



暨南大學
JINAN UNIVERSITY

CONFERENCE PROGRAM

Air Quality in China: Past, Present and Future

November 16-19, 2017, Guangzhou, China

The 5th International Symposium on Regional Air Quality Improvement in Rapidly Developing Economic Regions



<https://5raqm.jnu.edu.cn/>

Welcome Remarks

In this golden autumn season, the 5th International Symposium on Regional Air Quality Management in Rapidly Developing Economic Regions (RAQM) is held in Guangzhou, the City of Flowers in China. On behalf of Institute for Environmental and Climate Research, Jinan University, we sincerely welcome our distinguished guests, experts, scholars, and representatives from all over the world. Special thanks to the great support by Mr. Chun Ying LEUNG, Vice Chairman of the National Committee of the 12th Chinese People's Political Consultative Conference and former Chief Executive of the Hong Kong Special Administrative Region.

Stay hungry, stay foolish. The RAQM Symposium has been upholding the tenet of being "Science-driven, policy-oriented, high-level with distinct characteristics" since its establishment ten years before. Themed by 'Air Quality in China: Past, Present and Future', this 5th edition aims to review the past experiences and lessons of air pollution prevention and control in China, summarize the current status of air pollution and difficulties and challenges in air pollution control, and shed light on ways of pollution prevention and control in the coming decades. We hope the 5th RAQM Symposium can contribute to optimizing air pollution prevention and control technology system, to achieve continuous air quality improvement, and to promote sustainable development and ecological civilization in China and other rapidly economic developing regions alike.

Anchor in the Pearl River Delta, keep sight of the World. The 5th RAQM Symposium pursues the forefront of atmospheric environmental science while focusing on the national and local pollution prevention and control needs. By building up a platform for cooperation and exchange between different environmental stakeholders domestic and overseas, the 5th RAQM Symposium will promote the effective transformation of the latest academic achievements and contribute to the improvement of air quality in China and other developing countries. The 5th RAQM Symposium has 4 plenary sessions, 24 parallel sessions under 7 main topics, 4 forums (Clean Air Forum for the Guangdong – Hong Kong – Macao Greater Bay Area, Global Megacity Air Quality Management Forum, Dialogue with Academicians, and Dialogue with Editors), and a poster session. Through the exchange and collision of viewpoints, all participants will be enriched.

Guangzhou is renowned for its colorful flower market, enjoying the reputation of "Millennium City of Flowers". Let all friends make a great gathering here in Guangzhou, share an academic feast, and join hands to build up a brighter future with better air quality.

We sincerely thank the great contributions from all special guests, representatives, co-organizers, sponsors, and staffs in the local organizing committee. This event would not be possible without the relentless efforts from all of you.

Wish the 5th RAQM Symposium a great success!



Min SHAO, Junyu Allen ZHENG

General Secretary, 5th RAQM Symposium Organizing Committee

欢迎词

在这金秋送爽的季节，第五届经济快速发展地区空气质量改善国际学术研讨会即将在繁花似锦的穗城举行。我们谨代表暨南大学环境与气候研究院衷心祝贺本次会议的隆重召开，诚挚欢迎来自海内外的嘉宾、专家学者和会议代表。同时特别感谢中华人民共和国香港特别行政区第四任行政长官、中国人民政治协商会议全国委员会副主席梁振英先生对本次学术研讨会的大力支持！

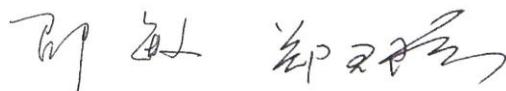
不忘初心，牢记使命。研讨会自创办以来，始终秉持“有特色、高水平、以科学为驱动、以政策为导向”的办会宗旨。本届研讨会以“中国大气污染防治的过去、现状和未来”为主题，对中国大气污染防治的过去进行总结，对现状进行梳理，并对未来的发展趋势、亟待解决的科学问题、防控战略进行展望和研讨。希冀研讨会的举行为完善中国大气污染防治技术体系、实现空气质量持续改善、促进社会可持续发展和生态文明建设做出贡献，也为世界其他经济快速发展地区的大气污染防治提供借鉴。

立足粤港澳，放眼全世界。本次研讨会紧跟国际大气环境科学发展前沿，聚焦污染防治的国家和地方需求，搭建国内外专家学者、决策者、业界同仁的合作交流平台，促进国际大气环境领域最新学术成果有效转化。大会共设4场著名科学家主旨报告、24个分会场、7项议题、4个论坛（粤港澳大湾区清洁空气高端论坛、国际城市空气质量管理论坛、院士与青年学者面对面、主编论坛）、墙报展示等，形式多样，精彩纷呈，是一场在观点的交流与碰撞中，学者和管理者均能得以收获的学术盛宴。

广州因缤纷的花市而闻名，享有千年花城的美誉。愿所有新朋老友，相聚广州，共享学术盛宴，展望未来，共筑美好明天！

最后，对参加本次会议的所有嘉宾、代表、承办单位、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！预祝第五届经济快速发展地区空气质量改善国际学术研讨会圆满成功！

第五届经济快速发展地区空气质量改善国际学术研讨会秘书长



2017年11月1日

The 5th International Symposium on Regional Air Quality Management in Rapidly Developing Economic Regions

Theme: Air Quality in China: Past, Present and Future

16-19 November, 2017
Guangzhou, China

In the recent decades, many rapidly developing economic regions have experienced increasingly significant air pollution, arousing great public concern. A series of stringent air pollution control strategies has been promulgated in different countries, e.g. the Air Pollution Prevention and Control Action Plan issued by State Council of China in September 2013. Deterioration of air quality in China has been reversed, but new problems such as elevated ozone level emerge. Along with strengthened scientific understanding on the causes, formation processes and control mechanisms of air pollution in China, the supportive role of atmospheric research on air pollution control has been greatly improved. China has gradually explored a set of ‘refined understanding – efficient control – scientific regulation’ as the mainline of its air pollution prevention and control system to tackle the worldwide conundrum of air pollution prevention and control under the backdrop of rapid economic development.

2017 marks the tenth anniversary of the establishment of the International Symposium on Regional Air Quality Management in Rapidly Developing Economic Regions (RAQM Symposium). Upholding the tenet of ‘science-driven, policy-oriented’, the RAQM Symposium pursues the forefront of atmospheric environmental science while eyeing on national and local air pollution prevention and control demands. Anchored in the Pearl River Delta (PRD), one of the most rapidly developing economic regions in the world, the RAQM Symposium establishes a high-level interaction platform for scientists, policymakers, industrial entrepreneurs and environmental protection stakeholders from both domestic and overseas, promotes the combination of the latest scientific research outcomes with the local pollution situation in various rapidly economic development regions, boosts the in-depth science-to-policy transformation, and fosters scientific and refined air quality management. The RAQM Symposium contributes to the continuous improvement of air quality in China in recent years, in particular to the attainment of national ambient air quality standard in the PRD, and provides successful experiences on the air quality improvement in other rapidly developing economic regions alike.

Following the success of the previous four symposiums (2007 in Zhuhai, 2009 and 2011 in Guangzhou, and 2014 in Hong Kong), we are pleased to announce that the fifth RAQM Symposium will be held on 16-19 November 2017 in Guangzhou, China. Themed by ‘Air Quality in China: Past, Present and Future’, the Symposium aims to review the past experiences and lessons of air pollution prevention and control in China, summarize the current status of air pollution and difficulties and challenges in air pollution control, and propose pollution prevention and control strategies in the coming decades.

Conference Organization

Chair: Jun HU (President, Jinan University)

Co-Chair: Jeanne NG (Chair, Hong Kong Institute of Qualified Environmental Professionals Limited)

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Wenxing WANG	Shandong University, Academician of Chinese Academy of Engineering
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Yihui DING	National Climate Center of China, Academician of Chinese Academy of Engineering
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Ruijun WANG	Director, Guangdong Science and Technology Department
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Co-Chair:

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Eddy ZENG	Jinan University, Editor-in-chief of <i>Environmental Pollution</i>

Chak Keung CHAN	City University of Hong Kong, Editor-in-chief of <i>Atmospheric Environment</i>
James SCHAUER	University of Wisconsin, Madison, USA, Editor-in-chief of <i>Atmospheric Environment</i>
Fahe CHAI	Chinese Research Academy of Environmental Sciences
Hong HE	Research Center for Eco-Environmental Sciences, CAS
Markus AMANN	International Institute for Applied Systems Analysis, Austria

Member of Academic Committee (in alphabetical order):

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Chaoping CEN	Changhong CHEN	Jianmin CHEN	Jinsheng CHEN
Liangfu CHEN	Mindong CHEN	Wentao CHEN	Jinping CHENG
Shuiyuan CHENG	Yafang CHENG	Judith CHOW	Yongjiu DAI
Xuejiao DENG	Shyamali DHARMAGE	Aijun DING	Xiang DING
Guanghui DONG	Wenjie DONG	Xiaoli DUAN	Shaojia FAN
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Qingyan FU	Jimmy FUNG	Jian GAO	Xiang GAO
Maofa GE	Shanling GONG	Joost De GOUW	Hai GUO
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Maosheng YAO	Daiqi YE	Hong YE	Jianzhen YU
Zibing YUAN	Dawei ZHANG	Gan ZHANG	Lin ZHANG
Qiang ZHANG	Qingzhu ZHANG	Renyi ZHANG	Weijun ZHANG
Xiaoye ZHANG	Chunsheng ZHAO	Junyu Allen ZHENG	Liuju ZHONG
Tianjun ZHOU	Zhen ZHOU	Tong ZHU	Yongguan ZHU

Local Organizing Committee

Chair: An HONG (Vice President, Jinan University)

Associate Chair: Min SHAO, Peter LOUIE

Member:

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Hang SU	Yafang CHENG	Xueping WAN	Xinming WANG
Alexis LAU	Tao WANG	Freeman CHEUNG	Yubo OU
Zibing YUAN	Wentao CHEN	Zhen ZHOU	

Secretary-General:

Min SHAO	Junyu Allen ZHENG	Zibing YUAN	Liuyi ZHOU
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Organized By

Institute for Environmental and Climate Research, Jinan University

Co-organized By

Institute of Environmental Science and Engineering, Tsinghua University

College of Environmental Science and Engineering, Peking University

Division of Environment, Hong Kong University of Science and Technology

Professional Committee for VOC Pollution Prevention and Control, Chinese Society for Environmental Sciences

Supported By (in alphabetical order)

Acta Scientiae Circumstantiae

Department of Civil and Environmental Engineering, Hong Kong Polytechnic University

Guangdong Polytechnic of Environmental Protection Engineering

Guangzhou HKUST Fok Ying Tung Research Institute

Guangzhou Institute of Geochemistry, Chinese Academy of Sciences

Hong Kong Institute of Qualified Environmental Professionals Limited

Institute of Tropical and Marine Meteorology, China Meteorological Administration

School of Atmospheric Sciences, Sun Yat-Sen University

School of Environment and Energy, South China University of Technology

State Environmental Protection Key Laboratory of Formation and Prevention of Urban Air Pollution Complex

State Environmental Protection Key Laboratory of Regional Air Quality Monitoring

Program Overview

Date	Time	Huizhan A 4/F	Huizhan B 4/F	Yuewang 4/F	Yunshan 4/F	Wuyang 2/F
17-Nov	08:30-09:00	Opening Ceremony				
	09:00-11:00	Clean Air Forum for Guangdong-Hong Kong-Macao Greater Bay Area				
	11:00-11:20	Tea Break				
	11:20-12:10	Plenary Session (P-1)				
	12:10-13:30	Lunch				
	13:30-15:35	Plenary Session (P-2)				
	15:35-15:50	Tea Break				
	15:50-18:15			Dialogue with Academicians	Session (6-1)	Session (1-1)
	18:30-20:30	Banquet				
18-Nov	08:30-10:10	Plenary Session (P-3)				
	10:10-10:30	Tea Break				
	10:30-12:30	Global Megacity Air Quality Management Forum		Session (3-1)	Session (7-1)	
	12:30-13:30	Lunch				
	13:30-15:35	Session (2-1)	Session (4-1)	Session (5-1)	Session (6-2)	Session (1-2)
	15:35-15:50	Tea Break				
	15:50-18:15	Session (2-2)	Session (4-2)	Session (5-2)	Session (6-3)	Session (1-3)
	18:30-20:00	Dinner				
20:00-22:00			Poster and Beer Session			
19-Nov	08:30-10:15	Session (2-3)	Session (4-3)	Session (3-2)	Session (7-2)	Session (1-4)
	10:15-10:30	Tea Break				
	10:30-12:30	Session (2-4)	Special Session	Session (3-3)	Session (7-3)	Session (1-5)
	12:30-13:30	Lunch				
	13:30-14:30	Dialogue with Editors				
	14:30-16:35	Plenary Session (P-4)				
	16:35-16:50	Closing Ceremony				

Exhibition & Tea Break are both located at Yuewang Hall

	Session 1: Air Pollution Monitoring, Forecast and Warning
	Session 2: Emission Characterization and Retrieval
	Session 3: Causes and Mechanisms of Air Pollution Complex
	Session 4: Ozone Pollution and Precursors Control
	Session 5: Regional Co-prevention and Co-control
	Session 6: Exposure Assessment and Health Impact
	Session 7: Weather, Climate and Air Pollution
	Special Session: Guangdong-HK-Macao Joint PM _{2.5} Study

议程概览

日期	时间	会展厅A	会展厅B	越王厅	云山厅	五羊厅	
11月 17号	08:30-09:00	开幕式					
	09:00-11:00	粤港澳大湾区 清洁空气高端论坛					
	11:00-11:20	茶歇					
	11:20-12:10	大会主旨报告 (P-1)					
	12:10-13:30	午餐					
	13:30-15:35	大会主旨报告 (P-2)					
	15:35-15:50	茶歇					
	15:50-18:15			院士与青年 学者面对面	议题6(6-1)	议题1(1-1)	
	18:30-20:30	晚宴					
11月 18号	08:30-10:10	大会主旨报告(P-3)					
	10:10-10:30	茶歇					
	10:30-12:30	国际城市空气质量管理论坛		议题3(3-1)	议题7(7-1)		
	12:30-13:30	午餐					
	13:30-15:35	议题2(2-1)	议题4(4-1)	议题5(5-1)	议题6(6-2)	议题1(1-2)	
	15:35-15:50	茶歇					
	15:50-18:15	议题2(2-2)	议题4(4-2)	议题5(5-2)	议题6(6-3)	议题1(1-3)	
	18:30-20:00	晚餐					
	20:00-22:00	墙报与啤酒之夜					
11月 19号	08:30-10:15	议题2(2-3)	议题4(4-3)	议题3(3-2)	议题7(7-2)	议题1(1-4)	
	10:15-10:30	茶歇					
	10:30-12:30	议题2(2-4)	特别会场	议题3(3-3)	议题7(7-3)	议题1(1-5)	
	12:30-13:30	午餐					
	13:30-14:30	主编论坛					
	14:30-16:35	大会主旨报告(P-4)					
	16:35-16:50	闭幕式					

茶歇与赞助商展示位于越王厅；会展厅、越王厅、云山厅位于酒店四楼；五羊厅位于酒店二楼

	议题 1: 监测与预报预警
	议题 2: 排放源表征与溯源
	议题 3: 大气复合污染成因机制
	议题 4: 臭氧污染与前体物控制
	议题 5: 复合污染区域联防联控
	议题 6: 暴露评估与健康影响
	议题 7: 天气气候与大气污染
	特别会场: 粤港澳 PM _{2.5} 联合研究

Program Schedule - Opening Ceremony (开幕式)

Time: Nov. 17, 08:30-09:00
时间: 11月17日08:30-09:00

Venue: Huizhan
地点: 会展厅

Chair: An HONG, Vice President of Jinan University
主持人: 洪岸, 暨南大学副校长

Time	Event
08:30 - 08:35	Introduction to Special Guests
08:35 - 08:40	Welcome Remarks by Jun HU (胡军), Conference Chair and President of Jinan University
08:40 - 08:45	Remarks by Hongqi JIANG (蒋宏奇), Chief Engineer of Department of Environmental Protection of Guangdong Province
08:45 - 08:50	Remarks by Yu LIU (刘羽), Director of General Affairs Division, Department of Earth Sciences, National Natural Science Foundation of China
08:50 - 09:00	Remarks by Jiming HAO (郝吉明), Academician of Chinese Academy of Engineering, Professor of Tsinghua University

Program Schedule - Forum (大会论坛)

There are four special forums in the Symposium, including:

1. Clean Air Forum for Guangdong-Hong Kong-Macao Greater Bay Area (粤港澳大湾区清洁空气高端论坛) : discussion between government officials and scientific experts to exchange ideas and suggestions in the fields of air pollution, climate change, clean energy, green financing, industrial economy, urban planning and public health in the Guangdong-Hong Kong-Macao Greater Bay Area proposed in the 2017 Government Work Report of the State Council of China. Keynote Speech by Mr. Chun Ying LEUNG, Vice Chairman of the 12th National Committee of Chinese People's Political Consultative Conference and former Chief Executive of Hong Kong Special Administrative Region.

Time: Nov. 17, 09:00-11:00

Venue: Huizhan

Chair: Min SHAO and Peter LOUIE

时间: 11月17日09:00-11:00

地点: 会展厅

主持人: 邵敏、雷国强

Time	Event
09: 00-09: 05	Introduction to Special Guests
09: 05-09: 20	Keynote Speech by Chun Ying LEUNG (梁振英), Vice Chairman of the 12 th National Committee of Chinese People's Political Consultative Conference
09: 20-09: 30	Remarks by Hongqi JIANG (蒋宏奇), Chief Engineer of Department of Environmental Protection of Guangdong Province
09: 30-09: 40	Remarks by Dave Tak Yin HO (何德贤), Assistant Director (Air Policy) of Hong Kong Environmental Protection Department
09: 40-09: 45	Presentation by Yuanhang ZHANG (张远航), Academician of the Chinese Academy of Engineering, Professor of Peking University
09: 45-09: 50	Presentation by Junfeng LI (李俊峰), Director of National Center for Climate Change Strategy and International Cooperation
09: 50-09: 55	Video presentation by Christine LOH (陆恭蕙), Adjunct Professor of Hong Kong University of Science and Technology
09: 55-10: 00	Presentation by Raymond FONG (方湛樑), General Manager of Environmental Management Division, Hong Kong Productivity Council
10: 00-10: 05	Presentation by Joseph LAW (罗嘉进), Senior Director (Planning and Development) of CLP Power Hong Kong Limited
10: 05-10: 10	Presentation by Hannah ROUTH, Partner of Sustainability and Climate Change Advisory, Deloitte China
10: 10-10: 15	Presentation by Xiaoming SHI (施小明), Director of National Institute for Environmental Health, Chinese Center for Disease Control and Prevention
10: 15-10: 20	Presentation by Liuju ZHONG (钟流举), Chief Expert on Atmospheric Environment, Department of Environmental Protection of Guangdong Province
10: 20-10: 25	Presentation by Xianzhong SONG (宋献中), Vice President of Jinan University
10: 25-10: 55	Panel Discussion
10: 55-11: 00	End of Forum, Group Photo

Program Schedule - Forum (大会论坛)

2. Dialogue with Academicians (院士与青年学者面对面) : 9 young scientists report key research findings and future research plan and discuss with academicians.

Time: Nov. 17, 15:50-17:40

Venue: Yuewang

Chairs: Yafang CHENG and Maofa GE

时间: 11月17日15:50-17:40

地点: 越王厅

主持人: 程雅芳、葛茂发

Academicians to present: Zhisheng AN, Wenqing LIU, Yuanhang ZHANG, Kebin HE, Shaw-Chen LIU, etc. (安芷生、刘文清、张远航、贺克斌、刘绍臣等)

Time	Event
15:50-15:55	Introduction to Academicians and Young Scientists
15:55-16:05	Presentation by Shaofei KONG (孔少飞), China University of Geosciences (Wuhan)
16:05-16:15	Presentation by Fangxia SHEN (申芳霞), Beihang University
16:15-16:25	Presentation by Lin ZHANG (张霖), Peking University
16:25-16:35	Presentation by Bin YUAN (袁斌), Jinan University
16:35-16:45	Presentation by Xin LI (李歆), Peking University
16:45-16:55	Presentation by Shengzhen ZHOU (周声圳), Sun Yat-sen University
16:55-17:05	Presentation by Wenwei CHE (车汶蔚), Hong Kong University of Science and Technology
17:05-17:15	Presentation by Zibing YUAN (袁自冰), South China University of Technology
17:15-17:25	Presentation by Xiang DING (丁翔), Guangzhou Institute of Geochemistry, CAS
17:25-17:35	Summary by Academicians
17:35-17:40	Group Photo, End of Forum

Program Schedule - Forum (大会论坛)

3. Global Megacity Air Quality Management Forum (国际城市空气质量管理论坛) : air quality management officials and experts from global megacity cities exchange experiences in air pollution control and discuss new ideas and technologies in air quality management.

Time: Nov. 18, 10:30-12:20

Venue: Huizhan

Chairs: Xuemei WANG and Liuju ZHONG

时间：11月18日10:30-12:20

地点：会展厅

主持人：王雪梅、钟流举

Time	Event
10:30-10:35	Introduction to Special Guests
10:35-10:45	Air Quality Management in Guangzhou by Wei ZHANG (章威), Commissioner of Guangzhou Environmental Protection Bureau
10:45-10:55	40 Years of Effort to Reach the U.S. Ozone NAAQS by David PARRISH, Research Chemist of National Oceanic and Atmospheric Administration
10:55-11:05	Air Quality Management in Europe by Guy BRASSEUR, Chairman of World Climate Research Programme Joint Scientific Committee
11:05-11:15	Air Quality Management in Australia by Lidia MORAWSKA, Professor of Queensland University of Technology
11:15-11:25	Air Quality Management and Challenge in Shenzhen by Qing liang TAN (谭清良), Deputy Director, Office of Atmospheric Environment Management, Shenzhen Municipal Committee on Human Settlements
11:25-11:35	Air Quality Management and Challenge in Hong Kong by Kenneth LEUNG (梁启明), Senior Environmental Protection Officer (Air Science) of Hong Kong Environmental
11:35-11:45	Air Quality Management and Challenge in Beijing by Baoxian LIU (刘保献), Deputy Director of Beijing Environmental Protection Monitoring Center
11:45-12:15	Panel Discussion
12:15-12:20	Summary, End of Forum

Program Schedule - Forum (大会论坛)

4. Dialogue with Editors (主编论坛) : a forum specifically tailored for attendees desiring to publish research findings in high-level journals. [Shu TAO, Associate Editor of *Environmental Science and Technology*, Chak K. CHAN, Editor-in-chief of *Atmospheric Environment*; Tao WANG, Associate Editor of *Journal of Geophysical Research-Atmospheres*; Jianzhen YU, Associate Editor of *Atmospheric Research*; Joshua FU, Associate Editor of *Journal of Air and Waste Management Association*; Steven BROWN, Co-editor of *Atmospheric Chemistry and Physics*; Hang Su, Associate Editor of *Atmospheric Chemistry and Physics*; Xujia JIANG, Associate Editor of *Nature Sustainability*]

Time: Nov. 19, 13:30-14:30

Venue: Huizhan

Chairs: Zibing YUAN and Maosheng YAO

时间: 11月19日13:30-14:30

地点: 会展厅

主持人: 袁自冰、要茂盛

Time	Event
13:30-13:35	Introduction to Editors
13:35-13:45	Introduction of Journals and Publication Policies by Editors
13:45-14:25	Q&A Session
14:25-14:30	Summary, End of Forum

Plenary Session (大会主旨报告)

Time: Nov. 17-19

Venue: Huizhan

Staff-in-charge: Run LIU and Yonglin LIU

时间: 11月17日上午-19日下午 地点: 会展厅

会场负责人: 刘润、刘永林

Time	Presenter	Organization	Title
Session P-1			
Date: 17 November 时间: 11月17日上午		Chair: Yuanhang ZHANG 主持人: 张远航	
11:20-11:45	Jiming HAO 郝吉明	Tsinghua University	Past, Present and Future of Air Pollution Prevention and Control in China
✓ 11:45-12:10	Wenqing LIU 刘文清	Hefei Institute of Physical Science, CAS	Past, Present and Future of Atmospheric Monitoring Techniques in China
Session P-2			
Date: 17 November 时间: 11月17日下午		Chair: Shanling GONG and Zifa WANG 主持人: 龚山陵、王自发	
13:30-13:55	Yuanhang ZHANG 张远航	Peking University	Past, Present and Future of Air Pollution Complex Research in China
13:55-14:20	Kebin HE 贺克斌	Tsinghua University	Past, Present and Future of Source Identification of Air Pollutants
14:20-14:45	Shaw-Chen LIU 刘绍臣	Jinan University	Current Status and Future Development of Research on Interaction between Air Pollution and Climate Change
✓ 14:45-15:10	Lidia MORAWSKA	Queensland University of Technology	Current Status and Future Trend of Sensor Technology in Air Pollution Monitoring
15:10-15:35	Xiaoming SHI 施小明	Chinese Center for Disease Control and Prevention	Past, Present and Future of Research on Air Pollution and Human Health in China
Session P-3			
Date: 18 November 时间: 11月18日上午		Chair: Chak K. CHAN and Jianmin CHEN 主持人: 陈泽强、陈建民	
08:30-08:55	Hong HE 贺泓	Research Center for Eco-Environ. Sciences, CAS	Research Frontier of Catalytic Removal Techniques of Ozone and its Precursors
✓ 08:55-09:20	David PARRISH	NOAA	Mathematically Quantitative Analysis of Long-term Trends and Seasonal Cycles of Tropospheric Ozone
09:20-09:45	Christopher FREY	North Carolina State University	The Growing Role of Portable Emission Measurement Systems in Answering Technical and Policy Questions About Vehicle Emissions
09:45-10:10	Gregory CARMICHAEL	University of Iowa	Improving Air Quality (and Weather) Predictions Through Closer Integration of Observations and Models

Plenary Session (大会主旨报告)

Time: Nov. 17-19

Venue: Huizhan

Staff-in-charge: Run LIU and Yonglin LIU

时间：11月17日上午-19日下午

地点：会展厅

会场负责人：刘润、刘永林

Time	Presenter	Organization	Title
Session P-4			
Date: 19 November		Chair: Gan ZHANG and Changhong CHEN	
时间：11月19日下午		主持人：张干、陈长虹	
14:30-14:55	Shu TAO 陶澍	Peking University	Application of PKU-series emission inventories
14:55-15:20	Fahe CHAI 柴发合	Chinese Research Academy of Environmental Sciences	Challenge and Practice of Air Pollution Co-prevention and Co-control in China
15:20-15:45	Tao WANG 王韬	Hong Kong Polytechnic University	Recent Research of Reactive Nitrogen Chemistry and Impact on Air Quality over China
15:45-16:10	Guy BRASSEUR	Max Planck Institute for Meteorology	An International Multi-Model Operational Air Pollution Forecasting System for China
16:10-16:35	Renyi ZHANG 张人一	Texas A&M University	Insights into the Mechanism of Severe Haze Formation in China: Progress and Challenges

Parallel Session 1 - Air Pollution Monitoring, Forecast and Warning (监测与预报预警)

Time: Nov. 17-19

Venue: Wuyang

Staff-in-charge: Lingbin KONG

时间: 11月17日下午-19日上午

地点: 五羊厅

会场负责人: 孔令彬

Time	Presenter	Organization	Title
Session 1-1			
Date: 17 November 时间: 11月17日下午		Chair: Cheng LIU and Frank LEE 主持人: 刘诚、李顺诚	
15:50-16:10	Zifa WANG 王自发	Institute of Atmospheric Physics, CAS	Progress and Future Development of Air Pollution Forecast and Warning in China
16:10-16:30	Chak K. CHAN 陈泽强	City University of Hong Kong	Chemical Characteristics of Brown Carbon Aerosols at a Suburban Site Near Guangzhou, China
16:30-16:50	Judith CHOW	Desert Research Institute	The Value of Multiwavelength Carbon Measurements to Separate Biomass Burning from Other Source Contributions
16:50-17:10	John WATSON	Desert Research Institute	Lessons Learned from a Half Century of Central California Air Quality Studies and Their Applicability to China
17:10-17:30	Jingyue TANG 唐靖玥	Focused Photonics (Hangzhou) Inc.	Technical Progress in the Monitoring of Composition of Atmospheric Complex Pollution
17:30-17:45	Duohong CHEN 陈多宏	Guangdong Environmental Monitoring Center	Development and Application of Regional Air Quality Forecast System
17:45-18:00	Qing ZHAO 赵晴	Make Environment S&T Co., Ltd.	Development and Application of Policymaking Platforms for Urban Air Quality Management in China with Integrated Model Framework
18:00-18:15	Fei HUANG 黄飞	Hangzhou Wmade Intelligent Technology Co., Ltd.	Artificial Intelligence Assists in PM _{2.5} Research and Analysis
Session 1-2			
Date: 18 November 时间: 11月18日下午		Chair: Jianjun LI and Gayle HAGLER 主持人: 李健军、Gayle HAGLER	
13:30-13:50	Shanling GONG 龚山陵	Chinese Academy of Meteorological Sciences	Current Status and Challenge of Haze Forecast and Warning in China
13:50-14:10	Jimmy FUNG 冯志雄	Hong Kong University of Science and Technology	Fine Scale Street-level Air Quality Modeling
14:10-14:30	Daiwen KANG 康代温	U.S. EPA	Quantification of Lightning-induced Nitrogen Oxides in CMAQ and the Assessment of its Impact on Ground-level Air Quality
14:30-14:50	Pinhua XIE 谢品华	Hefei Institute of Physical Science, CAS	MAX-DOAS Network and its Application in Regional Air Pollution
14:50-15:05	Tingzhen MING 明廷臻	Wuhan University of Technology	Numerical Simulation on Pollutant Transport in Complex 3-D Transportation System
15:05-15:20	Yangyang CAI 蔡阳阳	Wuxi CAS Photonics Co., Ltd.	Technology and Application of DOAS-Based Ozone Lidar
✓ 15:20-15:35	Freeman CHEUNG 张俊明	AECOM Asia Ltd.	Application of Air Quality Monitoring System in a Special Industrial Park

Parallel Session 1 - Air Pollution Monitoring, Forecast and Warning (监测与预报预警)

Time: Nov. 17-19

Venue: Wuyang

Staff-in-charge: Lingbin KONG

时间: 11月17日下午-19日上午

地点: 五羊厅

会场负责人: 孔令彬

Time	Presenter	Organization	Title
Session 1-3			
Date: 18 November		Chair: Jimmy FUNG and Daiwen KANG	
时间: 11月18日下午		主持人: 冯志雄、康代温	
15:50-16:10	Jianjun LI 李健军	China Environmental Monitoring Center	Progress and Outlook of Operational Nation-wide Environmental Quality Forecast
16:10-16:30	Gayle HAGLER	U.S. EPA	U.S. EPA Perspective and Research on Emerging Air Sensor Technology
16:30-16:50	Zhi NING 宁治	City University of Hong Kong	City-wide Mobile Air Sensor Network in Hong Kong for Evidence-based Air Quality Management
16:50-17:10	Jian GAO 高健	Chinese Research Academy of Environmental Sciences	Research and Development of Air Pollutant Sensor Technology
17:10-17:30	Baodong XU 徐宝东	Beijing AVORS Technology Co., Ltd.	Application of Portable Lidar on Particulate Pollution Monitoring
17:30-17:45	Cheng WU 吴晟	Jinan University	Quantifying Black Carbon Light Absorption Enhancement by a Novel Statistical Approach
17:45-18:00	Wilson TSUI 徐秉璋	PTC International Ltd.	Quality Audit of On-Line GC Systems
18:00-18:15	Zhen YAN 严珍	Metrohm China Ltd.	Monitor for AeRosols and Gasses in Ambient Air with MARGA
Session 1-4			
Date: 19 November		Chair: Liangfu CHEN and Zhi NING	
时间: 11月19日上午		主持人: 陈良富、宁治	
08:30-08:50	Zhen ZHOU 周振	Jinan University	Dynamic Source Apportionment of PM _{2.5} based on Single-Particle Aerosol Mass Spectrometry
08:50-09:10	Jianguo LIU 刘建国	Hefei Institute of Physical Science, CAS	Progress of Haze Monitoring Technique
09:10-09:30	Lin WANG 王琳	Fudan University	Application of High-resolution Mass Spectrometry to Investigate Compositional Characteristics of Organic Aerosol in Shanghai
09:30-09:45	Berto LEE	City University of Hong Kong	Diurnal and Day-to-day Characteristics of Ambient Particle Mass Size Distributions from HR-ToF-AMS Measurements at an Urban Site and a Suburban site in Hong Kong
09:45-10:00	Masao GEN	City University of Hong Kong	Electrospray-Surface Enhanced Raman Spectroscopy (ES-SERS) of Individual Aerosol Particles
10:00-10:15	Suxia YANG 杨素霞	Beijing Saak-Mar Environmental Instrument Ltd.	Application of PAN Analyzer and Spectral Radiometers in Photochemical Measurement

Parallel Session 1 - Air Pollution Monitoring, Forecast and Warning (监测与预报预警)

Time: Nov. 17-19

Venue: Wuyang

Staff-in-charge: Lingbin KONG

时间: 11月17日下午-19日上午

地点: 五羊厅

会场负责人: 孔令彬

Time	Presenter	Organization	Title
Session 1-5			
Date: 19 November 时间: 11月19日上午		Chair: Jianguo LIU and Lin WANG 主持人: 刘建国、王琳	
10:30-10:50	Liangfu CHEN 陈良富	Institute of Remote Sensing and Digital Earth, CAS	Satellite Monitoring of Explosive Increase Mechanism of Particulates in North China Plain
10:50-11:10	Cheng LIU 刘诚	University of Science and Technology of China	Air Pollution 3-D Remote Sensing
11:10-11:30	Lingjun LI 李令军	Beijing Environmental Protection Monitoring Center	Application of Satellite Remote Sensing in Environmental Monitoring in Beijing
11:30-11:45	Zifeng WANG 王子峰	Institute of Remote Sensing and Digital Earth, CAS	Near-real-time Estimation of PM _{2.5} Based on Stationary Satellite Monitoring and Meteorological Observational Data
11:45-12:00	Zengliang ZANG 臧增亮	National University of Defense Technology	A three-dimensional Variational Data Assimilation System for Satellite AOD and an Application to Aerosol Prediction in North China
12:00-12:15	Changqing LIN 林常青	Hong Kong University of Science and Technology	PM _{2.5} Trends in China from 2001 to 2015 Using Satellite Remote Sensing
12:15-12:30	Xiaofeng SUN 孙小凤	Comde-Derenda (Wuxi) Measuring Technologies Co., Ltd.	Intelligent Monitoring Technology of Ambient Air Quality Based on the Integration of RFID Technology and Cloud Platform

Parallel Session 2 - Emission Source Characterization and Retrieval (排放源表征与溯源)**Time:** Nov. 18-19**Venue:** Huizhan A**Staff-in-charge:** Yonglin LIU

时间: 11月18日下午-19日上午

地点: 会展A厅

会场负责人: 刘永林

Time	Presenter	Organization	Title
Session 2-1			
Date: 18 November 时间: 11月18日下午		Chair: Yingjun CHEN and Hezhong TIAN 主持人: 陈颖军、田贺忠	
13:30-13:50	Hongjun MAO 毛洪钧	Nankai University	Research Progress of Emissions from Vehicle Exhaust
13:50-14:10	Mindong CHEN 陈敏东	Nanjing University of Information Science and Technology	Characterization of Source and Composition of Organic Aerosol by EESI-Tof Method
14:10-14:30	Joshua FU	University of Tennessee	Direct Radiative Effect of Dust and Biomass Burning over East Asia
14:30-14:50	Pingqing FU 傅平青	Institute of Atmospheric Physics, CAS	Fluorescent Biological Aerosols in the Atmosphere
14:50-15:05	Jia XING 邢佳	Tsinghua University	Responsive Relationship between Emission and Pollution and its Guidance on Policy-making
15:05-15:20	Jun TAO 陶俊	South China Institute of Environmental Sciences	PM _{2.5} Mass, Chemical Compositions and Sources in Megacities in China
15:20-15:35	Yonghong LIU 刘永红	Sun Yat-sen University	Characteristic Analysis and Source Identification of Atmospheric Pollution in Haizhu District of Guangzhou
Session 2-2			
Date: 18 November 时间: 11月18日下午		Chair: Mindong CHEN and Pingqing FU 主持人: 陈敏东、傅平青	
15:50-16:10	Dom LAVIGNE	Methanol Institute	Methanol: Meeting the 2020 Challenge
16:10-16:30	Hezhong TIAN 田贺忠	Beijing Normal University	Spatial-temporal Variation Characteristics of Toxic Heavy Metals Emission and Pollution in Beijing-Tianjin-Hebei (BTH) Region of China
16:30-16:50	Yingjun CHEN 陈颖军	Tongji University	Preliminary Study on Emission Mechanism of BC and PAHs from Residential Coal Combustion
16:50-17:10	Yu ZHAO 赵瑜	Nanjing University	Improved Provincial Emission Inventory and Speciation Profiles of Anthropogenic Non-Methane Volatile Organic Compounds: A Case Study for Jiangsu, China
17:10-17:30	Huan LIU 刘欢	Tsinghua University	Multi-scale Shipping Emission Inventory and its Air Quality Impact
17:30-17:45	Chongzhi ZHAI 翟崇治	Chongqing Environmental Monitoring Center	Practice of VOCs Emission Inventory Compilation
17:45-18:00	Sean LAM	Pacific Environment Ltd.	Utilising COPERT Australia and CCAM-CTM to Investigate Air Quality Impact with Improved Fuel Quality
18:00-18:15	Zhipeng LEI 雷志鹏	Guangzhou Hexin Instrument Co., Ltd.	Single Particle Characteristics of Aerosols Emitted from Biomass Boilers

Parallel Session 2 - Emission Source Characterization and Retrieval (排放源表征与溯源)

Time: Nov. 18-19

Venue: Huizhan A

Staff-in-charge: Yonglin LIU

时间: 11月18日下午-19日上午

地点: 会展A厅

会场负责人: 刘永林

Time	Presenter	Organization	Title
Session 2-3			
Date: 19 November 时间: 11月19日上午		Chair: Yinchang FENG and Yu ZHAO 主持人: 冯银厂、赵瑜	
08:30-08:50	Joost DE GOUW	NOAA	Budget of Organic Carbon in a North American Megacity: Results from the NOAA CalNex Study in 2010
08:50-09:10	Qiang ZHANG 张强	Tsinghua University	Socioeconomic Factors Driving Air Pollution
09:10-09:30	Junyu ZHENG 郑君瑜	Jinan University	Reconciling the Discrepancies in VOCs Source Characterization Between Emission Inventory and Receptor Modeling
09:30-09:45	Shaofei KONG 孔少飞	China University of Geosciences (Wuhan)	The Establishment of Emission Lab for Aerosols and Recent Research Progresses: from Source Emission to Receptor Monitoring of Central China
09:45-10:00	Fei LIU	NASA Goddard Space Flight Center	NO _x Emission Trends over China Estimated from OMI Observations during 2005 to 2015
10:00-10:15	Hongliang ZHANG 张红亮	Nanjing Handa Environmental Science and Technology Ltd.	Preliminary Analyses of PM _{2.5} ACSM Measurements in Handan, China
Session 2-4			
Date: 19 November 时间: 11月19日上午		Chair: Joost de GOUW and Qiang ZHANG 主持人: Joost de GOUW、张强	
10:30-10:50	Yinchang FENG 冯银厂	Nankai University	Progress of Source Apportionment Techniques of Atmospheric Particulates
10:50-11:10	Boguang WANG 王伯光	Jinan University	Emission Characteristics and Source Apportionment of VOCs from Oil Refinery
11:10-11:30	Rujin HUANG 黄汝锦	Institute of Earth Environment, CAS	Sources and Atmospheric Evolution of Fine Particulate Matter in Middle-size Chinese cities During Haze Pollution Events
11:30-11:45	Guoliang SHI 史国良	Nankai University	Source Apportionment and Aerosol pH
11:45-12:00	Shengwen LIANG 梁胜文	Wuhan Environmental Monitoring Center	A Temporally and Spatially Resolved Validation of Source Apportionment by Measurements of Ambient Volatile Organic Compounds in Central China
12:00-12:15	Freda FUNG 冯淑慧	Fung Research	Implementation and Application of the Integrated Source Apportionment Method Within the CMAQ Modeling System
12:15-12:30	Alex GBAGUIDI	Allied Sustainability and Environmental Consultants Group	Impact of Regional Transboundary PM _{2.5} Pollution on Hong Kong: Application of Source Tagging Method

Parallel Session 3 - Causes and Mechanisms of Air Pollution Complex (大气复合污染成因机制)**Time:** Nov. 18-19**Venue:** Yuewang**Staff-in-charge:** Jun YANG

时间: 11月18日上午、19日上午

地点: 越王厅

会场负责人: 杨军

Time	Presenter	Organization	Title
Session 3-1			
Date: 18 November 时间: 11月18日上午		Chair: Sandra SAUNDERS and Jianzhen YU 主持人: Sandra SAUNDERS、郁建珍	
10:30-10:50	Jianmin CHEN 陈建民	Fudan University	Explosive Increase Mechanism of Fine Particulates and Research Difficulties
10:50-11:10	Maofa GE 葛茂发	Institute of Chemistry, CAS	Atmospheric Heterogeneous Process and the Formation of Secondary Aerosol
11:10-11:30	Stefano DECESARI	National Research Council of Italy	Aerosol-fog Interaction Studies in the Po Valley, Italy
11:30-11:50	Steven BROWN	NOAA	Nighttime Chemistry in East Asian Megacities: Field Results from a Mountaintop and Tall Tower in Hong Kong and Seoul
11:50-12:10	Hang SU 苏杭	Jinan University	Atmosphere-surface Exchange of HONO and its Impact on the Atmospheric Chemistry and Nitrogen Cycle
12:10-12:25	Senchao LAI 赖森潮	South China University of Technology	Atmospheric Observations over the South China Sea: the Importance of Continental Outflow
Session 3-2			
Date: 19 November 时间: 11月19日上午		Chair: Xinming WANG and Weijun LI 主持人: 王新明、李卫军	
08:30-08:50	Sandra SAUNDERS	University of Western Australia	Comprehensive Study on the Atmospheric Degradation of Alpha-phellandrene: Detailed Mechanism Development and SOA Characterization
08:50-09:10	Wei HUANG 黄伟	University of Science and Technology of China	Molecule-level Nucleation Mechanism of Atmospheric Aerosols
09:10-09:30	Xiaofeng HUANG 黄晓锋	Peking University Shenzhen Graduate School	Volatility of Sub-Micron Particulates in the Urban air of Southern China
09:30-09:45	Bin YUAN 袁斌	Jinan University	Investigation of Atmospheric Oxidation Mechanism Based on Oxidized VOCs
09:45-10:00	Yongjie LI 黎永杰	University of Macau	Heterogeneous Uptake of Ammonia by Secondary Organic Aerosol (SOA): Effect of Phase State and Formation of Organonitrogen Species
10:00-10:15	Tengyu LIU 刘腾宇	City University of Hong Kong	Formation of Secondary Organic Aerosols from Gas-phase Emissions of Heated Cooking Oils

Parallel Session 3 - Causes and Mechanisms of Air Pollution Complex (大气复合污染成因机制)

Time: Nov. 18-19

Venue: Yuewang

Staff-in-charge: Jun YANG

时间: 11月18日上午、19日上午

地点: 越王厅

会场负责人: 杨军

Time	Presenter	Organization	Title
Session 3-3			
Date: 19 November 时间: 11月19日上午		Chair: Wei HUANG, Hang SU 主持人: 黄伟、苏杭	
10:30-10:50	Xinming WANG 王新明	Guangzhou Institute of Geochemistry, CAS	Photochemical Aging of Plumes from Opening Burning of Crop Residuals
10:50-11:10	Yafang CHENG 程雅芳	Jinan University	Reactive Nitrogen Chemistry in Aerosol Water as a Source of Sulfate During Haze Events in China
11:10-11:30	Weijun LI 李卫军	Zhejiang University	Chemical composition, Source, and Process of Urban Aerosols During Winter Haze Formation in Northeast China
11:30-11:45	Lin DU 杜林	Shandong University	Atmospheric Chemical Reactions of Volatile Organic Compounds
11:45-12:00	Zhe WANG 王哲	Hong Kong Polytechnic University	Observation of Significant Heterogeneous Production of ClNO ₂ in Northern China
12:00-12:15	Yingyi ZHANG 张颖仪	South China University of Technology	Proteins and Amino Acids in Fine Particulate Matter in Rural Guangzhou, Southern China: Seasonal Cycles, Sources, and Atmospheric Processes
12:15-12:30	Yang CHEN 陈阳	Chongqing Inst. of Green and Intelligent Tech.,	Single-Particle Chemical Composition, Behavior, and Sources of Particles in Typical Urban Atmosphere of China

Parallel Session 4 - Ozone Pollution and Precursors Control (臭氧污染与前体物控制)

Time: Nov. 18-19

Venue: Huizhan B

Staff-in-charge: Shan HUANG

时间: 11月18日下午-19日上午

地点: 会展 B厅

会场负责人: 黄山

Time	Presenter	Organization	Title
Session 4-1			
Date: 18 November		Chair: Shaodong XIE and Hai GUO	
时间: 11月18日下午		主持人: 谢绍东、郭海	
13:30-13:50	Zhengping HAO 郝郑平	Research Center for Eco-Environ. Sciences, CAS	Porous Materials and Technologies for VOCs Control and Applications
13:50-14:10	Daiqi YE 叶代启	South China University of Technology	Catalytic Oxidation of Toluene over Platinum Supported on Ceria Catalysts: Performance and Reaction Mechanism
14:10-14:30	Wenfeng SHANGGUAN 上官文峰	Shanghai Jiaotong University	ESP Optimization and Ozone-formaldehyde Coupled Catalytic Purification in the Synergistic Control of PM _{2.5} and Ozone
14:30-14:50	Haibao HUANG 黄海保	Sun Yat-sen University	Ozone-assisted Catalytic Oxidation of VOCs at Room-temperature
14:50-15:05	Dengsong ZHANG 张登松	Shanghai University	Rational design, Preparation and Performance of DeNOx Nanocatalysts
15:20-15:35	Feng OUYANG 欧阳锋	Harbin Institute of Technology	NO Low-Temperature Removal by Sulfur and H ₂ O Resistance SCR Ultra-low Emission Control Technology
15:05-15:20	Yu HUANG 黄宇	Institute of Earth Environment, CAS	Characterization of Ambient VOCs in Guanzhong Basin and Their Impacts on Surface Ozone Formation
Session 4-2			
Date: 18 November		Chair: Zhengping HAO and Daiqi YE	
时间: 11月18日下午		主持人: 郝郑平、叶代启	
15:50-16:10	Shaodong XIE 谢绍东	Peking University	Control of Key VOCs Species and Sources in the Pearl River Delta Based on Formation of Ozone and SOA
16:10-16:30	Hai GUO 郭海	Hong Kong Polytechnic University	Influence of Interaction Between Marine and Continental Air Masses on the Ozone Pollution in Coastal Region of South China Sea
✓ 16:30-16:50	Qingyan FU 伏晴艳	Shanghai Environmental Monitoring Center	Current Status and Formation Analysis of Ozone Pollution in Shanghai
✓ 16:50-17:10	Xiangzhi ZHANG 张祥志	Jiangsu Environmental Monitoring Center	Survey of Current Status of Ozone and Precursors in Typical Cities of Jiangsu
✓ 17:10-17:30	Benfeng PAN 潘本锋	Beijing SDL Technology Co., Ltd.	Monitoring Program of Ozone Pollution and Precursors in China
17:30-17:45	Hongli WANG 王红丽	Shanghai Academy of Environmental Sciences	Characteristics and Control of Ozone Pollution in the Yangtze River Delta
17:45-18:00	Puqing XU 徐圃青	Changzhou Academy of Environmental Sciences	Investigation on the Causes of Severe Ozone Pollution in the Western Taihu Area (Yixing)
✓ 18:00-18:15	Leo WANG		Innovative Online VOCs Monitoring and Case Studies

Parallel Session 4 - Ozone Pollution and Precursors Control (臭氧污染与前体物控制)

Time: Nov. 18-19

Venue: Huizhan B

Staff-in-charge: Shan HUANG

时间: 11月18日下午-19日上午

地点: 会展 B厅

会场负责人: 黄山

Time	Presenter	Organization	Title
Session 4-3			
Date: 19 November 时间: 11月19日上午		Chair: Qingyan FU and Haibao HUANG 主持人: 伏晴艳、黄海保	
08:30-08:50	Min SHAO 邵敏	Jinan University	Function of Reactive Organic Gases in the Formation of Air Pollution: Progress and Challenge
08:50-09:10	Taicheng AN 安太成	Guangdong University of Technology	Formation Mechanisms of Tropospheric Ozone and SOA from typical VOCs and Attenuation of its Precursors by Photocatalytic Technology
✓ 09:10-09:30	Mattias HALLQUIST	University of Gothenburg	Characterization of Photochemical Smog in Beijing and Hong Kong
09:30-09:45	Liya FAN 范丽雅	South China University of Technology	Spatial and Temporal Characteristics of Ozone Formation Sensitivity over PRD by Ozone Monitoring Instrument
✓ 09:45-10:00	Hairong CHENG 成海容	Wuhan University	Summertime Ozone and Precursor Pollution Characteristics in Wuhan
10:00-10:15	Lanqun HU 胡兰群	Nanyang Environmental Monitoring Station	Spatially Resolved VOCs Source Apportionment and Their Implications for Ozone Control Strategy in Nanyang, Henan Province

Parallel Session 5 - Regional Co-prevention and Co-control (大气复合污染区域联防与精细化管控)

Time: Nov. 18

Venue: Yuewang

Staff-in-charge: Jun YANG

时间: 11月18日下午

地点: 越王厅

会场负责人: 杨军

Time	Presenter	Organization	Title
Session 5-1			
Date: 18 November		Chair: Jian GAO and Bin LUO	
时间: 11月18日下午		主持人: 高健、罗彬	
13:30-13:50	Peter LOUIE 雷国强	Hong Kong Environmental Protection Department	An Overview of Marine Emission Control Measures in Hong Kong
13:50-14:10	Frank LEE 李顺诚	Hong Kong Polytechnic University	Characteristics of Atmospheric Pollution after Implementation of Air Quality Assurance Measures in Shanghai for the 2016 G20 Summit
14:10-14:30	Gan ZHANG 张干	Guangzhou Institute of Geochemistry, CAS	Selected Persistent Organic Pollutants (POPs) in Fine Particulates (PM _{2.5}) from 10 Chinese Cities
14:30-14:50	Wentao CHEN 陈文韬	Guangdong Polytechnic of Environmental Protection Engineering	Practice of Air Quality Management in the Pearl River Delta and Thinkings on its Continuous Improvement
14:50-15:05	Zhixi ZHU 朱祉熹	Natural Resources Defense Council	Prevention and Control of Emissions from Ships in China's Port Regions - Technology and Strategy
15:05-15:20	Simon NG 吴家颖		Green Ferries for Hong Kong
15:20-15:35	Ivar MYKLEBOST and Buli LENG	Chu Kong Shipping	Possible Solutions for Fast Ferry Energy Saving and Emission Reduction in the Pearl River Delta
Session 5-2			
Date: 18 November		Chair: Shuiyuan CHENG and Hong YE	
时间: 11月18日下午		主持人: 程水源、叶宏	
15:50-16:10	Shuiyuan CHENG 程水源	Beijing University of Technology	Characteristics of Regional Heavy Pollution in the Beijing-Tianjin-Hebei Area and Control Strategies
16:10-16:30	Yiping TIAN 田一平	Hubei Environmental Monitoring Center	Current Status and Management of Air Pollution in Hubei
16:30-16:50	Bin LUO 罗彬	Sichuan Environmental Monitoring Center	Emergency Control Techniques and Practices for Heavy Pollution in the Sichuan Basin
16:50-17:10	Qinwen TAN 谭钦文	Chengdu Academy of Environmental Protection Sciences	Evaluation of Effectiveness of 2017 Ozone Control Special Action in Chengdu
17:10-17:30	Li LI 李莉	Shanghai Academy of Environmental Sciences	Integrated Source Apportionment of PM _{2.5} over the Yangtze River Delta Region
17:30-17:45	Ying LI 李莹	Southern University of Science and Technology	Integrated Analysis to Differentiate Impact of Individual Air Pollution Control Policies
17:45-18:00	Hsin-Chih Lai 赖信志	Chang Jung Christian University	Taiwan Air Quality Control Measures and Key Improvement Factor Analysis
18:00-18:15	Haige HU 胡海鸽	Langfang Smart Environment Ecological Industry Research Institute	Scientific Control Measures and Achievements of Air Pollution Control in Langfang

Parallel Session 6 - Exposure Assessment and Health Impact (暴露评估与健康影响)

Time: Nov. 17-18

Venue: Yunshan

Staff-in-charge: Buqing ZHONG

时间: 11月17日下午、18日下午

地点: 云山厅

会场负责人: 钟部卿

Time	Presenter	Organization	Title
Session 6-1			
Date: 17 November 时间: 11月17日下午		Chair: Guanghui DONG and Shyamali DHARMAGE 主持人: 董光辉、Shyamali DHARMAGE	
15:50-16:10	Joachim HEINRICH	University of Munich	Ambient Air Pollution and Allergies in Birth Cohorts: A Systematic Review and Meta-analysis
16:10-16:30	Haidong KAN 阚海东	Fudan University	Ambient Air Pollution and Human Health in China: Current Evidence and Future Directions
16:30-16:50	Linwei TIAN 田林玮	University of Hong Kong	Surface Ozone: the Lower the Better?
16:50-17:10	Marjut ROPONEN	University of Eastern Finland	The Effects of Urban Air Particulate Matter and Farm Dust Particles on Children's Immune Responses in Vitro
17:10-17:30	Shyamali DHARMAGE	University of Melbourne	The Impact of Air Pollution on Allergies and Lungs in Low Pollution Settings
17:30-17:45	Ang ZHAO 赵昂	Rock Environment and Energy Institute	Investigation of Public's Behavior to Air Pollution of Beijing Subway Commuters and the PM _{2.5} Exposure in the Subway Cars
17:45-18:00	Xiangqian LAO 劳向前	Chinese University of Hong Kong	Health Effects of Ambient PM _{2.5} Air Pollution: Research findings from a Longitudinal Cohort Study with 0.5 Million Participants
18:00-18:15	HOI KA IN	University of Macau	Seasonal Difference of PM ₁₀ Exposure in a Diesel Bus
Session 6-2			
Date: 18 November 时间: 11月18日下午		Chair: Pierpaolo MUDU and Yuming GUO 主持人: Pierpaolo MUDU、郭玉明	
13:30-13:50	Guanghui DONG 董光辉	Sun Yat-sen University	Ambient Air Pollution and Health Impact in China: A Review Based on Chinese Survey
13:50-14:10	Maosheng YAO 要茂盛	Peking University	Real-time Online Monitoring System (dLABer) for Living Body Biomarker of Toxicity of Air Particulates
14:10-14:30	Iana MARKEVYCH	University of Munich	Interrelations Between Vegetation, Air Pollution and Health
14:30-14:50	Pasi JALAVA	University of Eastern Finland	Chemical Composition Influences the Toxicological Responses Elicited by Size-Segregated Urban Air Particulate Matter
14:50-15:05	Rui LI 李睿	Central China Normal University	Study on the Hematopoietic Toxicity in Mice Induced by a Combined Exposure of PM _{2.5} and Formaldehyde and its Molecular Mechanism
15:05-15:20	Wenwei CHE 车汶蔚	Hong Kong University of Science and Technology	Characterizing Human Exposure to Air Pollutants in Urban Areas
√ 15:20-15:35	Pei-Chih Wu 吴佩芝	Chang Jung Christian University	Evaluating the Effectiveness of Reducing Human Exposure to PM _{2.5} from Various Mobile and Stationary Source Controls by Using ABaCAS-Taiwan

Parallel Session 6 - Exposure Assessment and Health Impact (暴露评估与健康影响)

Time: Nov. 17-18

Venue: Yunshan

Staff-in-charge: Buqing ZHONG

时间: 11月17日下午、18日下午

地点: 云山厅

会场负责人: 钟部卿

Time	Presenter	Organization	Title
Session 6-3			
Date: 18 November 时间: 11月18日下午		Chair: Joachim HEINRICH and Wenwei CHE 主持人: Joachim HEINRICH、车汶蔚	
15:50-16:10	Pierpaolo MUDU	World Health Organization	Acute and Chronic Health Effects of Air Pollution: Challenges in the Quantification of Impacts
16:10-16:30	Alexis LAU 刘启汉	Hong Kong University of Science and Technology	PRAISE-HK - a Personalised Real-time Air-quality Informatics System for Exposure for Hong Kong
16:30-16:50	Yuming GUO 郭玉明	Jinan University	Estimating Spatiotemporal Distribution of PM ₁ and its Health Impacts in China
16:50-17:10	Furong DENG 邓芙蓉	Peking University	The Hot Issues of Health Effects and Traffic-related Air Pollution in China
17:10-17:30	Jun YANG 杨军	Jinan University	Dust Haze and Health in China
17:30-17:45	Huimin MA 马慧敏	Guangzhou Institute of Geochemistry	Inflammation Responses to Water-Soluble Fractions of Fine Particular Matter (PM _{2.5}) in Ten Big Cities of China during One Year
17:45-18:00	Tao LIU 刘涛	Guangdong Provincial Center for Disease Control and Prevention	Long-term Mortality Benefits of Air Quality Improvement During the Twelfth Five-Year-Plan Period in 31 Capital Cities of China
18:00-18:15	Boyi YANG 杨博逸	Sun Yat-sen University	Association Between Long-term Ambient Air Pollution and Prehypertension: the 33 Communities Chinese Health Study

Parallel Session 7 - Weather, Climate and Air Pollution (天气气候与大气污染)

Time: Nov. 18-19

Venue: Yunshan

Staff-in-charge: Buqing ZHONG

时间: 11月18日上午、19日上午

地点: 云山厅

会场负责人: 钟部卿

Time	Presenter	Organization	Title
Session 7-1			
Date: 18 November 时间: 11月18日上午		Chair: Meigen ZHANG and Lin ZHANG 主持人: 张美根、张霖	
10:30-10:50	Shaojia FAN 范绍佳	Sun Yat-sen University	Investigation of Boundary Layer Structure in the Pearl River Delta and its Impact on Air Quality
10:50-11:10	Hong YE 叶宏	Sichuan Academy of Environmental Sciences	Thinking on Climate Change and Haze Formation
11:10-11:30	Bin ZHU 朱彬	Nanjing University of Information Sci. and Tech.	Numerical Simulation on the Impact of Black Carbon-Boundary Layer Interaction on Ozone
11:30-11:45	Li DAN 丹利	Institute of Atmospheric Physics, CAS	The Climate Effect of Heavy Pollution over South China during the Past 50 Years
11:45-12:00	Jianping GUO 郭建平	Chinese Academy of Meteorological Sciences	Observational Studies of Boundary Layer in China and Implication on Air Pollution
12:00-12:15	Jianping HUANG 黄建平	Nanjing University of Information Sci. and Tech.	A Large Eddy Simulation Study of The Atmospheric Boundary Layer Structures under Smoggy Conditions
12:15-12:30	Amos TAI 戴沛权	Chinese University of Hong Kong	Effects of Plant-atmosphere Interactions on Ozone Air Quality under Climate Change
Session 7-2			
Date: 19 November 时间: 11月19日上午		Chair: Bin ZHU and Li DAN 主持人: 朱彬、丹利	
08:30-08:50	Meigen ZHANG 张美根	Institute of Atmospheric Physics, CAS	Modeling Impacts of Urbanization and Urban Heat Island Mitigation on Boundary Layer Meteorology over Beijing
08:50-09:10	Aijun DING 丁爱军	Nanjing University	Simulation on the Radiative Effects of Aerosols and the Interaction with Boundary Layer Meteorology and Haze Pollution in Eastern China
09:10-09:30	Tzung-May FU 傅宗玫	Peking University	Strategic Reduction of Anthropogenic Emissions to Alleviating Severe Haze Events in Northern China
09:30-09:45	Lin ZHANG 张霖	Peking University	Sources and Processes Affecting PM _{2.5} Pollution over North China during Short-term Emission Control Periods
09:45-10:00	Yanling XU 许艳玲	Chinese Academy for Environmental Planning	PM _{2.5} Pollution Characteristics and Synoptic Impact over Beijing-Tianjin-Hebei Area in the Q1 of 2017
10:00-10:15	Jianjun HE 何建军	Chinese Academy of Meteorological Sciences	Analyses of Circulation Weather Type and their Impacts on PM _{2.5} Concentration in Beijing

Parallel Session 7 - Weather, Climate and Air Pollution (天气气候与大气污染)**Time:** Nov. 19

时间: 11月19日上午

Venue: Yunshan

地点: 云山厅

Staff-in-charge: Buqing ZHONG

会场负责人: 钟部卿

Time	Presenter	Organization	Title
Session 7-3			
Date: 19 November 时间: 11月19日上午		Chair: Aijun DING and Tzung-May FU 主持人: 丁爱军、傅宗玫	
10:30-10:50	Dui WU 吴兑	Jinan University	Synoptic Condition Favorable for the Formation of Photochemical Smog
10:50-11:10	Xuemei WANG 王雪梅	Jinan University	Developing Fine-scale Urban Canopy Parameters to Address Atmospheric Environmental Issues
11:10-11:30	Ning ZHANG 张宁	Nanjing University	A Micro-Scale Model for Urban Wind Field and Air Pollutant Dispersion Simulation
11:30-11:45	Xuejiao DENG 邓雪娇	Institute of Tropical and Marine Meteorology, CMA	Characteristics of Radiation of China's Three Major Economic Regions and its Relationship with O ₃ and PM _{2.5} in the Past 10 Years
11:45-12:00	Yang GAO 高阳	Ocean University of China	The Mechanism Modulating the High Haze Events in China
12:00-12:15	Xinghong CHENG 程兴宏	Chinese Academy of Meteorological Sciences	Short-term Aerosol Radiative Effects and their Regional Difference During Heavy Haze Episodes in January 2013 in China
12:15-12:30	Qian LIU 刘骞	Sun Yat-sen University	Dual Effects of the Winter Monsoon on Haze-Fog Variations in Eastern China

Special Session - Guangdong - Hong Kong - Macao Joint PM_{2.5} Study (粤港澳 PM_{2.5} 联合研究)**Time:** Nov. 19

时间: 11月19日上午

Venue: Huizhan B

地点: 会展 B厅

Staff-in-charge: Shan HUANG

会场负责人: 黄山

Time	Presenter	Organization	Title
Special Session			
Date: 19 November 时间: 11月19日上午		Chair: Yubo OU and Xiaofeng HUANG 主持人: 区宇波、黄晓锋	
10:30-10:50	Alexis LAU 刘启汉	Hong Kong University of Science and Technology	Summary Findings of the Joint PM _{2.5} Improvement Study in the Pearl River Delta
10:50-11:10	Jay TURNER	Washington University in St. Louis	Long-Term Trends and a Conceptual Model for Ambient Particulate Matter Air Quality over Hong Kong
11:10-11:30	Jianzhen YU 郁建珍	Hong Kong University of Science and Technology	Long-Term Observations in Hong Kong: PM _{2.5} Speciation and Sources
11:30-11:45	Xiaoming LYU 吕小明	Guangdong Environmental Monitoring Center	Investigation on the Formation of Typical Air Pollution in the Pearl River Delta
11:45-12:00	Xiang DING 丁翔	Guangzhou Institute of Geochemistry, CAS	Secondary Organic Aerosols over Pearl River Delta, South China
12:00-12:15	Haobo TAN 谭浩波	Guangdong Eco-Meteorological Center	Influence of Aerosol Hygroscopicity and Mixing State on Aerosol Optical Properties in the Pearl River Delta region, China
12:15-12:30	Zibing YUAN 袁自冰	South China University of Technology	A Conceptual Model for PM _{2.5} in the Pearl River Delta

Program Schedule - Poster Section (海报展示)

ID	Name	Organization	Title
S1-1	Zhijiong HUANG	Jinan University	A Feasible Methodology Framework for Quantitative Uncertainty Analysis of Atmospheric Chemical Transport Models
S1-2	Peng WEI	City University of Hong Kong	A New Air Monitoring System Application and Case Study in a Local Area
S1-3	Ye KUANG	Jinan University	A Novel Method for Calculating Ambient Aerosol Liquid Water Contents Based on Measurements of a Humidified Nephelometer System
S1-4	Ziwei MO	The University of Hong Kong	A Wind Tunnel Study of Pollutant Plume Dispersion over Hypothetical Urban Roughness
S1-5	Zac, Yik Him FUNG	Hong Kong University of Science and Technology	Air Quality Response to Street Canyon Geometry in Urban Area
S1-6	Jason, Ming Chun LAM	Hong Kong University of Science and Technology	An Evaluation of Implementing 3DVAR Data Assimilation on WRF
S1-7	Hanqing LIU	Chinese Research Academy of Environmental Sciences	Analysis of Pollution Process in Beijing by Single Particle Mass Spectrometry
S1-8	Xiaodan MA	Nanjing University of Information Science & Technology	Characteristic Analysis and Source Identification of Atmospheric Pollution in Haizhu District of Guangzhou
S1-9	Ming ZHU	Guangzhou Institute of Geochemistry, CAS	Characteristics and Sources of PM _{2.5} During 2014-2016 Spring Festival in the Pearl River Delta
S1-10	Shanshan WANG	Huaqiao University	Characteristics and Sources Apportionment of Atmospheric Particulates during the Spring Festival in a Coastal City in China
S1-11	Lintong WEI	Peking University Shenzhen Graduate School	Chemical Characteristics and Spatial Distribution of Submicron Aerosols in Zhejiang Province
S1-12	Jiangchuan TAO	Jinan University	Consistency and Applicability of Parameterization Schemes for the Size-resolved Aerosol Activation Ratio Based on Field Measurements in the North China Plain
S1-13	Gaofeng SHI/Guoying WANG	Lanzhou University of Technology	Constant Energy Synchronous Fluorescence Detection of Polycyclic Aromatic Hydrocarbons from Polluted Air
S1-14	Haoxian LU	Hong Kong Polytechnic University	Detection and Field Measurement of Acidic Ultrafine Particles Based on Standard Acidic Ultrafine Particle Generation System
S1-15	Liangxiao CHENG	Institute of Remote Sensing and Digital Earth, CAS	Field Verification of VIIRS 375m Active Fire Detection Results in Northeast China
S1-16	Meilan WANG	Hong Kong University of Science and Technology	Forecasting Real-time PM _{2.5} in Extreme-high-density city: An Integrated Neural Network Model Framework in Hong Kong
S1-17	Guanglin JIA	South China University of Technology	Historical Evolutions of Anthropogenic Air Pollutants Emissions for Guangdong Province, China from 2006 to 2015
S1-18	Yusi HUANG	Wuhan University	Impact of Column-to-Surface Vertical Correction Method on the Ambient PM _{2.5} /Satellite AOD Relationship in China
S1-19	Shan HUANG	Jinan University	Latitudinal Distribution of Particulate MSA and MSA: nssSO ₄ over the Atlantic Using a Validated Quantification Method with HR-ToF-AMS
S1-20	Sheng LI	Guangzhou Institute of Geochemistry, CAS	Light Absorption of Brown Carbon Aerosol in Guangzhou: A Filter-Based Method from O ₂ Initiated SO ₂ Oxidation to Sulfuric Acid

ID	Name	Organization	Title
S1-21	Chunlei CHENG	Jinan University	Mixing State of Oxalic acid Containing Particles in the Rural Area of Pearl River Delta, China: Implications for the Formation Mechanism of Oxalic Acid
S1-22	Simon, Ho Chin HUNG	Hong Kong University of Science and Technology	Monitoring and Analysis of PM _{2.5} Inorganic Aerosols and Water-Soluble Gases in Hong Kong
S1-23	Hui YUN	Hong Kong Polytechnic University	Nighttime NO _x Loss and ClNO ₂ Formation in the Residual Layer of a Polluted Region: Insights from Field Measurements and An Iterative Box Model
S1-24	Yingze TIAN	Nankai University	PM _{2.5} 组分长期数据、高时间分辨率数据、多点位数据的特征对源解析影响研究
S1-25	Tong MA	Chinese Research Academy of Environmental Sciences	Review of PM _{2.5} Source Apportionment Results of 40 Cities in China
S1-26	Hongmei XU	Xi'an Jiaotong University	Seasonal and Annual Variations in Atmospheric Hg and Pb Isotopes in Xi'an, China
S1-27	Yang ZHOU	Ocean University of China	Single Particle Analysis of Amine-Containing Aerosol at a Coastal Site in Qingdao
S1-28	Bastian STIEGER	Leibniz Institute for Tropospheric Research	Source Apportionment Studies and Instrumental Comparisons with the On-line System MARGA in Melpitz, Germany
S1-29	Nicole, XiaoLin XIE	Hong Kong University of Science and Technology	Street Canyon Modelling in the Urban Areas of Hong Kong
S1-30	Qing ZHANG/Kai ZHANG	City University of Hong Kong	Super Compact Airborne Platform for Air Quality Monitoring and Ship Emission Fast Screening
S1-31	Nini FENG	Chinese Research Academy of Environmental Sciences	The Analysis and Comparison of Chemical Components during the Heating Season in 2016-2017 in Beijing, Tianjin and Langfang
S1-32	Lulu YAN	Chinese Research Academy of Environmental Sciences	The Application of the Methods in Particles Sources Apportionment during Heavy Pollution Process
S1-33	Ying KANG	Institute of Atmospheric Physics, CAS	The Characteristics and Source Analysis of PM _{2.5} in an Urban City in the Western North China Plain from 2013-2015
S1-34	Yingjie LI	Shanghai Academy of Environmental Sciences	The Characteristics of Atmospheric Phthalates in Shanghai: A Haze Case Study
S1-35	Rongrong WANG	Beijing Normal University	The Numerical Simulation of Multi-Model Ensemble to Air Pollution in Beijing
S1-36	Huazhe SHANG	Institute of Remote Sensing and Digital Earth, CAS	基于 Himawari-8 的卫星云和雾霾检测算法的应用
S1-37	Nan CHEN	Hubei Environmental Monitoring Center	激光雷达在大气环境监测中的应用
S1-38	Jing GONG	Ocean University of China	青岛近海生物气溶胶中总微生物浓度及粒径的季节变化
S1-39	Yanke YU	Xi'an Jiaotong University	热失活硫酸铁 SCR 催化剂的原位再生研究
S1-40	Bin ZHANG	Peking University	中国某城市大气 PM _{2.5} 中主要化学成分的消光贡献解析
S2-1	Xiaofang LIN	Sun Yat-sen University	A Vehicle Emission Monitoring and Impact Assessment System Based on Dynamic Traffic State

ID	Name	Organization	Title
S2-2	Andromeda WONG	Hong Kong University of Science and Technology	Air Quality in Domestic Kitchens: Cooking with Gas or Electricity?
S2-3	Xiao FU	Hong Kong Polytechnic University	Anthropogenic Inorganic Chloride Emissions in China
S2-4	Zhisheng ZHANG	South China Institute of Environmental Science, MEP	Biomass Burning Impacts on Fine Particles at Two Megacities of North China during 2014 APEC Summit
S2-5	Cheng LI	Jinan University	Decadal Evolution of Ship Emissions in China from 2004 to 2013 by Using an Integrated AIS-based Approach and Projection to 2040
S2-6	Long CUI	Hong Kong Polytechnic University	Decrease of Real-World Vehicular VOC Emissions in Hong Kong from 2003 to 2015: A Tunnel Study
S2-7	Fei YU	Jinan University	Development of a Portable Real-Time on-Board Vehicle HCHO and HONO Emission Measurement System
S2-8	Ling MU	Hong Kong University of Science and Technology	Emission Characteristics of Heavy Metals and Their Behavior during Coke Production in China
S2-9	Yahui BIAN	South China University of Technology	Historical Evolutions of Anthropogenic Air Pollutants Emissions for Guangdong Province, China from 2006 to 2015
S2-10	Xiaxia ZHANG	South China University of Technology	Identification of PM ₁₀ Source Contribution Trends and Impact of External Transport in Hong Kong from 1998 to 2015
S2-11	Jiao XU	Nankai University	Mass Spectra Features of Particles Emitted by two Burning Boilers by Single Particle Aerosol Mass Spectrometer
S2-12	CHENG, Yuk YING	Hong Kong University of Science and Technology	Minimizing Contamination from Plastic Labware in the Quantification of C16 and C18 Fatty Acids in Filter Samples of Atmospheric Particulate Matter
✓ S2-13	Nan LI	Nanjing University of Information Science & Technology	Potential Impacts of Electric Vehicles on Air Quality in Taiwan
S2-14	Xu FENG	Peking University Shenzhen Graduate School	Predicting Pollutant Emissions from Agricultural Waste Burning in Guangdong Province Using Neural Network
S2-15	Yisheng ZHANG	Qingdao University of Technology	Primary Carbonaceous Gases and Aerosol Emissions from Rural Typical Solid Fuel Combustion Sources in Northern China
S2-16	Qianyun LIU	Hong Kong University of Science and Technology	Real-world Gaseous and Particle Emissions from Individual City Buses in Gothenburg
S2-17	Yiqi ZHANG	Hong Kong University of Science and Technology	Significance of Incorporating Unidentified Vessels in AIS-Based Estimation for Ship Emission Inventory
S2-18	Guowei YANG	China University of Geosciences	Size-resolved Emission Factors of Carbonaceous Particles from Residential Coal Combustion in China
S2-19	Yanli ZHANG	Guangzhou Institute of Geochemistry, CAS	Spatial and Seasonal Variability and Emission Ratios of Volatile Organic Compounds (VOCs) in the Pearl River Delta (PRD) Region
S2-20	Jian WU	China University of Geosciences	The Estimation of Pollutant Emissions via Open Biomass Burning in Central and Eastern China from 2003 to 2015 based on Satellite Observations
S2-21	Isobel SIMPSON	University of California, Irvine	Urban and Industrial VOC Emissions in Korea during KORUS-AQ
S2-22	Changda WU	Jinan University	Volatile Organic Compounds Emitted from Biomass-pellet-fired Industrial Boilers in Pearl River Delta, China: Characterization and Emission Factor

ID	Name	Organization	Title
S2-23	Qin YAN	Nanjing University of Information Science & Technology	中国民用燃煤排放细颗粒物中水溶性离子清单及减排启示
S3-1	Sainan WANG	South China University of Technology	Formation of First-Generation Multifunctional Products in the OH-Initiated Oxidation of Isoprene
S3-2	Fangxia SHEN	Beihang University	Pro-inflammatory Effects of PM _{2.5} from Beijing Winter Haze: Revealing the Role of Individual External and Internal Microbiome
S3-3	Xiaoyun SUN	Nanjing University of Information Science & Technology	Relative Humidity Intensifying Visibility Impairment in Wintertime Haze Pollution in Nanjing
S3-4	Jason, Xing Cheng Lu	Hong Kong University of Science and Technology	Sensitivity and Improvement of PM _{2.5} Simulation to the Below-cloud Washout Schemes in Atmospheric Chemical Transport Models
S3-5	Lewei ZENG	Hong Kong Polytechnic University	Sources and photochemical formation of C1-C5 alkyl nitrates in suburban Hong Kong and over South China Sea (SCS)
S3-6	Zhenhao LING	Sun Yat-sen University	Study on the roles of Semi-Volatile Organic Compound in the Formation of Secondary Organic Aerosol in East China
S3-7	Siyang LI	Shandong University	The Interaction of Inorganics with Lipid Monolayer at the Sea Surface
S3-8	Alison, Tan Yui LI	Hong Kong University of Science and Technology	Vertical Variation of CO ₂ and PM _{2.5} Under Complex Air Circulation in High-Rise Urban Environment
S3-9	Tian FENG	Institute of Earth Environment, CAS	Wintertime Nitrate Formation during Haze Days in the Guanzhong Basin, China: A case study
S4-1	Yanbo GAI	Hefei Institute of Physical Science, CAS	Effect of NO ₂ on Formaldehyde Yield in Isoprene Ozonolysis Reactions
S4-2	Liran SHEN	Jinan University	Emission Characteristics and Ozone Formation Potential of Carbonyl Compounds Emitted from Biomass-fired-boilers
S4-3	Zhaofeng TAN	Peking University	Explicit Diagnosis of the Local Ozone Production Rate and the Ozone-NO _x -VOCs Sensitivities
S4-4	Zhaoyi WANG	Guangzhou Institute of Geochemistry, CAS	High-resolution Online Measurement of Volatile Organic Sulfur Compounds in the Atmosphere
S4-5	Daocheng GONG	Jinan University	Low Isoprene Observed at a Mountain Forest Site in Southern China: Implications for Regional Atmospheric Oxidative Capacity
S4-6	Qinyi LI	Hong Kong Polytechnic University	'New' Reactive Nitrogen Chemistry Reshapes the Ozone Relationship to its Precursors
S4-7	Huang ZHENG	China University of Geosciences	One Year Monitoring of Volatile Organic Compounds (VOCs) from an Oil-gas Station in Northwest China
S4-8	Youwei HONG	Institute of Urban Environment, CAS	Spatial and Temporal Pattern of Surface Ozone during the Ninth BRICS Summit: Implication to Control Strategies
S4-9	Yu WANG	Hong Kong Polytechnic University	Surface O ₃ Photochemistry over the South China Sea: Application of a Near-explicit Chemical Mechanism Box Model
S4-10	Mingchen MA	Ocean University of China	The Mechanism Modulating the High Ozone Events in North China during the Summer of 2017
S4-11	Rui ZHANG	Jinan University	Variations of Ground-level O ₃ and its Precursors in Guangzhou between 2000 and 2016
S4-12	Xiao HAN	Institute of Atmospheric Physics, CAS	华北地区臭氧时空分布特征及来源的模拟研究

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S4-14	Yijun YU	Changzhou Environmental Monitoring Center	藻源 VOCs 对空气臭氧贡献的驱动影响—藻源 VOCs 释放及光化学反应潜力
S5-1	Yeqi HUANG	Hong Kong University of Science and Technology	Application of Air Parcel Residence Time Analysis on Emission Control Policy in Pearl River Delta
S5-2	Binyan TANG	Institute of Atmospheric Physics, CAS	Characteristics of Complex Air Pollution in Typical Cities of North China
S5-3	Yan YANG	Chinese Research Academy of Environmental Sciences	Chemical Composition of PM _{2.5} in Different Regions of China
S5-4	Xin LONG	Institute of Earth Environment, CAS	Effect of Ecological Restoration Programs on Dust Pollution in North China Plain, China
S5-5	Peter, Yeung Pak Shing	Hong Kong University of Science and Technology	Evaluating the Impacts towards Meteorological Variables Between Expanding Urban Area and Increasing Building Height in Hong Kong
S5-6	Zhaobin SUN	Institute of Urban Meteorology, CMA	Oscillation of Surface PM _{2.5} Resulted from Alternation of Easterly and Southerly Wind in Beijing: Mechanisms and Implications
S5-7	Huayao SHAN	Ocean University of China	Study on the Characteristics and Mechanisms of Haze Pollution during the Heating Period in Qingdao, China
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S5-10	Jianxin WU	Jinan University	The Distribution Dynamics of Air pollution across Chinese Cities: Convergence, Polarization, and Stratification
S5-11	Tingting HU	Jinan University	Variations of Haze Days in Guangdong and Their Possible Causes during 1973-2016
S5-12	Jingda LIU	Nanjing University of Information Science & Technology	南京工业区夏冬季节二次有机气溶胶浓度估算及来源解析
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S6-2	Zhiyuan LI	Hong Kong University of Science and Technology	Factors Affecting Variability in PM _{2.5} Exposure Concentrations in a Metro System
S6-3	Zhuozhi ZHANG	Hong Kong Polytechnic University	Indoor and Outdoor Air Quality and Carbonaceous Characteristics of Aerosols at Residential Homes in Four Cities: Hong Kong, Shanghai, Xi'an, and Guangzhou
S6-4	Fenhuan YANG	City University of Hong Kong	Personal Exposure Assessment in Urban Living: A study of Hong Kong Air Pollution
S6-5	Ben LIU	University of Macau	Potential Exposure to Fine Particulate Matter (PM _{2.5}) and Black Carbon on Jogging Trails in Macau
S6-6	Shengzhen ZHOU	Sun Yat-sen University	珠三角地区高时间分辨率颗粒物采样和分析研究：颗粒物源解析和健康风险评估
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S7-3	Yonglin LIU	Jinan University	Effect of Cloud-to-ground Lightning to the Atmospheric NO _x and O ₃
S7-4	Yumiao ZHANG	Hong Kong University of Science and Technology	Effect of Mid-Latitude Cyclone Frequency on Fine Particulate Matter (PM _{2.5}) in Hong Kong and Implications for PM _{2.5} to Climate Change
S7-5	Bing XIE	National Climate Centre	Effective Radiative Forcing and Climate Response due to Short-lived Climate Pollutants Under Different Scenarios
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S7-8	Xin HUANG	Nanjing University	Simulation on the Radiative Effects of Aerosols and the Interaction with Boundary Layer Meteorology and Haze Pollution in Eastern China
S7-9	Xiaobing PANG	Nanjing University of Information Science & Technology	The Impacts of Water Vapour and Co-pollutants on the Performance of Electrochemical Gas Sensors Used for Air Quality Monitoring
S7-10	Ye LI	Ocean University of China	The Influence of Polar Vortex Pattern in Asia Mainland Region on Haze-fog in Northern China
S7-11	Yongwei WANG	Nanjing University of Information Science & Technology	不同边界层参数化方案对 PM _{2.5} 浓度模拟的影响—以一次冬季重污染为例
S7-12	Yi GAO	Institute of Atmospheric Physics, CAS	华北平原重雾霾过程中气溶胶和边界层内气象要素之间的相互反馈的数值模拟
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