

# IMPACT

## AOC Newsletter



## PRESIDENT'S Greetings

Dear AOC Members and Friends,

Spring greetings from the AOC executive board! As we enter the Chinese Year of the Ox, I want to share some great news from AOC members who have made marvelous achievement and received distinguished honors.

Dr. Juming Tang, Regents Professor at Washington State University, was elected to the National Academy of Engineering (NAE) membership, one of the highest professional honors accorded an engineer. Dr. Hongwei Xin, Dean and Director of AgResearch at the University of Tennessee, was honored as the Fellow of the Food Systems Leadership Institute (FSLI). Dr. Ying Chen from University of Manitoba was named as President-Elect for Canadian Society for Bioengineering (CSBE). Drs. Yibin Ying and Yong He at Zhejiang University were elected to the Fellow of International Academy of Agricultural and Biosystems Engineering. Dr. Jian Jin from Purdue University received the fourth Annual 'Davidson Prize' for Ag Innovations sponsored by Association of Equipment Manufacturers (AEM) and the American Society of Agricultural and Biological Engineers (ASABE). Congratulations to all these AOC members for their great achievement in the profession and food, agriculture, and biological engineering. I also want to congratulate the editorial board of IJABE, the international Journal of Agricultural and Biological Engineering, a joint journal co-sponsored by AOC and Chinese Society of Agricultural Engineering (CSAE) since 2008. IJABE received an impact factor of 1.731, along with the Transaction of Chinese Society of Agricultural Engineering, becoming one of the high impact journals in the Agricultural Engineering field.

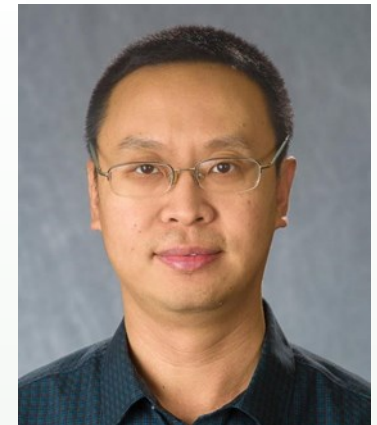
It is time again to nominate our colleagues and students who have made outstanding achievement in their professional career and service to our professional society. Nominations for AOC Fellow should be submitted to Dr. Yufeng Ge ([yge2@unl.edu](mailto:yge2@unl.edu)) by May 1, 2021. Nominations for the AOC member awards (AOC Early Career Award, Distinguished Career Award, and Outstanding Service Award) should be submitted to Dr. Yufeng Ge ([yge2@unl.edu](mailto:yge2@unl.edu)) by June 1, 2021. Nominations for the AOC student awards (including AOC Graduate Scholarly Achievement Award, Graduate Leadership and Service Award) should be sent to Dr. Kai Liu ([kailiu@cityu.edu.hk](mailto:kailiu@cityu.edu.hk)) no later than July 1, 2021. Submissions to Paper Award and AOC Student Research Presentation Competition) should be sent to Dr. Ce Yang ([ceyang@umn.edu](mailto:ceyang@umn.edu)) and Dr. Zhiwu Wang ([wzw@vt.edu](mailto:wzw@vt.edu)) no later than July 1, 2021.

AOC embraces its 20th anniversary (2001-2021) this year. The executive board is putting forth a concerted effort for several activities to celebrate the honor and achievement of this great association. You will receive invitations for the celebration events in the summer. I hope to continue getting support from you and wish everyone the best.

Best regards,

Jian Shi

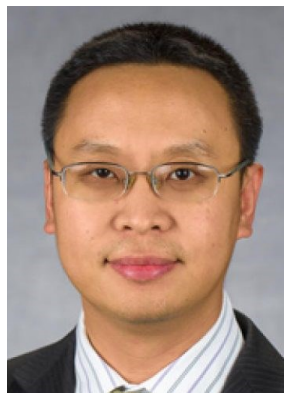
AOC President (2020-2021)



### INSIDE THIS ISSUE

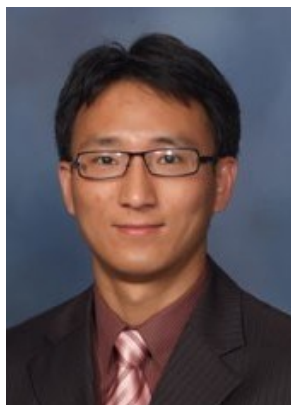
President's Greetings	1
AOC Executive Board	2
AOC Institutional Membership	4
Board Meeting	5
SAC Meeting	6
Member News	9
Faculty Interview	21
AOC Awards Nomination	23
Openings	31
AOC 20th Year Celebration	36

# AOC 2020-2021 Executive Board



**SHI, JIAN**

University of Kentucky  
PRESIDENT



**GE, YUFENG**

University of Nebraska-Lincoln,  
PAST-PRESIDENT



**ZHAO, YANG**

University of Tennessee  
PRESIDENT-ELECT



**WU, XIAO**

University of Idaho  
VICE-PRESIDENT



**ZHANG, NAIQIAN**

Kansas State University, HONORARY  
STUDENT ADVISOR



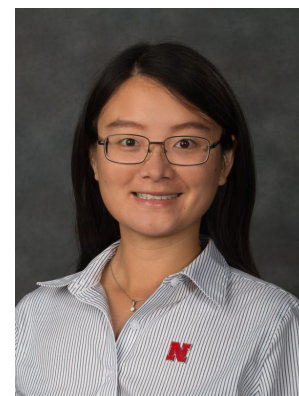
**WANG, YINGKUAN**

Chinese Academy of Agricultural Engineering,  
EXECUTIVE EDITOR OF IJABE



**CHEN, LIPING**

NERCITA., China  
DIRECTOR OF INSTITUTIONAL MEMBERSHIP



**SHI, YEYIN**

University of Nebraska-Lincoln,  
TREASURER

# AOC 2020-2021 Executive Board



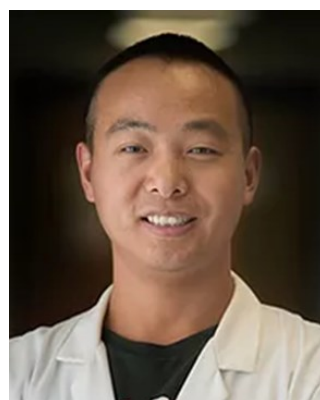
**WANG, ZHIWU**

Virginia Tech  
MEMBER-AT-LARGE



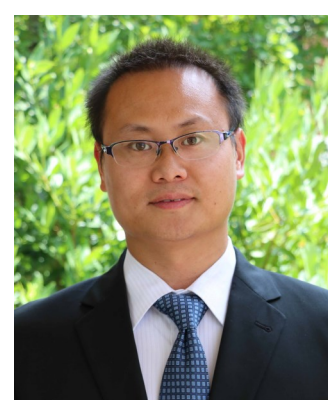
**LIU, KAI**

City University of  
Hong Kong, MEM-  
BER-AT-LARGE



**LI, MI**

University of Tennessee  
SECRETARY



**CHAI, LILONG**

University of Georgia  
NEWSLETTER EDITOR



**YANG, CE**

University of Minnesota  
MEMBER-AT-LARGE



**BAO, YIN**

Auburn University  
MEMBER-AT-LARGE



**ZHANG, XIMIN**

Zhejiang University  
MEMBER-AT-LARGE



**XIANG, LIRONG**

Iowa State University  
SAC CHAIR

# AOC Institutional Membership

中国科学院农业水资源重点实验室	Key Laboratory of Agricultural Water Resources, the Chinese Academy of Sciences
浙江大学	Zhejiang University
新疆兵团农业装备产业联盟	Xinjiang Production and Construction Corps
华南农业大学国家精准农业航空中心	International Precision Agricultural Aviation Center, South China Agricultural University
浙江理工大学机械与自动控制学院	College of Mechanical Engineering and Automation of Zhejiang Sci-Tech University
西北农林科技大学机械与电子工程学院	College of Mechanical and Electronic Engineering, Northwest A&F University
华中农业大学理学院物理系	Department of Physics in College of Science, Huazhong Agricultural University
中国农业大学中欧农业信息技术研究中心	China-EU Agriculture Information Technology Research Center, China Agricultural University
中国农业大学信息与电子工程学院	College of Information and Electrical Engineering, China Agricultural University
沈阳农业大学信息与电子工程学院	College of Information and Electrical Engineering, Shenyang Agricultural University
南京农业大学工程学院	College of Engineering, Nanjing Agricultural University

## 2020 AOC Board Meeting Minutes

8:00-10:00 pm EDT, December 22, 2020

**Attendants:** Jian Shi, Ximing Zhang, Yeyin Shi, Zhiwu Wang, Sarah (Xiao) Wu, Kai Liu, Yin Bao, Lilong Chai, Lirong Xiang, Yang Zhao, Mi Li

**Absent:** Ce Yang, Yufeng Ge

Meeting agenda was approved by all attendees (Jian moved, and Mi seconded, all in favor). No additional topic was added.

Impact Newsletter editor Lilong Chai updated that the Newsletter had published once on October 2020; it will be published once more by March 2021, ending with 3 issues for FY2020. Newsletter will cover new faculty interview and excellent faculty progress interview in next issue.

Yin Bao updated the AOC webpage, including awards winners, new board members. Some board member information needs further revision for accuracy. AOC members suggest that other components, e.g., webinars, announcements, and more information needs to be added to the webpage to increase web reading. Jian advised to develop a special 20-year anniversary theme to the webpage, such as highlighted theme color and design. Additionally, previous version of logo is preferred (Ximing will assist to search a technician to revise the logo). Yin will plan a specific theme (e.g., clickable Tab) for AOC 20-year anniversary.

Jian urged all board members to brainstorm souvenirs and gifts for AOC 20-year anniversary. Ideas, such as brochure, electronic brochure and video have been brought out. Preliminary work plan for anniversary must be proposed in next AOC board meeting by March 2021.

Yeyin Shi has reviewed treasure status— ~\$16,000 remain in account, resulting from income of \$1,005 membership fee and spending of \$180 for webpage development. Past recording showed that the banquet fee at annual meeting is one of the biggest spendings. Jian, Yeyin, Lilong, Zhiwu, & Yang advised, perhaps search potential regular sponsors and 20-year anniversary sponsors (e.g., IJABE and industries with branch at China) and supporting reasons.

Ximing updated the AOC membership development: AOC would like to incorporate more international members. Although most of Chinese conferences have been cancelled, Ximing and Sheng had introduced and advertised AOC at annual conferences at China. A post-stand is convenient for spreading the words. Additional advertising measures need to be prepared, particularly through webpage and online meeting (Ximing, Ce, Zhiwu, and Kai were urged to discuss and give it a thought.) Kai would like to join and contribute to the membership development focus with Ximing.

Zhiwu called for special webinar topics, e.g., student application, keynote speaker, general career development that are interesting to students to expand AOC impact. Invitation of potential speakers from decent journal editors, e.g. Yong He, Ting Jiang, Jun Zhu, Yufeng Ge etc. is a great consideration to student advising and professional development.

Lirong updated SAC status—from 7 to 10 members. A recent SAC meeting has reviewed (1) the past work with respect to newsletter and AOC website maintenance; (2) transition to new members; and (3) plan for virtual meeting. AOC public platform is useful and Lirong will find students for the operation and maintenance of WeChat Public Platform. All the SAC members will be invited to the next AOC board meeting on Feb to discuss AOC 20-year anniversary celebration plan.

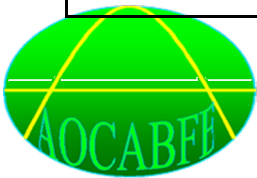
Jian updated 2<sup>nd</sup> Africa-China-India Engagement Forum: the session proposal still available and Jian will follow up speakers.

AOC-20 anniversary meeting: (1) Steering committee will be established by inviting established and senior AOC members (e.g., Naiqian Zhang, Zhiming Qi, Yanbo Huang, Pan et al.); (2) Organizing committee, consisted of Sarah, Yang, Yufeng, Yingkuan, and Jian, will plan for speakers invitation and china exchange program. Sarah will bring a to-do list for discussion in next AOC meeting.

Jian moved and Mi seconded, all in favor. Meeting adjourned on 10:00 pm EDT.

SAC Board Members

			
<p>XIANG, LIRONG Iowa State University SAC CHAIR</p>	<p>YU, DAJUN Virginia Tech SAC VICE CHAIR</p>	<p>LI, JIATING University of Nebraska- Lincoln SAC VICE CHAIR</p>	<p>WANG, YUCHUAN University of Illinois at Urbana-Champaign ACTIVITY DIRECTOR</p>
			
<p>LIU, CAN University of Kentucky SECRETARY</p>	<p>CHEN, CHANG University of California, Davis MEMBER-AT-LARGE</p>	<p>MA, ZHIHONG Zhejiang University MEMBER-AT-LARGE</p>	<p>WAN, LIANG Zhejiang University MEMBER-AT-LARGE</p>
			
<p>WANG, LIN University of Nebraska- Lincoln MEMBER-AT-LARGE</p>	<p>ZHAO, BIQUAN University of Nebraska- Lincoln MEMBER-AT-LARGE</p>	<p>GUO, YANGYANG University of Georgia MEMBER-AT-LARGE</p>	



## SAC Student Activities

### SAC meeting minutes

会议时间：12月18日美国东部时间（EST）晚上9点

会议主持人：项丽蓉

会议参加人：赵必权，陈畅，王林，项丽蓉，于大钧，李佳婷，刘灿，万亮，麻志宏，王昱川

会议记录人：王昱川

会议内容：

#### 1. SAC Board 成员更新

首先，欢迎新成员赵必权，陈畅和王林的加入。现在的其他成员有：项丽蓉，于大钧，李佳婷，刘灿，万亮，麻志宏和王昱川。成员们首先进行了自我介绍和交流。

#### 2. 工作总结

成员们其次总结了今年进行的各项工作。包括newsletter的编辑，网站更新，年会辅助，邮箱维护和师生交流。值得一提的是，由刘灿、于大均、万亮、麻志宏、李佳婷负责的newsletter编辑工作取得不错反响。感谢所有辛勤付出的成员和学者们！

#### 3. 工作计划

根据网站公告，2021年的ASABE年会将在7月11日至7月14日举行，目前暂定为线上会议。对此，AOC SAC的活动也会做出相应调整。今年也将是AOC活动进行的第20周年。以下是目前的安排：

师生交流（Mentor-Mentee program）由王昱川、麻志宏和万亮负责。计划在3月份组织两次线上的讲座活动。

会议期间的相关活动，例如协助组织线上会议，将由于大钧，刘灿，和陈畅负责。AOC 20周年的活动由李佳婷和项丽蓉负责。因为2021年的ASABE会议改成virtual，负责会议期间活动的同学的工作安排会有调整，具体工作将在下一次AOC Board Meeting讨论后确定。

有关纳新、线上分享等活动的相关信息会在网站和微信公众号发布。赵必权同学继续负责网站更新和维护。王林同学负责微信公众号的运营。

关于newsletter的编辑，李佳婷、麻志宏、万亮、项丽蓉接手newsletter编辑工作，刘灿、于大均等有经验的同学接下来更多的是辅助和指导相关工作。

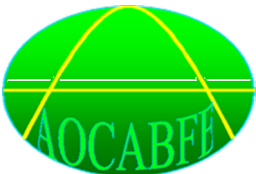
#### 4. 会议的最后，刘灿和陈畅对SAC今后的发展给出了建议。

欢迎大家继续关注并参与我们，2021年SAC也将努力为国内外的学者提供更多的信息与相互交流的机会。

### SAC recruitment

AOC SAC is a student association within the large family of AOC, aiming to help the Chinese students around the world in ABE field connect to better research re-sources. As a great opportunity to broaden your vision, enhance connections, and gain social networking experience, serving in AOC SAC board provides you a more prepared future in the ABE field. The AOC SAC and the board distribute recruiting forms and information during ASABE meeting each year. Moreover, feel free to email any AOC SAC board member if you are interested in joining us.

AOC 学生协会（SAC）是隶属于AOC协会大家庭下的一个自发组成的学生组织。该组织致力于为海内外农业生物工程的中国学生提供接触更多更好的学术资源的机会。作为一个可以进一步拓宽视野，加强联系并且获得更多社交经验的机会，加入AOC SAC的主席团将是您为未来行业发展做准备的不二选择。AOC SAC及主席团将会于每年ASABE年会上分发入会信息和入会申请。除此以外，您同样可以发送电子邮件给任何主席团成员来获得相关的资料。



## SAC Student Activities

### 生物工程大类留学北美申请简介及形势分析

3月10日美中时间8点晚的线上讲座演讲人为**Ce Yang**老师，演讲主题为：生物工程大类留学北美申请简介及形势分析。这次讲座涉及了美国的生物工程大类专业申请的导航。

演讲时长1小时。简而言之，因为COVID的原因，很多美国大学生物工程相关的硕博项目申请者大幅度减少，很多课题组招不到学生。所以，相关的一些要求可能会放低一些。比如GRE，有的学校已经开始不需要GRE的成绩。托福成绩和GPA的要求可能也会酌情降低。

同时，推荐人的推荐信和自己的个人介绍（statement of purpose）是不可缺少的。请熟悉而且有知名度的推荐人写是最佳的选择。在写个人介绍时，要讲好自己的故事，精炼语言，反复修改。在申请学校前，推荐事先浏览相关专业里的教授和实验方向，并可以在学校的网站上查找到最近是否有项目资金。如果在申请前和教授沟通好，对录取的帮助很大。



**Dr. Ce Yang, Assistant Professor  
Department of Department of Bioproducts and Biosystems Engineering, University of Minnesota**

### 科技论文讲座English Writing Skills for Scientific Publications

3月17日美中时间8点晚的线上讲座演讲人为**Jun Zhu**教授，演讲主题为：English writing skills for scientific publications。Dr. Zhu拥有在美三十年的教学和生活经验，并担任多个国际期刊编辑。讲座涉及了英文写作中常见的错误以及纠正，演讲时长2小时，中外共有4500余人通过zoom和中国知网在线观看。Dr. Zhu的讲座的主要内容包括：

关于文章写作常见文法错误，摘要如下：

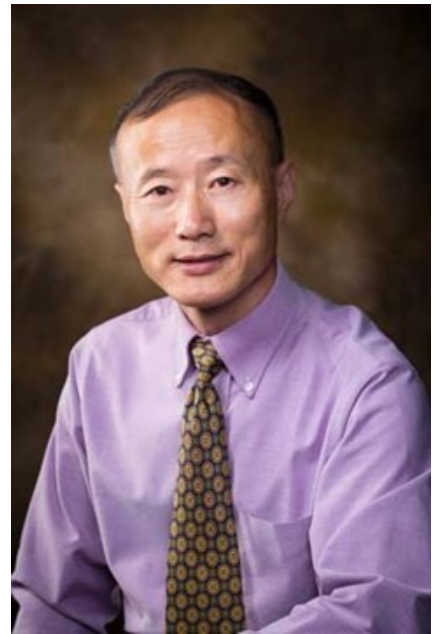
1. 中心句，引用和总结局的作用。
2. 内容要紧扣主题，不要突然改变描述的对象；不要乱用 “It”。
3. 不要使用大量长句和短句。
4. 合并相关的句子，不要将它们分散在句子或者段落的四处。Ex：Access this with that as nutrient supplement -> Access this as nutrient supplement, with that。这里 “as” 应该跟着被修饰的词。
5. 作比较时，比较的对象要同类别。Ex：Evaluate nutrient uptake rates in comparison to the conventional system -> Evaluate nutrient uptake rates in comparison to that of the conventional system。
6. 注意单复数。注意贯词用法，不要漏掉 “the”。
7. 尽量用介词来将复杂的句子简化（for/with/in/over）。

关于文章写作思路，摘要如下：

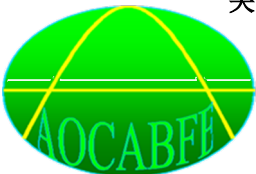
1. 可以先写 “Material and method” 部分，从自己的数据着手。之后依次写好 “Conclusion”，“Introduction” 和 “Abstract”。写Conclusion的时候，不要再重复实验目的和方法，不要加引用和猜测。
2. 当叙述一张图的时候，不要进行笼统的概括，而是需要细分并讨论各个情况，不要漏掉信息。

此外，Dr. Zhu还介绍了一些口语中的常用语，和论文的审稿过程。

关于讲座的录像和相关信息参见 <https://k.cnki.net/mobile/CInfo/Index/13639>



**Dr. Jun Zhu, Professor  
Department of Biological and Agricultural Engineering,  
University of Arkansas**





## 喜讯：Dr. Juming Tang 当选美国工程院院士

2021年2月9日美国国家工程院 (U. S. National Academy of Engineering) 增选了104名院士和24名外籍院士。AOC前主席、美国华盛顿州立大学 (Washington State University-WSU) 生物系统工程系系主任 (2016-2020)、杰出教授Dr. Juming Tang当选为美国工程院院士 “for invention and commercialization of electromagnetic spectrum wave-based food processes”。此荣誉是美国工程研究领域最高成就。Dr. Tang是AOC创始人之一，曾担任AOC 主席 (2004-2005)，其当选是AOC自2001年成立以来会员首次入选美国工程院、科学院或者医学院。Dr. Tang 目前是华盛顿州立大学 Regents Professor 和Distinguished Chair of Food Engineering。其他重要学术荣誉包括ASABE Fellow, Institute of Food Technologists Fellow, 和 International Microwave Power Institute Fellow.

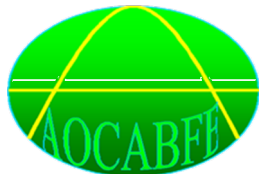


Dr. Juming Tang, 2021美国工程院新晋院士

Dr. Tang 于1995年加入美国华盛顿州立大学，至今已经培养或正在培养46名博士，3名硕士，和超过50名博士后、访问学者或访问教授。Dr. Tang曾获得2018 WSU President’s Distinguished Award for Innovation and Entrepreneurship (the inaugural recipient), 2017 AOC Distinguished Career Award, 2017 Professional Achievement Award of Chinese American Food Society, 2012 ASABE International Food Engineering Award, 以及2004 NASA Faculty Fellow 等多项国际或者国内大奖。截止目前，Dr. Tang以PI身份承担的课题总量已超过2800万美元，以Co-PI身份承担课题超过1800万美元。此外，Dr. Tang已发表390篇 peer reviewed papers 并获得 11 项美国或者国际可商业化授权专利。

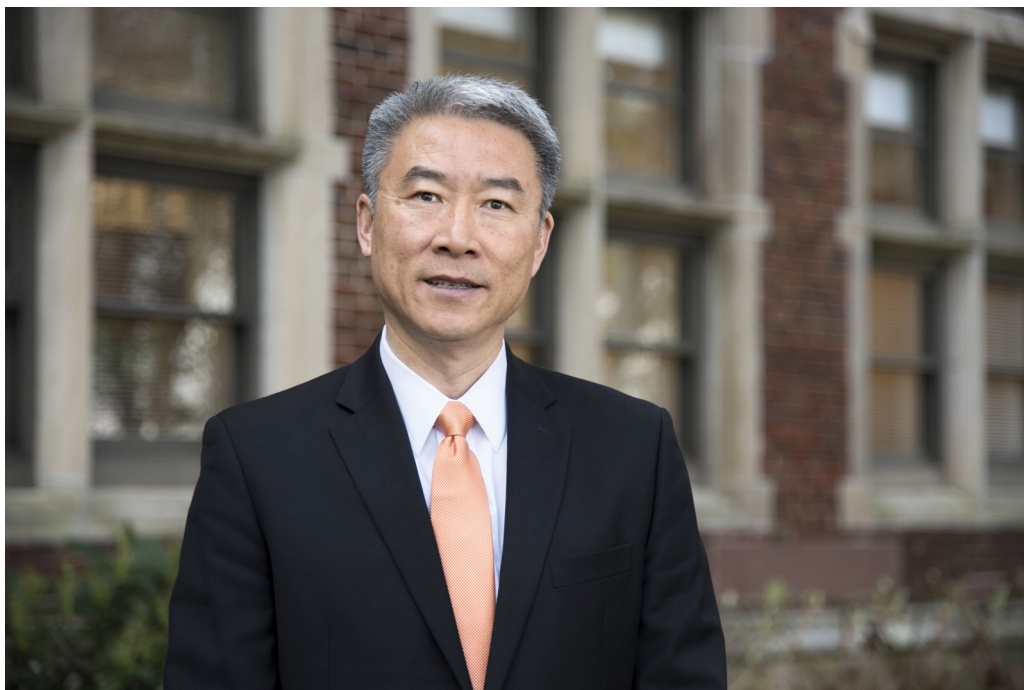
关于Dr. Tang 的更多信息可访问：

<https://bsyse.wsu.edu/people/faculty/tang/>



**Dr. Hongwei Xin was honored as the Fellow of Food Systems Leadership Institute**

Dr. Hongwei Xin, Dean and Director of AgResearch at the University of Tennessee, was honored among a cohort of twenty-five Fellows of the Food Systems Leadership Institute (FSLI) for 2020. The FSLI program is operated by the U.S. Association of Public and Land-grant Universities.



**Dr. Hongwei Xin, Dean and Director of AgResearch  
The University of Tennessee**

Dr. Xin is Dean and Director of UT AgResearch since 2019. He is responsible for the research programs of some 130 agricultural and natural resource faculty in eight academic departments. In addition, he oversees the management of our ten research facilities in strategic locations across the state. Previously, Dr. Xin served as assistant dean for research in the College of Agriculture and Life Sciences at Iowa State University. In addition, he was the inaugural director of the Egg Industry Center (2008-2019), interim director of the Iowa Nutrient Research Center, and a Charles F. Curtiss Distinguished Professor in the Departments of Agricultural and Biosystems Engineering and Animal Science. Dr. Xin has received many national or international awards/honors: ASAE Educational Blue Ribbon Award (1995), New Holland Young Researcher Award of ASAE/ASABE (2001), ASABE Fellow (2008), President’s Citation Award of ASABE (2009), USPOULTRY 2014 Workhorse of the Year Award (2014), Henry Giese Structures and Environment Award of ASABE (2016), Distinguished Career Award of AOC (2016), Cyrus Hall McCormick-Jerome Increase Case Gold Medal Award of ASABE (2018), and Lalit and Aruna Verma Award for Excellence in Global Engagement of ASABE (2020), etc.

**Dr. Ying Chen was named as President-Elect for Canadian Society for Bioengineering (CSBE)**

In the annual meeting of the Canadian Society for Bioengineering (CSBE), a long-term AOC member, Professor Ying Chen from the University of Manitoba, was named as the President-Elect. Dr. Chen would be the first female Chinese serving as the President of CSBE in 2021.



**Dr. Ying Chen, Professor**  
**Department of Biosystems Engineering**  
**University of Manitoba**

Dr. Chen received her M.Sc degree from the China Agricultural University (formerly known as the Beijing Institute of Agricultural Mechanization) in 1984 and completed her Ph.D in 1993 at McGill University, Canada. During 1994-1996, she was a Post-Doctoral Fellow at Laval University in Canada. Since 1997, she has been working in the Department of Biosystems Engineering at the University of Manitoba, Canada, where she holds a Professor position. She is a professional Engineer. Her main research areas include agricultural machinery, conservation agriculture, soil dynamics, soil-machine interactions, and discrete element modeling (DEM). Her research team is at the forefront of DEM simulations of soil-machine-plant systems in the world. In 2017, she was elected as a Fellow of the Canadian Society of Bioengineering. Professor Chen has served a number of professional organizations. Currently, she is the President-elect of the Canadian Society of Bioengineering.

华南农业大学罗锡文院士、浙江大学应义斌教授、何勇教授  
当选国际农业与生物系统工程科学院 Fellow

国际农业与生物系统工程科学院（International Academy of Agricultural and Biosystems Engineering, iAABE）发布2020年度新晋选iAABE Fellows名单，华南农业大学罗锡文院士、浙江大学生物系统工程与食品科学学院应义斌教授、何勇教授当选。

罗锡文院士是我国著名的农业机械化工程专家，长期从事水稻生产机械化和农业机械与装备机电一体化技术研究。首创同步开沟起垄施肥水稻精量穴播技术体系，创新研制成功水稻精量穴播机和水田激光平地机；突破了农业机械导航与自动作业系统关键技术，在国内首次研制成功无人驾驶拖拉机、水稻种植机械和棉花播种机械。应义斌教授和何勇教授分别因在农业传感技术与智能装备（for contributions and leadership in advancing agricultural sensing technology and equipment）和精细农业（distinguished leading expert in precision agriculture）方向上的杰出贡献而获此殊荣。



罗锡文 院士



应义斌 教授



何勇 教授

国际农业与生物系统工程科学院（International Academy of Agricultural and Biosystems Engineering, iAABE），是孙大文院士担任国际农业与生物系统工程委员会（International Commission of Agricultural and Biosystems Engineering, CIGR）主席期间倡导和发起成立的研究机构，iAABE Fellows增选每两年举行一次，由现有Fellows提名并由全体Fellows投票决定。

## Dr. Jian Jin's work won the 'Davidson Prize' for Ag Innovations

Milwaukee, WI (March 2, 2021) - The Association of Equipment Manufacturers (AEM) and the American Society of Agricultural and Biological Engineers (ASABE) presented the fourth annual Davidson Prize to the top three innovative products, selected from the AE50 honorees on March 2 during the virtual special-edition of Commodity Classic.

Winning entries included:

Purdue University / LeafSpec, LLC for the LeafSpec a portable hyperspectral corn leaf imager (Dr. Jian Jin's product).

Haber Technologies, Inc for the DRI-Stack a grain drying and aeration system.

AGCO Corporation for the 9350 DynaFlex® Draper Header with AutoDock™ a 50-foot flexible header with automatic system for attaching all mechanical, electrical and hydraulic connections of the header to the Fendt IDEAL combine.

“These three products deliver on solutions that truly represent the spirit of J.B. Davidson and the innovative legacy of agriculture,” said Curt Blades, senior vice president of Agriculture for AEM. “I continue to be amazed about the advancement of ag engineering and the positive impacts it continues to have on farmers’ ability to work more efficiently.”

The Davidson Prize was designed to celebrate breakthrough innovations in areas of agricultural, food and biological systems engineering.

“ASABE and AEM came together to create a new award to celebrate innovation in agriculture and bring additional recognition to those who embody the spirit of J.B. Davidson,” said Darrin Drollinger, executive director at ASABE. “The products named as 2021 winners of the Davidson Prize continue to represent the diversity of agricultural engineering, as well as the variety of companies that bring advanced technology and exciting improvements to the marketplace.

“I believe J.B. Davidson would be amazed at how advanced farm equipment has become,” continued Drollinger.

The Davidson Prize is named for J.B. Davidson, the father of modern agricultural engineering. It gives a nod to the storied past of agricultural engineering and pays homage to those engineers, like J.B. Davidson, who aspire to find a better way. Winners were selected from the AE50 honorees, announced at the Agricultural Equipment Technology Conference in February.

About the Association of Equipment Manufacturers - AEM is the Milwaukee-based international trade group representing the off-road equipment manufacturing industry, with more than 950 companies and more than 200 product lines in the agriculture and construction-related sectors worldwide.

About the American Society of Agricultural and Biological Engineers - ASABE is an international scientific and educational organization dedicated to the advancement of engineering applicable to agricultural, food, and biological systems.



Dr. Jian Jin, Assistant Professor, Agricultural & Biological Engineering, Purdue University

## 2020智慧畜牧业亚洲论坛在京开幕

2020年10月20日，由中国农业工程学会、中国农业大学和动物环境与福利国际研究中心主办，农业农村部设施农业工程重点实验室、重庆市畜牧科学院联合承办的2020智慧畜牧业亚洲论坛在中国农业大学国际会议中心开幕。中国工程院院士、中国农业大学教授汪懋华，中国农业大学副校长龚元石，中国农业工程学会常务副理事长兼秘书长朱明，动物环境与福利化养殖国际研究中心主任、中国农业大学教授李保明等领导嘉宾出席了开幕式并致辞。



本届论坛主题为“数字技术支撑畜禽养殖信息化”，来自国内外的200余名科研人员、管理专家、产业界代表围绕畜禽养殖过程无线感知与数字化、畜禽养殖空间环境模拟与监测、畜禽养殖远程采集与大数据系统、畜禽养殖过程数学模型与数值模拟等方面的技术和应用实践等主题进行专题解读、研讨和交流，共设4个主旨报告、7个大会报告和29个分会报告及墙报交流，旨在推动畜牧产业转型升级与高质量发展，引导智能畜牧提高产业效能，增进智能畜牧跨界交流合作。

动物环境与福利化养殖国际研究中心 (International Research Center for Animal Environment and Welfare, IRCAEW) 成立于2011年，由中国农业大学农业农村部设施农业工程重点实验室学科群主任李保明教授和美国田纳西大学农业研究院院长Hongwei Xin教授分别担任中方和外方主任。

## 第十八届中国农业机械学会2020学术年会在宁波隆重举行

“第十八届中国农业机械学会2020学术年会”于2020年12月12~14日在浙江宁波隆重举行。来自国内农业装备行业的高等院校、科研院所、行业企业、管理与推广应用等单位1000余位科技工作者出席大会。中国工程院院士、中国农业机械学会名誉理事长罗锡文、陈学庚，中国科学院院士、中国农业机械学会名誉理事长闫楚良，中国工程院院士、中国农业机械学会副理事长赵春江，国际农业与生物系统工程学会前任主席、中国农业机械学会名誉理事长陈志，中国农业机械学会理事长等领导、嘉宾出席会议。



中国农业机械学会党委书记、理事长王博主持大会开幕式。中国农业机械学会名誉理事长罗锡文院士致开幕词，他代表主办方向全体参会者表示欢迎，并希望广大农业机械领域科技工作者不断拓展科技创新的深度广度，以创新驱动为引擎加快突破农业机械关键核心技术，共同谱写我国农业机械化事业新篇章。中国农业机械学会名誉理事长汪懋华院士通过视频讲话回顾了我国农业机械领域“十三五”发展情况并提出了“十四五”发展的重点建议及发展方向。



## 国家精准农业航空施药技术国际联合研究中心举办2020年度总结暨表彰大会

2020年12月26日, 国家精准农业航空施药技术国际联合研究中心2020年度总结暨表彰大会在华南农业大学举行。应国家精准农业航空中心主任和首席科学家兰玉彬教授的邀请, 广东省农业农村厅二级巡视员丘小华, 广东省农业农村厅农机处陈楚凯处长, 植保植检处温锦君副处长, 原农业部党组成员、人事劳动司司长毕美家, 中国国际科学技术协会会长姚为克, 科技部国家外国专家局原司长胡新渝, 深圳市无人机行业协会会长杨金才, 安阳工学院校长景国勋教授, 北京大学农学院院长刘春明教授, 农业农村部南京农业机械化研究所植保与环境工程技术中心主任薛新宇研究员, 农业农村部规划设计研究院农业工程科技信息中心主任王应宽研究员, 中国蔬菜协会秘书长柴立平, 东北农业大学电气与信息学院院长苏中滨教授, 安阳全丰董事长、总经理王志国, 京东X事业部农业发展部总经理乔志伟, 江苏克胜集团股份有限公司总经理吴成伟, 北京韦加智能科技有限公司总裁吴庆广, 山东瑞达有害生物防空有限公司董事长谢春春, 南京善思生态科技有限公司首席科学家张子勇教授, 广州极飞科技有限公司总裁办政府事务总监刘丹萍, 大疆农业市场总监樊文泽, 长春三合通科技有限责任公司副总经理张春林, 青岛吾牛智能科技有限公司首席执行官尹本强, 南京拓攻机器人有限公司营销副总经理张逸群, 山东福莱特无人机制造有限公司董事长周斌, 新疆生产建设兵团第八师科技局二级调研员戚亮等几十位航空植保领域领导、专家、企业家优秀代表及中心师生共200余人齐聚华南农业大学红满堂, 开展农业航空领域学术交流, 进一步提升精准农业航空的研究与应用水平, 推进智慧农业发展。



华南农业大学“国家精准农业航空施药技术国际联合研究中心”是中国国家科技部认定的国家级研究中心, 中心主要针对国内典型粮食作物、经济作物的航空植保施药, 联合美国农业部农业研究服务署航空应用技术中心(USDA-ARS-AATRU)、澳大利亚昆士兰大学(University of Queensland)农药应用和安全中心等国外先进的农业航空应用技术研究机构, 围绕精准农业航空, 共同开展农业航空遥感、航空精准变量喷雾等相关技术及装备的创新研究关键技术和共性问题、推广精准农业航空技术。中心主任为AOC前主席、欧洲科学院院士、华南农业大学兰玉彬教授。



## 赵春江院士主持完成的成果入选“2020世界智能制造十大科技进展”

2020年11月25日至27日，2020世界智能制造大会在江苏省南京市举行，大会由江苏省人民政府、工业和信息化部、中国工程院、中国科学技术协会共同主办。本届大会以“智能制造引领高质量发展”为主题，汇聚世界智能制造领先企业、权威机构、卓越领袖与前沿专家，共同关注和探讨当前全球疫情形势下智能制造发展趋势和热点话题。在11月26日举行的2020世界智能制造大会开幕式上，国际智能制造联盟和中国科协智能制造学会联合体联合发布了“2020世界智能制造十大科技进展”和“2020中国智能制造十大科技进展”。由国家农业信息化工程技术研究中心主任 赵春江院士主持完成的“基于北斗的农机自动驾驶与作业精准测控关键技术”，通过中国农业机械学会推荐，经过联合体成员学会和国际智能制造联盟学术委员会的推荐、遴选最终入选“2020世界智能制造十大科技进展”。该成果是“世界智能制造十大科技进展”评选创办以来首个入选的农机领域的成果。该成果是赵春江院士及团队成员多年攻关和应用实践的结果，成果突破了农机北斗自动驾驶、全程机械化作业智能监测和作业大数据云服务等关键技术，创制具有自主知识产权的电液、电机转向两类农机北斗自动驾驶产品，显著提升农机作业质量和效率，降低作业成本。创制了13种智能监测终端，构建了全程机械化作业云服务平台，在国内率先实现了业务化运行，服务作业面积1.1亿亩，为国家农机作业补贴政策规范高效实施和农机作业智能化管理服务提供了有效的技术支撑。



## 《国际农业与生物工程学报》(IJABE)最新影响因子1.731，并入选2020年中科院高质量期刊分区表二区

(IJABE主编王应宽博士供稿)



International Journal of Agricultural and Biological Engineering

SCI JIF (2019) = 1.731  
SCI JIF (2018) = 1.349  
SCI JIF (2017) = 1.267  
SCI JIF (2015) = 1.007



IJABE是基于开放存取经同行评审的国际英文刊，旨在提供一个报道农业、生物与食品工程领域最新高质量研究成果的平台。IJABE自2013年第1期开始被SCI收录，2015年获得首个影响因子即突破1，近3年持续增长，最新影响因子达到1.731（JCR2019），在全球被SCI收录的13种农业工程类期刊中排名第六，在影响因子百分位中位于农业工程学科期刊中第2区（25%~50%）；《2020年中国科学院文献情报中心期刊分区表》显示IJABE位于农林科学学科期刊二区（6%~20%），三年平均影响因子1.449。

公众号: IJABE国际农业与生物工程学报    官网: <http://www.ijabe.org>    邮箱: [ijabe@sina.com](mailto:ijabe@sina.com)

《国际农业与生物工程学报》(IJABE)是一本中美合作的国际英文期刊，系理论联系实际采用开放存取模式创办于2008年，由中国农业工程学会和海外华人农业、生物与食品工程师协会(AOC)共同主办，同时出版印刷版和网络版，由国际编委会参与同行评审和指导办刊。IJABE旨在提供一个报道农业、生物与食品工程领域最新高质量研究成果的平台，主要刊登农业与生物工程领域的研究论文、综述等，致力于促进学术交流，提升国际合作。IJABE通过开放存取模式，提供全文即时开放，使科学信息自由化，成为全人类共享的公共资源，有利于学术传播和科技知识普及，消除信息不平等和“数字鸿沟”，加速科技创新和成果转化利用，使研究成果的效益最大化，推动科技进步。

IJABE从2013年第1期开始被SCI收录，2015年获得首个影响因子即突破1，近3年持续增长（图1），最新影响因子达到1.731（JCR2019），在全球被SCI收录的13种农业工程类期刊中排名第六，在影响因子百分位中位于农业工程学科期刊中第2区（25%~50%）；《2020年中国科学院文献情报中心期刊分区表》显示IJABE位于农林科学学科期刊二区（6%~20%）（图2），三年平均影响因子1.449。为中国农业工程科研成果的发表和国际交流打造了高效的新平台，有利于研究成果的快速出版和广泛共享。截至2020年6月底，IJABE已被SCI等三十余个国际知名的检索系统和网络平台收录。

## 2021 Chinese New Year Greeting with highlights from IJABE

The 2020 Journal Grade Table of the National Science Library, Chinese Academy of Sciences was officially published on December 17, 2020. The International Journal of Agricultural and Biological Engineering (IJABE) has been listed in Grade 2 of the 2020 Grade Table of global high-quality journals indexed by JCR edited by Chinese Academy of Sciences. According to the 2020 Journal Grade Table based on the “Chinese SCI Journal Evaluation Scheme” and Web of Science’s Impact Factor (IF) to evaluate journals proposed by Garfield in 1972, edited by National Science Library, Chinese Academy of Sciences, the three-year average Impact Factor (IF) of IJABE reaches 1.449. IJABE’s three-year average IF reaches 1.449, ranking in Grade 2 (top 6%-20%) of the category of Agricultural and Forestry Sciences Journals. The quality and impact are often highly recognized when the journal is listed in Grade 2 because it locates in the top 20% of the same category of journals indexed by SCI in the globe. The Journal Grade Table is a scientific research achievement conducted by the National Science Library, Chinese Academy of Sciences since 2004.

In 2020, IJABE Editorial Office led by Dr. Prof. Wang Yingkuan, Editor-in-Chief of IJABE and Executive Secretary General of CSAE, worked hard to win the fight against COVID-19 to stay healthy and safe, published six issues with 182 high-quality papers at the acceptance rate of 28%. All the IJABE papers published in 2020 have been indexed and abstracted by Web of Science Core Collection and the other famous indexing databases in a timely manner. The total number of DOI resolutions of IJABE papers in the past 12 months from January of 2020 to January of 2021 reached 31215, with increasing international resolution. One of the encouraging highlights lies in the WeChat Official Account of IJABE has been started in March 2020. Up to date, 33 items including abstracts in Chinese of IJABE papers either translated by editorial office or provided by authors were published IJABE WeChat. IJABE WeChat also published the 2020 IJABE Table of Contents in Chinese, conference news and other related messages. We are pleased to have about 900 WeChat users of IJABE. We hope WeChat Official Account of IJABE will serve as a more timely and efficient platform for scholarly exchange and cooperation.

IJABE has been indexed and abstracted by Web of Science Core Collection since 2013. In 2015, IJABE received the first Journal Impact Factor (JIF) of 1.007. In recent 3 years, the JIF of IJABE increased continuously. According to the 2020 update of the Journal Citation Reports® (JCR2019) released by Clarivate Analytics on June 29, 2020, the latest impact factor of IJABE is 1.731. Based on the JIF values, IJABE ranks the 6th out of 13 SCI-indexed journals in the category of agricultural engineering in the globe, locating in Quartile 2 (Q2). Welcome to publish with IJABE!

On this new year, I sincerely wish you happiness, cheerfulness, and success in the upcoming year 2021. I wish you a healthy, wealthy and prosperous Year of the OX. Happy Chinese Lunar New Year! I hope that good fortune follows you wherever you go.

Editor-in-Chief: Dr. Prof. Wang Yingkuan

Sponsored by Chinese Society of Agricultural Engineering (CSAE),

Supported by Academy of Agricultural Planning and Engineering (AAPE),

Ministry of Agriculture and Rural Affairs, PRC

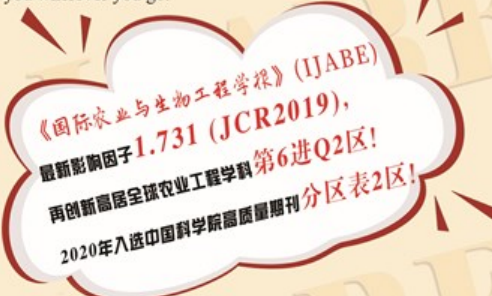
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Q4

Q3

Q2

Q1



## 《农业工程学报》最新影响因子2.116，首次突破2.0，连续多次获多项奖和荣誉 (农业工程学报主编王应宽博士供稿)



《农业工程学报》创刊于1985年，是由中国科学技术协会主管、中国农业工程学会主办的全国性专业学术期刊。系中文核心期刊，被EI光盘版等多家国内外权威或著名检索机构收录，作者分布覆盖全国85%地区，也有国外学者的成果报道，国内外公开发行，为双月刊。读者对象包括农业工程学科及相关领域的科研、教学及生产科技人员、技术管理及推广人员和院校师生。主要刊登农业工程学科领域的应用技术基础研究、农业装备工程与机械化、农业航空工程、农业水土工程、农业信息与电气技术、农业生物环境与能源工程、土地保障与生态安全、农产品加工工程等方面的学术论文，综述及专家论坛、以及实用技术研究及生产实践运用成果报告。

截至目前，本刊相继被《中文核心期刊要目总览》、《中国科技核心期刊目录》、EI Compendex（核心版）、Scopus、CA、CSA、CAB Abstracts、CSCD等权威数据库收录。本刊为2015年国家新闻出版广电总局“百强报刊”，2020年入选“中国科协农林领域高质量科技期刊分级目录”T1级期刊，连续11次被评为“百种中国杰出学术期刊”，连续5次被评为“中国精品科技期刊”，连续8次蝉联TOP5%“中国最具国际影响力学术期刊”，连续6次被评为“RCCSE中国权威学术期刊（A+）”，连续12年被工程索引（EI Compendex）收录，连续3次入选“科技期刊数字影响力100强”等。2020年本刊继续获得中国科协等七部委联合实施的“中国科技期刊卓越行动计划”项目的支持。2020年本刊影响因子2.116，首次突破2.0，同学科排名第一，国际影响力指数在入选“2020中国最具国际影响力学术期刊”的农业类中文期刊中名列第一；据2020年世界期刊影响力指数（WJCI）报告显示，本刊在22种中英文农业工程学术期刊中排名位列第三，连续3年进入Q1区。

本刊坚持“双百”方针、“双为”方向的办刊宗旨，始终坚持把社会效益放在首位、实现社会效益与经济效益相统一。以质量为本，内容为王，刊载具创新性的高水平学术成果，立足“三个面向”的战略方向，发展农业工程学科，繁荣农业工程学术，搭建国内外农业工程学术交流平台，培养农业工程科技人才，为我国农业农村经济建设和农业农村高质量发展服务，为推动我国农业农村现代化和乡村振兴服务。

## AOC New Faculty Interview—Dr. Mi Li

Dr. Mi Li is an Assistant Professor in the Department of Forestry, Wildlife and Fisheries at the University of Tennessee, Knoxville. Dr. Li has a mix of educational backgrounds in chemical engineering and wood chemistry. He has been dedicated to the conversion of lignocellulosic materials into bioenergy, biofuels, and byproducts for more than 10 years. He is currently interested in developing high-value products and high-performance materials from renewable forestry and agricultural resources. His research highlights convergent programs using interdisciplinary pieces of knowledge in lignocellulose chemistry, chemical synthesis, chemical engineering, polymer science, and nanotechnology for green chemistry, circular carbon economy, and a clean environment. Research focus (1) Novel and green biomass fractionation; (2) Synthesis of bio-derived polymers, and copolymers; (3) Bio-derived smart materials; (4) Nanotechnology and catalytic biorefinery.



### **What's your educational background and professional experience?**

I received my B.S. and M.S. degree in Chemical Engineering from Northeast Forestry University in 2004 and 2009, respectively. I obtained my Ph.D. in Wood Science from Auburn University in 2014. After that, I did my postdoctoral research at Oak Ridge National Laboratory and the University of Tennessee until 2019. I became an Assistant Professor at the Center for Renewable Carbon, Department of Forestry, Wildlife, and Fisheries at the University of Tennessee in 2020. I have also worked at Northeast Forestry University from 2004 to 2010.

### **What inspired you to study abroad and what brought you to the current field?**

I was growing up in a small town centering on traditional agriculture. I enjoyed my interaction with mother nature and Chinese traditional agriculture during my childhood. The desire to learn more about nature, better utilize natural resources, and advance agricultural technologies are rooted in my heart from the beginning of my school time. The U.S. has the most developed agricultural and forestry system in the world. Therefore, I decided to study abroad for more advanced technologies.

### **Could you talk about some interesting facts about your research or daily life?**

I am an early bird. I usually get up at 5 am and start working for the day. The quiet early morning and fresh mind allow me to work in very high efficiency. The administrative work can be completed in an hour or two. One funny thing is about writing a proposal with a colleague in California 3 h behind my time zone. Once we were trying to catch a deadline within 1 week. I worked from 5 to 10 am and sent it back to him. He was then able to see the updated version at the first minute when he woke up, and he can start working on that version for his 4 to 5 h. By doing this way, we have made 8 h concentrated work each person with 2 turnarounds in one day. It is one of my craziest but super effective time! I am a father of two—8-years-old daughter and a 5-years-old son. I love biking, tubing, and fishing with my family during the weekend.

## **AOC New Faculty Interview—Dr. Mi Li (continue)**

### **What is the biggest challenge you have faced in your profession?**

Currently, the biggest challenge to me is to recruit graduate students. Due to the COVID-19 pandemic, recruiting highly qualified international graduate students becomes unrealistic. The two students who are going to join my group have already been deferred and delayed to their enrollment for a whole year. I must work a lot of time in my lab to make my project move forward. Meanwhile, I need to mentor undergrad students, develop programs, write manuscripts, pursue grants, service, and outreach. I hope the impact of COVID-19 on my life and research as well as on everyone will be reduced sooner than later.

### **How do you like the teaching/research/service?**

My current appointment is 100% research position, meaning it does not have a teaching or service component. However, I strongly believe that teaching, research, and service must be integrated into a faculty's professorship. I have mentored ~20 undergrads and 2-4 graduate students in the past. I enjoy the interaction and engagement with students. So I fulfill the teaching role of my professorship primarily by mentoring undergrads for their summer internship and by supervising graduate students for their dissertation. I believe the most important output for a professor is to develop a high-tier future workforce. The establishment of world-class research programs is one of the most crucial approaches to develop high-skill future workers. Service, to the academia and to the public, is another significant part of my career, for example, journal review, delivering seminars, serving as the committee, outreach to K-12 students, and volunteer judges. Given my current appointment, I would like to manage my teaching/research/service to a balance of 20/70/10.

### **Could you provide some suggestions to oversee Chinese students/postdoc who are looking for a faculty position?**

Take action sooner than later. Try to reach out to a few faculty consulting about what does faculty's life look like? What are the knowledge, experience, and qualities expected? What are the typical requirements for tenure? What can be improved to your CV? This is an effective way to gauge the gap between your current qualification and future faculty position. Additionally, take advantage of the faculty programs in a conference to meet and chat with your future department head.



## AOC Instructions for Submitting Fellow Nominations

### ◆ Characteristics of a Fellow

“A **Fellow** of the Society is an honor conferred for exceptional achievement by a Member of the Association in any one or more of the following areas - research, technology development, technology transfer, teaching, extension, consultancy, senior administration and communication, which advance the profession of agricultural, food, or biological engineering in its broad application and a minimum of 10 years as a Member in AOCABFE.”

### ◆ Elements of Nomination

Qualifications for Fellow are described in the Bylaws and Rules of AOCABFE, Article B5, Qualifications for Admission, Paragraph 3 (see <http://www.aoc-web.org/constitution.html>).

To nominate an AOCABFE Member for the Grade of Fellow, the nominator shall provide AOCABFE executive board with the following documents by **May 1st, 2021**.

- a. Nomination Form: Please use the attached Nomination Form. The maximum length of the completed Nomination Form is four pages (10 pt. or larger font).
- b. Five letters of support. Please follow the instructions described on the next page.

The Nomination Form and letters of support are to be converted into PDF files and submitted to AOCABFE executive board through email to the attention of Dr. Yufeng Ge – [yge2@unl.edu](mailto:yge2@unl.edu). Please use “AOCABFE Fellow” as subject of the email. The support letters may be sent with the Nomination Form or may be sent separately. The deadline for submitting Nomination Forms and letters of support is May 1st, 2021.

### ◆ Notification of Election

The nominator of the Fellow nominee shall be notified by AOCABFE executive board after the nominee has been recommended by the Fellows Committee and elected to the Grade of Fellow by the AOCABFE executive board. If the nominee is not selected in the first year of consideration, the nominee will be considered by the Fellows Committee for two additional years. AOCABFE executive board will notify individuals elected to Fellow. News releases and publicity will be issued at the time of the Annual Meeting at which time the newly-elected Fellows will be accorded special recognition.

## GRADE OF FELLOW

(Nomination due by May 1st, 2021)

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**AOCABFE: The Association of Overseas Chinese Agricultural Biological Food Engineers**

### NOMINATION FORM

#### PRIVILEGED INFORMATION

Note: This form, along with the 5 letters of support will provide the only information used for the evaluation of your candidate. The form must be completed in a maximum of 4-typewritten pages (10 pt. font or larger). Please convert the completed nomination form into a pdf file for submission.

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- 1 Candidate Name (first name, middle name or initial, last name), Address, Phone Number, E-mail Address and Years of AOCABFE Membership:
- 2 Primary Employment Position and Institution/Company:
- 4 Education (list all degrees earned, dates, major fields, and institutions):
- 5 Areas of Specialization:
- 6 Specific Outstanding Technical and Professional Accomplishments and Contributions Meriting Election to the Grade of Fellow. Examples:
  - Publication of important, original engineering or engineering-related papers, books or inventions
  - Technical direction with evidence of accomplishment of important engineering or engineering-related work
  - Creative contributions to the advancement of the profession
  - Establishment or furtherance of important engineering or engineering-related courses or significant contributions to engineering or engineering-related extension
  - Organizational or technical leadership which has motivated or developed the application of engineering or engineering-related principles

Describe the impact of the work locally, nationally and internationally in areas such as the economy, industry, education or practice.

(Please include dates and limit to a maximum of 600 words)

- 7 Record of Professional Work Experience\_(list principal positions and describe primary responsibilities for each; include dates):
- 8 Contributions of Record

Contributions related to publications: brief description of up to 10 of the most significant published contributions, including books, book chapters, conference proceedings, refereed journal articles, patents, other publications. (list complete title, all authors, source, and date for a maximum of ten (10) publications of most significant impact)



Contributions related to solutions: categorized as appropriate -- i.e., products designed, guides developed, engineering projects completed, standards developed, etc. (give brief description of up to ten (10) most significant contributions)

- 9 Principal Technical Society Membership (including grades) and Activities, and Other Noteworthy Pertinent Accomplishments in Engineering, Technical Editing, Engineering Standards Development and Public Service (boards, committees, consultantships, important offices held and contributions to society):
  
- 10 Professional Recognition (honors, awards, prizes, honorary degrees; give specifics):

**Nominated by:**

\_\_\_\_\_

Name

\_\_\_\_\_

E-mail address

\_\_\_\_\_

Affiliation and telephone number

\_\_\_\_\_

Mailing Address

\_\_\_\_\_

City, State, Zip Code, Country

\_\_\_\_\_

**\*References – List five (5) references. All references must submit individual letters of support.**

1. \_\_\_\_\_

Name                      Work Affiliation

2. \_\_\_\_\_

Name                      Work Affiliation

3. \_\_\_\_\_

Name                      Work Affiliation

4. \_\_\_\_\_

Name                      Work Affiliation

5. \_\_\_\_\_

Name                      Work Affiliation

\* Note: Refer to "Instructions for Submitting Fellow Nomi-

## Call for Nominations

### 2021 AOC Achievement and Service Awards

It is time again to nominate your colleagues who have made outstanding achievement in their professional career and service to our professional society. AOC currently has three awards as listed below. Nominations for the AOC awards should be submitted to Dr. Yufeng Ge – [yge2@unl.edu](mailto:yge2@unl.edu) by June 1, 2021.

#### 1. Early Career Award

**Purpose:** this award is to recognize outstanding career achievement by a young AOC member in the profession of Agricultural, Biological and Food Engineering. The award is to honor achievement through education, research, innovation, development, extension, consulting, administration, international collaboration, and other professional activities.

**Eligibility:** the recipient shall be a member of AOC with good standing and under the age of 45. The recipient shall have made noteworthy contributions of achievement in the areas described above under "Purpose of the Award."

#### 2. Distinguished Career Award

**Purpose:** this award is to recognize distinguished career achievement in the profession of Agricultural, Biological and Food Engineering. The award is to honor achievement through education, research, innovation, development, extension, consulting, administration, international collaboration, and other professional activities.

**Eligibility:** the recipient shall be a member of AOC with good standing. The recipient shall have made noteworthy contributions of achievement in the areas described above under "Purpose of the Award."

#### 3. Outstanding Service Award

**Purpose:** this award is to recognize exceptional services that contribute to, and enhance the mission of the AOC.

**Eligibility:** the recipient shall be a member of AOC with good standing. The recipient shall have made exceptional contributions to organizing AOC conferences, publications and other activities.

### *AOC Graduate Academic Achievement Award*

The AOC Graduate Scholarly Achievement Award recognizes AOC student members who made outstanding scholarly achievements. If you would like to be considered for the AOC Graduate Scholarly Achievement Award, please ask your major professor to nominate you. Check with AOC for the nomination procedure and criteria. The nomination should be sent to Dr. Kai Liu (kailiu@cityu.edu.hk) no later than July 1, 2021. Note that your major professor does not have to be an AOC member, neither does he/she have to be a Chinese! You may submit an entry to the competition or be nominated for an award even if you do not plan to attend the 2021 ASABE AIM.

Candidates' qualifications will be evaluated based on their performance on in-class, research, and outreach activities. The following criteria shall be used to evaluate the candidates:

- Academic performance (current year and the trend over the past years)
- Scholarly activities, including
- Publications (journal articles, fact sheets, software, web pages, etc.)
- Presentations (oral, poster, mass media, etc.)
- Grant proposals
- Invention disclosures
- Participation in professional activities (conferences, professional societies)
- Other scholarly activities

### *AOC Graduate Leadership and Service Award*

The AOC Graduate Leadership and Service Award recognizes an AOC student member who has excelled and demonstrated leadership on the activities of AOC. The winners will receive certificates and cash awards. The deadline for 2021 nomination is July 1, 2021. Of course you must be an AOC student member to become eligible for these awards. You may submit an entry to the competition or be nominated for an award even if you do not plan to attend the 2021 ASABE AIM. The nomination should be sent to Dr. Kai Liu (kailiu@cityu.edu.hk) no later than July 1, 2021.

This award shall be nominated by an AOC member with a nomination letter describing the candidate's leadership and service contributions to AOC and the profession. In addition, the candidate shall prepare a one-page essay on "how can we improve graduate student involvement in advancing the goals of AOC" and a list of three references with detailed contact information.

Candidates' qualifications will be evaluated based on their contributions to advancing the goals of AOC and the profession. The following criteria shall be used to evaluate the candidates:

- Recruitment and promotion for AOC and its programs
- Showing hospitality to and mentoring new AOC student members
- Organizing and making contributions to AOC activities
- Participating in AOC activities
- Providing leadership and service to other professional societies
- Providing leadership and service at the home institution

## Student Research Presentation Competition

### Program description

This is an invitation to submit oral presentation to 2021 AOC Student Research Presentation Competition Program. The winners will receive cash award, and will be recognized at the AOC annual meeting. The number of awardees (either two or three) will depend on the total number of entries. AOC hopes that awardees can benefit from the award for their professional development.

### Eligibility

To be eligible for this program:

Each entry for the competition will be limited to one paper (ASABE conference paper for 2021 Annual International Meeting) per student, and the first author must be an AOC student member.

Each entry is required to include a submitted “Entry Form” signed by a faculty member stating that he/she has approved the presentation.

### Scope

Various topics that include but are not limited to agricultural and biological engineering, food science, and environmental science and engineering. All submitted papers should be accepted by ASABE 2021 annual international meeting.

### Deadline

Send all documents including **entry form** and **shared links for presentation videos (Dropbox etc.)** in one single pdf file to Dr. Ce Yang (ceyang@umn.edu) no later than July 1, 2021. All documents should be written or presented in English.

### Evaluation Process

The length of the presentation is suggested to be 12±0.5 minutes. Presentations after 12.5-minute will not be considered for evaluation. Each presentation will be evaluated by five AOC faculty members using the attached evaluation form. The Judging Criteria includes technical content, methodology, oral presentation, and Power Point appearance. Results will be announced at the AOC banquet.

### \* Produce and Submit Video

Presentation is recommended to be recorded at a suitable environment, such as meeting room, conference room or classroom, with minimum background noise. Both PPT slides and the presenter should be recorded during the presentation. The video can be recorded by using video cameras (cellphone, DSLR, DV). The video format needs to be the common formats (.avi, .wmv, .mpg, etc.). For presentation video submission, you only need to include the shared links that lead to your Dropbox, Google drive, or Skydrive. Evaluators will use the shared links to access your videos. Double check your links before submitting.

## *AOC Student Paper Competition*

The AOC student paper competition recognizes the AOC student members who show excellence in the conduct and presentation of research. If you already submitted a paper to the ASABE Annual International Meeting (AIM) and are interested in participating in the AOC student paper competition, please send your paper and the "entry form" to

Dr. Zhiwu Wang (wzw@vt.edu) no later than **July 1, 2021**. You can find the judging criteria (score sheet) that will be used to evaluate your papers from the same website. The top five winners will receive certificates as well as cash awards. Please note that we only accept papers written for the 2021 ASABE AIM. Therefore, your paper must have a number assigned by ASABE.

# Entry Form

Your submission should contain the following items in a single PDF:  
This form, completed and signed.

**Presentation Topic**

Student Name: (Last, First ) \_\_\_\_\_  
Department \_\_\_\_\_  
University \_\_\_\_\_  
Student E-Mail \_\_\_\_\_  
Street Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Advisor's Name \_\_\_\_\_  
Advisor's E-mail \_\_\_\_\_

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**Student Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

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**Advisor's Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

*This signature certifies that the Advisor approves the submission of this research presentation to the competition.*



## Distinguished Postdoctoral Fellowship at Zhejiang University

ZJU-Hangzhou Global Scientific and Technological Innovation Center in Hangzhou, China, is seeking a postdoctoral researcher to work in the multidisciplinary area on developing emerging smart sensors and imagers for plant phenotyping. The successful candidate will contribute to a high-throughput plant phenotyping system for industrial crop breeding and smart agriculture. The phenotypic data acquired from those advanced sensors will be analyzed and interpreted using radiative transfer inversion models and data-driven methods.

The project is a collaboration between the research groups of Prof. Yang Xu (Supervision Broadband Spectrum Imaging Lab, School of Micro-Nanoelectronics) and Prof. Haiyan Cen (AgroOptics and Imaging Lab, College of Biosystems Engineering and Food Science) at Zhejiang University. The candidate is expected to spend time in both labs as needed. Scientists with experience in micro-nanoelectronics, optical sensors, radiative transfer models, remote sensing, and plant phenotyping are encouraged to apply. A Ph.D. degree in a discipline such as optical engineering, electrical engineering, agricultural engineering or physics is required. The initial appointment is for two years, and may be extended for up to four additional years. Annual salary depends on qualification, starting at 350,000RMB/year, and has a chance to apply for the position of the Hundred Talents Program Fellowship at ZJU after finishing the postdoc fellowship.

The position is available immediately and will remain open until filled. Please send an email with a brief introduction of the research background, curriculum vitae, and contact info for three references to **Prof. Yang Xu** (yangxu-isee@zju.edu.cn) or **Prof. Haiyan Cen** (hycen@zju.edu.cn). Successful candidates will be contacted via email.

Zhejiang University was found in 1897, and is one of the China's most prestigious universities. Check our website for further details <http://www.zju.edu.cn/english/>. We offer competitive fellowships, salaries and benefits for the Postdoctoral position.

### Research Areas:

- Neuromorphic sensing
- Photodetectors & imaging sensors for smart agriculture

### Qualifications:

- Strong ability to conduct high-quality independent research
- Hands-on research experience in one of the above areas
- Solid understanding of image sensors
- Excellent track record in research publication
- Clean-room experience: a great plus
- Under 32 years old
- A Ph.D. degree from a University with TOP 200 World Ranking

### Professional requirements:

Physics, smart agriculture, electronic science and technology, microelectronics, machinery and materials, etc.



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ansci@utk.edu

## Graduate Research Assistantship at The University of Tennessee

Animal Science department at The University of Tennessee, Knoxville (UTK) is seeking 1-2 self-motivated PhD graduate student assistants in smart poultry farming. The individuals are expected to engage in cuttingedge research that addresses environment and welfare challenges in modern poultry production. Potential research topics include poultry environment management, sensing, robotics, and welfare and behavior monitoring, and can be tailored based on the incumbent's experience and interest.

Applicants should have an earned B.S. or M.S. in agricultural engineering, computer science, electrical engineering, animal science, poultry science or related degree by the time of hiring. Strong skills in one or more programming languages are expected. Experience in image processing, machine learning, deep learning, and robotics is highly preferred, but not a must.

A copy of the GRE score should be submitted upon application. In addition, international applicants need to meet the requirements on English proficiency with a minimum score of 80 on internet-based TOEFL or 6.5 on IELTS. More information of graduate program can be found in Animal Science website: (<https://animalscience.tennessee.edu/graduateprogram-future-students/>)

We offer tuition waiver and competitive stipend commensurate with education and experience.

The admission is expected in Spring, Summer, or Fall 2021.

If interested, please send your CV and research statement to Dr. Yang Zhao ([yzhao@utk.edu](mailto:yzhao@utk.edu)). Free feel to contact Dr. Zhao for any questions.

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BIG IDEAS.**

Flagship Campus of the  
University of Tennessee System





## Biosystems Engineering Department

### Ginn College of Engineering - College of Agriculture

#### PhD Student Position available

One PhD student position is available in Dr. Yi Wang's group in the Biosystems Engineering department at the Auburn University. The candidate is expected to start Spring 2021. The research focus would be on **'value-added bio-fuel and biochemical production through bioprocess engineering, metabolic engineering, and synthetic biology strategies'**. Prospective candidates with background (a MS degree is preferable) in Biotechnology, Microbiology, Biomolecular Engineering, Chemical Engineering, Environmental Engineering, Biosystems Engineering, Bio-Materials Engineering, or other relevant fields are encouraged to apply. Prior research experiences in bioprocess engineering, molecular biology, metabolic engineering, synthetic biology, bacteriophage handling, and fermentation are preferred, but not required. Interested applicants may send their curriculum vitae including the names of three references to Dr. Yi Wang at [yiwang3@auburn.edu](mailto:yiwang3@auburn.edu). For more information, please refer to <http://www.eng.auburn.edu/users/yzw0066/>.

*Due to the impact from COVID-19 pandemic, Auburn University Graduate School has recently announced temporary waivers for admissions exam (GRE) requirements for Fall 2020 and Spring 2021 Admission periods.*

<https://ocm.auburn.edu/news/coronavirus/updates/20200410-graduate-schoolwaivers.php?ref=coronavirus>

However, candidates with decent English test scores (GRE and Toefl if applicable) are still highly preferable.

Auburn University is a land-grant and public research university (an "R1" institution by the Carnegie Classification of Institutions of Higher Education). The University is located in the city of Auburn in east-central Alabama near the metropolitan areas of Montgomery and Birmingham, Alabama, and Columbus and Atlanta, Georgia. U.S. News ranked Auburn among its top ten list of best places to live in United States for the year 2010.

You can find more information about Auburn University at:

[https://en.wikipedia.org/wiki/Auburn\\_University](https://en.wikipedia.org/wiki/Auburn_University)

<http://baike.baidu.com/view/191883.htm>

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## Biosystems Engineering Department

### Ginn College of Engineering - College of Agriculture

#### Post-doc position available

One **Post-doc research associate** position is available in Dr. Yi Wang's group in the Biosystems Engineering department at the Auburn University. The candidate is expected to start as soon as possible. The appointment is for an initial period of one year, with the possibility of renewal depending on performance and funding availability. The research focus would be on **'value-added biofuel and biochemical production through bioprocess engineering, metabolic engineering, and synthetic biology strategies'**. Prospective candidates with background in Biotechnology, Microbiology, Biomolecular Engineering, Enzyme engineering, Chemical Engineering, Environmental Engineering, Biosystems Engineering, BioMaterials Engineering, or other relevant fields are encouraged to apply. Interested applicants may send their curriculum vitae including the names of three references to Dr. Yi Wang at [yiwang3@auburn.edu](mailto:yiwang3@auburn.edu). For more information, please refer to <http://www.eng.auburn.edu/users/yzw0066/>.

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You can find more information about Auburn University at:

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**2021 International Symposium on Animal  
Environment and Welfare  
Chongqing, China • October 20–23, 2021**



### **Announcement and Call for Abstracts**

A healthy environment for occupants and ecosystems and enhanced animal welfare continues to be a critical pillar of sustainable modern food animal production agriculture. Since 2011 the International Research Center for Animal Environment and Welfare (IRCAEW) has been hosting biennial symposia that aim to exchange cutting-edge research findings, discuss present and future needs of the production enterprise, explore ways to further interdisciplinary endeavors globally, and ultimately advance the science and technology for improved animal welfare/health, production efficiency, and environmental stewardship. The 2021 International Symposium on Animal Environment and Welfare (ISAEW2021) will be held on October 20–23, 2021 in Rongchang City, Chongqing, China. The symposium will use a hybrid format of in-person and on-line to accommodate the attendees whose travels may be affected by the COVID19 pandemic. This announcement provides information regarding timeline, thematic areas, organizing committees, registration, and travel logistics.

### **Abstract submission:**

The ISAEW2021 is soliciting abstracts on the afore-listed topics. Please prepare an abstract of less than 250 words using the form contained in this announcement and submit it via email to Dr. Ji-Qin NI ([jiqin@purdue.edu](mailto:jiqin@purdue.edu)). Deadline for abstract submission is March 31, 2021. All abstracts will be lightly reviewed, and those selected for presentation at the symposium will be provided with paper and/or poster templates for their finished work. Full-length papers will be edited and published in a symposium proceedings. Posters should fit within a 120 cm high x 86 cm wide (47" x 34") area.

### **Sponsored by:**

International Research Center for Animal Environment and Welfare (IRCAEW)  
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### **Hosted by:**

Chongqing Academy of Animal Sciences (CAAS)  
Key Lab of Agricultural Engineering in Structure and Environment, MOA, China

### **Symposium Co-chairs:**

Dr. Baoming LI, Professor, CAU, China  
Dr. Hongwei XIN, Dean and Director, UT AgResearch, The University of Tennessee, USA

### **Proceedings Co-chairs:**

Dr. Ji-Qin NI, Professor, Purdue University, USA  
Dr. Lingjuan Wang-Li, Professor, North Carolina State University, USA  
Dr. Chaoyuan WANG, Professor, CAU, China

### **Program Co-Chairs:**

Dr. Qiang ZHANG, Professor, University of Manitoba, Canada  
Dr. Weichao ZHENG, Associate Professor, CAU, China

### **Organizing Committee:**

Chair: Dr. Yong HUANG, Professor, CAAS, China  
Members: Dr. Chaoyuan WANG, Professor, CAU, China  
Dr. Feiyun YANG, Professor, CAAS, China  
Ms. Wen LIU, Associate Professor, CAAS, China  
Dr. Weichao ZHENG, Associate Professor, CAU, China  
Dr. Hao LI, Associate Professor, CAU, China  
Dr. Qin TONG, Associate Professor, CAU, China

### **Contact for further information or questions:**

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## AOC 将于2021 ASABE 年会期间举办20周年庆典



## Association of Overseas Chinese Agricultural, Biological, and Food Engineers (AOCABFE) 海外华人农业、生物与食品工程师协会 成立20周年庆祝!



**AOC Inauguration, July 31, 2001; Sacramento Convention Center, Sacramento, California**



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[lchai@uga.edu](mailto:lchai@uga.edu) 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!

## 征稿启事

