

7th Sino-French Joint Workshop on Atmospheric Environment

*Coordinated Control of PM_{2.5} and Ozone:
Theories and Practices*

Conference Handbook




(<https://sfjw2019.sciencesconf.org/>)



Organized by:

	CRAES-MEE	Chinese Research Academy of Environmental Sciences
	ICARE/OSUC-CNRS	Institut de Combustion, Aérothermique, Réactivité et Environnement/OSUC - Université d'Orléans
	RCEES-CAS	Research Centre for Eco-Environmental Sciences
	FD-MOE	Fudan University
	IRCELYON-CNRS	Institut de Recherches sur la Catalyse et l'Environnement de Lyon-Université de Lyon 1
	CHENGDU-EEB-MEE	Chengdu Municipal Ecological Environment Bureau
	AAE-CSSES	Association of Atmospheric Environment of Chinese Society for Environmental Sciences
	JES	Journal of Environmental Sciences

Hosted by:

	Chengdu-AES	Chengdu Academy of Environmental Sciences
	SCU-MOE	Sichuan University
	SPU-MOE	Southwest Petroleum University

Sponsors :

	Beijing Dopler Eco-technologies Co, Limited
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	Chinese Research Academy of Environmental Sciences
	Journal of Environmental Sciences
	H2020-MSCA-RISE
	LABEX VOLTAIRE
	L' Observatoire des Sciences de l' Univers en région Centre (OSUC)





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Programme Overview

Date	Time	Activities	Location
Sunday, November 17 th	Whole Day	Registration	The lobby of Chengdu Century City Holiday Inn
	18:00–21:00	Dinner	Chengdu Century City Holiday Inn West building SiFei Café (1F)
Monday, November 18 th	8:30–12:25	Opening ceremony and keynote report	International Convention and Exhibition Center ShuiJing Conference Hall (5F)
	12:25–13:30	Lunch	Chengdu Century City Holiday Inn West building The Starry Sky Banquet Hall (19F)
	13:30–18:30	Presentations & Posters	International Convention and Exhibition Center ChengHua Conference Hall (5F)
	18:30–21:00	Dinner	Chengdu Century City Holiday Inn West building The Starry Sky Banquet Hall (19F)
Tuesday, November 19 th	8:00–12:30	Presentations & Posters	International Convention and Exhibition Center ChengHua Conference Hall (5F)
	12:30–14:00	Lunch	Chengdu Century City Holiday Inn West building The Starry Sky Banquet Hall (19F)
	14:00-18:00	Departure	/
	18:00-21:00	Dinner	Chengdu Century City Holiday Inn West building The Starry Sky Banquet Hall (19F)



Presentations

Monday, November 18th, 2019

08:30-12:25 Session I : Opening ceremony and Keynote report

Location : International Convention and Exhibition Center

ShuiJing Conference Hall (5F)

Opening ceremony will be held together with the 2019 Annual Meeting of the Atmospheric Environment Branch of the Chinese Society of Environmental Sciences.

08:30 - 09:00 Opening Ceremony

Chair: Prof. Fahe CHAI

09:00 - 12:25 Keynote report

Co-Chairs: Fahe CHAI, Fan MENG

09:00-09:20 Keynote - Prof. Qingcun ZENG

Optimal control of air pollution

09:20-09:40 Keynote - Prof. Zhenhai REN

Clean up haze pollution

09:40-10:00 Keynote - Prof. Jiming HAO

The air clean action in China and its effectiveness

10:00-10:20 Keynote - Prof. Abdelwahid MELLOUKI

African Air Quality: Overview and Needs

10:20-10:40 Keynote - Prof. Xiangde XU

Comprehensive model of air pollution and its weather effects



10:40-11:00 Keynote - Prof. Li-an HOU

Air quality assurance measures for ultra-low energy consumption buildings

11:00-11:20 Keynote - Prof. Hong HE

The diesel vehicle pollution emission and treatment in China

11:20-11:40 Keynote - Prof. Wenxing WANG

Review and enlightenment on the centennial development of world science

11:40-11:55 Keynote - Prof. Fahe CHAI

Sources and causes of heavy air pollution in Beijing-Tianjin-Hebei region

11:55-12:10 Keynote - Prof. Xiaoming SHI

Study on the influence of air pollution on human health in Beijing-Tianjin-Hebei region and surrounding areas

12:10-12:25 Keynote - Prof. Gang YAN

The key points of winning the battle of blue sky protection

13:30-16:10 Session II

**Location : International Convention and Exhibition Center
ChengHua Conference Hall (5F)**

Co-Chairs: Jianmin CHEN, Christophe GUIMBAUD

13:30-14:00 Welcome Speech - Prof. Fahe CHAI

Prof. Abdelwahid MELLOUKI

Group Photo



14:00-14:20 Keynote - Prof. Christian GEORGE

Photosensitization in the air: bridging fundamental bulk processes with secondary organic aerosol production

14:20-14:40 Keynote - Prof. Jianmin CHEN

Chemistry triggered events of PM_{2.5} explosive growth in China

14:40-15:00 Keynote - Prof. Meigen ZHANG

Episode analysis of regional contributions to tropospheric ozone in Beijing using a regional air quality model

15:00-15:15 Presentation - Prof. Hong LI

Progress and Prospective of Atmospheric Photochemical Smog Pollution Control in China

15:15-15:30 Presentation - Prof. Guoying WANG

Seasonal variation characteristics of Hydroxyl radicals and its potential formation mechanism during the daytime in Lanzhou

15:30-15:40 Presentation - Dr. Xinke WANG

Atmospheric photosensitization: a new pathway for sulfate formation

15:40-15:50 Presentation - Dr. Dandan LI

Chemical characterization and reactivity of highly oxygenated molecules

15:50-16:10 Tea Break + Poster Viewing



16:10-18:30 Session III

**Location : International Convention and Exhibition Center
ChengHua Conference Hall (5F)**

Co-Chairs: Véronique DAËLE, Yujing MU

16:10-16:30 Keynote - Prof. Matthieu RIVA

How do inorganic species impact the formation and physicochemical properties of atmospheric aerosol ?

16:30-16:50 Keynote - Prof. Hongjun MAO

Traffic Emission - Air Quality -Public Health

16:50-17:10 Keynote - Prof. Weigang WANG

Optical properties of secondary organic aerosols

17:10-17:25 Presentation - Prof. Shengrui TONG

The effect of Titanium Dioxide on Secondary Organic Aerosol Formation

17:25-17:40 Presentation - Dr. Peng WANG

Isoprene emissions response to drought and the impacts on ozone and secondary organic aerosols in China

17:40-17:55 Presentation - Mr. Jean-Philippe AMIET

Online GC-MS for fixed and/or mobile station for VOCs and SVOCs monitoring

17:55-18:20 One-minute PPT Report



Tuesday, November 19th, 2019

08:00-09:55 Session IV

**Location : International Convention and Exhibition Center
ChengHua Conference Hall (5F)**

Co-Chairs: Tao WANG, Matthieu RIVA

08:00-08:20 Keynote - Prof. Tao WANG

Interaction of anthropogenic and oceanic emissions and its impact on the atmospheric oxidative capacity: Preliminary result from a field study at a South China coastal site

08:20-08:40 Keynote - Prof. Christophe GUIMBAUD

Impact of global changes on Greenhouse Gas (GHG) exchanges with atmosphere for sphagnum type peatlands: field study and modelling approach for methane emissions

08:40-08:55 Presentation - Prof. Chunmei GENG

Vertical characteristics of Volatile Organic Compounds in ambient air at Lu mountain in eastern Chinas

08:55-09:10 Presentation -Prof. Yanli ZHANG

Spatiotemporal patterns and source apportionment of volatile organic compounds in China based on observations at twenty sites

09:10-09:25 Presentation - Dr. Hui CHEN

Characteristics of VOCs emission in a rural site in North China

09:25-09:40 Presentation - Dr. Yujie ZHANG



VOCs characteristics, sources and contributions to SOAFP during haze events in urban area of Beijing

09:40-09:55 Tea Break+Poster Viewing

09:55-12:30 Session V

**Location : International Convention and Exhibition Center
ChengHua Conference Hall (5F)**

Co-Chairs: Hongjun MAO, Yangang REN

09:55-10:15 Keynote - Prof. Pinhua XIE

Development of a field system for measurement of tropospheric OH radical using laser-induced fluorescence technique

10:15-10:35 Keynote - Dr. Yangang REN

Nighttime fate of the biomass burning chemicals: a case study of aromatic aldehydes

10:35-10:50 Presentation - Prof. Xinfeng WANG

Preliminary results on the observations fine particulate nitrated phenols in eastern China

10:50-11:05 Presentation -Prof. Wei TANG

Source Apportionment of PM_{2.5} in Shandong Province, China during 2017-2018 Heating Season

11:05-11:20 Presentation - Dr. Qili DAI

Residential coal combustion as an important source of primary sulfate in northern China



11:20-11:30 Presentation - Dr. Xuran LI

The contribution of serial autumn agricultural activities to PM_{2.5} pollution in rural areas of the North China Plain

11:30-11:40 Presentation - Dr. Hajar El OTHMANI

Revisiting the gas-phase rate coefficient of the OH + SO₂ + M → HSO₃ + M reaction

11:40-11:50 Presentation - Dr. Sander MIRME

An improved sample preconditioning unit for the Neutral cluster and Air Ion Spectrometer

11:50-12:00 Presentation - Dr. Jianfeng SUN

Comparison of Secondary Inorganic Ion Characteristics in Fine Particle Matters between Offshore and Coastal Urban Megacity: Ship Cruise and Land Campaigns in Shanghai, China

12:00-12:30 Award Ceremony + Conclusions of the Conference

Posters

Serial No.	Name	Title
SFJW2019-1	Jixin SU	Research on photocatalytic conversion materials of gaseous aromatic hydrocarbons
SFJW2019-2	Yan WANG	High levels of ozone-depleting CFCs at high altitudes over northern China during 2017–2018
SFJW2019-3	Renzhi HU	Simultaneous measurement of NO and NO ₂ by dual-channel cavity ring down spectroscopy technique
SFJW2019-4	Jiarong LI	Chemical characterizations of clouds at Mount Tai, China: Annual variation, sulfate formation, and cloud



Serial No.	Name	Title
		processing
SFJW2019-5	Chao ZHU	Molecular characterization of cloud water samples collected at the Mt. Tai using ultra-high-resolution FT-ICR mass spectrometry
SFJW2019-6	Bixin ZHAN	Study on the chemical composition of atmospheric aerosols during heavy pollution process at typical points in north China
SFJW2019-7	Guangzhao XIE	The characteristics, sources, contributions to SOA formation and spring festival effects of VOCs during wintertime in Baoding, China
SFJW2019-8	Yafei LI	Chemical characteristics and a high temporal resolution source apportionment of PM _{2.5} using PMF model coupled with the online multiple air pollutants dataset in Lin'fen city, China
SFJW2019-9	Baoshuang LIU	Chemical characteristics and sources of ambient PM _{2.5} in a harbour area: Quantification of heavy metal health risk from sources to workers
SFJW2019-10	Xiaoyun SUN	Long term trend of carbonaceous aerosol and emission sources at a megacity in China
SFJW2019-11	Huitao ZHANG	Temporal and spatial distribution and cluster analysis of chemical components of PM _{2.5} in Wuhan
SFJW2019-12	Wenhui ZHANG	A high-resolution source apportionment study of atmospheric PM _{2.5} in Shijiazhuang, China, using a receptor model coupled with a source-oriented model.
SFJW2019-13	Zhaohui JIANG	Seasonal and diurnal variations of carbonyl compounds in the forest atmosphere of Zhangjiajie, China
SFJW2019-14	Xin ZHANG	Pollution characteristics of atmospheric carbonyl compounds in a typical urban area in Beijing in early summer of 2018 and 2019
SFJW2019-15	Shijie LI	Diurnal and nocturnal variation of carbonyl compounds in the mountain and urban area of Zibo, eastern China



Serial No.	Name	Title
SFJW2019-16	Jinhe WANG	Determination and characteristic analysis of atmospheric carbonyl compounds in Tai'an during summer
SFJW2019-17	Xue YANG	Carbonyls observations in the background atmosphere of the south China
SFJW2019-18	Lei SUN	Impacts of meteorology and emissions on summertime surface ozone increases over central eastern China over the past 15 years
SFJW2019-19	Yaqi WEI	Nocturnal PM _{2.5} explosive growth mostly observed in the rural North Plain China
SFJW2019-20	Liang PENG	Establish a subjective mechanism of Joint Prevention and Control for Air Pollution in the Sichuan Basin of China based on long-term online monitoring data
SFJW2019-21	Clément DUBOIS	Characterization of ambient organic compounds in aerosol and gas-phases using new online measurement techniques based on the Orbitrap technology
SFJW2019-22	Antoine DEPOORTER	Heterogeneous photochemical processes on indoor surfaces leading to nitrous acid formation
SFJW2019-23	Senlin LV	Studies on Iron solubility of Fe-bearing clay minerals
SFJW2019-24	Junling LI	Development and Application of the Multi-wavelength Cavity Ring-Down Aerosol Extinction Spectrometer
SFJW2019-25	Haijie ZHANG	Gas phase transformation from organic acid to organic sulfuric anhydride: Possibility and atmospheric fate in the initial new particle formation



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2019

November 17th - 19th

● Chengdu ~ China ●



Location of Hotels





2019

November 17th - 19th

● Chengdu ~ China ●

7th Sino-French Joint Workshop on Atmospheric Environment Coordinated Control of PM_{2.5} and Ozone: Theories and Practices



Public Transportation

Public transportation roadmap:

Airport – Hotel: Take the Line 10 to Taipingyuan, then transfer the Line 7 to South Railway Station, then transfer the Line 1 to Century City (Exit A), finally, walk 950 meters to the hotel (The whole course is 19 kilometres, 40 RMB for a taxi).

High-Speed-train Station – Hotel: Take the Line 7 to South Railway Station, then transfer the Line 1 to Century City (Exit A), finally, walk 950 meters to the hotel (The whole course is 15 kilometres, 38 RMB for a taxi).

Railway Station – Hotel: Take the Line 1 to Century City (Exit A), finally, walk 950 meters to the hotel (The whole course is 22 kilometres, 58 RMB for a taxi).

Location of Holiday Inn Chengdu Century City – West Tower

the Holiday Inn



2019
November 17th - 19th
● Chengdu ~ China ●



Meeting Memorandum



2019

November 17th - 19th

● Chengdu ~ China ●





2019

November 17th - 19th

● Chengdu ~ China ●



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2019

November 17th - 19th

● Chengdu ~ China ●



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2019

November 17th - 19th

● Chengdu ~ China ●



**7th Sino-French Joint Workshop on Atmospheric Environment
Coordinated Control of PM_{2.5} and Ozone: Theories and Practices**

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2019

November 17th - 19th

● Chengdu ~ China ●



Ruled writing area with horizontal dashed lines.



2019

November 17th - 19th

• Chengdu ~ China •





2019

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