交通大学	Closed Sustainable Kitchen Waste Disposal Loop: Suitability of the Composts for Lettuce Cultivation
14:55-15:10	Hong Che Huazhong University of Science and Technology 华中科技大学	Biobleaching of Rare Earth Elements from Phosphogypsum using the Two-Step Co-Culture of Acidithiobacillus ferrooxidans and Acidiphilium cryptum
15:10-15:25	Chen Yalan Beijing Normal University 北京师范大学	Photodegradation of Pyrogenic Dissolved Organic Matter Increases Bioavailability: Novel Insight into Bioalteration, Microbial Community Succession, and C and N Dynamics
15:25-15:40	Wang Shuxin Shaanxi University of Science & Technology 陕西科技大学	Study on the Toxicity of Biochar Dissolved Organic Matter to Tetracycline Antibiotics

15:40-15:55	Li Cuilan East China Normal University 华东师范大学	Occurrence Characteristics of Typical Metal Nanoparticles in Campus Indoor Dust
15:55-16:10	Liu Jiawei Tongji University 同济大学	Constructing an S-Scheme CuBi ₂ O ₄ /Bi ₄ O ₅ I ₂ Heterojunction for Light Emitting Diode-Driven Pollutant Degradation and Bacterial Inactivation
16:10-16:25	Chen Yannan Jiangsu University 江苏大学	Trash to Treasure: Recovery of Valuable Tellurium from Photovoltaic Waste
16:25-16:40	Jiang Yuhui Jiangsu University 江苏大学	Converting Wastes to Resource: Utilization of Aluminum Containing Sludge for Porous Adsorbent Preparation and Application for Cadmium Removal

分论坛议程

Agenda of Panel Sessions

December 4, 2022, Sunday Afternoon

Session 6 Environmental Pollution Prevention and Control and Ecological Restoration④

腾讯会议号: 759-675-308 Tencent Meeting No. 759-675-308

TIME	Lecture & Institute	Title
13:30-13:40	Welcome Speech	
13:40-13:55	Gong Jiaqiong Beijing Normal University 北京师范大学	Heavy Metal Deposition Dynamics under Improved Vegetation in the Middle Reach of the Yangtze River
13:55-14:10	Michael Jordan Twumasi-Ankrah Beijing Normal University 北京师范大学	Coupling Analysis of Ecosystem Services and Livelihood Sustainability in Shanxi Province, China
14:10-14:25	Liang Yiqiao Guangxi Minzu University 广西民族大学	Spatiotemporal Patterns and Driving Factors of Tourism Ecological Security in Guangxi, China
14:25-14:40	Cristhian David Chicaiza Ortiz Shanghai Jiao Tong University 上海交通大学	A Review on the Methane and Hydrogen Production Enhanced by Iron-Based Additives
14:40-14:55	Michael Asiedu Kumi Beijing Normal University 北京师范大学	Conservation or Deforestation: Households Attitudinal Analysis of Forest Resources for Sustainable Development of the Tain (II) Forest Reserve, Ghana.
14:55-15:10	Cai Jianying Beijing Normal University 北京师范大学	Variation Characteristics and Influencing Factors of Water Resources Carrying Capacity in Baiyangdian Lake, North China
15:10-15:25	Frederick Kwame Yeboah Beijing Normal University 北京师范大学	Embodied Environmental Footprints in Agricultural Commodity Trade: A Cradle-to-Gate Review
15:25-15:40	Anam Ashraf Tsinghua University 清华大学	Spatial Assessment of Ecosystem Health in Langfang Region at Multiple Gradients Based on Pressure-State-Response Framework

15:40-15:55	Amer Ebrahim Abbas Abdullah Abbas Lanzhou University 兰州大学	Exploring the Link Between Natural Resources and CO2 Emissions: New Evidence from GMM and FMOLS on the Case of GCC Countries
15:55-16:10	Ji Tao Imperial College London 帝国理工学院	Water Environmental Protection in the Yangtze River Economic Belt: Quantitative Evaluation Practice of Discharge Reduction Effect Inactivation
16:10-16:25	Wei Zhen Beijing Normal University 北京师范大学	Spatial Distribution of Nutrient Loads and Thresholds in Large Shallow Lakes: The Case of Chaohu Lake, China
16:25-16:40	Liu Huizi Beijing Normal University 北京师范大学	Effects of Desertification Combatting Programmes with Dual Perspectives of Environment and Enrichment: A Case Study in Gonghe Basin, China

分论坛负责人及志愿者 Session Chairs & Volunteers

分论坛 Sessions	分论坛评委 Session Chairs	志愿者 Volunteer	志愿者联络方式 Contact Info	腾讯会议号 Tencent Meeting No.
碳达峰碳中和绿色金融与环境治理 Carbon Peak Carbon Neutrality & Green Finance and Environmental Governance	Zhan Jinyan 战金艳 Meng Fanxin 孟凡鑫	Wu Wenhao 吴文昊	18720415396	405-200-098
绿色高质量发展和绿色金融与环境治理 Green High-Quality Development & Green Finance and Environmental Governance	MaoXianqiang 毛显强 Tian Xin 田欣	He Jingyan 贺敬妍	18600635866	938-104-786
环境污染防控与生态修复① Environmental Pollution Prevention and Control and Ecological Restoration①	Li Anjie 李安婕 Yang Yu 杨禹	Li Yuxuan 李雨萱	18501007686	740-137-173
环境污染防控与生态修复② Environmental Pollution Prevention and Control and Ecological Restoration②	Guo Xuejun 郭学军 Liu Shaoda 刘少达	Ding Hang 丁航	18733211024	661-216-336
环境污染防控与生态修复③ Environmental Pollution Prevention and Control and Ecological Restoration③	Chen Jing 陈静 Liu Xingang 刘新罡	Gao Bowen 高博闻	13521579067	513-918-948
环境污染防控与生态修复④ Environmental Pollution Prevention and Control and Ecological Restoration④	Li Yingxia 李迎霞 Shi Jianbin 石建斌	Gao Zijie 高子捷	15158306670	759-675-308

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