



Association of Overseas Chinese  
Agricultural, Biological and Food Engineers  
海外华人农业、生物与食品工程师协会

## In This Issue:

- 2013-2014 AOC Board
- 2013 AOC Awards
- 2013 China Exchange Summary
- 2013 Board Meeting Summary
- 2013 Business Meeting Summary
- 2013 Activities Photos
- Job Announcements
- 2013-2014 IMPACT Editorial Board

## President's Message:

### "Together, Let's Make a Difference"

AOCABFE (abbr. as AOC), the Association of Overseas Chinese Agricultural, Biological, and Food Engineers (海外华人农业、生物与食品工程师协会) was established in 2001. The AOC missions are: (1) to promote information exchange and networking among agricultural, biological, and food engineers of Chinese origin worldwide; (2) to facilitate and support research collaborations, educational exchange, and technology transfer; and (3) to encourage professional development.

Over the past decade, AOC has provided great platforms for scientific exchange among overseas Chinese scientists, researchers, and engineers in agricultural, biological and food engineering fields. The **AOC China Exchange** forum has invited over 100 speakers from government, university, research institutes, and industry to share their achievements and perspectives in academic, research, and business exchange with China. The annual **AOC**

**Award Banquet** not only recognizes distinguished AOC faculty members and excellent students for their outstanding

academic performance, effective leadership, and superior service, but also provides a great face-to-face networking opportunity to the AOC members and friends. AOC and Chinese Society of Agricultural Engineering (CSAE) have jointly established (1) **International Journal of Agricultural and Biological Engineering (IJABE)**, a fast growing technical journal that has recently been included in EI Compendex, and (2) **International Forum: Sustainable Agriculture** in conjunction with the CASE biannual meeting in 2013.



*(cont'd on page 2).*

## President's Message: *(Cont'd from page 1)*

As an arising Association, AOC is committed to sustain the above good platforms of exchange, collaboration, communication, and professional development for members. Furthermore AOC constantly develop new programs to serve AOC members better.

With the rapid development of Chinese economy, many institutions have needs to expand their international collaboration programs. To meet the needs, AOC is establishing institutional membership for universities, research institutions, and companies, especially for the institutions in China. The possible institutional membership benefits could include promoting the institutions among AOC members, facilitating faculty and student scholarly exchange, and establishing collaboration among institutions.

AOC has transformed into a society including many distinguished scholars who are impacting our professions. Therefore, we plan to establish AOC Fellow membership to recognize these distinguished members and enlarge AOC's impact through these members. In addition, more student awards will be established to encourage student professional development and achievements in all aspects of their academic life.

AOC is committed to supporting students and junior faculty's professional growth through regular professional development seminars, a voluntary mentoring network, workshops, and student dinner parties during the AOC annual meetings.

It is a great honor and challenge for me to serve you as the AOC President for the term of 2013-14. I will work with all of YOU and the AOC Board members to take opportunities and challenges to meet your needs and grow AOC into a professional home for food, agricultural, and biological engineers of Chinese origin worldwide.

"Together, let's make a difference." I am calling for your commitments to

- Voice your needs,
- Assume ownership or leadership to AOC activities,
- Promote AOC membership and bring at least one new member per year,
- Contribute to professional development forum or seminars,
- Promote AOC missions and events,
- Help AOC to connect with potential sponsors, and
- Bridge AOC with other professional societies

Sincerely yours,



**Lingying Zhao**

AOC President (2013-2014)



## AOC Executive Board 2013-2014



**Lingying Zhao**  
President  
Ohio State Univ., USA



**Lie Tang**, Vice President  
Director of AOC Web  
Iowa State Univ., USA



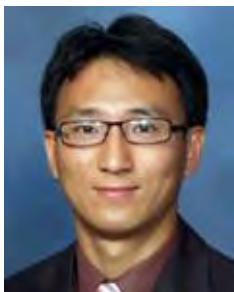
**Zhuping Sheng**  
Past President  
Texas A&M Univ., USA



**Changying Li**  
President Elect  
Univ. of Georgia, USA



**Jiantao Wei**, Member-at-  
Large, Secretary  
CNH America, USA



**Yufeng Ge**, Member-at-  
Large, Treasurer  
Texas A&M Univ., USA



**Naiqian Zhang**  
Student Advisor  
Kansas State Univ. USA



**Hong Li**, Member-at-Large  
Director of Membership  
Univ. of Delaware, USA



**Ning Wang**  
IMPACT co-Editor  
Oklahoma State Univ., USA



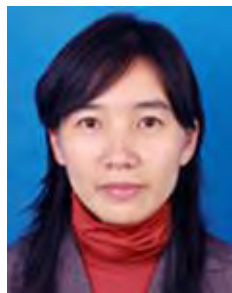
**Bingjun He**  
IMPACT co-Editor  
University of Idaho, USA



**Hanwu Lei**, Member-at-  
Large, Director of  
Professional Development  
Washington State Univ.



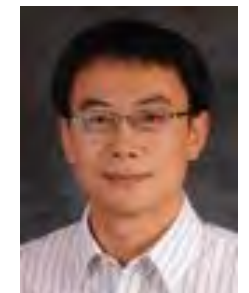
**Yubin Lan**  
Foundation Director  
USDA ARS, USA



**Liping Chen**, Member-at-  
Large, Tech-Cooperation  
Director, Co-Director of  
Institutional Membership



**Yingkuan Wang**, Editor-in-  
chief of IJABE, Director of  
Institutional Membership  
China Regional Director



**Yongbo Wan**  
SAC Chair  
Oklahoma State Univ., USA



**Fuqing Xu**  
SAC Vice Chair  
The Ohio State University



**Xiwen Luo**  
Asia&Pacific Region Director  
S. China Agr. Univ., China



**Jun Zhu**  
South/ North America  
Regional Director  
Univ. of Minnesota, USA



**Da-Wen Sun**, Europe and  
Africa Regional Director  
Nat' University of Ireland  
Dublin, Ireland



**Xiusheng Yang**  
Overseas Dean, Yangling  
Int'l Acad. of Modern Agr.  
Univ. of Connecticut, USA

## AOC Executive Board 2013-2014

	Position	Name	Term	Email
1	President	Lingying Zhao	2013-14	zhao.119@osu.edu
2	Vice President	Lie Tang	2013-14	lietang@iastate.edu
3	Past President	Zhuping Sheng	2013-14	
1	President-Elect	Changying Li	2013-14	cyli@uga.edu
4	Secretary, Member-at-large co-Director of Professional Development	Jiantao Wei	2012-14	weijiantao@yahoo.com
5	Treasurer	Yufeng Ge	2013-14	yg36@tamu.edu
6	Student Advisor	Naiqian Zhang	2013-14	zhangn@ksu.edu
7	IMPACT Newsletter co-Editor	Ning Wang	2013-14	ning.wang@okstate.edu
8	IMPACT Newsletter co-Editor	Bingjun He	2013-14	bhe@uidaho.edu
9	IJABE Editor in Chief Director of Institutional Membership	Yingkuan Wang	2013-14	wangyingkuan@gmail.com
10	Member-at-large Director of Membership Development	Hong Li	2013-15	hli@udel.edu
11	Member-at-large Director of Tech-Cooperation Co-Director of Institutional Membership	Liping Chen	2012-14	chenlp@nercita.org.cn
12	Member-at-large Director of AOC Web	Lie Tang	2012-14	lietang@iastate.edu
13	Member at-large Director of Professional Development	Hanwu Lei	2013-15	hlel@wsu.edu
14	Foundation Director	Yubin Lan	2013-15	yubin.lan@ars.usda.gov
15	Director (North & South America)	Jun Zhu		zhuxx034@umn.edu
16	Director (China)	Yingkuan Wang		wangyingkuan@gmail.com
17	Director (Europe-Africa)	Da-wen Sun		dawen.sun@ucd.ie
18	Director (Asian-Pacific)	Xiwen Luo		xwluo@scau.edu.cn
19	YIAMA Overseas Dean	Xiusheng Yang		
20	SAC Chair	Yongbo Wan	2013-14	yongbowan@gmail.com
21	SAC Vice Chair	Fuqing Xu	2013-14	xu.467@osu.edu

### Liaisons to other organizations

Organizations	Liaisons	Organizations	Liaisons
ASABE	Ning Wang/ Zhuping Sheng	CSAE/CSAM (China)	Zhongli Pan
CSAE (Canada)	Qiang Zhang	CIAM (Taiwan)	Ta-Te Lin
CIGR	Naiqian Zhang	Euro-AGEN	Dawen Sun
AAAE	Naiqian Zhang		

### The Executive Board

The Executive Board shall consist of the President, the immediate Past President, President-Elect, Vice President, Secretary, Treasurer, Student Advisor, Newsletter Editor, five (5) At-large members, and Directors of four (4) Geographic Units: America (North and South), China, Europe-Africa, and Asia-Pacific. For more information about the executive board, please refer to the AOC's bylaws at <http://www.AOC-web.org> or <http://aoc.cau.edu.cn>. §

# 2013 AOC AWARDS



Every year, AOC presents awards to outstanding students and professionals to recognize the achievements in their study, career, and services.

## 2013 AOC Student Paper Awards

At the 2013 AOC Annual Meeting, five AOC student members received awards in the annual AOC student paper competition. The awards included certificates and checks of \$200, \$150, \$125, \$100, and \$75, respectively. The award was judged by an invited panel including Drs. Yebo Li, Ning Wang, Zhongli Pan, Lingying Zhao, Changying Li, Lie Tang, Zhuping Sheng, and Yubin Lan.

	Title of the Paper	Awardee
<b>First Place</b>	Moisture effects on gas-phase biofilter ammonia removal efficiency, nitrous oxide generation and microbial communities (ASABE Paper Number 1594519)	Liangcheng Yang, Xinlei Wang, Ted L. Funk, Richard S. Gates, Yuanhui Zhang, and Angela D. Kent <i>University of Illinois - Champaign</i>
<b>Second Place</b>	Catalytic upgrading of Douglas fir sawdust pellet vapors over Zn/ZSM-5 catalysts in a packed-bed catalysis reactor (ASABE Paper Number 1594800)	Lu Wang, Hanwu Lei, Quan Bu, Lei Zhu, Yupeng Liu, John Lee, Shulin Chen, and Juming Tang <i>Washington State University</i>
<b>Third Place</b>	Development of a disposable impedance biosensor and its application for determination of <i>Escherichia coli</i> O157:H7 (ASABE Paper Number 1593501)	Yixian Wang, Zunzhong Ye, and Yibin Ying <i>University of Arkansas</i>
<b>Fourth Place</b>	Electricity Generation, and Organic Matters and Nutrients Removal Using Microbial Fuel Cells for Swine Wastewater of Different Pretreatment (ASABE Paper Number 1577649)	Hongjian Lin, Xiao Wu, Curtis Miller, and Jun Zhu <i>University of Minnesota</i>
<b>Fifth Place</b>	Effect of high pressure on inactivation of <i>Escherichia coli</i> in frozen suspension (ASABE Paper Number 13-1595065)	Guangming Su, Minsheng Zhou, Jinsong He, Yong Yu, and Songming Zhu <i>Zhejiang University</i>

## 2013 AOC AWARDS

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### Graduate Scholarly Achievement Award

#### **Weimin Cai**

Zhejiang University/ Oklahoma State Univ.

Mr. Cai was selected for this award because of his outstanding academic achievements. He has published four papers and received two patents. He also has made great contributions to the AOC by serving as an Associate Editor of the AOC Newsletter "Impact" and a member of the AOC SAC Board.

### Graduate Leadership and Service Award

#### **Weilin Wang**

University of Georgia

Mr. Wang has served as a member of the AOC SAC Board for the past four years. As the chair of the 2012-2013 SAC board, he worked hard to keep the AOC student community active. Under his leadership, the SAC board greatly strengthened its online tools for job information sharing. He also served in the AOC website upgrading committee and volunteered to set up a new email listserv for AOC faculty members.



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### AOC Early Career Award

#### **Dr. Jiantao Wei**

System Engineer, CNH America

Dr. Jiantao Wei specializes in the research and development of precision agriculture and automated machine technology in the agricultural equipment industry. He specified and developed two precision agriculture consoles in AGCO, which have been in commercial production of Massey Ferguson, Valtra, Challenger brands of tractors, sprayers, combines, planters, and balers. He also contributed to drafting of International Standard (ISO11783), which has become the foundation of electronic communication onboard agriculture machines. Dr. Wei received two US patents for his research in guidance area. He received one AE50 new product award for his outstanding work in development of File Server software, and one superior paper award for his research in obstacle detection surrounding agricultural vehicles, both from American Society of Agricultural and Biological Engineers.



### AOC Outstanding Career Award

#### **Dr. Yubin Lan**

Agricultural Engineer, USDA-ARS APMRU



Dr. Yubin Lan has made outstanding contributions to Agricultural and biological engineering over the last 29 years of his professional career. His research areas include intelligent equipment, GIS, GPS and remote sensing for precision agriculture. He published over 220 technical papers including 80 refereed journal articles and 8 book chapters. He served as AOC President in 2010-11. During his term, Dr. Lan is active in promoting the profession of Biological and Agricultural Engineering and in developing a strong joint relationship with engineers and scientists from universities in China and the United States.

## 2013 China Exchange Forum

Research and Educational Development  
in Food, Energy and the Environment

by Lingying Zhao

AOC China Exchange was established as a platform of communication and collaboration between AOC professionals and peers in China. Over the past decade, AOC China Exchange has invited over 100 speakers from government, university, research institutes, and industry to share their achievements and perspectives in academic, research, and business exchange with China. **2013 China Exchange Forum** was held during on July 22, 2013 during The 2013 Annual International Meeting of American Society of Agricultural and Biological Engineers in Kansas City, Missouri, the U.S.



### The rationale of the 2013 China Exchange Forum.

Maintaining a sustainable environment while meeting rising demands for food and energy is an imperative global challenge. The US Department of Agriculture's priority areas of research, education, and development include food security and safety, sustainable energy, and climate change and variability. China's 12<sup>th</sup> 5-year plan has a focus on accelerating the development of modern agriculture. The government also invests heavily in renewable energy and environmental control technologies. In today's global economy, collaboration is required to transform the global challenges into economic development opportunities. China and the U.S. are the world's two largest economies, greenhouse gas emitters, and energy consumers, and together, have the greatest need and potential benefits to collaborate. Collaborations will lead to a new generation of professionals and entrepreneurs with systematic and multidisciplinary training and global

perspectives, who can address current food, energy, and environmental problems with transformational technologies.

**The goals of the 2013 AOC China Exchange Forum** were to: (1) share on-going successful Sino-US collaboration programs in food, renewable energy, and the environment control, (2) promote new collaboration among the academia, industry and government agencies in the areas, and (3) explore new directions and forms of collaborations in the areas.

The forum had oral presentations from invited speakers to lead discussion. A panel Q&A session and a free discussion session to explore new directions and forms of collaboration in the critical areas was held in the end of the Forum.

For research and education development programs in food production, safety, and processing areas, too renowned experts gave a big picture and on-going grant and program initiative in both China and the US. **Dr. Chuanheng Sun**, China National Engineering Research Center for Information Technology in Agriculture (NERCITA) first gave an **"Overview of Administration policies, technologies development and applications in agricultural product traceability in China."** Then



**Dr. Juming Tang**, Washington State University, gave an **"Overview of the U.S. food processing research programs."**

For research programs on bioenergy, **Dr. Yuanhui Zhang** comprehensively introduced the on-going program initiative in China and the US through his presentation entitled **"Sino-US collaborations in Energy and the Environment."**





**Dr. Quanguo Zhang**, Vice President of Henan Agricultural University introduced **“Research advance in photosynthetic hydrogen production technology from biomass in China.”** **Dr. Yebo Li**, The Ohio State University gave an **“Overview of the U.S. research and development programs in Bioenergy and Bioproducts.”** Dr. Yebo Li has received more than \$10 million in research and training grants including a recent \$6.5 million grant as PI from USDA-DOE Biomass Research and Development Program working on anaerobic digestion. One of his patented technologies has been licensed and Bio100 Technologies LLC in Mansfield, OH for commercial production. Dr. Li has been awarded the 2012 ASABE Rain Bird Engineering Concept of the Year Award and 2011 Early Career Innovator of the year award of The Ohio State University.



through his presentation entitled “Partnership in Academic Mobility.”

For technology transfer and collaboration with industry partners, **Dr. Ruihong Zhang**, Professor in the Department of Biological and Agricultural Engineering at University of California at Davis shared her “Experiences in collaboration with Chinese industries.” Dr. Ruihong Zhang has successfully transferred new technologies from her laboratories to commercial companies and has served as Chief Technology Officer or Scientist for two companies. She has seven patents. She received the honor of Engineering Innovator from the College of Engineering at UC Davis in 2012. Dr. Zhang received the New Holland Young Researcher Award from the ASABE in 2003, Environmental Award from the U.S. EPA in 2007, and Distinguished Career Award from AOC in 2010.



For environment research, **Dr. Karen Mancl**, The Ohio State University introduced her work on **“Wastewater treatment in rural china: from research to practice.”** Dr. Karen Mancl focuses on low cost and effective technologies for wastewater treatment. Her sand bioreactor technology for waster water treatment has been transferred to China and is expected to significantly improve wastewater treatment in rural areas of China.

For education program, **Dr. K.C. Ting**, Chair of Department of Agricultural and Biological Engineering, University of Illinois (UI) reviewed the joint Bachelor and Master Degree programs of UI with many top Chinese universities, such as China Agricultural University and Zhejiang University. The history, formats, achievements and impacts of UI’s joint degree programs and scholarship programs established through collaboration with Chinese universities and industry partners were interestingly reviewed

The speakers provided excellent presentations at the 2013 AOC China Exchange session. The audiences very well received the presentations. Several people walking between ASABE sessions stopped and told Lingying Zhao that they enjoyed the AOC China Exchange talks very much and they thought the China Exchange session was very interesting.

### Organizations and Sponsors

This forum is co-sponsored by AOCABFE (AOC) and the China National Engineering Research Center for Information Technology in Agriculture (NERCITA).



# China National Engineering Research Center for Information Technology in Agriculture

China National Engineering Research Center for Information Technology in Agriculture (NERCITA) was established in 2001 with the approval of the Ministry of Science and Technology of China. As a national research institution, it mainly engages in research and development of agricultural and rural informatization engineering technology. Based on the requirements of agricultural and rural development of China, the major mission of NERCITA is to make key technology innovation, establish technical platform and develop significant products for agriculture, which focus on five aspects: intelligent information processing technology, remote sensing and geographic information system, precision agriculture, biological environment control engineering and automation technology as well as fast detection techniques of agricultural product security and the monitoring technology of farmland environmental quality. The ultimate goal is to provide a powerful technological support for agricultural modernization and rural development.

NERCITA has 300 researchers under two independent management systems, Beijing Research Center for Information Technology in Agriculture and Beijing PAIDE Information Technology Co. Ltd. NERCITA consists of 14 departments, including Agri-software Engineering Dept., Intelligent System Dept., Remote Sensing Dept., Agri-GIS Dept., Environment Control Dept., Precision Agriculture Dept., Cartoon and Animation Design Dept., R&D Achievements Transfer Dept., and so forth. There are 4 laboratories focus in the field of Intelligent Information Processing, Virtual Agriculture, Digital Measurement and Control Technology as well as Internet of Things (IOT). The Key Laboratories of Agricultural Information Technology of Beijing and Ministry of Agriculture of the People's Republic of China (MOA), the Innovation Center for Information Technology of MOA and Post-doctoral Research Station were established in NERCITA. More than 40 postgraduate and doctoral students are enrolled here annually, cooperating with more than 20 universities.



Monitoring and Service Center for Internet of Things in Agriculture



Intelligent Perception Lab.



Digital Plant and Digital Entertainment Lab.

NERCITA occupies above 10,000 square meters, and has established the National Precision Agricultural Research and Demonstration Base (NPARDB) with an area of 167 hectares in Xiao Tangshan of Beijing. NPARDB is also the Key Field Scientific Experimental Station of MOA and the National Education Base of Precision Agriculture. NPARDB owns large-scale intelligent agricultural implements, GPS base station,



National Precision Agricultural Research and Demonstration Base



Lysimeter System for Crop Irrigation

monitoring station for soil moisture, intelligent monitoring and control of greenhouse, as well as the platform of precision fertilization and pesticide spraying test. NPARDB is the largest and most functional base in China for scientific research and demonstration of precision agriculture, 'satellite-airplane-earth' quantitative remote sensing. NPARDB provides a stable and opening experimental and research platform and is becoming the window of international academic exchange and cooperation.



Growth Monitoring System by RS

NERCITA has obvious advantages in agricultural intelligent system, precision agriculture, quantitative remote sensing in agriculture and the research and application of measurement and control technology in digital agriculture. NERCITA gradually formed a serial, packaged and standard technical product system based on more than 100 patents developed by itself, and well-known product brand, such as PAIDE®, PlantCAD® and NewFarmer®. NERCITA established more than 100 achievements transfer bases, which resulted in the technologies and products of NERCITA have been applied in 30 provinces of China and in southeast Asian nations. NERCITA has won more than 40 official awards, including 3 National Scientific and Technological and Technological Awards approved by the State Council of China, and the World Summit Award (e-Science) sponsored by ITU, UNIDO, UNESCO in World Summit on the Information Society (WSIS), Geneva, 2003.



World Summit Award



Metrological Management and Service System for Agricultural Machines



Series Product on Agricultural Intelligent System Platform



Field Information Collection System



Crop Virtual Design by PlantCAD®

**Director & Chairman of Academic Advisory Committee: Professor Chunjiang Zhao**

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Fax: +86-10-51503750  
Website: <http://www.nercita.org.cn>

## AOC 2013 Fall Board Meeting

10:30am-12:30pm EDT on Sep. 9<sup>th</sup> 2013

By: Fuqing Xu, SAC Vice Chair

# Minutes

### Attendees:

Lingying Zhao, President  
 Yingkuan Wang, Publication Director (IJABE Executive Editor-in-Chief), China Region  
 Hanwu Lei, Director of Profession Development  
 Hong Li, Director of Membership (Member-at-Large)  
 Tang Lie, Vice President, Director of Website Committee (Member-at-Large)  
 Zhuping Sheng, Past President  
 Liping Chen, Director of Technology Cooperation (Member-at-Large)  
 Naiqian Zhang, Student Advisor  
 Yongbo Wan, SAC Chair  
 Fuqing Xu, SAC Vice Chair and student board member  
 Yubin Lan: Director of AOC Foundation

### Absent Board members:

Changying Li, President Elect	Xiwen Luo, Asia-Pacific Region Director
Yufeng Ge, Treasurer	Jun Zhu, North America Region Director
Jiantao Wei, Secretary (Member-at-Large)	Dawen Sun, Europe Region Director

Dr. Lingying Zhao called the meeting and proposed the meeting agenda. All attendants approved the agenda. The meeting processed according to the agenda as follows:

#### 1. Discussions and reports on programs and activities at the 2013 AOC annual meeting.

##### ▪ Outcomes

The activities include the China exchange forum, the AOC business meeting, the AOC Award Banquet, and the Student Banquet. The main theme for 2013's AOC China Exchange session was food, energy, and environment. Dr. Lingying Zhao was in charge of this event. The forum was well received and attracted a large group of attendees. The AOC Award Banquet, organized by Dr. Changying Li and Dr. Zhuping Sheng, was also a big success and had a very impressive turnout. There were about 200 attendees. The Student Banquet was well organized and attended as well.

##### ▪ What have worked and what need to be improved

For the China exchange forum and business meeting, the schedule was a little bit overwhelmed. Several speakers went over time and there was not enough time left for the discussion after meeting.

Dr. Lingying Zhao proposed that next year, we should improve the time control, especially for speakers from China.

Dr. Lie Tang proposed to reduce speakers and increase the presentation time to 20 min.

Dr. Yingkuang Wang proposed to add more opportunities for interactions, both after each presentation and after the whole section.

Dr. Zhuping Sheng proposed to better organize the meeting. By letting speakers know that they will still have time for questions and further

explanations after the section, the speaker may be better for the time control.

Dr. Lingying Zhao proposed to only add extra time for China speakers in the next year.

Dr. Zhuping Sheng summarized the award banquet in 2013. The organization of the banquet was difficult and the major problem this year was that the people attended extremely exceeded the capacity. Dr. Sheng also stated the advantages and disadvantages for holding the banquet in Chinese restaurants and in the conference hotel. The advantage of Chinese restaurant is the flexibility of time and people attend, while the advantage of the conference hotel is the convenience of transportation.

In the next year, improvements are needed to control the last-minute registration, including students, visiting scholars and family members. 20 additional capacities will be reserved for the unexpected attendants. If we use the conference hotel, we need to cut off the registration early. Dr. Lingying Zhao proposed to work closely with Dr. Ning Wang and the dean of Zhejiang University to choose the banquet location in next year, since they are all very familiar with Montreal.

Fuqing Xu summarized the student banquet in 2013. One success was that the speeches during the banquet were impressive. The major problem was how to recruit new members and how to better organize the banquet registration. Dr. Zhao suggested that SAC may try to let student preregister, and ask the old student members to refer new students to the banquet.

Some additional information with SAC was not presented in the meeting. We have recruit several new student volunteers to serve the student board members. Most of them are second or third year students and can serve the committee for a longer time. Positions were roughly assigned, including vice chair, activity director et al. We already have students volunteered to maintain the website and help to edit the newsletter. However, this year we didn't get board members in China. So it will be helpful if any faculty can recommend one or two student board members in China to help us with our work in China.

## **2. Review meeting minutes of 2013 AOC Business Meeting in Kansas City meeting**

This meeting minutes will be presented and approved during the 2014 AOC Business meeting. Anyone who has new suggestions is encouraged to email Drs. Lingying Zhao or Dr. Jiantao Wei.

## **3. Discussions on the following new initiatives and committees:**

### **▪ Institutional membership**

Dr. Zhao proposed to establish institutional membership for universities, research institutions, and companies, especially for the institutions in China.

Dr. Yingkuan Wang mentioned that many Chinese institutions have funding for oversea collaboration. The key point is that AOC has to convince these potential members that AOC can benefit them.

Dr. Zhao suggested the possible benefit: promote the fame of the institution among AOC members through AOC annual meeting, AOC newsletter, AOC web-site; help to find host faculty or institution for students studying abroad, faculty visiting scholar; help convenience to send students oversea, communication with researchers abroad.

Dr. Liping Chen thought this is a good idea. Last year when her institution decided to support AOC, it was hard to find an appropriate reason to do so. If AOC has institutional membership, the donation procedure would be easy.

In the following discussion, board members approved to establish a subcommittee to

The Institutional Membership Committee were formed:

Yingkuan Wang (leading Director)  
Liping Chen- (co-Director for research institutions)  
Minli, Yang (co-Director for companies)  
Hong Li, Yibin Lan, and  
Lingying Zhao.

### **▪ AOC honorary members and/or Fellow membership**

After 13 years development, AOC has transformed to a society including many distinguished scholars who are impacting our professions. Establishing AOC Fellow membership can recognize these distinguished members and enlarge AOC's impact through these members.

Selection criteria need to be drafted and changes in bylaws should be proposed. Some discussion on the Fellow membership criteria are that Fellow members should have probably a 2% ratio limitation even through honorary members have No ratio limitation. Dr. Yingkuang Wang suggested to change the Chinese translation of AOC from “协会” to “学会”. This will be discussed in the next meeting.

Board members support this move and approved to establish a committee to develop criteria and by-law change needs for establish the AOC Fellow membership. The Fellow Committee was formed as: Dr. Hong Li (Director), Dr. Naiqiang Zhang, Dr. Zhuping Sheng, and Dr. Changying Li, and Dr. Lingying Zhao

#### **More awards, especially student awards**

The student board members will refer to other student organizations, discuss and explore more student awards, which are related to academia, service, leadership et al. The new awards will be proposed during the next AOC meeting **in Early December**.

Faculty that will work with SAC on the student awards are Drs. Hong Li, Hanwu Lei and Naiqian Zhang.

#### **Professional development forum or seminars for students and junior faculty**

Dr. Zhao proposed to promote student and junior faculty professional growth through regular professional development seminars. Dr. Zhuping Sheng suggested facilitating faculty mentorship for students who are in needs. Student board members are suggested to develop seminar topics to meet the needs of AOC student members. Faculties will organize the webinars. Dr. Hanwu Lei will take lead to help students with academia

career interests and Dr. Jiantao Wei will take lead to help students with industry career interests.

#### **Improvement and maintenance of aoc-web.org**

Dr. Lie Tang mentioned that the current website is not easy to update and maintain. We need to redevelop the web-site for improvements and easy to update and maintain. We need to have additional support to maintain the website, including professional help and more hands to do the tasks.

Dr. Zhao's asked help from Dr. Liping Chen to support the AOC web redevelopment and provide professional support on the AOC-web update and maintenance. She suggested each section of the web site should be updated and maintained by the committee that is responsible for the contents.

Dr. Liping Chen agreed to provide support to redevelop the AOC web site and provide tech support for latter updates and maintenance.

The Board approved the redevelopment of the AOC web-site. The web committee was formed and include: Dr. Lie Tang (Director), Dr. Liping Chen (co-Director), Dr. Hong Li, Dr. Changying Li, Dr. Yingkuan Wang, Dr. Yubin Lan, Dr. Lingying Zhao, and a SAC member. The student board will elect a student to join to the website board and work with the faculties on the website. Dr. Lie Tang will organized a committee meeting to discuss the web development and update needs and talks.

#### **4. Discussions and Approvals of the 2013-2014 committees and leadership appointments**

The Board approved the following Board members and committee leadership:

- Past President: Zhuping Sheng
- President elect: Changying Li
- President: Lingying Zhao
- Vice President: Lie Tang
- Student Advisor: Naiqian Zhang
- Treasurer: Yufeng Ge
- Secretary: Jiantao Wei
- Director of Foundation: Yubin Lan

- New Member-at-Large Board Members: Hong Li and Hanwu Lei
- Director of Publication: IJABE Editor-in-Chief and IMPACT Editor: Yingkuan Wang
- Director of Membership Development: Hong Li
- Director of Institutional Membership: Yingkuan Wang and Liping Chen, and Minli Yang
- Director of Professional Development: Hanfu Lei and Jiantao Wei
- Director of Technology Cooperation: Liping Chen
- Director of AOC Web Development: Lie Tang and Liping Chen
- Director of China Region: Yingkuan Wang

Dr. Lingying Zhao will contact the following region directors for their interests and commitment to serve AOC.

- Director of Asia-Pacific Region: Xiwen Luo
- Director of North America Region: Jun Zhu
- Director of Europe: Dawen Sun

## 5. Tasks and timeline for the next three months

- Membership (individual and institutional)
- Website
- IMPACT
- Foundation
- China Exchange
- AOC 2014 Business Meeting and Award Banquet
- Yangling Academy?
- Professional development programs
- Student activities
- Member communication through modern social media

Some of the above tasks were discussed in agenda Item #3. Some were not fully discussed and defined. Leaders of each task discussed in agenda #3 will organize the committee meeting in the following months and report the specific tasks and timelines during the next board meeting in early December.

Specifically, Dr. Yingkuan Wang reported IJABE publication status and called for support from THE AOC Board members and AOC members to the IJABE. He encouraged members to submit more review papers and other high quality paper to improve the journal's citation rate and thus impact factor. However, the number of the paper will be controlled to ensure the quality of the journal. One important thing for the submission is to emphasize the academic ethics, prevent multiple submissions or submission without the approval of all authors. Dr. Lingying Zhao suggested to implement publication agreement form before review and publish papers.

Dr. Yingkuang Wang also suggested to professionally design a template for IMPACT newsletter. Expenditures might be needed for the professional layout and presentation design. He will study the needs and report to the Board for approval during next meeting. Dr. Wang also suggested adding a summary to the Chinese and English articles in the newsletter with a second language.

SAC will need to elect more associate editors to work with Dr. Yingkuan Wang on the IMPACT newsletter. Faculties will also help to recommend some associate editors. Dr. Yingkuan will organize a meeting after the associate editors were elected to discuss the design, changes, contents, and publication schedule of IMPACT newsletter.

## 6. The form of the meeting

The format of the Board meeting was discussed and most attendees like the web video conference format. Therefore, the next Board meeting was approved to be in the form of web meeting.

## 7. Other business

Nominate the award as early as possible.

## 8. Adjourn

## 2013 AOCABFE Annual Business Meeting

By: Reporter: Changying Li

# Highlight

2013 AOCABFE Annual Business Meeting was successfully held in conjunction with the ASABE annual meeting in Kansas City, Missouri, on July 22<sup>nd</sup>, 2013.

More detailed information can be found in the 2013 AOC Business Meeting Minutes.



An attentive audience



Candidate for AOC President (Dr. Changying Li)



President's report (Dr. Zhuping Sheng)



Candidate for AOC President (Dr. Yanbo Huang)



Past President (Dr. Ning Wang) overseeing the election of AOC 2013-2014 Executive Board



Candidate for AOC Executive Board (Dr. Hanwu Lei)



Candidate for AOC Executive Board  
(Dr. Hong Li)



Technology Cooperation Director's Report  
(Dr. Liping Chen)



Student Activity Committee Chair's Report  
(Weilin Wang)



Foundation Director's Report (Dr. Zhongli Pan)



Treasurer's Report  
(Dr. Yufeng Ge)



IJABE Editor-in-Chief 's Report  
(Dr. Yingkuan Wang)



Membership Committee Chair's Report  
(Dr. Yebo Li)

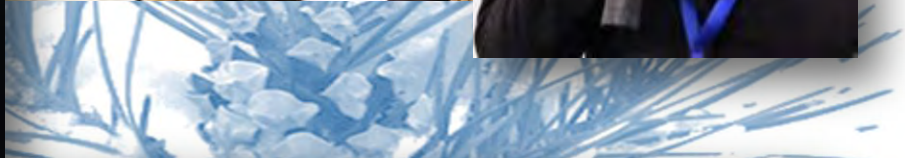


Remarks from the New President  
(Dr. Lingying Zhao)

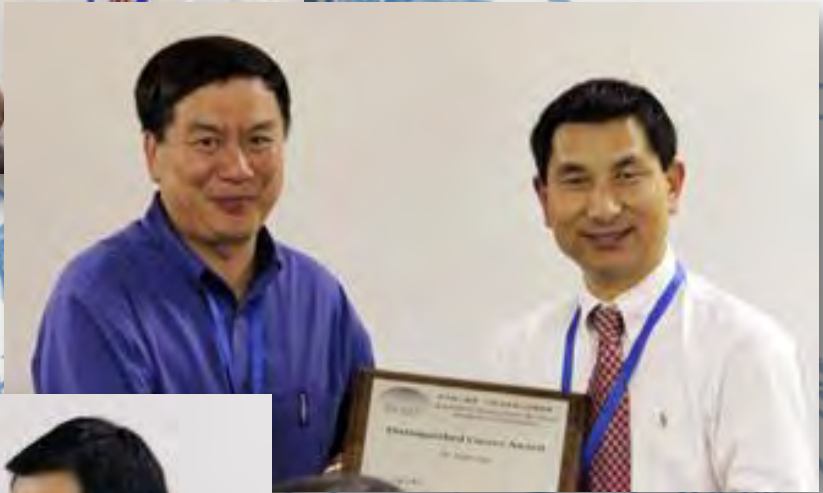


## 2013 AOC AWARD BANQUET PHOTOS





# 2013 AOC AWARD BANQUET PHOTOS



## 2013 AOC AWARD BANQUET PHOTOS



## Graduate Research Associates in Air Quality and Bioenvironmental Engineering

### Position Summary:

The Department of Food, Agricultural and Biological Engineering at the Ohio State University invites applications for Graduate Research Assistantships for Ph.D. degree in the area of Air Quality and Bioenvironmental Engineering. The successful candidates will be involved in one or two of the following research areas: energy analysis and environmental monitoring of agricultural production systems, modeling agricultural air emission, dispersion and deposition; developing wireless indoor environment measurement technologies and systems; and/or alternative energy powered heating, cooling, and ventilation systems.

The Air Quality and Bioenvironmental Laboratory at OSU is equipped with advanced equipment and facilities to conduct the proposed research. The department and university offer strong support for all aspects of research and graduate study.

### Qualifications:

M.S degree in Agricultural Engineering, Mechanical Engineering, Electrical Engineering, or other related Engineering disciplines; genuine interests in bioenvironmental engineering control and air pollution mitigation, ability to quickly learn and adopt new skills and knowledge in solving real-world problems, strong oral and written communication skills; knowledge and experience in statistical analysis, mathematic modeling, data acquisition, and aspiration and dedication to a successful academic or industry career.

### Salary and Benefits:

Starting salary/stipend and position will be commensurate with experience. Position will include full benefits including tuition.

**Anticipated Starting Date:** Jan. 2014 (open until filled).

### To Apply Please Contact:

Lingying Zhao, Ph.D, Associate Professor  
The Ohio State University  
Food, Agricultural and Biological Engineering  
590 Woody Hayes Drive  
Columbus, OH 43210

Phone: (614) 292-236

Fax: (614) 292-9448

Email: [zhao.119@osu.edu](mailto:zhao.119@osu.edu)

## Graduate Assistantship Available

Two (2) Graduate Research Associate positions (Ph.D. level, 2014 fall) are available in the Bioproducts and Bioenergy Research Laboratory under the supervision of Dr. Yebo Li. The candidates will work on the development of innovative biological and thermochemical conversion processes for production of biofuels and biopolymer from renewable sources. Applicants should have a sound scientific and engineering background in biological engineering, chemical engineering, environmental sciences/engineering, or food science and technology, and good writing and communication skills. M.S. degree in one of the above subjects is preferred.

More information:

<http://oardc.osu.edu/bioenergy>

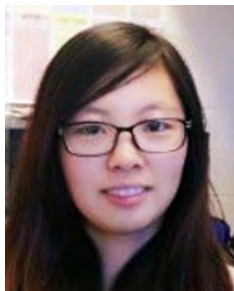
## The 2013 – 2014 AOC IMPACT Editorial Board



**B. Brian He 和秉钧**

**Co-Editor**  
Associate Professor  
Biological and Agricultural Engineering  
University of Idaho  
[bhe@uidaho.edu](mailto:bhe@uidaho.edu)

*"It a privilege to be your co-editor for AOC IMPACT this year. I'd thank everybody in advance for your support, dedication and decent work. Work together, we serve."*



**He Ma 马荷**

**Associate Editor**  
Visiting PhD student studying  
Agricultural Biosystems Engineering  
Iowa State University  
[hma@iastate.edu](mailto:hma@iastate.edu)

*"I am interesting in working for the ACO IMPACT Editorial Board because it's useful and give me opportunities to practice English writing, cooperate and commutate with others, and make new friends."*



**Meg Sheehan**

**Associate Editor**  
Senior Undergraduate Student  
Biosystems & Agriculture Engineering  
Oklahoma State University  
[meg.sheehan@okstate.edu](mailto:meg.sheehan@okstate.edu)

*"This spring I will be researching biosensors at Zhejiang University in Hangzhou, China. I am very excited to get to work with the AOC members and I can't wait to begin serving the AOC."*



**Tianjiao Zhang 张天娇**

**Associate Editor**  
Ph. D student, visiting scholar  
China Agricultural University, and  
Oklahoma State University  
[tianjiao.zhang10@okstate.edu](mailto:tianjiao.zhang10@okstate.edu)

*"Since AOC has gathered a large number of Chinese leading agricultural engineers, I felt very excited to be an Associate Editor in the AOC IMPACT Editorial Board and I hope I'll have more opportunities to communicate with these people and to learn from them."*



**Lei Zhu 朱磊**

**Associate Editor**  
PhD student  
Biosystems Engineering  
Washington State University  
[Lei.zhu@wsu.edu](mailto:Lei.zhu@wsu.edu)

*"I'm very glad to work for the IMPACT Editorial Board. It's a great platform to share and discuss new ideas."*

**Co-Editor**  
Associate Professor  
Biosystems and Agricultural Engineering  
Oklahoma State University  
[Ning.wang@okstate.edu](mailto:Ning.wang@okstate.edu)



**Ning Wang 汪宁**

*"I am glad to serve as the co-editor of AOC IMPACT with all the enthusiastic colleague and students. We will work together for AOC to make a great impact in biological and agricultural engineering community."*

**Associate Editor**  
Agricultural Biosystems Engineering  
Iowa State University  
[kail@iastate.edu](mailto:kail@iastate.edu)



**Kai Liu 刘凯**

*"My main reason to join AOC IMPACT Editorial Board is that serving as an associate editor in the AOC IMPACT Editorial Board will be a meaningful opportunity for me to strengthen myself as well as a chance to cooperate with other Chinese Scholars."*

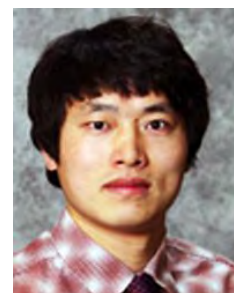
**Associate Editor**  
Joint training Ph.D. Candidate  
Zhejiang University, China, and  
Ctr for Precision & Automated Agri systems  
Washington State University  
[jhtong1010@gmail.com](mailto:jhtong1010@gmail.com)



**Junhua Tong 董俊华**

*"AOC is an organization which contributes to China's agricultural development. I'm so glad to become an AOC SAC member, and I believe "I-do-for-you-and-you-do-for-me". Hope the committee will benefit more and more people! So, I apply to serve as an Associate Editor."*

**Associate Editor**  
PhD student  
Agricultural and Biosystems Engineering  
South Dakota State University  
[Xianhui.zhao@sdstate.edu](mailto:Xianhui.zhao@sdstate.edu)



**Xianhui Zhao 赵贤辉**

*"Conversion of vegetable oil into jet-fuel is my research interest. I'd like to assist improving the quality of AOC IMPACT issues, promote the information exchange, and facilitate the collaboration between researchers."*



# Call for News & Activity Reports

## 2013-2014 IMPACT editorial Board

The 2013-2014 IMPACT editorial Board invites you earnestly to submit of news and activity reports related to ASABE and AOC. Please send your write-up and/ or picture news to the Editorial Board at [aoc.impact@gmail.com](mailto:aoc.impact@gmail.com) The IMPACT Board will work with you to put your news into the publication.

It is our publication and it is your publication. We sincerely thank each and every AOC members for their support !

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## 征稿启事

2013-2014 IMPACT 编委会真诚邀请您踊跃投稿。任何 ASABE 和 AOC 有关的新闻、活动、图片等均欢迎。

如您有稿件，请寄到邮箱 [aoc.impact@gmail.com](mailto:aoc.impact@gmail.com)。

我们将与您通力合作，发表您的稿件。

这是我们的出版物，也是您的出版物。

诚挚感谢您的鼎力支持！

