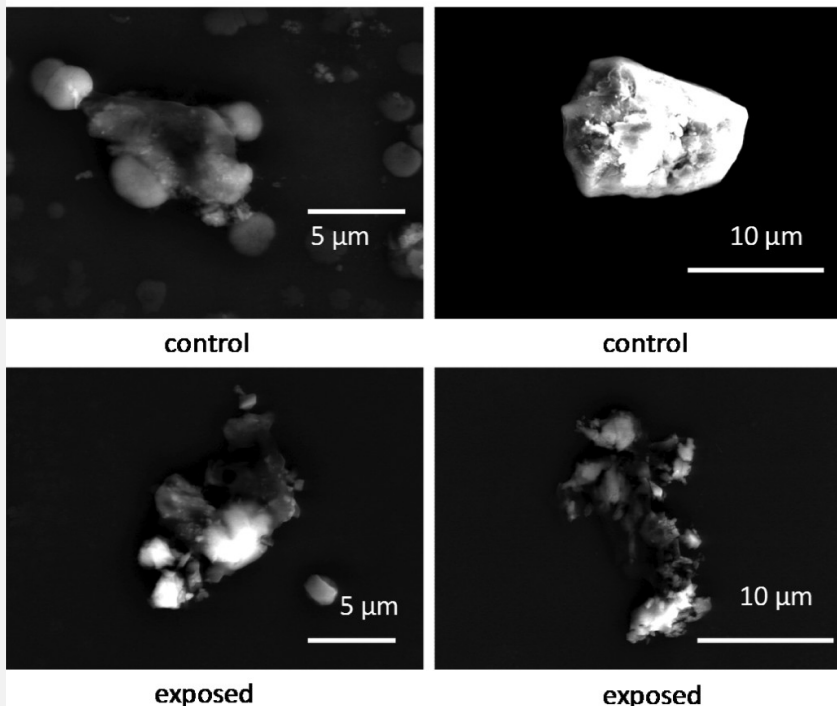


Peking University Bioaerosol
Laboratory Bulletin (PKU-BLB)
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Liquid-borne Asp f 1 exposure to microwave irradiation



北京大学生物气溶
胶实验室

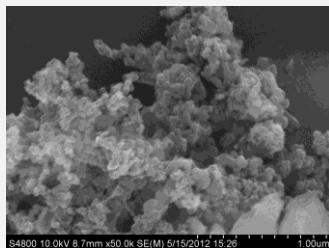
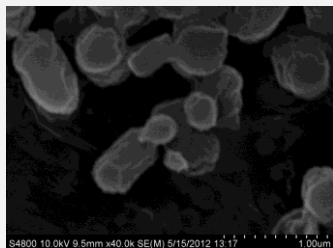
Beijing, China

Scientific Publications/Patents

1. Yan Wu and Maosheng Yao* (2014), *In Situ Airborne Virus Inactivation by Microwave Irradiation*, *Chinese Science Bulletin*, Accepted.

Control

Exposed



2. One national invention patent has been issued:

Our system and method, which integrate air sampling, microfluidics, bio-sensor, electronics and detection signal wireless transmission for real-time detection of biological aerosols, was approved for a national invention patent. This is our third issued patent.



2. Currently, 6 manuscripts are under review/preparation. We are expecting a

number of significant papers to come out soon.

Academic Honors

1. **Prof. Maosheng Yao won the 2013 Asian Young Aerosol Scientist Award.** Prof. Yao won the 2013 Asian Young Aerosol Scientist Award (AYASA) in recognition of outstanding research contributions to aerosol science and technology! It was awarded by Asian Aerosol Research Assembly (AARA) during the 8th Asian Aerosol Conference held during Dec. 2-5th in Sydney, Australia.

The Asian Young Aerosol Scientist Award was established by AARA in 2003, and is intended to recognize outstanding contributions to aerosol science and technology by a young aerosol scientist working in Asian countries. It is awarded every two years at the Asian Aerosol Conference.



Prof. Yao was being honored with the prestigious Asian Young Aerosol Scientist Award at the dinner gala reception during the 8th Asian Aerosol Conference held in Sydney, Australia.

2. **Prof. Yao was appointed to be board members of two prestigious journals: Journal of Aerosol Science and Atmospheric Environment.**

#1: Prof. Yao was invited to become an advisory board member of Atmospheric Environment. The position started in Nov, 2013. The *Atmospheric Environment* is the international journal for scientists and researchers in different disciplines interested in

air pollution and its societal impacts, and currently it has an impact factor of 3.1.

<http://www.journals.elsevier.com/atmospheric-environment/editorial-board/>

#2: Prof. Yao was invited to become a board member of *Journal of Aerosol Science*, starting in Jan, 2014. *Journal of Aerosol Science* is an International Journal (In association with the European Aerosol Assembly), and it was founded in 1970. The Journal of Aerosol Science considers itself the prime vehicle for the publication of original work as well as reviews related to basic and applied aerosol research. Currently, *Journal of Aerosol Science* has an impact factor of 2.6.

3. Prof. Yao's bioaerosol lab was featured by CCTV Channel 4

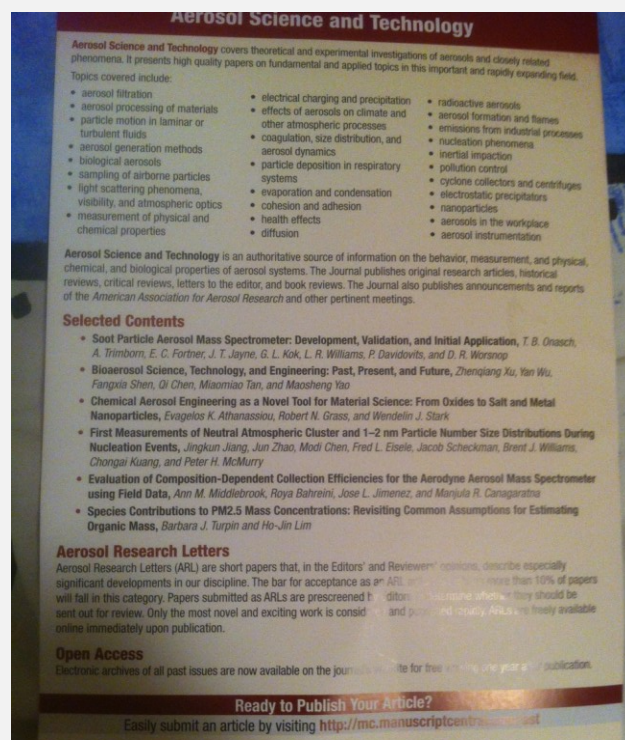


Prof. Yao(right), Kai Wei (back) and Mingzhen Li (left)
Our lab was invited by CCTV Channel 4 to investigate the claimed efficiencies of currently available dust mite removal equipments. The picture shows Prof. Yao along with his students were investigating the problem. The event was aired by CCTV Channel 4 "Is it true?" program.

4. Prof. Yao was awarded tenure at Peking University:

Prof. Yao was awarded tenure in Nov 2013 (new academic track at Peking University) after six years' hard work at Peking University. It officially backward started in August 2013.

5. Our review paper titled as "Bioaerosol Science, Technology and Engineering: Past, Present and Future" was featured as one of selected contents by the journal of *Aerosol Science and Technology* in an introduction pamphlet.



Grants

1. Our proposal about developing high-end respiratory mask was awarded as a graduate supervisor grant by Ministry of Education, China.

Our work is intended to utilize nano materials to develop next generation respiratory mask that not only has high protection efficiency, but also significantly improves the breathability.



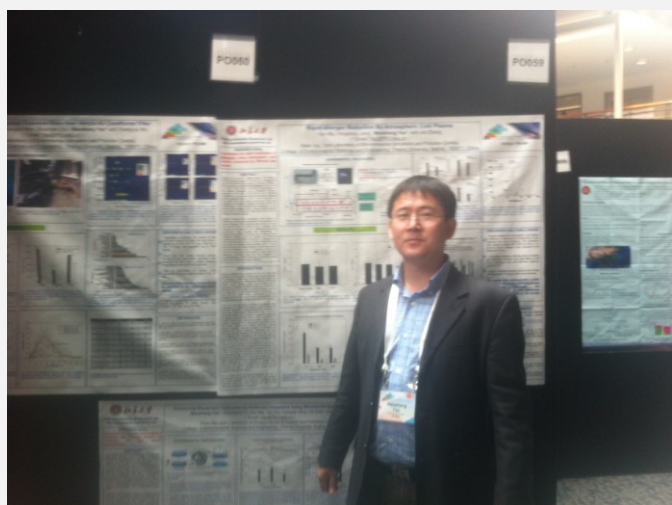
Academic Conferences

1. Prof. Yao attended the 8th Asian Aerosol Conference (AAC) held in Sydney, Australia during Dec 2-5th, 2013.

#1: Prof. Yao gave five 30-min oral presentations at the conference

<http://www.aac2013.com/program.html>

#2: In addition, Prof. Yao also presented three posters at the conference, and chaired one session.



Prof. Yao in front of our posters at the conference

Other Selected Scientific Activities

1. Prof. Yao was invited to give a talk at Chinese PLA Center for Disease Control and Prevention, Academy of Military Medical Sciences on Dec 17, 2013.

2. Prof. Yao participated in abstract review for Indoor Air 2014 conference to be held in Hong Kong in June 2014, and our group submitted 8 abstracts..

3. Prof. Yao is part of the Program Committee for the Aerosol Technology 2014 to be held in Karlsruhe, Germany during 16-18 June, 2014. The program committee is composed of world leading scientists specializing in aerosol technology, and the conference promises to be high profile one. The deadline for abstract submission is 15 Jan, 2014.

The conference web site: <http://www.gaef.de/AT2014>

Aerosol Technology 2014
16-17-18 June 2014
Karlsruhe, Germany

Abstracts 15 Jan. 2014
Registration 15 Feb. 2014
www.gaef.de/AT2014

Conference Topics

- Particle synthesis & structuring via aerosol/gas phase processes
- Flames, plasmas, spark discharges, CVD, sintering, CVD, particle surface coatings
- Physics and chemistry of nanoparticle formation, dynamics and growth
- Controlled particle structures & layers via aerosol processes
- Charging & electrical charge based manipulation of aerosols
- Dry dispersion & re-suspension of particles
- Spray technologies for industrial & consumer products
- Electrosprays: basics & applications
- Fibrous aerosols: generation, dynamics & on-line characterization
- Measurement techniques & particle characterization
- Aerosol "surface area" - definition & measurement
- Instrumentation development & inter-comparisons
- Filtration (incl. personal protection devices) & gas cleaning
- Bio-aerosols: on-line characterization, interaction with filters
- Workplace aerosols: release mechanisms, sources & assessment
- Transport, dispersion & surface deposition in large spaces
- Pharmaceutical aerosols: Formulation & pulmonary delivery
- Aerosol delivery systems for exposure & in vitro testing
- Combustion aerosols: formation & characterization

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Abstracts deadline: 15 Jan. 2014
Early bird registration: before 15 Feb. 2014
Registration: www.gaef.de/AT2014

Student News

1. Two graduate students prepare to graduate next summer: Fangxia Shen (PhD student) and Mingzhen Li (Master student).



Fangxia Shen at Helsinki, Finland attending IAC



Mingzhen Li

Academic & Social Gatherings

1. The Asian Young Aerosol Scientist Award ceremony gathering



Aerosol scientists gathered with the awardees of the Asian Young Aerosol Scientist Award at the 8th Asian Aerosol Conference held during Dec 2-5, 2013 in Sydney, Australia.

2. Mingzhen Li's birthday party



Bioaerosol group for Mingzhen's birthday celebration

3. Our former graduate student Chen Qi's meal treat!



To everyone who helped and supported us
in the past, we wish YOU

Merry Christmas and Happy New Year!

Editor's note:

This quarterly PKU-BLB was prepared by bioaerosol laboratory at Peking University. Our next issue is expected to be in April 2014.



Peking University Bioaerosol Laboratory

For other information, please visit our laboratory web site: <http://openwetware.org/wiki/Yao-lab>

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