

The 4th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions

Theme: Regional air quality management: from science to policy

14-17 January 2014

The Hong Kong University of Science and Technology, Hong Kong, China

(Final Announcement and Program Agenda)

Website: www.ust.hk/4raqm

Following the success of the first three workshops (which were held in 2007, 2009 and 2011) on Regional Air Quality Management in Rapidly Developing Economic Regions, with the continuous supports from the environmental authorities and academic institutes in Hong Kong and Guangdong, and also leveraging the focus of the recently published Special issue of Atmospheric Environment on "*Improving Regional Air Quality over the Pearl River Delta and Hong Kong: from Science to Policy*", we are pleased to announce that "The 4th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions" with the theme "Regional Air Quality Management: from Science to Policy" will be held in Hong Kong from 14-17 January 2014 at the Hong Kong University of Science and Technology (HKUST).

Building upon the last three conferences and the AE Special Issue, this workshop aims at building a high-level platform for environmental scientists, engineers, government officials, enterprise managers, etc. to review the *air* quality sciences and pollution control policies, and put forward effective action ideas within the next five to ten years to expedite the interaction between science and pollution control policy to make contributions in improving regional air quality and protecting public health.

It is hoped that the conference can produce a summary (or a few summaries) to be submitted for journal publication regarding the direction of air quality science research and air control policy priorities in the next five to ten years for regional air quality improvement in China.

Theme

- State of air quality science in China
- Fine Particulates (PM2.5) and their health impact
- Ozone and VOC pollution
- Regional Air Quality management system and how science can effectively drive policy

Special focus

- Opportunities and challenges in air quality management in China in the coming five to ten years

Registration

- **Pre-registration starts 14:00 on Monday Jan 13 at Crowne Plaza Hotel and lasts until 20:30**
- **Registration and help desks start at 08:00 on Tuesday Jan 14.**
- Most up-to-date information about the conference is available at <http://envr.ust.hk/4raqm>.

Workshop Venue (Academic Building, HKUST)

- All **plenary sessions** on Tuesday (14 January) and Thursday (16 January) will be held at the **Lecture Theater J** at the Academic Building of HKUST.
- **Parallel sessions** on Wednesday (15 January) will be held at Lecture Theaters J and K, Rooms 1505, 4619, 4620 and 5619. Please see attached map for more information.
- The **Poster Session** will be held between 17:30 to 19:00 **outside Lecture Theater J** on Wednesday (15 January). Refreshments will be served. **Posters can be set up at the display site after registration**, and be removed after the close of the Poster Session. Any poster not removed by noon on Thursday (16 January) will be discarded.

Opening Ceremony and Conference Banquet

- The **opening ceremony** will be held at 0830 on 14 January at **Lecture Theater J**. All are invited.
- The **Conference Banquet** will be held at 1800 on 14 January at the **Chinese Restaurant** at HKUST. All registered participants are invited.

Lunch

- **Each registered participant will be provided with HK\$100 worth of meal coupons for lunch** or refreshments from 14 to 16 January. They can be used at the following HKUST restaurants: Coffee Shop, LG1 Canteen II, LG5 McDonald, LG7 Kitchen 1, LG7 Kitchen 2 and LG7 Kitchen 3. Please see conference **map on the reverse side of your badge** for their locations.
- **All plenary speakers and session chairs are also invited to join a sit-in lunch at the Chinese Restaurant** during the lunch breaks on 14 and 15 January.



Final Program Agenda

- Please find the enclosed final program agenda. **There are changes from the draft program, please check the final of your talk and sessions.** The most up-to-date program will be made available at the conference website <http://envr.ust.hk/4raqm>.



Presentation arrangements

- Please note that you will NOT be able to use your own computer for your presentation. **Please bring your presentation file (in ppt or pdf format) on a USB drive to the help desk for uploading during registration or the coffee breaks.**
- You can use either English or Chinese for your presentation. However, since we have a number of international participants, **please help by putting some English translations for the keywords or main conclusions if you use Chinese for your presentation.**
- Since we have a very tight schedule and we are running parallel session, **we ask all the session chairs to keep a strict time limit.** The time allocated for all the talks in the parallel session is 15 minutes. We recommend the use of 12 minutes for presentation and 3 minutes for Q/A. Helpers will alert the speaker after 10 and 12 minutes. After 15 minutes, a timer will sound and we request that the speaker should stop the presentation (if still on-going) immediately.
- For the parallel sessions, we shall try to maintain the posted schedule. **If a speaker cannot make his / her presentation, we ask the session chairs to extend the Q/A period for the earlier talks, or to suspend the session and resume the session at the posted time.**
- We plan to the presentations (in pdf format) on the conference website afterwards. **Please let us know by email to 4raqm@ust.hk before the end of January 2014 if you want to show an edited version of your file, or if you do not want your file to be included.**



Transportation

- **There will be 2 conference coaches taking participants from the Crowne Plaza and the Holiday Inn Hotels at the following schedule:**
 - a. 07:40 on Tuesday Jan 14 from Hotels to HKUST for Opening Ceremony
 - b. 21:00 on Tuesday Jan 14 from HKUST to Hotels after Conference Banquet
 - c. 08:15 on Wednesday Jan 15 from Hotels to HKUST for Day 2 Parallel Sessions
 - d. 08:15 on Thursday Jan 16 from Hotels to HKUST for Day 3 Summary Session
 - e. 08:40 on Friday Jan 17 from Hotels to HKUST for site visit tour
- Please refer to <http://envr.ust.hk/4AQM/transportation.html> for more transport information.



Non-Smoking Campus

- Please note that HKUST is a non-smoking campus. **Smoking is not allowed throughout the campus, both indoor and outdoor.** From the conference venue, one needs to take a 3-5 minute walk to leave the university before smoking is allowed.

Short Course (for description, see http://envr.ust.hk/4raqm/short_course.pdf)

- We are pleased to announce that Drs. **Judith Chow** and **John Watson** of DRI have kindly agreed to organize a one day short course on “**PM_{2.5} Measurements for Air Quality Management**” at room 4619 on Friday Jan 17. The course fee is HK\$1000 or RMB 800. **Those interested should register at the help desk or online at http://envr.ust.hk/4raqm/shortcourse_reg.html.**



Site visits (0900 – 1300, Friday Jan 17)

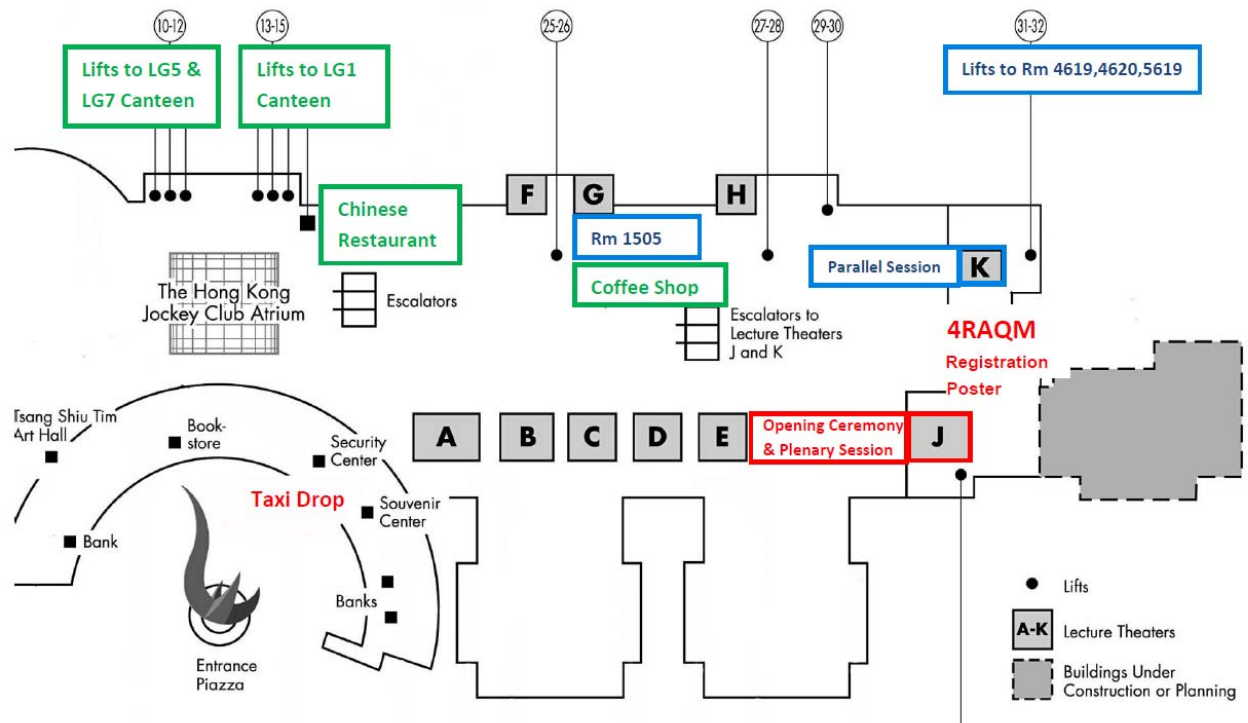
- We have arranged a site visit for the following three locations:
 - a. The HKUST Research Air Quality Supersite Facility
 - b. HKEPD Vehicle Emission Remote Sensing Facility
 - c. HKEPD Central Roadside Air Quality Monitoring Station
- Those who are interested please register online at http://envr.ust.hk/4raqm/sitevisit_reg.html
- The site visit **coach will first pick up participants from the hotels at 08:40, and then pick up other participants at HKUST piazza (i.e. taxi drop on the enclosed map) at 09:00.** We expect the site visits to finish by 13:00, and the coach will bring the participants back to the hotels.



Best Student Paper and Best Young Researcher Award

- To encourage participation of young researchers, we are creating two awards this year. One for the **best student paper** and one for best paper from **recent PhDs graduated in or after 2009.** To be eligible, the **winner must be the 1st author and also present his/her paper** in the workshop.
- If you want to be considered for these awards, please email the Secretariat at 4raqm@ust.hk or inform us during registration to let us know about your student / young research status.
- **Session chairs** are given a score sheet and asked to help **assess the presentations. Participants competing for these awards are encouraged to inform the session chairs of their status.**

Academic Building Directory



Conference Chair

- Conference Chair: Christine Kung-wai Loh, Under Secretary, Environment Bureau, The HKSAR Government
- Co-Chair: Joseph Hun-wei Lee, Vice President for Research and Graduate Studies, The Hong Kong University of Science and Technology

Organized By :

- The Hong Kong University of Science and Technology
- South China University of Technology
- Tsinghua University
- Environment Bureau, The HKSAR Government
- Guangdong Regional Atmospheric Environmental Research Center

Hosted By Division of Environment, The Hong Kong University of Science and Technology

Advisory Committee

- | | |
|------------------|--|
| • Kefa Cen | Zhejiang University, Academician of Chinese Academy of Engineering, China |
| • Guangrong Chen | Guangdong Environmental Protection Bureau |
| • Zhi Dang | South China University of Technology, China |
| • Dale Evarts | Environmental Protection Agency, USA |
| • Jiamo Fu | Guangzhou Institute of Geochemistry, Academician of Chinese Academy of Sciences, China |
| • Colin Hong | Beijing-Hong Kong Academic Exchange Center, Hong Kong |
| • Alan Lloyd | The International Council on Clean Transportation, USA |
| • W.C. Mok | Environmental Protection Department, Hong Kong |
| • Jeanne Ng | CLP Holdings, Hong Kong |
| • Xiaoyan Tang | Peking University, Academician of Chinese Academy of Engineering, China |
| • Wenxing Wang | Shandong Uni., Academician of Chinese Academy of Engineering, China |
| • Quan Zhang | Shanghai Environmental Protection Bureau |
| • Zhentian Zhang | Guangdong Environmental Protection Bureau |
| • Yingmin Zhao | Ministry of Environmental Protection |

Updated Program Agenda

PROGRAM SUMMARY – JAN. 13-17, 2014

Date	Major Event
Monday, Jan. 13, 2014	Pre-registration
1400 – 2100	Registration at Crowne Plaza Hong Kong Kowloon East Hotel
Tuesday, Jan. 14, 2014	Day 1: Air Quality – From Science to Policy
0800 – 1200	Registration
0830 – 0900	Opening Remarks
0900 – 1800	Plenary Sessions 1 – 4
1800 – 2000	Conference Banquet
Wednesday, Jan. 15, 2014	Day 2: Technical Sessions
0900 – 1900	Parallel Sessions & Poster Session
Thursday, Jan. 16, 2014	Day 3: The Way Forward
0900 – 1100	Session Report and Discussion
1100 – 1110	Presentation of Best Student Paper and Young Professional Awards
1140 – 1300	Conference Summary and Publication Discussion
Friday, Jan. 17, 2014	Day 4: Short Course and Site Visits
0830 – 1700	Short Course: PM _{2.5} Measurements for Air Quality Management by Dr. Judith C. Chow and Dr. John G. Watson Venue: Rm 4619. Registration fee: HK\$1,000. Register at http://envr.ust.hk/4raqm/shortcourse_reg.html
0900 – 1300	Site Visits (50 spaces available): 1. HKUST Air Quality Research Supersite 2. Vehicle Emission Remote Sensing Facility 3. HKEPD Central Roadside Air Quality Monitoring Station Register at http://envr.ust.hk/4raqm/sitevisit_reg.html or at help desk

2014 PROGRAM GRID – TUESDAY, JAN. 14

Tuesday, Jan. 14, 2014 Air Quality - From Science to Policy

Location: Lecture Theatre J

	Event	Title	Session Chair
0800	Registration outside Lecture Theatre J		
	Opening Ceremony		
	Joseph LEE	Vice President for Research, The Hong Kong University of Science and Technology	
	Kam-sing WONG	Secretary for the Environment, HKSAR Government	
0830 – 0900	Zhiwen PAN	Director, Environmental Protection Bureau of Foshan, Guangdong	
	Dale EVARTS	Group Leader, Climate, International and Multimedia Group, United States EPA	
	Colin HONG	Division Head, Beijing-Hong Kong Academic Exchange Center	
	Jiming HAO	Chair, Conference Academic Committee; Academician, Tsinghua University	
0900 – 1030	Plenary 1	Air Quality Science in China – Review and Challenges	<i>Christine Loh, Dale Evarts</i>
0900 – 0930	Jiming HAO	Air Quality Issues and Challenges	
0930 – 1000	Christine LOH	Air Quality Science and Policy	
1000 – 1100	Group Photo and Coffee Break		
1100 – 1240	Plenary 2	Health, Economy and Policy	<i>Christine Loh, Dale Evarts</i>
1100 – 1120	Shaw-chen LIU	Is global warming a significant cause of worsening haze problem in China?	
1120 – 1140	Bingheng CHEN	Regional air pollution management -- an environmental health perspective	
1140 – 1200	Robert O'KEEFE	AQ Health Issues in Developing Economies	
1200 – 1220	H. Christopher FREY	Transportation Energy Use, Emissions, Air Quality, Human Exposure & Health Impact	
1220 – 1240	Hajime AKIMOTO	SLCP Co-benefit Strategy on Air Quality and Climate in East Asia	
1240 – 1420	Lunch		
1420 – 1600	Plenary 3	Particulates and Visibility	<i>Peter Louie, John Watson</i>
1420 – 1440	Chak CHAN	Summary of results from Hong Kong Supersite Study	
1440 – 1500	Judy CHOW	Quality Assurance/Quality Control of Air Quality Measurements	
1500 – 1520	Markus AMANN	Controlling PM _{2.5} pollution in Europe: the importance of NH ₃ emissions from agricultural activities	
1520 – 1540	Pen-chi CHIANG	Maximization of CO ₂ Fixation Capacity by Steelmaking Slag Carbonation in a Rotating Packed Bed	
1540 – 1600	Tong ZHU	Air Pollution in Megacity Beijing and North China Plain	
1560 – 1640	Coffee Break		
1640 – 1800	Plenary 4	Photochemical Smog and Challenges in AQM	<i>Peter Louie, John Watson</i>
1640 – 1700	Tao WANG	Increasing external impact negates local control effort for ozone air pollution: a case study of Hong Kong and implications for other Chinese cities	
1700 – 1720	Min SHAO	Variations of ground-level ozone and its precursors in Beijing in summertime	
1720 – 1740	Donald BLAKE	Impact of the Hong Kong's catalytic converter exchange program on roadside VOC concentrations	
1740 – 1800	Yinon RUDICH	Evolution of the complex refractive index in the UV spectral region in ageing secondary organic aerosol	
1800 – 2000	Conference Banquet		

2014 PROGRAM GRID – WEDNESDAY, JAN. 15

Wednesday, Jan. 15, 2014 Technical Sessions

Time	Session ID	Session Title	Room ID	Session Chair
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Starting at 0900

0900 – 1030 Group 1

T1R1	Emission Characterization, Inventory and Trend	R1	Xuemei Wang, Hezhong Tian
T1R2	The Hong Kong Supersites: Findings and Implications (Part 1)	R2	Chak Chan, Tao Wang
T1R3	The Meteorology and the Impact on Air Quality	R3	Huiting Mao, Wenshi Lin
T1R4	Integrated Air Quality Management: From Science to Policy (Part 1)	R4	Christopher Fung, Wenjing Deng
T1R5	Advanced Monitoring, Analysis and Comparisons	R5	Aijun Ding, Fred Prata
T1R6	Pollution Formation and Process Analysis (Part 1)	R6	Jianzhen Yu, Junhua Li

1030 – 1100 Coffee Break

1100 – 1230 Group 2

T2R1	VOC Emission and the Impact on Ozone	R1	Min Shao, Daiqi Ye
T2R2	The Hong Kong Supersites: Findings and Implications (Part 2)	R2	Chak Chan, Tao Wang
T2R3	PM Modeling and Process Analysis	R3	Ralph Morris, Tzung-May Fu
T2R4	Integrated Air Quality Management: From Science to Policy (Part 2)	R4	Dave Ho, Gayle Hagler
T2R5	Aerosol Optical Characteristics and Remote Sensing	R5	Allen Zheng, Frank S.C. Lee
T2R6	Pollution Formation and Process Analysis (Part 2)	R6	Xinming Wang, Tijian Wang

1230 – 1400 Lunch

1400 – 1530 Group 3

T3R1	Source Identification, Apportionment and Process Studies	R1	Jay Turner, Yinchang Feng
T3R2	Aerosol Characterization and Measurement (Part 1)	R2	Mei Zheng, Changhong Chen
T3R3	Air Quality Modeling, Prediction and Control Assessment	R3	Hai Guo, Sam Saunders
T3R4	Marine Emissions and Control Strategy	R4	David Pettit, Simon Ng
T3R5	Health Risk Communication: Exposure and Public Health (Part 1)	R5	H. Christopher Frey, Chit Ming Wong

1530 – 1600 Coffee Break

1600 – 1730 Group 4

T4R1	Control Strategy and Experiences	R1	Donald Blake, Kebin He
T4R2	Aerosol Characterization and Measurement (Part 2)	R2	Jianmin Chen, Zibing Yuan
T4R3	Air Quality Modeling in Urban Areas	R3	Jonathan E. Pleim, C.H. Liu
T4R4	Defeating Challenges and Achieving Solutions	R4	Christine Loh, Markus Amann
T4R5	Health Risk Communication: Exposure and Public Health (Part 2)	R5	Bingheng Chen, T. W. Wong

1730 – 1900 Poster Session (Outside Lecture Theatre J, refreshment will be served)

Room ID	R1	R2	R3	R4	R5	R6
Location	Room 4619	Room 4620	Room 5619	Lecture Theatre J	Lecture Theatre K	Room 1505
Nearest lift	Lift 31-32					Lift 25-26

2014 PROGRAM GRID – THURSDAY, JAN. 16

Thursday, Jan. 16, 2014 The Way Forward

Location: Lecture Theatre J

Time	Session ID	Session Title	Session Chair
Starting at 0900			
0900 – 1100		Session Report and Discussion (5 minute reports by session chairman, followed by plenary discussions)	<i>Shaw-chen Liu, John Watson</i>
1100 –1110		Presentation of Best Student Paper Awards and Young Professional Awards	<i>Christine Loh</i>
1110 – 1130		Coffee Break	
1130 – 1250		Conference Summary and Publication Discussion	<i>Christine Loh, Kevin He</i>
1250 – 1300		Conference Closing Ceremony	

TECHNICAL SESSIONS

Wednesday, Jan. 15, 2014		0900 –1030	
Session ID	T1R1	T1R2	T1R3
Session Title	Emission Characterization, Inventory and Trend <i>Chair: Xuemei WANG, Hezhong TIAN</i>	The Hong Kong Supersites: Findings and Implications (Part 1) <i>Chair: Chak CHAN, Tao WANG</i>	The Meteorology and the Impact on Air Quality <i>Chair: Huiting MAO, Wenshi LIN</i>
Location	Room 4619 (Lift 31-32)	Room 4620 (Lift 31-32)	Room 5619 (Lift 31-32)
9:00 - 9:15	Emission and Control of Hazardous Trace Elements (HTEs) from Anthropogenic Activities in China <i>Hezhong TIAN, Beijing Normal University, China</i>	The Government-Academic Collaboration Framework of The Hong Kong Supersites Air Quality Monitoring Program: Its Objectives and Key Findings <i>Larry SUEN, Environmental Protection Department, Hong Kong</i>	Simulation of wind Circulation and pollutant diffusion over the Pearl River Delta region <i>Wenshi LIN, Sun Yat-sen University, China</i>
9:15 - 9:30	Nitrogen Oxides Emissions from Coal-fired power plants in China: Current Status and Future Predictions <i>Kaiyun LIU, Beijing Normal University, China</i>	An Integrated Study of Photochemical Air Pollution in Hong Kong: an Overview <i>Likun XUE, The Hong Kong Polytechnic University</i>	Sources and Dynamic Processes Controlling Background and Peak Concentrations of TGM in Nanjing, China <i>Huiting MAO, Nanjing University, China</i>
9:30 - 9:45	Development of high-resolution emission inventory of air pollutants for Nanjing, the host city of 2 nd YOG <i>Liping QIU, Nanjing University, China</i>	Ambient VOCs characterized by the IMR-MS multiple gas analyzer <i>Arthur P.S. LAU, The Hong Kong University of Science and Technology</i>	The research about the influence of the meteorological data to the PM _{2.5} daily concentration forecasting model based on the BP neural network <i>Dawen YAO, Sun Yat-sen University, China</i>
9:45 – 10:00	Estimated trends in on-road vehicle emissions of Yangtze-River-Delta in China from 2010 to 2030 <i>Xiaomeng WU, Tsinghua University, China</i>	The sources and formation mechanisms of submicron particles in an urban background area of Hong Kong <i>Kalam CHEUNG, The Hong Kong Polytechnic University</i>	A comparison of HYSPLIT back-trajectories generated from GDAS1 and GDAS0P5 data <i>Lin SU, The Hong Kong University of Science and Technology</i>
10:00 – 10:15	Progress and Direction of Air Pollutant Emission Inventories in China <i>Allen ZHENG, South China University of Technology, China</i>	Characteristics of ambient non-refractory PM ₁ at an urban roadside location in Hong Kong <i>Berto P. LEE, The Hong Kong University of Science and Technology</i>	Impact of Urban Morphology on Planetary Boundary Layer in PRD <i>Mau Fung WONG, The Hong Kong University of Science and Technology</i>
10:15 – 10:30		Characterization of Organic Sulfur Compounds in Atmospheric Aerosols at a Coastal Site in Hong Kong using HR-ToF-AMS <i>Dandan HUANG, The Hong Kong University of Science and Technology</i>	

Wednesday, Jan. 15, 2014		0900 -1030	
Session ID	T1R4	T1R5	T1R6
Session Title	Integrated Air Quality Management: From Science to Policy (Part 1) Chair: Christopher FUNG, Wenjing DENG	Advanced Monitoring, Analysis and Comparisons Chair: Aijun DING, Fred PRATA	Pollution Formation and Process Analysis (Part 1) Chair: Jianzhen YU, Junhua LI
Location	Lecture Theatre J (Lift 31-32)	Lecture Theatre K (Lift 31-32)	Room 1505 (Lift 25-26)
9:00 - 9:15	Quantification of the Impact of Bus Rapid Transit on Air Quality via Atmospheric Models: Istanbul Case Study <i>Alper UNAL, Istanbul Technical University, Turkey</i>	Overview of the latest progress of the SORPES Station in the western Yangtze River Delta (Ozone and PM _{2.5}) <i>Aijun DING, Nanjing University, China</i>	Effect of inorganic pollutants on the formation of ozone and secondary organic aerosol <i>Junhua LI, Tsinghua University, China</i>
9:15 - 9:30	A Model-based Comprehensive Framework for Air Quality Assessment in Hong Kong <i>Christopher FUNG, Environmental Protection Department, Hong Kong</i>	Diffusion sampler for Measurement of Acidic Particles in the Atmosphere <i>Dawei WANG, The Hong Kong Polytechnic University</i>	A Tale of Two Biomass Burning Aerosol Tracers (Levoglucosan and Potassium Ion): Evidence for Atmospheric Degradation of Levoglucosan <i>Jianzhen YU, The Hong Kong University of Science and Technology</i>
9:30 - 9:45	Comparative advantage strategy for rapid pollution mitigation in China <i>Yuan XU, The Chinese University of Hong Kong</i>	Establishing and Application of the Evaluation Index for VOCs Automatic Monitoring Technique <i>Song GAO, Shanghai Environmental Monitoring Centre, China</i>	Heterogeneous OH oxidation of Succinic Acid Aerosol: Reaction Kinetics and Product Identification <i>Man Nin CHAN, Lawrence Berkeley National Laboratory, USA</i>
9:45 – 10:00	Environmental Data Management – From Micro to Macro for Environmental Policy Development <i>Sue SUNG, Southern Methodist University, USA</i>	The Application of Proton Transfer Reaction-Mass Spectrometry on Investigating VOCs in Hong Kong <i>Cui LONG, The Hong Kong Polytechnic University</i>	Aqueous-phase photochemical oxidation and direct photolysis of vanillin—a model compound of methoxy-phenols from biomass burning <i>Yongjie LI, The Hong Kong University of Science and Technology</i>
10:00 – 10:15	Impacts of 12 th Five-Year Plan (FYP) on summer ozone episodes in Hong Kong <i>Yun Fat LAM, City University of Hong Kong</i>	Benchmarking real-time SIFT-MS analysis of VOCs against regulatory GC-MS analysis <i>Vaughan LANGFORD, Syft Technologies Limited</i>	Carbonaceous Aerosols in China: Constraints on Primary Sources and Estimation of Secondary Contribution <i>Tzung-May FU, Peking University, China</i>
10:15 – 10:30		Some newly developed equipment for online measurement of air pollution in China <i>Titia Meuwese-Mulder, Synspec BV</i>	The role of mineral aerosol in atmospheric reaction of VOCs: A theoretical model in the presence of silica particle <i>Yuemeng JI, Guangzhou Institute of Geochemistry, CAS, China</i>

Wednesday, Jan. 15, 2014		1100 -1230	
Session ID	T2R1	T2R2	T2R3
Session Title	VOC Emission and the Impact on Ozone <i>Chair: Min SHAO, Daiqi YE</i>	The Hong Kong Supersites: Findings and Implications (Part 2) <i>Chair: Chak CHAN, Tao WANG</i>	PM Modeling and Process Analysis <i>Chair: Ralph MORRIS, Tzung-May FU</i>
Location	Room 4619 (Lift 31-32)	Room 4620 (Lift 31-32)	Room 5619 (Lift 31-32)
11:00 - 11:15	Historical industrial emissions of non-methane VOCs in China for the period of 1980-2010 <i>Daiqi YE, South China University of Technology, China</i>	Four Season Observations of HONO at a Suburban Site in Hong Kong: Emission and Heterogeneous Reactions <i>Zheng XU, The Hong Kong Polytechnic University</i>	Ozone and Particulate Matter Source Apportionment Modeling to Identify Control Strategies for Reducing Regional Transport <i>Ralph MORRIS, ENVIRON International Corporation, USA</i>
11:15 - 11:30	Emission characteristics and control mechanism of typical VOCs from Pearl River Delta Region <i>Taicheng AN, Guangzhou Institute of Geochemistry, CAS, China</i>	Simultaneous HTDMA and HR-ToF-AMS measurements at a suburban coastal site in Hong Kong in 2011 <i>Ming Chee YEUNG, The Hong Kong University of Science and Technology</i>	Sources of secondary organic aerosols in the Pearl River Delta region: contribution from the oxidation of semi-volatile primary organic aerosols <i>Teng YAO, The Hong Kong University of Science and Technology</i>
11:30 - 11:45	Impacts of biogenic VOC emissions on surface ozone in the Pearl River delta region, China <i>Xuemei WANG, Sun Yat-sen University, China</i>	Development and Application of Chemical Ionization Mass-spectrometry (CIMS) for Measurement of N ₂ O ₅ in Hong Kong <i>Yee-Jun THAM, The Hong Kong Polytechnic University</i>	A sensitivity experiment of PM ₁₀ emission control approaches with WRF/Chem model <i>Yunpeng SHAN, Nanjing University of Information Science and Technology, China</i>
11:45 – 12:00	Pollution profiles and health risk assessment of VOCs emitted from e-waste dismantling workshop as well as elimination by an integrated biological-photo-catalytic technology at pilot scale <i>Guiying LI, Guangzhou Institute of Geochemistry, CAS, China</i>	Atmospheric photochemical reactivity and ozone production at two sites in Hong Kong: Application of a photochemical box model with master chemical mechanism (PBM-MCM) <i>Zhenhao LING, The Hong Kong Polytechnic University</i>	Source Apportionment of the Fine Particulate Matter in Shanghai during the Heavy Haze Episode in Eastern China in January, 2013 <i>Li LI, Shanghai Academy of Environmental Sciences, China</i>
12:00 – 12:15		High time-resolution measurements and source analysis of oxalate at a suburban coastal site in Hong Kong <i>Yang ZHOU, The Hong Kong University of Science and Technology</i>	Air Quality Modeling based on ADMS-Urban Model in Street Canyons over Urban Areas of Hong Kong Island <i>Xiaolin XIE, The Hong Kong University of Science and Technology</i>
12:15 – 12:30		Cloud Condensation Nuclei (CCN) Measurements at a Coastal Site in Hong Kong: Size-resolved CCN Activity and Closure Analysis <i>Junwang MENG, The Hong Kong University of Science and Technology</i>	

Wednesday, Jan. 15, 2014		1100 -1230	
Session ID	T2R4	T2R5	T2R6
Session Title	Integrated Air Quality Management: From Science to Policy (Part 2) Chair: <i>Dave HO, Gayle HAGLER</i>	Aerosol Optical Characteristics and Remote Sensing Chair: <i>Allen ZHENG, Frank S. C. LEE</i>	Pollution Formation and Process Analysis (Part 2) Chair: <i>Xinming WANG, Tijian WANG</i>
Location	Lecture Theatre J (Lift 31-32)	Lecture Theatre K (Lift 31-32)	Room 1505 (Lift 25-26)
11:00 - 11:15	The science behind air quality management <i>Hoi-Lam Damgy CHAN, Environmental Protection Department, Hong Kong</i>	High Temporal Resolution Aerosol Retrieval Using Geostationary Ocean Color Imager (GOCI): Application and Validation in Northern China <i>Yuhuan ZHANG, Institute of Remote Sensing and Digital Earth, CAS, China</i>	Formation of secondary aerosols from gasoline vehicles: chamber simulation study <i>Xinming Wang, Guangzhou Institute of Geochemistry, CAS, China</i>
11:15 - 11:30	Examples of Scientific Studies to Backup Emission Control Programs <i>Wai-Yun Connie LUK, Environmental Protection Department, Hong Kong</i>	New remote sensing algorithm for mapping PM _{2.5} over China <i>Changqing LIN, The Hong Kong University of Science and Technology</i>	SOA formation in Hong Kong: Implications for the multiphase chemistry of glyoxal and organosulfate <i>Siyuan WANG, The Hong Kong University of Science and Technology</i>
11:30 - 11:45	The Fair Winds Charter: stakeholder engagement and policy change for the shipping sector in Hong Kong <i>Veronica BOOTH, Civic Exchange</i>	Ambient aerosol optical, physical and chemical properties observed during haze pollution conditions in Beijing winter <i>Zhengqiang LI, Institute of Remote Sensing and Digital Earth, CAS, China</i>	HONO chemistry in urban area of Beijing: Implication for outdoor and Indoor environments <i>Ivo Allegrini, Institute of Atmospheric Pollution Research, Italy</i>
11:45 – 12:00	Reducing Hong Kong's emissions through building energy efficiency <i>Barbara FINAMORE, Natural Resources Defense Council, USA</i>	Characteristics of Aerosol Optical Properties and Their Chemical Apportionments during CARE-Beijing 2006 <i>Tingting HAN, Beijing Normal University, China</i>	Determination of primary organic carbon-to-elemental carbon (OC/EC) ratio in the EC tracer method <i>Cheng WU, The Hong Kong University of Science and Technology</i>
12:00 – 12:15	The design of the supersites monitoring network in Shanghai <i>Dongfang WANG, Shanghai Environmental Monitoring Center, China</i>	Optical Properties on Size-resolved Particles at an Urban Site of Hong Kong during Winter Period <i>Yuan GAO, The Hong Kong Polytechnic University</i>	Analysis of absorption and scattering properties of water host droplet with solid aerosol inclusion <i>Linghong CHEN, Zhejiang University, China</i>
12:15 – 12:30	Air and Ground Traffic, Meteorology, Air Pollution and Health in the Megacity of São Paulo <i>Alberto SALVO, Department of Economics, National University of Singapore</i>		

Wednesday, Jan. 15, 2014		1400 -1530	
Session ID	T3R1	T3R2	T3R3
Session Title	Source Identification, Apportionment and Process Studies Chair: Jay R. TURNER, <i>Yinchang FENG</i>	Aerosol Characterization and Measurement (Part 1) Chair: Mei ZHENG, <i>Changhong CHEN</i>	Air Quality Modeling, Prediction and Control Assessment Chair: Hai GUO, <i>Sam SAUNDERS</i>
Location	Room 4619 (Lift 31-32)	Room 4620 (Lift 31-32)	Room 5619 (Lift 31-32)
14:00 - 14:15	Improved receptor models for source apportionment in urban air ambient <i>Yinchang FENG, Naikai University, China</i>	The Chemical Characteristics of Particulate Matters in Shanghai during Heavy Air Pollution Episode in Central and Eastern China in December 2013 <i>Changhong CHEN, Shanghai Academy of Environmental Sciences, China</i>	Modelling Ozone Reduction under Different Emission Source Removal Scenarios during a Multi-day High Ozone Period in Hong Kong <i>Sam SAUNDERS, University of Western Australia</i>
14:15 - 14:30	Source Apportionments for Submicron Organic Aerosol by Positive Matrix Factorization in Southern Taiwan <i>Yee-Lin WU, National Cheng Kung University, Taiwan</i>	Ambient concentration and chemical speciation of elements in PM _{2.5} from Beijing, China <i>Jiajia GAO, Beijing Normal University, China</i>	Temporo-spatial Impacts of NOx Control on Ozone Pollutant Levels in Hong Kong and the PRD Region <i>Ying LI, The Hong Kong University of Science and Technology</i>
14:30 - 14:45	An Observation-Based Model for Secondary Inorganic Aerosols <i>Zibing YUAN, The Hong Kong University of Science and Technology</i>	Trends of Ambient Fine Particles (PM _{2.5}) and Major Aerosol Chemical Components in the Pearl River Delta Region during 2007-2011: Observation at a Regional Background Site in Fall-winter Seasons <i>Xiaoxin FU, The Hong Kong Polytechnic University</i>	Modeling study of regional severe hazes over Mid-Eastern China in January 2013 and its implications on pollution prevention and control <i>Zifa WANG, Institute of Atmospheric Physics, CAS, China</i>
14:45 – 15:00	Sources of HUMic-Like Substances: Positive matrix factorization analysis of PM _{2.5} chemical composition and biomass burning molecular marker measurements <i>Binyu KUANG, The Hong Kong University of Science and Technology</i>	Chemical Characterization of Atmospheric Water Soluble Humic-like Substances in Hong Kong <i>Di HU, Hong Kong Baptist University</i>	An Urban Air Quality Forecasting Method Based on Multilayer Sample Optimization Rule <i>Yonghong LIU, Sun Yat-sen University, China</i>
15:00 – 15:15	Weight of Evidence Apportionment of Hong Kong Ambient Particulate Matter <i>Jay R. TURNER, Washington University in St. Louis, USA</i>	PM _{2.5} source apportionment in China and its link to policy <i>Mei ZHENG, Peking University, China</i>	Preliminary results of air exchange between South China Sea and subtropical continental region of South China <i>Hai GUO, The Hong Kong Polytechnic University</i>
15:15 – 15:30	Characterization of carbonaceous aerosols during and post-Shenzhen UNIVERSIADE period <i>Yuqin WANG, University of Chinese Academy of Sciences, China</i>	Near-source air quality assessment: challenges and collaboration <i>Gayle Singleton Willis HAGLER, Environmental Protection Agency, USA</i>	

Wednesday, Jan. 15, 2014		1400 -1530	
Session ID	T3R4	T3R5	
Session Title	Marine Emissions and Control Strategy Chair: <i>David PETTIT, Simon NG</i>	Health Risk Communication: Exposure and Public Health (Part 1) Chair: <i>H. Christopher FREY, Chit Ming WONG</i>	
Location	Lecture Theatre J (Lift 31-32)	Lecture Theatre K (Lift 31-32)	
14:00 - 14:15	Identification of Ship Emission and its Influence on Air Pollution over Shanghai with China's Largest Port <i>Yan ZHANG, Fudan University, China</i>	Update of WHO air quality guideline <i>T. W. WONG, The Chinese University of Hong Kong</i>	
14:15 - 14:30	Hong Kong Stepping up Control on Marine Emissions - Catalysts for Change <i>Yu-Tao Tony LEE, Environmental Protection Department, Hong Kong</i>	The effects of dust-haze on mortality are modified by seasons and individual characteristics in Guangzhou, China <i>Tao LIU, Guangdong Provincial Institute of Public Health, China</i>	
14:30 - 14:45	A Novel Ultra-Violet Camera Systems for Measuring SO ₂ Ship Emissions in Harbors and Ports <i>Fred PRATA, Nicarnica AS, Norway</i>	Estimation of PM _{2.5} with high resolution from NASA satellite data for assessment of long term effects on mortality <i>Chit Ming WONG, The Hong Kong University</i>	
14:45 – 15:00	Using domestic and international policy tools to reduce ship emissions in Hong Kong <i>Richard KASSEL, Natural Resources Defense Council, USA</i>	Impact of Traffic Volume and Composition on the Air Quality and Pedestrian Exposure in Central, Hong Kong <i>Zhi NING, City University of Hong Kong</i>	
15:00 – 15:15	The Case for a Pearl River Delta Emission Control Area <i>Simon NG, Civic Exchange, Hong Kong</i>	Exposure to traffic-related air pollution of children attending naturally ventilated primary schools in Hong Kong <i>Claudie Chiu-yi WONG, The Chinese University of Hong Kong</i>	
15:15 – 15:30	How Los Angeles and Its Ports Reduced Smog While Maintaining Economic Growth <i>David PETTIT, Natural Resources Defense Council, USA</i>	Sensitivity of estimated children's PM _{2.5} exposure to activity patterns, and geographic and seasonal variations <i>Wenwei CHE, The Hong Kong University of Science and Technology</i>	

Wednesday, Jan. 15, 2014		1600 -1730	
Session ID	T4R1	T4R2	T4R3
Session Title	Control Strategy and Experiences <i>Chair: Donald BLAKE, Kebin HE</i>	Aerosol Characterization and Measurement (Part 2) <i>Chair: Jianmin CHEN, Zibing YUAN</i>	Air Quality Modeling in Urban Areas <i>Chair: Jonathan E. PLEIM, C.H. LIU</i>
Location	Room 4619 (Lift 31-32)	Room 4620 (Lift 31-32)	Room 5619 (Lift 31-32)
16:00 - 16:15	Controlling Fine Particulate Pollution in Beijing-Tianjin-Hebei Region <i>Kebin HE, Tsing Hua University, China</i>	Radiocarbon analysis of carbonaceous aerosols in China: method development and application <i>Gan ZHANG, Guangzhou Institute of Geochemistry, CAS, China</i>	High-resolution WRF-CMAQ modeling with simple urban parameterization <i>Jonathan E. Pleim, Environmental Protection Agency, USA</i>
16:15 - 16:30	Experience on Vehicle Emission Control in Megacities of China <i>Ye WU, Tsing Hua University, China</i>	Airborne submicron particulate (PM ₁₀) pollution in Shanghai, China: Chemical variability, formation/dissociation of associated semi-volatile components and the impacts on visibility <i>Jianmin CHEN, Fudan University, China</i>	Urban impacts over air quality modeling in Greater Beijing Area <i>Man YU, University of Iowa, USA</i>
16:30 - 16:45	An integrative approach for area-wide vehicle emissions reduction <i>Kaishan ZHANG, Sichuan University, China</i>	Chemical Composition Analysis of Precipitation in Zhuhai <i>Xingcheng LU, The Hong Kong University of Science and Technology</i>	Evaluation of Urban Schemes in Simulating Atmospheric Boundary Layer: A Typical Summer Pollution Case Study over Megacity <i>Weichun MA, Fudan University, China</i>
16:45 – 17:00	Combating vehicular pollution – a review of the inspection and maintenance program in Hong Kong <i>Shuk-Wai Freda FUNG, Civic Exchange</i>	Investigating the important role of atmospheric ammonia on haze formation in Beijing, China <i>Lianfang WEI, University of Chinese Academy of Sciences, China</i>	Heavy air pollution and haze weather forecast for urban: technique and application <i>Tijian WANG, Nanjing University, China</i>
17:00 – 17:15	Air Quality Management at Hong Kong International Airport <i>Mike KILBURN, Airport Authority Hong Kong</i>	Aerosol particle size distribution research during sand storm in Wuhan area <i>Wenxiang CAO, HUBEI Environmental Monitoring Center Station, China</i>	Effects of the aqueous phase S(IV)+NO ₂ reaction on sulfate formation and sulfate budget analysis in the Pearl River Delta region <i>Xin YU, The Hong Kong University of Science and Technology</i>
17:15 – 17:30			

Wednesday, Jan. 15, 2014		1600 -1730	
Session ID	T4R4	T4R5	
Session Title	Defeating Challenges and Achieving Solutions Chair: <i>Christine LOH, Markus AMANN</i>	Health Risk Communication: Exposure and Public Health (Part 2) Chair: <i>Bingheng CHEN, T. W. WONG</i>	
Location	Lecture Theatre J (Lift 31-32)	Lecture Theatre K (Lift 31-32)	
16:00 - 16:15	Challenges and Solutions: Hong Kong's Experience <i>W.C. MOK, Environmental Protection Department, Hong Kong</i>	Launch of a Risk-based Air Quality Health Index in Hong Kong <i>S. W. PANG, Environmental Protection Department, Hong Kong</i>	
16:15 - 16:30	Effective Regional Air Quality Management: International Experiences <i>Dale EVARTS, Environmental Protection Agency, USA</i>	Acute effect of ambient air pollution on asthma hospitalization in Shanghai, China <i>Jing CAI, Fudan University, China</i>	
16:30 - 16:45	Progress and challenges of Regional Air Quality Management Issues in the Pearl River Delta region <i>Liuju ZHONG, Guangdong Regional Atmospheric Environmental Research Center, China</i>	Time-series studies of air pollution and acute health effects in Hong Kong <i>Linwei TIAN, The Chinese University of Hong Kong</i>	
16:45 – 17:00	A Conceptual Model for Integrated Regional Air Quality Management <i>Jeanne Ng, Air and Waste Association, Hong Kong</i>	PM ₁ might be the culprit of cardiovascular effects of particulate matter air pollution in Guangzhou, China <i>Hualiang LIN, Guangdong Provincial Institute of Public Health, China</i>	
17:00 – 17:15	Institutional Collaboration - Environmental Stakeholders <i>John WATSON, Desert Research Institute, USA</i>	Health risk assessment of carbonyl-containing volatile organic compounds in the atmosphere of megacities, China <i>Boguang WANG, Jinan University, China</i>	
17:15 – 17:30			

Wednesday, Jan. 15, 2014		1730 -1900	Poster Session
<i>Location: Outside Lecture Theatre J (Refreshments will be served)</i>			
Poster ID	Title & Author		
P1	Importance of long term spinning up soil moisture on the outputs of Weather Research and Forecasting (WRF)Model <i>Chun Yin DY, The Hong Kong University of Science and Technology</i>		
P2	Ozone source apportionment in the Pearl River Estuary during the PRIDE-PRD2004 campaign <i>Jin SHEN, Peking University & Guangdong Environmental Monitoring Center, China</i>		
P3	Atmospheric observation plan for haze in Singapore <i>Mikinori KUWATA, Nanyang Technological University, Singapore</i>		
P4	Real-time measurements of non-methane hydrocarbons (NMHCs) from 2005 to 2010 in Hong Kong: a multi-year data analysis <i>Jiamin OU, The Hong Kong Polytechnic University</i>		
P5	Pollution characteristics of air pollutants during the Chinese Spring Festival in Wuhan City, mid-china <i>Li LIU, Huazhong University of Science and Technology, China</i>		
P6	Compositional diversity of HUMic-Like Substances from different biomass burning aerosols <i>Peng LIN, The Hong Kong University of Science and Technology</i>		
P7	Reactive oxygen species (ROS) generation capability of HUMic-Like Substances from different aerosol samples. <i>Peng LIN, The Hong Kong University of Science and Technology</i>		
P8	Characterization on C1-C4 alkyl nitrates at a coastal site in Hong Kong <i>Senchao LAI, South China University of Technology, China</i>		
P9	Characterization of polar organic compounds at three sites in the Pearl River Delta Region <i>Wingyi WONG, The Hong Kong University of Science and Technology</i>		
P10	Evaluating the degree of oxygenation of organic aerosols during foggy days and hazy days in springtime in Hong Kong using High-resolution Time-of-Flight Aerosol Mass Spectrometry (HR-ToF-AMS) <i>Yongjie LI, The Hong Kong University of Science and Technology</i>		
P11	Ambient Protein Concentration in PM _{2.5} in Rural Guangzhou <i>Yingyi ZHANG, South China University of Technology, China</i>		
P12	Seasonal Variations and Chemical Characteristics of PM _{2.5} at a Rural Site in Guangzhou, China <i>Yan ZHAO, South China University of Technology</i>		
P13	Source of Particulate matter in Hong Kong under tropical cyclone: A case study <i>Dongwei WU, The Hong Kong University of Science and Technology</i>		
P14	Reducing Emissions of Toxic Organic Pollutants from a Diesel Engine by Fueling Water-containing Butanol Diesel Blends <i>Lin-Chi WANG, Cheng Shiu University, Taiwan</i>		
P15	Numerical Modeling of a Strong Dust Event over the South China Region <i>Lin SU, The Hong Kong University of Science and Technology</i>		
P16	Study of water activities and osmotic coefficients of five alkylamine-sulfates at different molar ratios <i>Meike SAUERWEIN, The Hong Kong University of Science and Technology</i>		
P17	Air pollution prediction using LUR method: A case study in an highly industrialized region, Shanghai <i>Xinrui CHEN, Fudan University, China</i>		

P18	Development of Multi-Parameter Estimation Model of PM _{2.5} based on Remote Sensing <i>Ying ZHANG, Institute of Remote Sensing and Digital Earth, CAS, China</i>
P19	Development of forecast air pollution modeling system in China <i>Yun Fat LAM, City University of Hong Kong</i>
P20	Modeling Inorganic Nitrogen Deposition in Guangdong Province, China <i>Zhijiong HUANG, South China University of Technology, China</i>
P21	Simulation of ozone formation at different elevations in mountainous areas in Hong Kong using WRF-CMAQ <i>Nan WANG, The Hong Kong Polytechnic University</i>
P22	Updated 2010 Anthropogenic VOCs Emission Inventory and its Improvement in Regional Ozone Modeling in the Pearl River Delta Region, China <i>Shasha YIN, South China University of Technology, China</i>
P23	上海市霾污染评价指标体系 <i>Yusen DUAN, Shanghai Environmental Monitoring Centre, China</i>
P24	Effects of NO _x and VOCs from five emission sources on summer surface O ₃ over the Beijing-Tianjin-Hebei region <i>Yu QU, Institute of Atmospheric Physics, CAS, China</i>
P25	Coupled modeling of Typhoons and Air Quality <i>Guangze GAO, The Hong Kong University of Science and Technology</i>
P26	The Impact of Meteorological factors on Air Quality in Xi'an <i>Wenjing DENG, The Hong Kong Institute of Education</i>
P27	Research on the correlation between morphology and air quality in urban area <i>Miao HE, The Hong Kong University of Science and Technology</i>
P28	Metallic corrosion in the polluted urban atmosphere of Hong Kong <i>Bo LIU, The Hong Kong Polytechnic University</i>
P29	Real-time ambient air monitoring using selected ion flow tube-mass spectrometry (SIFT-MS) <i>Vaughan LANGFORD, Syft Technologies Limited</i>
P30	Atmospheric chamber investigation of the BVOC α -phellandrene: implications for ambient air quality <i>Sam SAUNDERS, University of Western Australia</i>
P31	Spatial and temporal variation of polycyclic aromatic hydrocarbons in Hong Kong: One-year monitoring study <i>Ka Shing CHOW, The Hong Kong University of Science and Technology</i>
P32	Investigation of air pollution in Hangzhou City by CMAQ model <i>Kun LUO, Zhejiang University, China</i>

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