



7th RAQM

The 7th International Workshop on Regional Air Quality
Management in Rapidly Developing Economic Regions
第七届经济快速发展地区空气质量管理国际学术研讨会

Theme: Win-win for Air Quality Improvement and Climate Change Response
主题：空气质量改善与气候变化应对共进共赢

CONFERENCE MANUAL

会议手册

GUANGZHOU, CHINA

2024.5.29-5.31

主办单位

香港科技大学(广州)

香港科技大学

协办单位

香港合资格环境专业人员学会



香港科技大学 (广州)
THE HONG KONG
UNIVERSITY OF SCIENCE AND
TECHNOLOGY (GUANGZHOU)

功能枢纽
FUNCTION HUB
地球与海洋大气科学学城
Earth, Ocean and Atmospheric Sciences Thrust



一楼: 心连心餐厅-早餐
二楼: 逸林餐厅
三楼: 逸林餐厅

分会场S1: 演讲厅C
Venue 1: Lecture Hall C
闭幕式/开幕式: 演讲厅A
Opening/Closing Ceremony: Lecture Hall A

分会场S-2: E1-101
分会场S-3/shipping: E1-102
分会场S-4/ Youth Summit: E1-201
分会场S-5: E1-122
分会场S-6/S-7: E1-134

活动中心C2-102/103: Lunch

报到处: 活动中心 C2
Registration Point: Activity Center C2

校内住宿: 6C/5C
Accommodation 6C/5C

主入口: 2号门
Main Entrance: Gate 2

Welcome Remarks

Between spring and summer nature flourishes in its verdant splendor. It is with great pleasure that we gather for the 7th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions (RAQM) in Nansha, Guangzhou, the heart of the Guangdong-Hong Kong-Macao Greater Bay Area. On behalf of the Hong Kong University of Science and Technology (Guangzhou) and the Hong Kong University of Science and Technology—the main organizers of this event—we warmly welcome our esteemed guests, scholars, and delegates from China and abroad. We would also like to extend our deepest gratitude to all our friends who have contributed to the success of the RAQM Workshop over the years.

The seventh edition of RAQM Workshop boasts a diverse program, including keynote presentations, oral sessions, a Zero-Carbon Shipping Forum, a Youth Summit, and a poster session, making it a vibrant confluence of ideas and scholarly discussions. We anticipate that the outcomes of this Workshop will bolster our nation's capacity, particularly within the Guangdong-Hong Kong-Macao Greater Bay Area, to coordinate air pollution control and climate change responses, leveraging technology for ongoing air quality improvement and fostering innovation for climate change mitigation and adaptation.

This is the first occasion that the Hong Kong University of Science and Technology (Guangzhou) has had the honor of hosting the RAQM Workshop. Since our inauguration in September 2022, we have embraced the responsibility of advancing national higher education reforms, integrating educational resources from the Mainland and Hong Kong, and supporting the development of the Greater Bay Area. With a philosophy of “One HKUST, Complementary Campuses”, we are committed to interdisciplinary collaborations and the advancement of emerging fields. Environmental protection and sustainable development are key research foci of the university and an important area of interdisciplinary research. The University proudly features the Thrust of Earth, Ocean and Atmospheric Science, the Thrust of Sustainable Energy and Environment, and the Thrust of Carbon Neutrality and Climate Change. Our comprehensive research endeavors address a broad spectrum of environmental and sustainability issues, contributing significantly to the creation of “Beautiful Bay Areas” and “Beautiful China.”

While our campus continues to grow and evolve, we cordially invite all attendees to explore our facilities and share your invaluable insights on our development during the conference breaks.

In closing, we extend heartfelt thanks to all participants, including our guests, co-organizers, sponsors, and our diligent conference staff. May the 7th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions achieve resounding success.

Organizing Committee of the 7th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions

May 29, 2024

欢迎词

在这春去夏至、万木葱茏的美好季节，第七届经济快速发展地区空气质量改善（RAQM）国际学术研讨会在广州南沙这片粤港澳大湾区建设的热土盛大启幕。在此，谨代表会议主办单位香港科技大学（广州）和香港科技大学对来自海内外的嘉宾、专家学者和会议代表表示诚挚欢迎，对长期以来支持 RAQM 学术研讨会的各界朋友表示衷心感谢！

自 2007 年创立之日起，RAQM 学术研讨会始终秉持“有特色、高水平、以科学为驱动、以政策为导向”的办会宗旨，立足粤港澳，放眼全世界。为贯彻落实党中央、国务院关于协同推进减污降碳的部署要求，本届研讨会以“空气质量改善与气候变化应对共进共赢”为主题，紧跟大气环境科学、环境健康学、环境经济学等学科发展前沿，旨在搭建国内外专家学者、决策者、业界同仁的合作交流平台，深入探讨在新时代、新形势下推进我国绿色低碳发展、打造粤港澳国际一流美丽湾区和空气质量改善先行示范区、加快实现以高水平生态环境保护支撑高质量发展所亟需的科技与政策问题，促进大气污染治理与气候变化协同应对领域最新学术成果的高效转化。大会设主旨报告、分会场报告、零碳船运论坛、青年峰会、墙报展示等环节，形式多样、精彩纷呈，是一场思想观点交流与碰撞的学术盛宴。期待本届研讨会的举行为我国特别是粤港澳大湾区增强大气污染与气候变化协同应对的能力提供系统科学方案，以科技助力空气质量持续改善、以创新增强气候变化减缓与适应能力，促进我国早日实现大气污染治理与气候变化应对共进共赢。

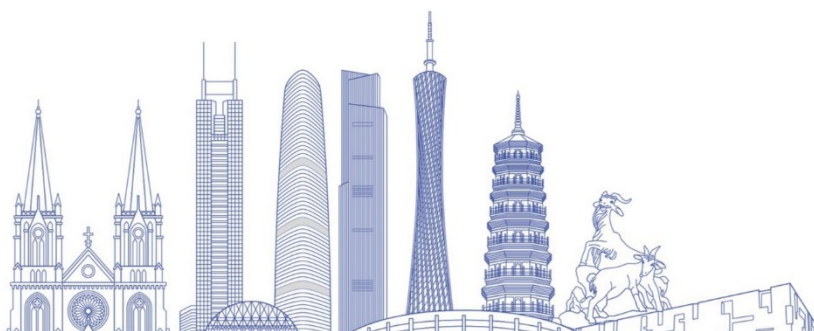
本次会议是香港科技大学（广州）首次主办 RAQM 学术研讨会。港科大（广州）于 2022 年 9 月正式创校，学校以推动国家高等教育综合改革、促进内地与香港教育融合发展、服务粤港澳大湾区建设为己任，在“港科大一体，双校互补”的办学理念下，大力推动学科交叉融合，积极发展新兴学科和前沿学科。环境与可持续发展是学校重点关注的发展方向，也是学科交叉的重要领域。学校设有地球与海洋大气科学学域、可持续环境与能源学域、碳中和与气候变化学域等机构，全方位多角度对环境与可持续发展问题开展研究，为“美丽湾区”、“美丽中国”建设做出贡献。学校正在积极建设中，欢迎各位来宾在会议闲暇之余到校园各处走一走看一看，对学校的发展多提宝贵意见。

最后，再次对参加本次会议的所有嘉宾、代表、协办单位、赞助单位以及付出辛劳的会务工作人员表示衷心感谢！预祝第七届经济快速发展地区空气质量改善国际学术研讨会取得圆满成功！

第七届经济快速发展地区空气质量改善国际学术研讨会组委会
2024 年 5 月 29 日

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The 7th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions

Theme: Win-win for Air Quality Improvement and Climate Change Response

29-31 May, 2024
Guangzhou, China

Since the promulgation of China's Air Pollution Prevention and Control Action Plan in 2013, the air quality in major city clusters of China have achieved remarkable improvements. However, there remains a significant gap between the current air quality and the guidelines recommended by the World Health Organization, necessitating a persistent and prolonged effort. In recent years, the increased frequency of extreme weather events driven by global climate change has had profound and complex impacts on the economic, social, and ecological development of nations worldwide. Climate change response not only presents new opportunities but also imposes new requirements for the sustained improvement of air quality.

Climate change response has become one of the extensively concerned public issues globally. The management of air pollution needs to be closely integrated with climate change response to further enhance their synergistic effects. This integration requires a systemic approach that considers the coupling effects of environment, climate, energy, and health by transitioning from end-of-pipe control to comprehensive "source-process-end" strategies, so as to achieve synergies in pollution reduction and carbon mitigation, to enhance the capacity for climate change mitigation and adaptation, and to strengthen climate resilience, thus ultimately achieving win-win for air pollution control and climate change response.

Since its establishment in 2007, the International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions (RAQM) has been grounded in the Pearl River Delta while embracing a global perspective. It has provided an important platform for exchanging advanced experiences in air quality management among nations. In the current context, to explore the cutting-edge scientific issues and systemic solutions for the synergistic response to air pollution and climate change, and to harness science and technology for the continuous improvement of air quality, the enhancement of climate change mitigation and adaptation capabilities, and the achievement of win-win for air pollution control and climate change response, we plan to convene the 7th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions and the 1st Greater Bay Area Climate Forum at the Hong Kong University of Science and Technology (Guangzhou), China, on May 29-31, 2024.

Organizing Committee 会议组织委员会

Honorary Chair: Lionel M. NI, President, Hong Kong University of Science and Technology (Guangzhou)

Chair: Jiming HAO, Professor, Tsinghua University
Academician of Chinese Academy of Engineering

Co-Chair:

Jimmy FUNG
Peter LOUIE

Alexis LAU
Liuju ZHONG

Huihe QIU

Frank S.C. LEE

Secretary General: Junyu ZHENG

Deputy Secretary General:

Zibing YUAN

Zhi NING

Secretariat:

Ting FANG
Wenfeng LI

Zhe WANG
Monica ZHONG

Dasa GU
Chengcheng JING

Yutong LIANG

Organized By:

The Hong Kong University of Science and Technology (Guangzhou)
The Hong Kong University of Science and Technology

Co-organized By:

Hong Kong Institute of Qualified Environmental Professionals (HKIQEP)



Conference Affairs - Contact (联系人)

Service Group	Name	Tel.
Campus Registration 会场注册	Yutong LIANG (梁雨桐)	15542678972
Hotel Registration 酒店注册	Zhijiong HUANG (黄志炯)	13512795110
Accommodation 住宿	Qingyan ZHANG (张清艳)	13679274285
Transportation 交通	Yongming FENG (冯永明) Chengcheng JING (景程程)	18933958056 15521309160
Catering 餐饮	Wenfeng LI (李文凤)	13424593160
Poster 墙报交流	Weijun HUANG (黄炜俊)	13532911889
Emergency Contact 应急联系	Yongming FENG (冯永明)	18933958056

Conference Affairs - Staff-in-charge (分会场秘书)

Session	Staff-in-charge / Tel.	Venue
1.Current state and projection: challenges and opportunities 1.大气污染与气候变化现状及预测：挑战与机遇	Zhe WANG (王哲) Tel: 13121839331	Lecture Hall C
2.Interaction and feedback between air pollution and climate change 2.大气污染与气候变化的相互作用及反馈	Zhen LIU (刘振) Tel: 13339898216	E1-101
3.Health and economic impacts of air pollution and climate change 3. 大气污染与气候变化的健康效应和经济影响	Ting FANG (方婷) Tel: 15914225086	E1-102
4.Adaptation to extreme weather events (heatwave, fire, flood, typhoon, etc.) in coastal megacities 4. 沿海城市群极端天气事件（热浪、野火、洪水、台风等）适应	Yutong LIANG (梁雨桐) Tel: 15542678972	E1-201
5.Emission of air pollutants and greenhouse gases from various sources 5. 大气污染物与温室气体的排放特征	Dasa GU (顾达萨) Tel: 18014480391	E1-122
6.Mitigation and co-control: opportunities and challenges 6.大气污染与气候变化协同控制：机遇与挑战	Yixin GUO (郭怡鑫) Tel: 18801336906	E1-134
7.Sustainability and green finance 7.环境可持续性与绿色金融	Zoey ZHOU (周亦圆)	E1-134
Zero-carbon Shipping Forum 零碳航运论坛	Freda FUNG (冯淑慧)	E1-102
Youth Summit 青年峰会	Chris WONG (黄智聪)	E1-201
Poster Session 墙报展示	Weijun HUANG (黄炜俊) Tel: 13532911889	Next to Lecture Hall A

Program Overview (议程概览)

29 May	香港科技大学（广州）活动中心 / 星河吉酒店						
	13:00-22:00	Registration 报到注册					
30 May	Lecture Hall A						
	09:00-09:25	Opening Ceremony 开幕式					
	09:25-09:30	Appreciation for Dr. Peter K.K. LOUIE and Prof. Liuju ZHONG 雷国强博士和钟流举教授致谢仪式					
	09:30-10:45	Plenary Session 大会主旨报告					
	10:45-11:00	Tea Break 茶歇					
	11:00-12:15	Plenary Session 大会主旨报告					
	12:15-13:30	Lunch 午餐					
		Lecture Hall C	E1-101	E1-102	E1-201	E1-122	E1-134
	13:30-15:30	S1-1	S2-1	S3-1	S4-1	S5-1	S6-1
	15:30-15:50	Tea Break 茶歇					
	15:50-17:50	S1-2	S2-2	S3-2	S4-2	S5-2	S6-2
	18:00-20:00	Banquet 晚宴					
	20:00-21:00	Poster Session 墙报展示					
31 May	08:30-10:30	S1-3	S2-3	Shipping Forum-1	Youth Summit-1	S5-3	S7-1
	10:30-10:50	Tea Break 茶歇					
	10:50-12:20	S1-4	S2-4	Shipping Forum-2	Youth Summit-2	S5-4	S7-2
	12:20-13:30	Lunch 午餐					
	13:30-15:30	S1-5		S3-3	S4-3	S5-5	
	15:30-15:45	Tea Break 茶歇					
	Lecture Hall A						
	15:45-17:45	Plenary Session 大会主旨报告					
	17:50-18:00	Best Poster Award & Closing Ceremony 最佳墙报颁奖暨闭幕式					
	18:00-19:00	Dinner 晚餐					

	Session 1: Current state and projection: challenges and opportunities
	Session 2: Interaction and feedback between air pollution and climate change
	Session 3: Health and economic impacts of air pollution and climate change
	Session 4: Adaptation to extreme weather events in coastal megacities
	Session 5: Emission of air pollutants and greenhouse gases from various sources
	Session 6: Mitigation and co-control: opportunities and challenges
	Session 7: Sustainability and green finance
	Zero-Carbon Shipping Forum
	Youth Summit

Session Chair (会场主持人)

Time	Session	Chairs
30 May Morning 5 月 30 日上午	Opening Ceremony	Frank S.C. LEE (李顺诚)
	Session PL-1	Tao WANG (王韬), Zifa WANG (王自发)
	Session PL-2	Xinming WANG (王新明), Shuxiao WANG (王书肖)
30 May Afternoon 5 月 30 日下午	Session 1-1	Jianlin HU (胡建林), Likun XUE (薛丽坤)
	Session 1-2	Weijun LI (李卫军), Xinlei GE (盖鑫磊)
	Session 2-1	Boguang WANG (王伯光), Ke LI (李柯)
	Session 2-2	Lin ZHANG (张霖), Xiaopu LYU (吕效谱)
	Session 3-1	Guanghui DONG (董光辉), Lei HUANG (黄蕾)
	Session 3-2	Linwei TIAN (田林玮), Yu HUANG (黄宇)
	Session 4-1	Zhan TIAN (田展), Yan YU (俞妍)
	Session 4-2	Ying LI (李莹), Xiaoming SHI (石晓明)
	Session 5-1	Qingyan FU (伏晴艳), Guoliang SHI (史国良)
	Session 5-2	Qing LI (李庆), Xiao LU (卢骁)
	Session 6-1	Hancheng DAI (戴瀚程), Bin ZHAO (赵斌)
	Session 6-2	Yang GAO (高阳), Yixin GUO (郭怡鑫)
31 May Morning 5 月 31 日上午	Session 1-3	Shengrui TONG (佟胜睿), Yongjie LI (黎永杰)
	Session 1-4	Xu YUE (乐旭), Yanli ZHANG (张艳利)
	Session 2-3	Haichao WANG (王海潮), Jianhui YE (叶建淮)
	Session 2-4	Yang YANG (杨洋), Mingxu LIU (刘明旭)
	Zero-carbon Shipping Forum	Freda FUNG (冯淑慧)
	Youth Summit	Chris WONG (黄智聪)
	Session 5-3	Zhi NING (宁治), Lihong WANG (王丽红)
	Session 5-4	Dasa GU (顾达萨), Bo ZHENG (郑博)
	Session 7-1	Yangsiyu LU (鲁杨斯宇), Luoye CHEN (陈罗烨)
	Session 7-2	Yufei ZOU (邹宇飞), Zoey ZHOU (周亦圆)
31 May Afternoon 5 月 31 日下午	Session 1-5	Weigang WANG (王炜罡), Zhe WANG (王哲)
	Session 3-3	Jie BAN (班婕), Ting FANG (方婷)
	Session 4-3	Fei CHEN (陈飞), Shuo WANG (王硕)
	Session 5-5	Shaofei KONG (孔少飞), Shan HUANG (黄山)
	Session PL-3 & Closing Ceremony	Junyu ZHENG (郑君瑜), Zibing YUAN (袁自冰)

Program Schedule - Opening Ceremony (开幕式)

Time: 30 May, 09:00-09:30
时间: 5月30日 09:00-09:30

Venue: Lecture Hall A
地点: 演讲厅A

Chair: Frank S.C. LEE
主持人: 李顺诚

Time	Event
09:00-09:25	Introduction to Distinguished Guests 主持人介绍参会嘉宾
	Welcome Remarks by Prof. Lionel M. NI, President, Hong Kong University of Science and Technology (Guangzhou) 香港科技大学（广州）校长倪明选教授致欢迎辞
	Welcome Remarks by Prof. Jimmy C.H. FUNG, Associate Provost (Teaching & Learning), Hong Kong University of Science and Technology 香港科技大学协理副校长（教学）冯志雄教授致欢迎辞
	Remarks by Prof. Jiming HAO, Academician of Chinese Academy of Engineering, Professor of Tsinghua University, Chair of 7 th RAQM Workshop 大会主席郝吉明院士致辞
	Remarks by Dr. Kenneth Kai Ming LEUNG, Principal Assistant Secretary for Environment and Ecology, HKSAR Government 香港环境及生态局首席助理秘书长梁启明博士致辞
	Group photo 合影
09:25-09:30	Appreciation for Dr. Peter K.K. LOUIE and Prof. Liuju ZHONG 雷国强博士和钟流举教授致谢仪式

Program Schedule - Plenary Sessions (大会主旨报告)

Time: 30 May AM, 31 May PM
时间: 5月30日上午、31日下午

Venue: Lecture Hall A
地点: 演讲厅A

Staff-in-charge: Frank S.C. LEE
会场负责人: 李顺诚

Time	Presenter	Organization	Title
Session PL-1			
Date: 30 May AM 时间: 5月30日上午		Chair: Tao WANG, Zifa WANG 主持人: 王韬、王自发	
09:30-09:55	Wenqing LIU 刘文清	Hefei Institute of Physical Science, CAS	大气痕量气体超光谱监测技术进展 Progress in hyperspectral monitoring of atmospheric trace gases
09:55-10:20	Denise L. MAUZERALL	Princeton University	Synergies and co-benefits of a clean energy transition in China
10:20-10:45	Kebin HE 贺克斌	Tsinghua University	中国碳中和与清洁空气协同路径
Session PL-2			
Date: 30 May AM 时间: 5月30日上午		Chair: Xinming WANG, Shuxiao WANG 主持人: 王新明、王书肖	
11:00-11:25	Tong ZHU 朱彤	Peking University	Recent progress in atmospheric chemistry research in China: establishing a theoretical framework for the air pollution complex
11:25-11:50	Tao WANG 王韬	Hong Kong Polytechnic University	Dissecting drivers of worsened ozone pollution in 2022 and implications on future control policies
11:50-12:15	Elena TALALASOVA	Global Maritime Forum	Decarbonizing hard-to-abate sectors: global efforts on advancing clean and zero-emission shipping

Session PL-3			
Date: 31 May PM 时间: 5月31日下午		Chair: Junyu ZHENG, Zibing YUAN 主持人: 郑君瑜、袁自冰	
15:45-16:10	Jianmin CHEN 陈建民	Fudan University	大气气溶胶富集浓缩技术与应用
16:10-16:35	Jimmy FUNG 冯志雄	Hong Kong University of Science and Technology	Development of personalized early warning system for air quality and extreme weather hazards
16:35-17:00	Haidong KAN 阚海东	Fudan University	Health effects of air pollution and climate change: progress and future directions
17:00-17:25	Jay R. TURNER	Washington University in St. Louis	Air Quality in Central Asia: Case Study of Bishkek, Kyrgyzstan, including the air quality/climate nexus
17:25-17:50	Shaw Chen LIU 刘绍臣	Jinan University	Causes of trends of ozone in the Pearl River Delta 2006-2021
17:50-18:00	Best poster award and Closing ceremony 最佳墙报颁奖暨闭幕式		

Parallel Session 1 - Current state and projection: challenges and opportunities

Time: 30 May PM, 31 May
时间: 30日下午、31日全天

Venue: Lecture Hall C
地点: 演讲厅C

Staff-in-charge: Zhe WANG
会场负责人: 王哲

Time	Presenter	Organization	Title
Session 1-1			
Date: 30 May PM 时间: 5月30日下午		Chair: Jianlin HU, Likun XUE 主持人: 胡建林、薛丽坤	
13:30-13:50	Min HU 胡敏	Peking University	Significant changes in the physicochemical properties of BC-containing particles in cold season in Beijing
13:50-14:10	Imad El Haddad	Paul Scherrer Institut	Particulate matter: from sources to impacts
14:10-14:30	Min SHAO 邵敏	Jinan University	空气污染与气候变化相互作用的协同与拮抗 Interaction between air pollution and climate change: win-win and win-lose
14:30-14:45	Weijun LI 李卫军	Zhejiang University	Microphysical Properties of Atmospheric black carbon Particles: Measurements, Modeling, and Impacts
14:45-15:00	Xinlei GE 盖鑫磊	Nanjing University of Information Science and Technology	Aqueous phase formation mechanisms of secondary aerosols
15:00-15:15	Yongjie LI 黎永杰	University of Macao	Contribution of aromatic precursors to urban secondary organic aerosols a perspective from the formation of highly oxygenated organic molecules (OOMs)
15:15-15:30	Cheng LIU/ Chengxin ZHANG 刘诚/张成歆	University of Science and Technology of China	AI-powered trace gas monitoring with Chinese satellite constellation
15:30-15:50	Tea Break 茶歇		
Session 1-2			
Date: 30 May PM 时间: 5月30日下午		Chair: Weijun LI, Xinlei GE 主持人: 李卫军、盖鑫磊	
15:50-16:05	Likun XUE 薛丽坤	Shandong University	Mapping the ozone formation regime and control strategies across 38 cities in the North China Plain
16:05-16:20	Jianlin HU 胡建林	Nanjing University of Information Science and Technology	Inter-annual Variation of Nitrate in Beijing from 2015 to 2019
16:20-16:35	Shengrui TONG 佟胜睿	Institute of Chemistry, CAS	The impact of reactive species on secondary aerosol formation in the atmosphere
16:35-16:50	Qi CHEN 陈琦	Peking University	Widespread 2013-2020 Decreases and Reduction Challenges of Organic Aerosol in China
16:50-17:05	Sasho GLOGOROVSKI /Yiqun WANG	Guangzhou Institute of Geochemistry, CAS	SO ₂ oxidation on ocean surface as an alternative source of oxygenated volatile organic compounds over Eastern Asia
17:05-17:20	Senchao LAI 赖森潮	South China University of Technology	Marine biological aerosol: observation, simulation and characterization
17:20-17:35	Yuchen WANG 王羽琛	Hunan University	Secondary organic aerosol formation from the styrene NO ₃ oxidation
17:35-17:50	Yiming QIN 覃意茗	City University of Hong Kong	In-Situ Particle Surface Characterization with Matrix-Assisted Ionization in Vacuum - Mass Spectrometry

Parallel Session 1 - Current state and projection: challenges and opportunities

Time: 30 May PM, 31 May
时间: 30日下午、31日全天

Venue: Lecture Hall C
地点: 演讲厅C

Staff-in-charge: Zhe WANG
会场负责人: 王哲

Time	Presenter	Organization	Title
Session 1-3			
Date: 31 May AM 时间: 5月31日上午		Chair: Shengrui TONG, Yongjie LI 主持人: 佟胜睿、黎永杰	
08:30-08:50	Yujing MU 牟玉静	Research Center for Eco-Environmental Sciences, CAS	华北地区农田含氮气体排放及减排措施
08:50-09:10	Jian Zhen YU 郁建珍	Hong Kong University of Science and Technology	Bayesian Inference method towards quantifying concentrations of brown carbon and its sample-by-sample mass absorption efficiency
09:10-09:30	Yele SUN 孙业乐	Institute of Atmospheric Physics, CAS	Long-term changes in atmospheric aerosol composition in Beijing and New York City and implications
09:30-09:45	Xu YUE 乐旭	Nanjing University of Information Science and Technology	Ozone-vegetation feedback to air quality and climate
09:45-10:00	Yanli ZHANG 张艳利	Guangzhou Institute of Geochemistry, CAS	Biogenic volatile organic compound emissions and their impact on air quality
10:00-10:15	Jiangping LIU 刘江平	Kunming University of Science and Technology	The Source and Formation Mechanism of Nitrous Acid (HONO) in the Urban Atmosphere
10:15-10:30	Hui ZHANG 张晖	Guangdong Provincial Academy of Environmental Sciences	Current Situation of Air Pollution in the Pearl River Delta and Challenges in Benchmarking World-class Bay Area
10:30-10:50	Tea Break 茶歇		
Session 1-4			
Date: 31 May AM 时间: 5月31日上午		Chair: Xu YUE, Yanli ZHANG 主持人: 乐旭、张艳利	
10:50-11:10	Douglas R. WORSNOP	University of Helsinki	Characterization of VOCs, OVOCs, aerosols and greenhouse gases
11:10-11:30	Weigang WANG 王炜罡	Institute of Chemistry, CAS	Atmospheric oxidation processes of intermediate volatility organic compounds
11:30-11:50	Duohong CHEN 陈多宏	Guangdong Provincial Eco-Environment Monitoring Center	广东省大气重污染特征和主要影响因素
11:50-12:05	Defeng ZHAO 赵德峰	Fudan University	Formation of oxygenated organic molecules in the NO ₃ oxidation of representative biogenic and anthropogenic volatile organic compounds
12:05-12:20	Kun LI 李坤	Shandong University	Intermediate Volatility Compounds Dominate Secondary Organic Aerosol Formation from Biomass Burning Emissions

Parallel Session 1 - Current state and projection: challenges and opportunities

Time: 30 May PM, 31 May
时间: 30日下午、31日全天

Venue: Lecture Hall C
地点: 演讲厅C

Staff-in-charge: Zhe WANG
会场负责人: 王哲

Time	Presenter	Organization	Title
Session 1-5			
Date: 31 May PM 时间: 5月31日下午		Chair: Weigang WANG, Zhe WANG 主持人: 王炜罡、王哲	
13:30-13:45	Dantong LIU 刘丹彤	Zhejiang University	Some findings on the effect of carbonaceous aerosols on cloud physics
13:45-14:00	Zhe WANG 王哲	Hong Kong University of Science and Technology	Trend and evolution of surface ozone and ozone-precursor relationship in Hong Kong and China
14:00-14:15	Chenglei PEI 裴成磊	Guangzhou Municipal Eco-Environmental Monitoring Center	广州大气监测及溯源
14:15-14:30	Chengxin ZHANG 张成歆	University of Science and Technology, China	Joint observation of CO ₂ and NO ₂ from space
14:30-14:45	Chengzhi XING 邢成志	Hefei Institutes of Physical Sciences, CAS	Hyperspectral stereoscopic remote sensing network reveals the regional and transregional transport of aerosol and its precursors
14:45-15:00	Xuan WANG 王轩	City University of Hong Kong	Impacts of halogen chemistry on aerosol formation
15:00-15:15	Yi CHEN 陈怡	Hong Kong University of Science and Technology	Formation and Gas-Particle Partitioning of Nitro-Phenolic Compounds in Coastal Area
15:15-15:30	Yan TAN 谈琰	Qingdao University of Technology	Evolution of roadside air quality in Hong Kong: From volatile organic compounds monitoring to comprehensive analysis of long-term air pollutants

Parallel Session 2 - Interaction and feedback between air pollution and climate change

Time: 30 May PM, 31 May AM
时间: 30日下午、31日上午

Venue: E1-101
地点: E1-101

Staff-in-charge: Zhen LIU
会场负责人: 刘振

Time	Presenter	Organization	Title
Session 2-1			
Date: 30 May PM 时间: 5月30日下午		Chair: Boguang WANG, Ke LI 主持人: 王伯光、李柯	
13:30-13:50	Hong LIAO 廖宏	Nanjing University of Information Science and Technology	Winter particulate pollution severity in North China: Dominant climate drivers and seasonal prediction
13:50-14:10	Sunling GONG 龚山陵	China Academy of Meteorological Sciences	中国气溶胶与天气的交互作用
14:10-14:30	Rujin HUANG 黄汝锦	Institute of Earth Environment, CAS	含氮有机气溶胶化学与光学
14:30-14:45	Lin ZHANG 张霖	Peking University	Co-benefits of China's Low-Carbon Policies on Air Pollution Mitigation in the Greater Bay Area
14:45-15:00	Bin YUAN 袁斌	Jinan University	城市甲烷来源: 基于通量和垂直梯度观测的启示
15:00-15:15	Xiaopu LYU 吕效谱	Hong Kong Baptist University	Significant biogenic source of oxygenated volatile organic compounds and the impacts on photochemistry
15:15-15:30	Nan WANG 王楠	Sichuan University	利用机器学习探索气候变暖背景下城市异戊二烯的变化及其影响
15:30-15:50	Tea Break 茶歇		
Session 2-2			
Date: 30 May PM 时间: 5月30日下午		Chair: Lin ZHANG, Xiaopu LYU 主持人: 张霖、吕效谱	
15:50-16:10	Zhaolin GU 顾兆林	Xi'an Jiaotong University	城市下垫面参数化与WRF模拟精度讨论
16:10-16:30	Boguang WANG 王伯光	Jinan University	珠三角城市臭氧污染生成潜力与气候效应评估新方法
16:30-16:45	Ning ZHANG 张宁	Nanjing University	A Numerical Study of the Urban Green Roof and Cool Roof Strategies' Effects on Boundary Layer Meteorology and Ozone Air Quality in a Megacity
16:45-17:00	Ke LI 李柯	Nanjing University of Information Science and Technology	Role of climate change in surface ozone: long-term trends and extreme hot summer of 2022
17:00-17:15	Haichao WANG 王海潮	Sun Yat-sen University	珠三角春季臭氧污染趋势与气象影响机制
17:15-17:30	Jianhuai YE 叶建淮	Southern University of Science and Technology	Characteristics of nocturnal boundary layer over a subtropical forest
17:30-17:45	Jie LI 李洁	Yunnan University	春季东南亚生物质燃烧对中国南方大气二氧化碳的影响

Parallel Session 2 - Interaction and feedback between air pollution and climate change

Time: 30 May PM, 31 May AM
时间: 30日下午、31日上午

Venue: E1-101
地点: E1-101

Staff-in-charge: Zhen LIU
会场负责人: 刘振

Time	Presenter	Organization	Title
Session 2-3			
Date: 31 May AM 时间: 5月31日上午		Chair: Haichao WANG, Jianhuai YE 主持人: 王海潮、叶建淮	
08:30-08:50	Chuanfeng ZHAO 赵传峰	Peking University	大气污染-云相互作用的北极气候增暖贡献
08:50-09:10	Kaicun WANG 王开存	Peking University	基于气象能见度重建过去60年全球陆地PM _{2.5}
09:10-09:25	Mingxu LIU 刘明旭	Peking University	不同排放路径下全球大气OH自由基趋势及其气候影响
09:25-09:40	Ke GUI 桂柯	China Academy of Meteorological Sciences	基于AI驱动的我国地面能见度时空无缝实时反演及应用研究
09:40-09:55	Pinya WANG 王品雅	Nanjing University of Information Science and Technology	台风-高温复合型极端天气影响东部沿海城市群臭氧污染的关键物理化学过程研究
09:55-10:10	Lili REN 任莉莉	Jiangsu Open University	碳中和约束下未来气溶胶减排对中国太阳能和风能潜力的协同效益
10:10-10:25	Xingcheng LU 陆兴成	Chinese University of Hong Kong	Urbanization Impact on Atmospheric Environment Under Past and Future Climates Scenarios over the Greater Bay Area
10:25-10:45	Tea Break 茶歇		
Session 2-4			
Date: 31 May AM 时间: 5月31日上午		Chair: Yang YANG, Mingxu LIU 主持人: 杨洋、刘明旭	
10:45-11:00	Danlin SONG 宋丹林	Chengdu Environmental Protection Science Research Institute	气候变化背景下成都平原夏季热浪应对策略研究
11:00-11:15	Qinqin LI 李勤勤	Jinan University	Origins of formaldehyde in a mountainous background atmosphere of southern China
11:15-11:30	Zhen LIU 刘振	Hong Kong University of Science and Technology (Guangzhou)	Impact of Asian aerosols on the summer monsoon strongly modulated by regional precipitation biases
11:30-11:45	Xu YU 余歆	Hong Kong University of Science and Technology	Organic Nitrogen (ON) in Aerosols: Measurement Method Development, Abundances, and Sources
11:45-12:00	Yuhang ZHANG 张宇航	Xi'an University of Architecture & Technology	Comprehensive assessment of PM _{2.5} -bound PAHs and their derivatives during high pollution episodes in the Guanzhong region, China: insights into spatial distribution, sources, and formation mechanism
12:00-12:15	Liang ZHU 朱亮	TOFWERK China	‘哪吒’多化学电离源双极性TOF质谱仪研发和环境大气监测应用研究

Parallel Session 3 - Health and economic impacts of air pollution and climate change

Time: 30 May PM, 31 May PM
时间: 30日下午、31日下午

Venue: E1-102
地点: E1-102

Staff-in-charge: Ting FANG
会场负责人: 方婷

Time	Presenter	Organization	Title
Session 3-1			
Date: 30 May PM 时间: 5月30日下午		Chair: Guanghui DONG, Lei HUANG 主持人: 董光辉、黄蕾	
13:30-13:50	Richard E. PELTIER	University of Massachusetts Armherst	Looking under the lamp post: the search for causality in air pollution health effects
13:50-14:10	Mohd Talib LATIF	Universiti Kebangsaan Malaysia	Biomass Burning in Southeast Asia and Its Potential Effects on Human Health and Climate Change
14:10-14:30	Linwei TIAN 田林玮	University of Hong Kong	Ironclad evidence of indoor air pollution and women lung cancer
14:30-14:45	Xiangqian LAO 劳向前	City University of Hong Kong	Satellite-based Estimates of PM _{2.5} Exposure, Regular Exercise, and Health: Results from an Epidemiological Cohort Study
14:45-15:00	Yu HUANG 黄宇	Institute of Earth Environment, CAS	常温催化高效杀灭病原体气溶胶机制
15:00-15:15	Miao HE 贺淼	China Medical University	Respiratory toxicity of atomspheric particulate matters such as dust storm, PM _{2.5} and microplastics
15:15-15:30	Xiaosan LUO 罗小三	Nanjing University of Information Science and Technology	Toxicological effects of typical micro and nano particles in the atmospheric environment on human cells of respiratory system
15:30-15:50	Tea Break 茶歇		
Session 3-2			
Date: 30 May PM 时间: 5月30日下午		Chair: Linwei TIAN, Yu HUANG 主持人: 田林玮、黄宇	
15:50-16:05	Shao-Yuan LEU	Hong Kong Polytechnic University	eNose for Detecting Brown Root Rot Tree Disease
16:05-16:20	Derrick HO	City University of Hong Kong	Pathway between nitrogen oxides, activities of daily living, comorbidity and quality of life
16:20-16:35	Jie Ban 班婕	Chinese Center for Disease Control and Prevention	Projection on air pollution related cardiovascular disease burden under climate change scenarios
16:35-16:50	Yingyi ZHANG 张颖仪	South China University of Technology	Multiphase reactions of proteins in the air
16:50-17:05	Jian SUN 孙健	Xi'an Jiaotong University	室内空气质量溯源与人体健康影响: 基于传统与AI技术的系统研究
17:05-17:20	Jianwei GU 顾建伟	Guangdong University of Technology	Characterization of particulate matter from common indoor sources and implications for human exposure
17:20-17:35	Zhenyu WANG 王震宇	Institute of Earth Environment, CAS	Antibacterial Mechanisms of Oxygen Vacancy-Mediated α-MoO ₃ Bactericidal Nanocatalysts in the dark
17:35-17:50	Ling JIN 金灵	Hong Kong Polytechnic University	Evolution of toxic components explains why increasing biomass combustion temperature reduces particulate matter toxicity less than mass emissions

Parallel Session 3 - Health and economic impacts of air pollution and climate change

Time: 30 May PM, 31 May PM
时间: 30日下午、31日下午

Venue: E1-102
地点: E1-102

Staff-in-charge: Ting FANG
会场负责人: 方婷

Time	Presenter	Organization	Title
Session 3-3			
Date: 31 May PM 时间: 5月31日下午		Chair: Jie BAN, Ting FANG 主持人: 班婕、方婷	
13:30-13:50	Mei ZHENG 郑玫	Peking University	Investigating Key Components and Sources of Fine Particulate Matter with Health Impacts
13:50-14:10	Guanghui DONG 董光辉	Sun Yat-sen University	Ambient Air Pollution and Health Impact in Chinese
14:10-14:30	Shupeng ZHU 朱曙鹏	Zhejiang University	Evaluating the Impact of Climate Change on Heat Waves and Pollution Exposure: A Comprehensive Health and Economic Risk Assessment
14:30-14:45	Kimberly Tasha Jiayi TANG	Hong Kong University of Science and Technology	Ten Years of the AQHI in Hong Kong: Successes, Shortcomings, and Future Prospects
14:45-15:00	Changqing LIN 林常青	Hong Kong University of Science and Technology	A health risk approach for air quality management and its implications for synergistic health and carbon management in China
15:00-15:15	Chun CHEN 陈淳	Chinese University of Hong Kong	Influence of outdoor-to-indoor air pollutant transport on human health in the context of climate change
15:15-15:30	Juan LIU 刘娟	Guangzhou University	Hidden health risks arised from atmospheric thallium pollution in urban cities: A global perspective

Parallel Session 4 - Adaptation to extreme weather events (heatwave, fire, flood, typhoon, etc.) in coastal megacities

Time: 30 May PM, 31 May PM

时间: 30日下午、31日下午

Venue: E1-201

地点: E1-201

Staff-in-charge: Yutong LIANG

会场负责人: 梁雨桐

Time	Presenter	Organization	Title
Session 4-1			
Date: 30 May PM 时间：5月30日下午		Chair: Zhan TIAN, Yan YU 主持人：田展、俞妍	
13:30-13:50	Allen HUANG	University of Wisconsin	Eyes in the Sky: timely observing weather and environment for nowcasting and forecasting
13:50-14:10	Junji CAO 曹军骥	Institute of Atmospheric Physics, CAS	沿海城市群极端天气事件适应研究进展与发展趋势
14:10-14:25	Amos TAI 戴沛权	Chinese University of Hong Kong	Effects of irrigation on boundary-layer meteorology and air pollution in China: Implications for sustainable food-climate-health management
14:25-14:40	Ying LI 李莹	Southern University of Science and Technology	Unraveling the influence of typhoon peripheral circulation characteristics on ozone pollution formation in a changing climate
14:40-14:55	Yan YU 俞妍	Peking University	Wildfires bring new air quality challenges to the coastal area under global changes
14:55-15:10	Zhan TIAN 田展	Southern University of Science and Technology	Dynamic adaptive engineering pathways for mitigating future compound flooding risks in Shanghai with regret theory
15:10-15:25	Xiaoming SHI 石晓明	Hong Kong University of Science and Technology	Combining numerical simulation and deep learning to estimate extreme precipitation under global warming
15:25-15:45	Tea Break 茶歇		
Session 4-2			
Date: 30 May PM 时间：5月30日下午		Chair: Ying LI, Xiaoming SHI 主持人：李莹、石晓明	
15:45-16:05	Guohui LI 李国辉	Institute of Earth Sciences, CAS	Urbanization processes drive increases and extremes in summertime rainfall in the megacities of Northern China
16:05-16:25	Xuemei WANG 王雪梅	Jinan University	How does the precipitation trend influence the contribution of dry reduced nitrogen (NH _x) deposition.
16:25-16:45	Xuejiao DENG 邓雪娇	Guangzhou Institute of Tropical and Marine Meteorology, CMA	Climate overview and attribution analysis of ozone pollution in the Guangdong Hong Kong Macao Greater Bay Area
16:45-17:05	Qingxiang LI 李庆祥	Sun Yat-sen University	2022年4-6月华南地区极端持续降水事件在不同全球变暖水平下的预估变化及相关物理过程
17:05-17:20	Xiaoyang CHEN	Guangzhou Institute of Tropical and Marine Meteorology, CMA	Impact of Springtime Stratospheric Intrusions on Ozone Vertical Distribution over Guangdong Province
17:20-17:35	Han WANG	Hong Kong University of Science and Technology	Urban heat mitigation by electrifying vehicle fleet: the case of Hong Kong

Parallel Session 4 - Adaptation to extreme weather events (heatwave, fire, flood, typhoon, etc.) in coastal megacities

Time: 30 May PM, 31 May PM

时间: 30日下午、31日下午

Venue: E1-201

地点: E1-201

Staff-in-charge: Yutong LIANG

会场负责人: 梁雨桐

Time	Presenter	Organization	Title
Session 4-3			
Date: 31 May PM		Chair: Fei CHEN, Shuo WANG	
时间: 5月31下午		主持人: 陈飞、王硕	
13:30-13:50	Ashish SHARMA	University of Illinois	Climate Science to Actionable Urban Solutions
13:50-14:10	Jimmy FUNG 冯志雄	Hong Kong University of Science and Technology	Future projections of PRD climate extremes
14:10-14:30	Shaojia FAN 范绍佳	Sun Yat-sen University	The impact of Southeast Asian wildfire aerosol emissions on air quality in the northern South China Sea
14:30-14:50	Fei CHEN 陈飞	Hong Kong University of Science and Technology	Collaborative research on extreme temperature and precipitation in multiple urban systems
14:50-15:10	Hongyu WU 伍红雨	Guangdong Provincial Climate Center	Climate characteristics, impacts, and risks in Guangdong
15:10-15:25	Shuo WANG 王硕	Hong Kong Polytechnic University	The escalating risk of compound heatwaves and extreme sea levels in coastal cities

Parallel Session 5 - Emission of air pollutants and greenhouse gases from various sources

Time: 30 May PM, 31 May
时间: 30日下午、31日全天

Venue: E1-122
地点: E1-122

Staff-in-charge: Dasa GU
会场负责人: 顾达萨

Time	Presenter	Organization	Title
Session 5-1			
Date: 30 May PM 时间: 5月30日下午		Chair: Qingyan FU, Guoliang SHI 主持人: 伏晴艳、史国良	
13:30-13:50	Toshimasa OHARA	Asia Center for Air Pollution Research (ACAP)	Long-term trends of anthropogenic emissions of ozone precursors and CO ₂ in Japan
13:50-14:10	Hezhong TIAN 田贺忠	Beijing Normal University	有毒有害元素大气排放与污染时空变化及暴露风险
14:10-14:30	Haoqi QIAN 钱浩祺	Fudan University	结构调整、效率改进与协同减排: 来自中国碳交易试点政策的经验证据
14:30-14:45	Yuzhong ZHANG 张羽中	Westlake University	基于大气观测估算中国甲烷排放
14:45-15:00	Qing LI 李庆	Fudan University	工业源硫酸盐排放特征及其对毒性效应的影响
15:00-15:15	Xiao LU 卢晓	Sun Yat-sen University	基于卫星观测反演能源行业温室气体排放
15:15-15:30	Hongyu GUO 郭洪宇	Sun Yat-sen University	Aircraft-based observations of fire-emitted submicron particle composition and acidity
15:30-15:50	Tea Break 茶歇		
Session 5-2			
Date: 30 May PM 时间: 5月30日下午		Chair: Qing LI, Xiao LU 主持人: 李庆、卢晓	
15:50-16:05	Guofeng SHEN 沈国锋	Peking University	居民室内燃烧过程无组织泄露定量方法及应用
16:05-16:20	Ying ZHOU 周颖	Beijing University of Technology	农村源污碳排放及其空气质量影响研究
16:20-16:35	Xiao FU 付晓	Tsinghua Shenzhen International Graduate School	Anthropogenic short-lived halogens emissions and the implication
16:35-16:50	Liya FAN 范丽雅	South China University of Technology	Identification of NO _x emissions and source characteristics by TROPOMI observations – A case study in north-central Henan, China
16:50-17:05	Xiang DING 丁祥	Shanghai Academy of Environmental Sciences	瞬态工况下重型柴油车总活性氮排放特征研究
17:05-17:20	Huizhong SHEN 沈惠中	Southern University of Science and Technology	The Global Emission Modeling System (GEMS) with highly resolved source information
17:20-17:35	Meng GAO 高蒙	Hong Kong Baptist University	Co-occurring heat and air pollution extremes in China
17:35-17:50	Wenjing DAI 戴雯婧	Sun Yat-sen University	大气臭氧污染来源及高效消除

Parallel Session 5 - Emission of air pollutants and greenhouse gases from various sources

Time: 30 May PM, 31 May
时间: 30日下午、31日全天

Venue: E1-122
地点: E1-122

Staff-in-charge: Dasa GU
会场负责人: 顾达萨

Time	Presenter	Organization	Title
Session 5-3			
Date: 31 May AM 时间: 5月31日上午		Chair: Zhi NING, Lihong WANG 主持人: 宁治、王丽红	
08:30-08:50	Junyu ZHENG 郑君瑜	Hong Kong University of Science and Technology (Guangzhou)	Priliminary study on identifying issues in NH ₃ emission inventories: based on numerical simulation and online observation
08:50-09:10	Qingyan FU 伏晴艳	Shanghai Academy of Environmental Sciences	城市化地区温室气体监测选址的可行性研究
09:10-09:30	Guoliang SHI 史国良	Nankai University	颗粒物和二氧化碳协同溯源和减排路径研究
09:30-09:45	Xiaobing PANG 庞小兵	Zhejiang University of Technology	长三角地区温室气体与大气污染三维时空特征研究
09:45-10:00	Chong WEI 魏崇	Shanghai Advanced Research Institute, CAS	Space-ground observation and assessment of carbon emissions in megacity Shanghai, China
10:00-10:15	Bo ZHENG 郑博	Tsinghua Shenzhen International Graduate School	Towards monitoring of greenhouse gas emissions from air pollution sensors in space
10:15-10:30	Shaofei KONG 孔少飞	Chinese University of Geosciences	左旋葡聚糖排放定量表征及其对降碳减污的启示
10:30-10:50	Tea Break 茶歇		
Session 5-4			
Date: 31 May AM 时间: 5月31日上午		Chair: Dasa GU, Bo ZHENG 主持人: 顾达萨、郑博	
10:50-11:10	Hongjun MAO 毛洪钧	Nankai University	机动车全挥发性区间有机物排放特征与环境影响
11:10-11:30	Jinping CHENG 程金平	Shanghai Jiao Tong University	Study on emission characteristics and synergistic effect of atmospheric pollutants and greenhouse gases in a typical megacity
11:30-11:45	Shan HUANG 黄山	Jinan University	Characterization of organonitrates in PM1 in urban and rural PRD based on real-time measurements using SP-AMS
11:45-12:00	Mengmeng LI 李蒙蒙	Nanjing University	Coping with the concurrent heatwaves and ozone extremes in China under a warming climate
12:00-12:15	Fei JIANG/ Shuzhuang FENG 江飞 /冯树状	Nanjing University	基于地面站点NO ₂ 观测的我国化石燃料碳排放反演

Parallel Session 5 - Emission of air pollutants and greenhouse gases from various sources

Time: 30 May PM, 31 May
时间: 30日下午、31日全天

Venue: E1-122
地点: E1-122

Staff-in-charge: Dasa GU
会场负责人: 顾达萨

Time	Presenter	Organization	Title
Session 5-5			
Date: 31 May PM 时间: 5月31日下午		Chair: Shaofei KONG, Shan HUANG 主持人: 孔少飞、黄山	
13:30-13:45	Zhi NING 宁治	Hong Kong University of Science and Technology	复杂交通环境氮氧化物驱动特征解释及未来城市空气质量管理启示
13:45-14:00	Yingjie LI 李英杰	Shanghai Academy of Environmental Sciences	移动源排放挥发和中等挥发性有机物测试研究
14:00-14:15	Ruoyu YOU 尤若于	Hong Kong Polytechnic University	Numerical Simulation for Predicting Vehicle Exhaust Transport in Street Canyons
14:15-14:30	Ran TU 涂然	Southeast University	Greenhouse Gas Emissions Can be Substantially Reduced by Re-distributing Airport Resources
14:30-14:45	Qian ZHANG	Xi'an University of Architecture & Technology	Exploring chromophore structures effects on potential photosensitizer of brown carbon from residential fuel burning in Qinghai-Tibet Plateau
14:45-15:00	Dasa GU 顾达萨	Hong Kong University of Science and Technology	Dynamically mapping of on-road emissions in Hong Kong: impact of traffic congestion and fleet composition
15:00-15:15	Hanyang MAN 满瀚阳	Fujian Normal University	油气挥发源VOCs排放特征及环境影响研究
15:15-15:30	Yufan YU 余宇帆	Guangdong Polytechnic of Environmental Protection Engineering	A study on the Impact of the Current Situation of Volatile Organic Compound Control in Industrial Enterprises on Emission Inventory Estimation

Parallel Session 6 - Mitigation and co-control: opportunities and challenges

Time: 30 May PM
时间: 5月30日下午

Venue: E1-134
地点: E1-134

Staff-in-charge: Yixin GUO
会场负责人: 郭怡鑫

Time	Presenter	Organization	Title
Session 6-1			
Date: 30 May PM 时间：5月30日下午		Chair: Hancheng DAI, Bin ZHAO 主持人：戴瀚程、赵斌	
13:30-13:50	Kenneth LEUNG 梁启明	Environment and Ecology Bureau, HKSAR	Clean Air Plan for Hong Kong 2035
13:50-14:10	Shuxiao WANG 王书肖	Tsinghua University	Health and climate impacts of carbon neutrality and clean air pathways in China
14:10-14:30	Hancheng DAI 戴瀚程	Peking University	IMED综合评估模型研究进展：以粤港澳减污降碳政策评估为例
14:30-14:45	Yang GAO 高阳	Ocean University of China	Improved representation of extreme weather events and ozone concentration based on a high-resolution earth system model
14:45-15:00	Yang YANG 杨洋	Nanjing University of Information Science and Technology	Interactions between climate change and ozone pollution in China toward carbon neutral
15:00-15:15	Xin TIAN 田欣	Beijing Normal University	Mismatched social welfare allocation and PM _{2.5} -related health damage along value chains within China
15:15-15:30	Jianjun LIU 刘剑筠	Guangdong Provincial Academy of Environmental Science	Research on the zero emission transformation of cross-border freight transportation in the Guangdong - Hong Kong - Macao Greater Bay Area
15:30-15:50	Tea Break 茶歇		
Session 6-2			
Date: 30 May PM 时间：5月30日下午		Chair: Yang GAO, Yixin GUO 主持人：高阳、郭怡鑫	
15:50-16:10	Zifa WANG 王自发	Institute of Atmospheric Physics, CAS	Description and Evaluation of the EPICC-Model: Emission and atmospheric Processes Integrated and Coupled Community Model
16:10-16:30	Xiuhui ZHANG 张秀辉	Beijing Institute of Technology	Formation Mechanism of Marine Aerosols under the Influence of Complex Pollution
16:30-16:45	Bin ZHAO 赵斌	Tsinghua University	大气新粒子生成机制和气候影响的数值模拟研究
16:45-17:00	Lei ZHU 朱雷	Southern University of Science and Technology	Underappreciated emission spikes and impacts on air quality during heatwaves
17:00-17:15	Xinyi DONG 董新奕	Nanjing University	Impact of Land Cover Change on Biogenic Emission Derived Air Pollutants and CO ₂ Sequestration
17:15-17:30	Jiandong WANG 王建栋	Nanjing University of Information Science and Technology	Unified theoretical framework for black carbon mixing state and its application in climate model
17:30-17:45	Yixin GUO 郭怡鑫	Hong Kong University of Science and Technology (Guangzhou)	Nitrogen shares in future global air pollution under climate mitigation scenarios and feasible mitigation opportunities

Parallel Session 7 - Sustainability and green finance

Time: 31 May AM
时间: 5月31日上午

Venue: E1-134
地点: E1-134

Staff-in-charge: Zoey ZHOU
会场负责人: 周亦圆

Time	Presenter	Organization	Title
Session 7-1			
Date: 31 May AM 时间：5月31日上午		Chair: Yangsiyu LU, Luoye CHEN 主持人：鲁杨斯宇，陈罗烨	
8:30-8:50	Yongbo ZHANG 张永波	Guangdong Provincial Academy of Environmental Science	绿色金融政策助力大湾区空气质量持续改善的思考
8:50-9:10	Grace KWOK 郭美珩	AEC Group	Introducing TNFD, a framework to communicate nature-related risks and opportunities
9:10-9:30	Yufei ZOU 邹宇飞	Our Kettle Inc., USA	Balancing Climate Risks with Innovative Insurance Products as A Safety Net-A Case Study in California's Wildfire Insurance Market
9:30-9:45	Zoey ZHOU 周亦圆	Hong Kong University of Science and Technology	Carbon Offsetting: Response to Negative Environmental News
9:45-10:00	Moreau Quentin	Hong Kong University of Science and Technology	The effect of climate risks on corporate redeployment strategies - evidence from insurance companies
10:00-10:15	Keith Jin Deng CHAN	Hong Kong University of Science and Technology	The Double-Edged Sword of Net-Zero Commitment Declaration on the Carbon Risk Premium
10:15-10:30	Coco Dijia DU 杜迪佳	Hong Kong University of Science and Technology (Guangzhou)	Green Finance Development in London, New York and Singapore, and Policy Recommendations for Hong Kong
10:30-10:50	Tea Break 茶歇		
Session 7-2			
Date: 31 May AM 时间：5月31日上午		Chair: Yufei ZOU, Zoey ZHOU 主持人：邹宇飞，周亦圆	
10:50-11:05	Yangsiyu LU 鲁杨斯宇	Hong Kong University of Science and Technology (Guangzhou)	Evidence from Environmental Regulation and Industrial Firm Productivity in China
11:05-11:20	Luoye CHEN 陈罗烨	Hong Kong University of Science and Technology (Guangzhou)	Surface Ozone, Agricultural Productivity, and Rural Adaptation in China
11:20-11:35	Yuwei LIAO	Hong Kong University of Science and Technology	How much do investors discriminate against high-emitting green bond issuers? The role of external review
11:35-11:50	Hui WANG	Zhejiang Gongshang University	Planning and strategy research on multi-level ventilation corridor of water network city based on urban heat island and air quality
11:50-12:05	Xiaoqing WANG	Hong Kong University of Science and Technology	Do responsible firms behave differently in difficult times?
12:05-12:20	Han LV	Hong Kong University of Science and Technology	Green Bond Regulation and Stock Market Reaction: Evidence from China

Zero-carbon Shipping Forum (零碳航运论坛)

Time: 31 May AM
时间: 5月31日上午

Venue: E1-102
地点: E1-102

Staff-in-charge: Freda FUNG
会场负责人: 冯淑慧

Time	Presenter	Organization	Title
Session 1. Updates on zero-emission fuels and technologies			
8:30-8:35	Freda FUNG 冯淑慧	Climate Works Foundation	Introduction
8:35-8:50	Karim FAHSSIS	Decarbonization A.P. Møller - Maersk	Decarbonize logistics 物流业脱碳
8:50-9:05	Kunsong CHEN 陈昆松	WinGD Hong Kong Branch	Latest development of 2-stroke methanol and ammonia engines 二冲程甲醇和氨动力发动机的最新发展
9:05-9:30	Brandon MCKENNA	Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping	Future fuel pathway for zero-emission shipping (video presentation) 零排放航运的未来燃料选择（视像报告）
9:30-9:45	Zhanting ZHUANG 庄展汀	CATL Electric Vessel Company	Latest development of battery electric propulsion to decarbonize inland waterway shipping 电池动力助力内河船舶低碳转型的最新发展
9:45-10:00	Peng FANG 方鹏	Greater China Excellence Center RINA	How to choose the optimal decarbonization path for ships with varying ship types, ages, and routes 不同船型、船龄和航线船舶如何选择最佳脱碳路径
10:00-10:15	Q&A		
10:15-10:45	Tea Break		
Session 2. Policies to promote co-control of air and climate pollution from shipping			
10:45-11:00	Zhihang MENG 孟至航	International Council on Clean Transportation (ICCT)	Sailing towards net zero: Alternative fuels and policy measures 航运向净零排放转型--替代燃料和政策措施
11:00-11:15	Yan ZHANG 张艳	Fudan University	Assessment of the impact of integrated green shipping development in the Yangtze River Delta on the overall improvement of air quality in coastal areas 长三角一体化绿色航运发展对沿海区域空气质量整体提升的影响评估
11:15-11:30	Jia WU 吴佳	Guangzhou Port Authority	Green port and shipping initiatives and green shipping corridor 广州港绿色港口和航运的行动以及建立绿色航运走廊的最新进展
11:30-11:45	Jiajing CHEN 陈佳靖	Hong Kong University of Science and Technology	Study on the Decarbonization Potential of China's Domestic Shipping Sector and Hong Kong's Potential Green Corridors in Asian Regional Shipping Routes 中国国内航运去碳化潜力研究及香港在亚洲区域航线中的潜在绿色走廊
11:45-12:20	Zhiqiang ZHU Dong MA Karim FAHSSIS Zhanting ZHUANG Elena TALALASOVA		Roundtable discussion: Opportunities and challenges for accelerating zero-emission shipping transition in the Greater Bay Area 圆桌讨论：大湾区发展零排放航运的机遇和挑战

Youth Summit (青年峰会)- Bridging Sustainability with Climate Change: What and How can the youth ACT for the Great Bay Area?

Time: 31 May AM
时间: 5月31日上午

Venue: E1-201
地点: E1-201

Staff-in-charge: Chris WONG
会场负责人: 黄智聪

Time	Presenter	Organization	Title
9:00-9:10	Opening Remark by Prof. Jiming HAO (郝吉明), Professor of Tsinghua University, Academician of Chinese Academy of Engineering		
9:10-9:30	Kam Sing WONG 黄锦星	Wu Zhi Qiao Charitable Foundation	Keynote Speech: How can the youth contribute to protect the environment of the Greater Bay Area?
Session 1. Climate Action through Sustainability: A Hard Resolution?			
9:30-9:45	Shaw Chen LIU 刘绍臣	Jinan University	Geoengineering: stratospheric aerosol injection
9:45-10:00	Liuju ZHONG 钟流举	Guangdong Polytechnic of Environmental Protection Engineering	Observation and thinking on the co-response of air pollution and climate change in the Greater Bay Area
10:00-10:15	Tzung May FU 傅宗玫	Southern University of Science and Technology	Climate action and air quality
10:15-10:30	Peter LOUIE 雷国强	Hong Kong Environmental Protection Department	An overview of regional air quality studies in GBA
10:30-10:45	Panel Discussion		
10:45-11:00	Tea Break		
Session 2. Youth Empowerment for Climate Action through Sustainability for the Greater Bay Area			
11:00-11:15	Shangchen ZHANG 张尚辰	世界大学气候变化联盟（COP27）青年团	Role of Youth for climate actions: Bridging Multidisciplinary Knowledge Gaps and Building Climate-Resilient Communities
11:15-11:30	Natalie Sum Yue CHUNG 钟芯豫	Youth and Capacity Building Sub-Committee, HKSARG Council for Carbon Neutrality and Sustainable Development	Youth Education through Antarctic Climate Expedition - Reimagining Blue Economy for Carbon Neutrality
11:30-11:45	Americana CHEN 陈思桦	香港联合国教科文组织	ESD for youth and youth for ESD
11:45-12:10	Panel Discussion		
12:10-12:20	Closing Remark		

Poster Session (海报展示)

Time: 8-9PM, 30 May
时间: 30日晚上8-9点

Venue: Next to Lecture Hall A
地点: 演讲厅A旁

Staff-in-charge: Weijun HUANG
会场负责人: 黄炜俊

ID	Name	Organization	Title
1	Haohao JIA	Hong Kong University of Science and Technology	Assessment of systematic bias in Carbonaceous Aerosol Speciation System and Sunset OC/EC analyzer for carbonaceous components determination at a suburban site in Hong Kong
2	Tong WU	Hong Kong University of Science and Technology (Guangzhou)	Simulating an ozone pollution episode using photochemical air quality models
3	Yao CHEN	Hong Kong University of Science and Technology	Characteristics and photochemical impacts of atmospheric carbonyl compounds in Eastern China
4	Anna Mae VORWERK	Hong Kong University of Science and Technology	A Novel Method for Calculating Ambient Aerosol Liquid Water Contents Based on Measurements of a Humidified Nephelometer System
5	Yiheng LIU	South China University of Technology	Constructing vehicle VOC species emission model based on actual road testing and machine learning
6	Puyu LIAN	South China University of Technology	AIRS and MODIS Satellite-based Assessment of Air Pollution in Southwestern China: Impact of Stratospheric Intrusions and Cross-Border Transport of Biomass Burning
7	Xuelian ZHONG	Shandong University	Analysis of HONO Source and Sink Mechanisms Across Varied Atmospheric Environments
8	Shu ZHANG	South China University of Technology	Using Ensemble Machine Learning Method to Make Long-term Projections of Tropospheric Ozone along Different Shared Socioeconomic Pathways in China
9	Yu YANG	Shandong University, Institute of Environmental Studies	Unrevealing a missing source of atmospheric organic nitrates from the multiphase reactions between organic peroxides and nitrite
10	Huanpeng WANG	South China University of Technology	Study on the characteristics of nocturnal ozone increase and the lower boundary layer ozone sources in Xinxiang, China
12	Yanchen LI	Southern University of Science and Technology	The Roles of Sulfur Dioxide on the Optical Properties of Biogenic Secondary Organic Aerosol
13	Yu LI	Nanjing University of Information Science & Technology	Volatility and oxygen-carbon ratio modeling of secondary organic aerosols in eastern China
14	Landadi CHEN	Guangzhou Institute of Geochemistry	The effects of aminium and ammonium cations on the ice nucleation activity of K-feldspa
15	Jiyuan GAO	Nanjing University of Information Science and Technology	Climate responses in China to domestic and foreign aerosol changes due to clean air actions during 2013–2019
16	Huiling HE	South China University of Technology	基于机器学习的粤港澳大湾区臭氧生成敏感性空间特征识别和多维检验
17	Guowen HE	Sun Yat-sen University	The roles of nighttime residual layer on ozone air quality in urban area
18	Jinlan LI	Southern University of Science and Technology	Ozone deterioration over North China plain caused by light absorption of black carbon and organic carbon
19	Pengxiao LI	Nanjing University of Information Science and Technology	气溶胶混合状态的数值模拟研究

20	Penggang ZHENG	Hong Kong University of Science and Technology	Insights into the oxygenated organic molecules formation mechanism of aromatic photooxidation: molecular characterization and effects of NO _x , relative humidity and seeds acidity
21	Khalid MEHMOOD	Jiangsu University	Comparative analysis of CO ₂ emissions and economic performance in the United States and China: Navigating sustainable development in the climate change era
22	Chenyu SONG	Hongkong Baptist University	Reevaluation of Source-Specific Health Risk and Contributing Factors of PM _{2.5} in Hong Kong Using Water-Soluble Metal Portion
23	Hanzhe CHEN	Hong Kong University of Science and Technology	Examining Aerosol Acidity-Driven Oxidative Potential: Insights from Volcanic Emissions via Online Measurements
24	Yihao WANG	Chinese Academy of Environmental Planning	基于健康效益的多污染物优化调控路径
25	Guochen WANG	Zhejiang University	Response of PM _{2.5} -bound elemental species to emission variations and associated health risk assessment during the COVID-19 pandemic in a coastal megacity
26	Mingyun HU	Hong Kong University of Science and Technology	High Spatiotemporal Resolution Estimation and Analysis of Global Surface CO Concentrations Using a Deep Learning Model
27	Bin ZHANG	Xi'an Jiaotong University	Long term historical daily PM _{2.5} concentrations estimation (1973 - 2021) for three Chinese megacities using random forest model
28	Wenjing ZHANG	Nanjing University of Information Science and Technology	Commute exposure to ultrafine particles, black carbon and particulate matters in a suburb from Yangtze River Delta, China
29	Han WANG	Hong Kong University of Science and Technology	Urban heat mitigation by electrifying vehicle fleet: the case of Hong Kong
30	Haobo LI	Hong Kong University of Science and Technology	LLM-Driven Visual Analytics for Heat Risk Management
31	Yitong GUO	Chinese University of Hong Kong	Socioeconomic and age disparities in hospitalization risks associated with hot nights and nighttime heat excess: a time-series study in Hong Kong, 2000-2019
32	Xue ZHANG	Guangzhou Institute of Tropical and Marine Meteorology	The influence of lightning activity on NO _x and O ₃ in the Pearl River Delta region
33	Shanshan OUYANG	Jinan University	Impact of a subtropical high and a typhoon on a severe ozone pollution episode in the Pearl River Delta, China
34	Yiang CHEN	Hong Kong University of Science and Technology	Temporal Source Apportionment of Ozone Pollution over the Greater Bay Area
35	Yaxuan ZHANG	Hong Kong University of Science and Technology	Natural Language Processing for Identification of Climate Change Tertiary Risks
36	Yingchao GUO	Nanjing University	Simulation of maximum urban canopy temperature with a machine learning emulator
37	Hao ZHANG	Nanjing University	Numerical study of fine-scale urban meteorological environment and human comfort simulation in East China with CLM-LCZs
38	Haoyuan YU	Hong Kong University of Science and Technology (Guangzhou)	Streamflow and Flood Projection in the Pearl River Basin in the context of climate change
39	Bo LIANG	Chinese Academy of Meteorological Sciences	Analysis of global tropospheric ozone concentration variation characteristics from 1980 to 2020.
40	Peng XUAN	Peking University Shenzhen Graduate School	Analysis of the Characteristics of New Particle Generation in Autumn in Shenzhen

41	Ning YANG	Jinan University	Intermediate volatility organic compounds (IVOCs) emissions based on source-specific emission ratios relative to non-methane volatile organic compounds (NMVOCs) give better representation of the spatial distribution of IVOCs in China
42	Dong LI	Jinan University	Real-world Greenhouse Gas Emission Characteristics from In-use Light-duty Diesel Trucks in China
43	Boyang JIAO	Peking University Shenzhen Graduate School	深圳大气气态硝酸变化规律及研究
44	Jin MA	Utrecht University	Investigations of the Global Budget of Carbonyl Sulfide Using Data Assimilation of Surface and Satellite Observations
45	Hongyu GONG	Hong Kong University of Science and Technology (Guangzhou)	Emissions of the volatile pollutants from MSW transfer stations: Odor impact assessment
46	Yifan ZHUO	Hong Kong University of Science and Technology (Guangzhou)	Solar Energy-Regenerated MOF-74@SBA-15 Adsorbents for Indoor Carbon Dioxide Capture
47	Jiashu YE	Hong Kong University of Science and Technology (Guangzhou)	Characterisation and estimation of industrial near real-time emissions using multiple satellite retrievals and base-year emission inventories
48	Zhilin WANG	Nanjing University of Information Science & Technology	Assessment of the Impact of Assimilating Himawari and MODIS AOD on Aerosol AOD Simulation
49	Fanglin WANG	Chinese University of HongKong	Source Apportionment of Volatile Organic Compounds (VOCs) through Field Observations and Laboratory Studies
50	Wenlin CHEN	Hong Kong University of Science and Technology	Spatiotemporal Characteristics and Source Analysis of an Ozone Episode based on Low-cost Sensor Network
51	Zhenxing LIANG	Hong Kong University of Science and Technology	Diurnal carbon monoxide retrieved from FY-4B/GIIRS using a novel machine learning method
52	Ya WANG	Hong Kong University of Science and Technology	Characteristics of Microscale Air Pollutants from Traffic Emission and Its Response to the Change of Traffic and Built Environment
53	Jiixin CAO	South China University of technology	Apportionment of VOCs in the Guangdong-Hong Kong-Macao Greater Bay Area Based on Gridded Sampling and Integration Verification with Emission Inventory
54	Weitao FU	Southern University of Science and Technology	Diurnal HCHO Observations from GEMS Satellite: Validation and Inversion of Hourly Production
55	Naveed AHMAD	Hong Kong University of Science and Technology	Satellite-derived ground-level NO ₂ concentrations in China: Spatio-temporal distributions for 2021 and policy implications
56	Tingting WANG	China University of Geosciences	Unveiling the Elemental Ratios, Formation Mechanism, and Impact on the Atmospheric Environment of Primary Aerosols Using an Offline Aerosol Mass Spectrometer
57	Tianle ZHANG	Peking University	Contribution of Dust and Anthropogenic Emission Sources to Fe in Atmospheric PM _{2.5} in Beijing
58	Xuan LI	Nanjing University of Information Science & Technology	Modelling of Atmospheric Oxygenated Volatile Organic Compounds in the Yangtze River Delta Region
59	Zheng XIAO	East China University of Science and Technology	Characterization and sources of volatile organic compounds (VOCs) during 2022 summer ozone pollution control in Shanghai, China
60	Zehao WU	Hainan University	Study on the Relationship Between Ozone Concentrations and Meteorological Conditions in Haikou

61	Tao LI	Hong Kong University of Science and Technology	Impacts of COVID-19 lockdown on chemical composition, sources and oxidative potential of PM _{2.5} in Nansha, Guangzhou
66	Yansu HE	Chinese University of Hong Kong	Association between BTEX and cardiovascular disease, dyslipidemia and leukocytosis in national US population
68	Chenchen ZHANG	Hong Kong University of Science and Technology	Assessing and forecasting traffic emissions in the era of electric vehicle proliferation, China: A spatial heterogeneity perspective
69	Han MEI	Hong Kong University of Science and Technology	Application of high-density air and meteorological sensor network for environmental management and policy intervention
70	Pei LI	Guangzhou University	Maximum July-August temperatures for the middle of the southern Tien Shan inferred from tree-ring latewood maximum densities
71	Yan CHENG	Xi'an Jiaotong University	Spatiotemporal characteristics of ozone and the formation sensitivity over the Fenwei Plain
72	Yanan WANG	Hong Kong Polytechnic University	Establishment of national soil nitrous acid emissions network: parameterization and its effect on air quality
73	Tong WU	Hong Kong University of Science and Technology (Guangzhou)	Simulating an ozone pollution episode using photochemical air quality models
74	Yongjian DENG	Hong Kong University of Science and Technology (Guangzhou)	Untargeted Metabolomics Reveal the Bioaccessibility and Compositional Changes of PM _{2.5} in Two Simulated Lung Fluids
75	Yuting SHEN	Hong Kong University of Science and Technology (Guangzhou)	Assessment of ROS Generated by Macrophages Exposed to Organics and Metal Mixtures
76	Jianing LIU	Hong Kong University of Science and Technology (Guangzhou)	Development and evaluation of an automated online system to assess the oxidative potential of particles in aqueous extracts through the dithiothreitol (DTT) assay

Locations of Posters / Sponsor Exhibition (海报/赞助商展览位置)



Catering (用餐信息)

	29 May 5 月 29 日	30 May, 31 May 5 月 30, 31 日
Breakfast 早餐		<ul style="list-style-type: none"> G Hotel Restaurant 星河吉餐厅 C6 Heart to Heart Restaurant 1F C6 心连心餐厅首层
Lunch 午餐		<ul style="list-style-type: none"> Green Voucher 绿色餐券 C2 Activity Center 102/103 C2活动中心102 /103 Blue Voucher 蓝色餐券 C6 Yilin Restaurant 3F C6逸林餐厅三楼
Dinner 晚餐	<ul style="list-style-type: none"> Green Voucher 绿色餐券 C6 Yilin Restaurant 2F C6逸林餐厅二楼 Blue Voucher 蓝色餐券 C6 Yilin Restaurant 3F C6逸林餐厅三楼 	<ul style="list-style-type: none"> C6 Yilin Restaurant 3F C6逸林餐厅三楼

Note: Attendees are advised to dine at the designated restaurant corresponding to their specific voucher type.

注意: 参会者需凭餐券类型到指定餐厅用餐。

Co-organizer (协办单位)



HKIQEP
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