7th Sino-French Joint Workshop on Atmospheric Environment

Coordinated Control of PM$_{2.5}$ and Ozone: Theories and Practices

Third Announcement
7th Sino-French Joint Workshop
on Atmospheric Environment

Coordinated Control of PM$_{2.5}$ and Ozone:
Theories and Practices

Chengdu – China

November 17th – 19th, 2019

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-CSES
Association of Atmospheric Environment of Chinese Society for Environmental Sciences

JES
Journal of Environmental Sciences
Dear Participants of SFJW2019:

On behalf of the Organizing Committee, we would like to bring your attention to the 7th Sino-French Workshop on Atmospheric Environment to be held on November 17th-19th, 2019 at Chengdu, China. We would like to express our heartfelt thankfulness to all of you for your support. We will do our best to make this conference a complete success. We wish the arrangement as following would make your participation most convenient.

**Registration Time**

**November 17th, 2019**

### Registration Procedure

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<th>Step</th>
<th>Procedure</th>
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<th>Notes</th>
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<tr>
<td>1</td>
<td>Sign-in Area</td>
<td>Find the No. for each participant.</td>
<td>Tell your name and organization to the conference staff and get to Sign-in Sheet.</td>
</tr>
<tr>
<td>2</td>
<td>Make Sign-in.</td>
<td>Make Sign-in according to the No. showed in the Sign-in Sheet.</td>
<td>Make Sign-in.</td>
</tr>
<tr>
<td>3</td>
<td>Registration Area</td>
<td>Pay the registration fee; Get the receipt; Fill the information</td>
<td>1) Pay the registration fee, get the receipt and will receive the invoice by</td>
</tr>
</tbody>
</table>
Get Conference Bag

Get the Name Card, Conference handbook and Meal Tickets.

1) For those participants, who has paid the registration fee, use the Receipt to get the conference bag.
2) For those participants with free registration fee, please use the Sign-in Sheet to get the conference bag.

Check-in for the hotel

Make check-in at the reception desk of the hotel.

The conference staff will accompany you to the reception to make the check-in of the hotel.

Conference Form

The official language of the workshop is English, the workshop abstracts proceedings will be distributed to the participants in the workshop. The reporting forms will include Invited Speeches (Keynotes), Oral Presentations and Poster Presentations, which have been decided by the Conference Academic Committee according to the contents of the abstracts.

Preliminary Program

The workshop will include oral and poster sessions.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Activities</th>
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<tbody>
<tr>
<td>November 17th, 2019</td>
<td>All day</td>
<td>Arrival and registration,</td>
</tr>
<tr>
<td>November 18th, 2019</td>
<td>8:30-18:30</td>
<td>Presentations &amp; posters</td>
</tr>
<tr>
<td>November 19th, 2019</td>
<td>8:00-18:30</td>
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</tr>
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</table>
Presentations

Monday, November 18th, 2019

08:30-12:00  Session I: Opening Ceremony

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

*The speech arrangement during the opening ceremony are to be updated.

13:30-16:10  Session II

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 PM2.5 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

Co-Chairs: Véronique DAËLE, Yujing MU

16:10-16:30  Keynote - Prof. Hartmut HERRMANN

Atmospheric aqueous phase chemistry: Similarities and differences to surface water chemistry

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. Matthieu RIVA**
Examining the formation of atmospheric organic aerosol by ultrahigh resolution mass

17:25-17:40  **Presentation - Prof. Shengrui TONG**
The effect of Titanium Dioxide on Secondary Organic Aerosol Formation

17:40-17:55  **Presentation - Dr. Peng WANG**
Isoprene emissions response to drought and the impacts on ozone and secondary organic aerosols in China

17:55-18:10  **Presentation - Mr. Jean-Philippe AMIET**
Online GC-MS for fixed and/or mobile station for VOCs and SVOCs monitoring

18:10-18:30  One-minute PPT Report

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**Tuesday, November 19th, 2019**

08:00-09:55  **Session IV**

**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**
**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 + SO$_2$ + M → HSO$_3$ + 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 Poster Award Ceremony + Conclusions of the Conference

*If there is any information you need to modify, please contact the workshop's organizing committee (sinofrench2019@126.com) before 3rd November, 2019.

**Posters**

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<thead>
<tr>
<th>Serial No.</th>
<th>Name</th>
<th>Title</th>
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<tr>
<td>SFJW2019-1</td>
<td>Jixin SU</td>
<td>Research on photocatalytic conversion materials of gaseous aromatic hydrocarbons</td>
</tr>
<tr>
<td>SFJW2019-2</td>
<td>Yan WANG</td>
<td>High levels of ozone-depleting CFCs at high altitudes over northern China during 2017–2018</td>
</tr>
<tr>
<td>SFJW2019-3</td>
<td>Renzhi HU</td>
<td>Simultaneous measurement of NO and NO2 by dual-channel cavity ring down spectroscopy technique</td>
</tr>
<tr>
<td>SFJW2019-4</td>
<td>Jiarong LI</td>
<td>Chemical characterizations of clouds at Mount Tai, China: Annual variation, sulfate formation, and cloud processing</td>
</tr>
<tr>
<td>SFJW2019-5</td>
<td>Chao ZHU</td>
<td>Molecular characterization of cloud water samples collected at the Mt. Tai using ultra-high-resolution FT-ICR mass spectrometry</td>
</tr>
<tr>
<td>SFJW2019-6</td>
<td>Bixin ZHAN</td>
<td>Study on the chemical composition of atmospheric aerosols during heavy pollution process at typical points in north China</td>
</tr>
<tr>
<td>SFJW2019-7</td>
<td>Guangzhao XIE</td>
<td>The characteristics, sources, contributions to SOA formation and spring festival effects of VOCs during wintertime in Baoding, China</td>
</tr>
<tr>
<td>SFJW2019-8</td>
<td>Yafei LI</td>
<td>Chemical characteristics and a high temporal resolution source apportionment of PM2.5 using PMF model coupled with the online multiple air pollutants dataset in Lin’fen city, China</td>
</tr>
<tr>
<td>SFJW2019-9</td>
<td>Baoshuang LIU</td>
<td>Chemical characteristics and sources of ambient PM2.5 in a harbour area: Quantification of heavy metal health risk from sources to workers</td>
</tr>
<tr>
<td>Serial No.</td>
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<td>Title</td>
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<tr>
<td>SFJW2019-10</td>
<td>Xiaoyun SUN</td>
<td>Long term trend of carbonaceous aerosol and emission sources at a megacity in China</td>
</tr>
<tr>
<td>SFJW2019-11</td>
<td>Huitao ZHANG</td>
<td>Temporal and spatial distribution and cluster analysis of chemical components of PM$_{2.5}$ in Wuhan</td>
</tr>
<tr>
<td>SFJW2019-12</td>
<td>Wenhui ZHANG</td>
<td>A high-resolution source apportionment study of atmospheric PM$_{2.5}$ in Shijiazhuang, China, using a receptor model coupled with a source-oriented model.</td>
</tr>
<tr>
<td>SFJW2019-13</td>
<td>Zhaohui JIANG</td>
<td>Seasonal and diurnal variations of carbonyl compounds in the forest atmosphere of Zhangjiajie, China</td>
</tr>
<tr>
<td>SFJW2019-14</td>
<td>Xin ZHANG</td>
<td>Pollution characteristics of atmospheric carbonyl compounds in a typical urban area in Beijing in early summer of 2018 and 2019</td>
</tr>
<tr>
<td>SFJW2019-15</td>
<td>Shijie LI</td>
<td>Diurnal and nocturnal variation of carbonyl compounds in the mountain and urban area of Zibo, eastern China</td>
</tr>
<tr>
<td>SFJW2019-16</td>
<td>Jinhe WANG</td>
<td>Determination and characteristic analysis of atmospheric carbonyl compounds in Tai’an during summer</td>
</tr>
<tr>
<td>SFJW2019-17</td>
<td>Xue YANG</td>
<td>Carbonyls observations in the background atmosphere of the south China</td>
</tr>
<tr>
<td>SFJW2019-18</td>
<td>Lei SUN</td>
<td>Impacts of meteorology and emissions on summertime surface ozone increases over central eastern China over the past 15 years</td>
</tr>
<tr>
<td>SFJW2019-19</td>
<td>Yaqi WEI</td>
<td>Nocturnal PM$_{2.5}$ explosive growth mostly observed in the rural North Plain China</td>
</tr>
<tr>
<td>SFJW2019-20</td>
<td>Liang PENG</td>
<td>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</td>
</tr>
<tr>
<td>SFJW2019-21</td>
<td>Clément DUBOIS</td>
<td>Characterization of ambient organic compounds in aerosol and gas-phases using new online measurement techniques based on the Orbitrap technology</td>
</tr>
<tr>
<td>SFJW2019-22</td>
<td>Antoine DEPOORTER</td>
<td>Heterogeneous photochemical processes on indoor surfaces leading to nitrous acid formation</td>
</tr>
<tr>
<td>Serial No.</td>
<td>Name</td>
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<tr>
<td>SFJW2019-23</td>
<td>Senlin LV</td>
<td>Studies on Iron solubility of Fe-bearing clay minerals</td>
</tr>
<tr>
<td>SFJW2019-24</td>
<td>Junling LI</td>
<td>Optical Properties of SOAs Derived From Long-Chain Alkanes</td>
</tr>
<tr>
<td>SFJW2019-25</td>
<td>Haijie ZHANG</td>
<td>Gas phase transformation from organic acid to organic sulfuric anhydride: Possibility and atmospheric fate in the initial new particle formation</td>
</tr>
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</table>

* The size of the poster will be width 90 cm × height 120 cm.

* The top right corner of the poster is the serial number (SFJW2019-XX), and the upper left corner is the LOGO of the Sino-French conference.

* There will be a one-minute PPT report (during the oral presentations) session for the all the Poster presenter (The ratio of PPT is 4:3. Please submit the one-sheet PPT file to sinofrench2019@126.com before November 7th.)

**Accommodation**

During the conference, accommodation will be arranged in Century city intercontinental hotel, Chengdu century city Holiday inn (east building, west building), Vienna International Hotel (Chengdu Global Center New Convention & Exhibition), Xingchhen holiday inn. The hotel offers conference agreement rates only for the participants, and the accommodation costs shall be paid by the participants. Limited by the number of rooms, the conference affairs group will randomly assign other room types for the participants if the requirements of participants are not met.

*Please make sure you have booked the hotels during the conference successfully.*
Contact Information in China

<table>
<thead>
<tr>
<th>Contact</th>
<th>Prof. Hong LI</th>
<th>Dr. Li ZHOU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tel.</td>
<td>86-10-84912734/86-13811251464</td>
<td>86-28-85404973/86-13426487736</td>
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<td><a href="mailto:lizhou@scu.edu.cn">lizhou@scu.edu.cn</a></td>
</tr>
</tbody>
</table>

Contact Information in France

<table>
<thead>
<tr>
<th>Contact</th>
<th>Wahid MELLOUKI</th>
<th>Véronique DAËLE</th>
<th>Christian GEORGE</th>
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</thead>
<tbody>
<tr>
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<td>0033238255494</td>
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<td><a href="mailto:christian.george@ircelyon.univ-lyon1.fr">christian.george@ircelyon.univ-lyon1.fr</a></td>
</tr>
</tbody>
</table>

Conference Venue

The workshop will be held in Chengdu century city - international convention and exhibition center, China.

Chengdu century city - international convention and exhibition center is adjacent to Tianfu avenue, an extension of renmin south road, to the north to the outer ring road, to the east to the Jinjiang river, to the north to the Century Park, and to the east and west to the riverside green land. In addition, traffic conditions are very superior. As the landmark architecture of Chengdu, the political core area of the municipal government and the core area of the pan-south economic circle, the people flow, logistics, information flow and capital flow in the center are highly concentrated, which effectively promotes the development of regional economy.

*The location of hotels and public transportation roadmap are shown in Attachment 1 and Attachment 2.*
Attachment 1: The location of hotels