VOLUME 20 ISSUE 2 July 10, 2021

IMPACT

AOC Newsletter



PRESIDENT'S Greetings

Dear AOC Members and Friends,

Summer greetings from the AOC executive board!

First, we want to share some great news from the AOC members who have been elected to 2021 ASABE Fellow and 2021 IEAS Fellow and those who have won major ASABE awards (details on Page 8-9)! Please join us at the AOC business meetings to congratulate 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. Based the most recent Journal Citation Reports, IJABE received an impact factor of 2.032 in year 2020, becoming one of the highest (6th) ranked journals in the Agricultural Engineering field. IJABE is a joint journal co-sponsored by AOC and Chinese Society of Agricultural Engineering (CSAE) since 2008.

It is time for our annual meeting again, which will be held in conjunction with ASABE Annual International Meeting on July 12 and 13 via Zoom platform. In this newsletter, you can find more information about those major activities (Page 17-27), including China Exchange Forum, AOC Annual Business Meeting, and AOC Award ceremony. AOC has turned into twenty (2001-2021)! With the support from AOC members and friends, the executive board had worked tirelessly preparing a celebration event for AOC's 20th anniversary. We sincerely invite you to join us on July 13 to celebrate 20 years of networking, friendship and achievements of AOC.

Thanks for your support to this great association! I look forward to 'seeing' you next week!

Best regards,

Jian Shi

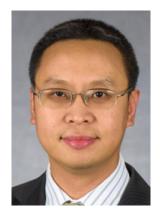
AOC President (2020-2021)



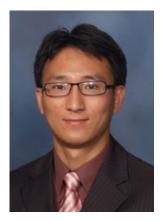
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AOC 2020-2021 Executive Board



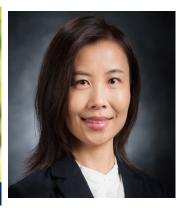
SHI, JIAN
University of Kentucky
PRESIDENT



GE, YUFENGUniversity 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

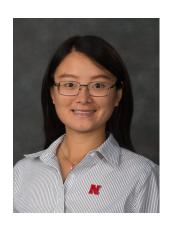
STUDENT ADVISOR



WANG, YINGKUAN
Chinese Academy of
Agricultural Engineering, CHIEF EDITOR OF
IJABE



CHEN, LIPING
NERCITA., China
DIRECTOR OF INSTITUTIONAL MEMBERSHIP



SHI, YEYIN
University of NebraskaLincoln,
TREASURER

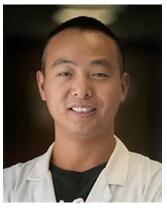
AOC 2020-2021 Executive Board



WANG, ZHIWU
Virginia Tech
MEMBER-AT-LARGE



LIU, KAI
City University of
Hong Kong, MEMBER-AT-LARGE



LI, MI
University of Tennessee
SECRETARY



CHAI, LILONGUniversity 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, Shen- yang Agricultural University
南京农业大学工程学院	College of Engineering, Nanjing Agricultural University

2020 AOC Board Meeting Minutes

8:00-9:20 pm EDT, June 22, 2021

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

- Meeting agenda and last meeting minutes on 3/11/2021 were approved by all attendees (Yang moved, and Lilong seconded, all in favor). No additional topic was added.
- Lilong Chai updated the status of AOC Impact Newsletter. The upcoming issue of Newsletter will come out around July 10, mainly include AOC 20th Anniversary celebration events, China Exchange agenda, member awards, president message, and new members recruitment, etc.
- Discussion on the coordination and progress of AOC Awards, including AOC member awards, AOC fellow (Yufeng and committee), and student awards (leadership/service award, academic achievement, paper award, oral presentation award Zhiwu, Ce, Kai. Application deadline is set at July 1st. Yufeng has updated nominations for AOC member awards and will form a committee based on by-law. Kai Liu updated nominations for student awards. Zhiwu received 4 entries for paper award (usually 3-5 awardees based on ranking) and he indicated the need to collect a few more.
- Yin Bao updated the status of AOC page. A banner of AOC 20th Anniversary has been added to the webpage. Other works, such as logo design, AOC 20th webpage, and president message from Jian are under progress.
- Yeyin Shi updated the status of treasure: Yeyin will collect the list of awardees from both last year and this year.
- Ximing updated the progress and plan of AOC membership development.
- Zhiwu reviewed and updated the AOC student advising and professional development (Zhiwu Wang & Ce Yang). No new workshop will be planned before ASABE 2021 AIM.
- Lirong Xiang updated SAC that the previous communication of platform is found. Record videos (1-2 min). A recent meeting has been held by reviewing the past work, and a new SAC committee (9 members) has been elected.
- Jian Shi updated the 2nd Africa-China-India Engagement Forum has invited 5 speakers (2 from Africa, 2 from China, and 1 from India) to cover research, COVID 19 strategy, and future work topics. Jian will send the speakers names to Lilong for newsletter.
- Sarah updated AOC-20 anniversary celebration activities that there are 16 slides have been received. Extra slides will be explored from the current AOC board and past key members for introduction slides (due June 25th). Jian has received 3 introduction videos. Yang has received 4 videos. A few more are expected in the next weeks. Yang, Yin, Sarah will have another meeting with Dr. Yingkuan Wang.
- The format of the AOC 20th anniversary meeting has also been discussed. Open remark proposed by Dr. Naiqian Zhang. Need another member for closing remark.

Meeting adjourned at 9:20 pm EDT.

SAC Board Members



XIANG, LIRONG Iowa State University SAC CHAIR



YU, DAJUN Virginia Tech SAC VICE CHAIR



LI, JIATING University of Nebraska-Lincoln SAC VICE CHAIR



WANG, YUCHUAN University of Illinois at Urbana-Champaign ACTIVITY DIRECTOR



LIU, CAN University of Kentucky SECRETARY



CHEN, CHANG University of California, Davis MEMBER-AT-LARGE



MA, ZHIHONG Zhejiang University MEMBER-AT-LARGE



WAN, LIANG Zhejiang University MEMBER-AT-LARGE



WANG, LIN
University of NebraskaLincoln



ZHAO, BIQUAN
University of Nebraska-Lincoln
MEMBER-AT-LARGE



GUO, YANGYANG University of Georgia MEMBER-AT-LARGE



SAC Student Activities

SAC meeting minutes

6月22日中部时间 (CDT) 晚上9点, AOC student activity committee (SAC) 的成员们举行了线上会议。

会议主持人: 项丽蓉

会议参加人:赵必权、王林、项丽蓉、于大钧、李佳婷、王昱川、郭阳阳

会议记录: 王昱川

会议内容:

总结过去一年的工作: 成员们交流了去年至今参与的各种工作活动,包括组织AOC-SAC的活动与线上讲座,参与newsletter的编辑,网站更新,微信公众号管理,邮箱维护和师生交流等。

讨论AOC 20周年庆相关事宜:讨论和分配了视频收集整理和资料收集的工作。其中项丽蓉负责收集学生的祝贺视频,王林、于大均、李佳婷和项丽蓉收集AOC的资料用于20周年庆的slides。

SAC 成员调整:成员们评选出了下一届SAC Chair,经过精彩的演讲和大家共同决议,郭阳阳将担任下一届(2021-2022)SAC Chair,王昱川担任Vice chair。两位分别对今后的工作计划进行了展望。万亮和麻志宏同学临近毕业,将不负责今年的相关活动,恭喜毕业!其他成员继续留任,具体工作安排将在以后更新。

欢迎大家继续关注并参与我们,下一年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。



热烈祝贺应义斌教授、杨其长教授当选国际欧亚科学院院士

2020年11月14日,国际欧亚科学院中国科学中心第二十三次院士大会在京召开,50位中国学者增选为国际欧亚科学院院士正式候选人,2021年5月底,正式批复为国际欧亚科学院院士。中国科学家当选人数再创新高。截至目前,国际欧亚科学院院士里,中国科学家有256人。其中,1996~2009年产生123人; 2010~2020年国际欧亚科学院中国院士大会,选举并产生来自中国的国际欧亚科学院院士133人。

国际欧亚科学院成立于1994年,拥有来自46个国家的600余名院士、通讯院士和荣誉委员。 国际欧亚科学院总部设在莫斯科,分别在欧洲(法国)、欧亚(俄罗斯)和亚太地区(中国) 建立区域中心,并在15个国家建立了国家科学中心。国际欧亚科学院中国科学中心是15个国家 科学中心中人数第二位的中心,于1996年由中国科学院申报并经国家科委批准成立。







应义斌 教授

杨其长教授,国际欧亚科学院院士,设施园艺专家。中国农业科学院都市农业研究所常务副所长,研究员。国际园艺学会(ISHS)设施植物生产系统智能化专业委员主席。

应义斌教授,国际欧亚科学院院士,欧洲科学与艺术院院士,智能农业装备与信息化工程 专家,浙江大学教授,浙江省科学技术协会副主席。

2021 ASABE Fellow & Major Awards



Dr. Shufeng Han
2021 ASABE Fellow
John Deere



Dr. Heping Zhu
2021 ASABE Fellow
USDA ARS



Dr. Robert Burns

2021 Henry Giese Structures & Environment

University of Tennessee



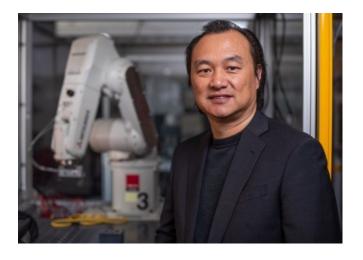
Dr. K.C. Ting
2021 Lalit and Aruna Verma
Award for Excellence in
Global Engagement
University of Illinois



Dr. Lilong Chai
2021 Sunkist Young
Designer Award
University of Georgia





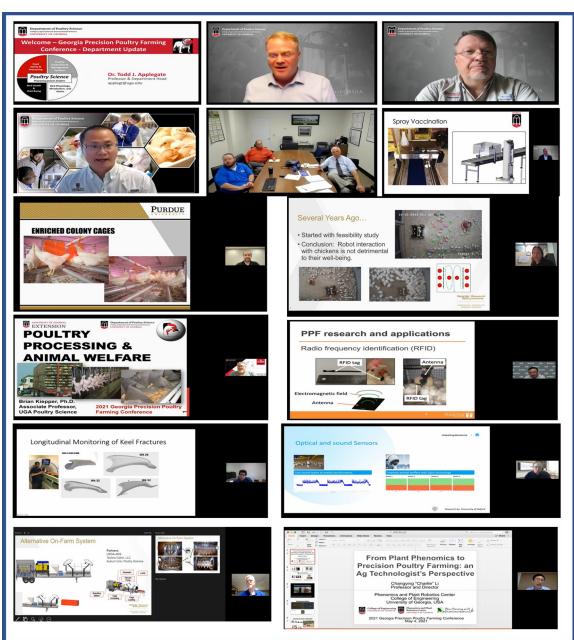


Dr. Lie Tang, former AOC President and professor in agricultural and biosystems engineering, is the recipient of the Outstanding Achievement in Research Award from the College of Agriculture and Life Sciences at Iowa State University. His research in the area of agricultural automation and robotics for acquiring crop plant information for autonomous field operations and plant phenotyping is well known nationally and internationally and has made a major impact in the agricultural engineering discipline. Some of the most challenging aspects are associated with the fact that crop plants are biological with all the variability and uncertainty associated with living organisms. Tang's research group has been relentless in pursuing practical, real-world innovations to unlock the technology for agricultural plant sensing and the associated robotic automation that must be co-developed to implement practical solutions.

Tang is active in serving the university and his profession as well, including the steering committee for the Iowa State Enviratron facility and several committees within the American Society of Agricultural and Biological Engineers. He has also served as president of the Association of Overseas Chinese Agricultural, Food and Biological Engineers.

The University of Georgia hosted the inaugural Precision Poultry Farming Conference

On May 4, 2021, the University of Georgia (UGA) hosted the inaugural 2021 Georgia Precision Poultry Farming Conference virtually via Zoom. The day-long event was a UGA Cooperative Extension conference initiated by Dr. Lilong Chai, assistant professor and engineering specialist in the Department of Poultry Science, College of Agricultural and Environmental Sciences, along with support from department administration and fellow faculty members and researchers. Chai also served as the moderator for the conference. The event attracted 322 registrations from poultry and egg farms, poultry service companies, academia and government agencies globally from more than 30 countries. The conference was initiated by AOC board member Dr. Lilong Chai. AOC former president Dr. Changying Li and President-Elect Dr. Yang Zhao were invited speakers at the conference.



Source: https://poultry.caes.uga.edu/news/story.html?storyid=8624&story=Precision-Poultry-Science

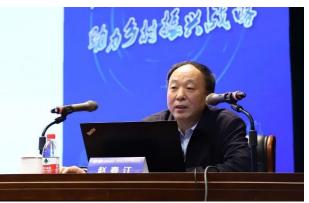
"2021耒耜国际会议"在江苏大学召开

2021年4月29日,由中国农业机械学会、中国农业机械工业协会、中国农业工程学会、中国农业机械化协会、中国农业机械流通协会主办,江苏大学和农业工程大学国际联盟联合承办,以"巩固脱贫攻坚成果,助力乡村振兴战略"为主题的"2021耒耜国际会议"在江苏大学召开。29日上午,论坛开幕。江苏省政协副主席洪慧民,中国农机学会名誉理事长罗锡文、陈学庚院士,中国农机学会副理事长赵春江院士,中国工程院院士康绍忠、全国脱贫攻坚楷模、镇江市人大常委会原副主任赵亚夫,江苏省农业农村厅副厅长沈毅,中国农业机械化科学研究院党委书记、院长刘小虎,中国农业机械工业协会会长陈志,中国农业机械化协会会长刘宪,中国农业工程学会常务副理事长朱明,中国农机学会监事长方宪法,中国农机学会副理事长于海业,中国农机学会副监事长韩鲁佳、应义斌等领导嘉宾,来自国内外农业工程领域的专家,高校、行业以及企业有关负责人等共计200多人参加会议。









2021智慧农业产学研生态峰会在华中农业大学召开

2021年5月8日,2021智慧农业产学研生态峰会开幕式在我校作物遗传改良国家重点实验室一楼大报告厅举行。来自全国74家高校和科研院所,84家企业的500余位专家和企业家代表,齐聚华中农业大学,共同研讨智慧农业发展,展望智慧农业未来。



中国工程院院士、华南农业大学罗锡文教授,中国工程院院士、国家农业信息化工程技术研究中心主任赵春江研究员,第三世界科学院院士、北京大学黄季焜教授,中国工程院院士、沈阳农业大学李天来教授,中国工程院院士、华中农业大学陈焕春教授,民盟中央副主席、国土资源部前副部长、南京农业大学曹卫星教授,农业农村部科技教育司连庆处长,湖北省农业农村厅李顺清总农艺师,安徽农业大学副校长操海群教授,华中农业大学校长李召虎教授出席本次开幕式。

据悉,本次峰会将持续举行两天,峰会日程分为大会报告和专题报告。大会报告部分有13名领域内学者和部分企业代表参与报告。专题报告分为智慧农场、智慧养殖、智慧园艺、智慧农业等四个主题,共邀请到32位各领域学者进行报告。沈阳农业大学李天来院士以"中国设施园艺智慧化发展的思考"为题在智慧园艺专题中作报告。此外,峰会还将举行新农科人才培养与教材建设研讨、智慧农业创业大赛总决赛、智慧农业创新示范展田观摩等活动。

第九届国际精准农业航空会议、第十二届精准农业与航空施药技术国际研讨会在 深圳隆重举行

2021年5月22日,第九届国际精准农业航空会议、第十二届精准农业与航空施药技术国际研讨会在中国深圳会展中心隆重举行。本次会议由国际精准农业航空学会、华南农业大学学国家精准农业航空施药技术国际联合研究中心、农业农村部南京农业机械化研究所、山东理工大学、国际农业与生物工程师学会精准农业航空工作委员会主办,深圳市无人机行业协会承办,中国国际科学技术合作协会、国家航空植保科技创新联盟、中国农业工程学会农业航空分会、中国农业机械学会农业航空分会、中国农业机械化协会农用航空分会、世界无人机联合会、农业航空产业技术创新战略联盟、中美施药技术联合实验室(南京)、中美农业航空联合技术中心(北京)、北京大学现代农学院、中山大学农学院协办。



农业传感器国际工程科技战略高端论坛在津召开

2021年5月20-22日,国际工程科技战略高端论坛--农业传感器在天津隆重召开。本次会议由中国工程院、天津市人民政府和中国农业工程学会共同主办,国家农业信息化工程技术研究中心、国家农业智能装备工程技术研究中心、华南农业大学、中国农业大学、江苏大学、中国人工智能学会、中国农业机械学会、中国农业机械化协会、中国农业国际合作促进会等联合承办。中国工程院院士、中国农业工程学会名誉理事长罗锡文,中国工程院院士、中国农业工程学会副理事长赵春江担任本次大会主席。





中国工程院李德毅、戴琼海院士,中国农业工程学会名誉理事长陈学庚院士,中国农业工程学会副理事长李天来院士,国际欧亚科学院院士、中国农业工程学会常务副理事长兼秘书长朱明等出席了大会。赵春江院士主持开幕式活动,中国工程院农业学部副主任、大会主席罗锡文院士,天津市副市长李树起,江苏大学校长颜晓红出席开幕式并致辞。来自中国、美国、加拿大、澳大利亚、德国、法国、英国、日本、韩国、希腊、西班牙等11个国家的1000多名专家学者通过线上和线下方式参加会议。本次会议内容丰富,包括"会、展、赛"等多项活动,同期举办"中英智慧农场科技创新研讨会"、"技术成果展"以及首届"中国农业机器人创新大赛"等多项活动。围绕农业传感器、农业人工智能、农业机器人、精准农业与智慧农场四个专题,罗锡文院士、李德毅院士、戴琼海院士、陈学庚院士、赵春江院士分别做论坛主旨报告,邀请专家做学术报告80余个,其中国外专家报告30个,开展技术成果展示交流60余项。

《国际农业与生物工程学报》(IJABE)最新影响因子 IF=2.032

2020-2021 IJABE Annual Report

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

2020 IJABE, Biomonthly, Published six issues

In 2020, IJABE, Bimonthly, published six Issues with 182 papers, six cover captions, over 92.8% (169/182) with funded projects and Chinese authors accounts for 82.4% (150/182), 17.6% (32/182) by international authors. IJABE's JIF reached 2.032, increased by 17.4% compared to 1.731 in JCR2019. All the papers covered by SCIE within 4-10 weeks after being published with much shorter delay time. The authors cover 22 countries, following CN, US, JP, PAK, GER, AU, SA, BANG, Ghana, SP, MYS, BE, PL, IT, NP, IR, TK, RU, SG, IL, BR, IN, GH, BD, etc.



《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2.032(JCR2020),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%)。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。

AOC成立 20周年相关活动!







Celebrating 20th Anniversary

Association of Overseas Chinese Agricultural, Biological, and Food Engineers (AOCABFE)

JOIN US AT ASABE ANNUAL INTERNATIONAL MEETING

Events	Date and Time
AOCABFE China Exchange Forum	July 12, 7-9:30 pm CDT
AOCABFE 20th Anniversary Celebration	July 13, 7-8:30 pm CDT
AOCABFE Annual Business Meeting and Awards Ceremony	July 13, 8:30-10 pm CDT

ZOOM LINK HTTPS://AUBURN.ZOOM.US/J/9108849960 OR SCAN HERE ▶ ■



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

AOC China Exchange Forum

The 2021 AOC China Exchange Forum will be held virtually during 2021 ASABE Annual International Meeting. We invited speakers from China and the U.S. to present their research and education programs, share their experiences and growth with AOC, and envision AOC's future and its role in bridging collaborations and communications between China and the U.S. in the field of agricultural and biological engineering. You are cordially invited to join this event.

Time/Date: 7:00 pm CDT, July 12, 2021 (Beijing Time - 8 am, July 13, 2021)

Moderator: Dr. Yang Zhao, The University of Tennessee

Dr. Yingkuan Wang, Academy of Agricultural Planning and Engineering

Zoom link: https://auburn.zoom.us/j/9108849960
CNKI link: https://k.cnki.net/CInfo/Index/14924

Agenda (all time is CDT-美国中部时间):

7:00 - 7:05 pm Introduction

7:05 – 7:35 pm Introduction of USHCA and US-China Collaborations and Friendship in Agriculture

Dr. Kenneth Quinn

Former U.S. Ambassador to Cambodia Former president of World Food Prize Foundation

Mr. Bob Holden

Chairman and CEO at US Heartland China Association 53rd Governor of Missouri

Ms. Min Fan

Executive Director at US Heartland China Association

7:35 – 8:05 pm Diatom: An Emerging Industry

Dr. Jawkai Wang

Member of US National Academy of Engineering

8:05 – 8:35 pm Opportunities and Challenges Faced by Peanut Mechanization

Prof. Dr. Shuqi Shang

Dean, Mechanical and Electrical Engineering

Qingdao Agricultural University

8:35 – 9:05 pm Research and Applications in Smart Agriculture Technologies

Dr. Liping Chen

Associate Director

Beijing Research Center for Information Technology in Agriculture



Ambassador Kenneth Quinn

Dr. Kenneth M. Quinn, former U.S. Ambassador to the Kingdom of Cambodia, assumed the leadership of the World Food Prize Foundation on January 1, 2000, following his retirement from the State Department after a 32 year career in the Foreign Service. He is currently a Strategic Advisor for the US Heartland China Association.

Inspired by the vision of Dr. Norman E. Borlaug, the founder of the World Food Prize, Ambassador Quinn has endeavored to build this annual \$250,000 award into "the Nobel Prize for Food and Agriculture." Held each October in Des Moines on or around World Food Day (October 16), the World Food Prize Laureate Award Ceremony, "Borlaug Dialogue" international symposium and Global Youth Institute have grown in size and stature under his direction.

With the support of the John Ruan family, Dr. Quinn has led the campaign which successfully raised over \$30 million to restore the historic Des Moines Public Library and transform it into the World Food Prize Dr. Norman E. Borlaug Hall of Laureates. He provided the personal leadership to have the building designed to achieve LEED Platinum certification, the highest possible level of energy efficiency and resource conservation.

During his diplomatic career, Ken Quinn served: as a Rural Development advisor in the Mekong Delta; on the National Security Council staff at the White House; as Narcotics Counselor at the U.S. Mission to the United Nations in Vienna; for four years as Chairman of the U.S. Inter-agency Task Force on POW/MIAs; and as Director of Iowa SHARES, the humanitarian campaign that sent Iowa doctors, nurses, medical supplies and food to starving Cambodian refugees.

A fluent speaker of Vietnamese, Dr. Quinn acted as interpreter for President Gerald Ford at the White House and personally negotiated the first ever entry by U.S. personnel into a Vietnamese prison to search for U.S. POW/MIAs. He was also a member of the first U.S. team to gain entry to a former Soviet prison in Russia.

Ambassador Quinn, a graduate of Loras College in Dubuque, Iowa, has a M.A. in Political Science from Marquette University and a Ph.D. in International Relations from the University of Maryland. He and his wife Le Son have three adult children.



Governor Bob Holden

Bob Holden served as Missouri's 53rd Governor, 2001-2005. Prior to being elected Governor, Holden served two terms as Missouri State Treasurer and three terms as a Missouri State Representative. He is currently the Chairman & CEO for the US Heartland China Association.

Bob Holden has been in public service his entire adult life. In addition to holding elective office, Holden worked for State Treasurers James I. Spainhower and Mel Carnahan, United States Senator Thomas F. Eagleton, and Congressman Richard A. Gephardt.

During Governor Holden's term in office, he chaired the Midwest Governors Association; opened Missouri's first trade office in China; created Missouri's first Hispanic Outreach Committee; moved Missouri from 41st to 5th in terms of women in leadership positions; appointed over 200 African Americans to prominent leadership roles; established the state's first Youth Cabinet; and built the first LEED certified state office building in Missouri.

Bob Holden is currently the Missouri Co-Chair for the U.S. Global Leadership Coalition, and is an Executive Board member of the Missouri State NAACP Chapter. After leaving office in 2005, Holden founded the Holden Public Policy Forum and was a professor at Webster University for ten years. While at Webster University, he helped bring the first Confucius Institute to Webster University, St. Louis, Missouri.

For over 40 years, Bob Holden has been an active participant in the American Legion Missouri Boys and Girls State Program. He led efforts to bring the first delegations of Chinese students to be participants in this historic program. Since that first delegation to Missouri Boys and Girls State, he has led the efforts to continue these student delegations of Chinese students to Missouri and Missouri students to China with plans to initiate delegations from other states.

Bob Holden believes that long term economic success for the United States and China must be built on mutual respect, clear understandings and honest dialogue. This can be achieved by expanding our cultural ties, creating more educational partnerships, and creating bridges of opportunities for successful business in both countries.



Ms. Min Fan

Ms. Min Fan is the Executive Director of US Heartland China Association (USHCA). She was born in China and studied at Peking University before immigrating to the United States. Continuing her education at the University of North Carolina she earned a B.A. in Art followed by an M.B.A. at the Kenan-Flagler Business School.

Min went on to a successful career in the corporate world culminating in her role as the leader of the Ideation and Innovation Practice at Hewlett Packard (HP) Global Corporate Services. Upon leaving HP she joined the startup ecosystem as an entrepreneur and mentor at two Colorado incubators.

From 2018-2019, Min brought her entrepreneur experience and passion for US and China collaboration to the nonprofit sector as the Executive Director/COO of US China Innovation Alliance (UCIA).

Over 100 US companies visited China on sponsored trips as a result of her team's efforts.

Prior to joining the US Heartland China Association, Min launched US China Now, a not-for-profit endeavor, which partnered with a broad spectrum of organizations to build a bridge of understanding across the cultural divide between US and China.



Dr. Jaw-Kai Wang

Dr. Jaw-Kai Wang is a member of the National Academy of Engineering (USA) and a registered professional engineer in the State of Hawaii. Dr. Wang is a founding member and the first president of the Aquacultural Engineering Society (1993-95). He received the 1990 Governor's Distinguished Service Award, State of Hawaii. The Hawaii State Senate passed a resolution in 1986 and the Hawaii State House of Representatives passed a resolution in 1996 recognizing his contribution to the state of Hawaii.

He is a Fellow of the American Society of Agricultural Engineers, received its Kishida Award; and a Fellow of the American Institute for Medical and Biological Engineering. He was appointed to the Expert Panel on Agricultural Mechanization by the Director-General of the FAO.

He served as consultants to the U.S. Department of State, Department of Agriculture, the Rockefeller Foundation, the World Bank, and others.

He was appointed, in 2005, a member of the Expert Consultative Council of the State Council, Overseas Chinese Office (China); he was elected to first group of "Leading Scientific Experts" in Guangdong Province. In 2011 Dr. Wang was judged by a Shenzhen Municipality Council of Peers to be a Leader in the field of Sciences and Technology.



Dr. Shuqi Shang

尚书旗,博士、二级教授,青岛农业大学机电工程学院院长。享受国务院特贴、天山学者、泰山产业领军人才。国际田间试验机械化协会(IAMFE)主席、中国分会主席。获全国五一劳动奖章、全国优秀科技工作者等称号。

发明了23种农机装备,获授权专利136件,发表论文172篇。获国家科技进步二等奖2项、省部级一等奖4项等奖励。在根茎类作物和种子繁育机械装备的理论方法与技术创新方面做出了突出贡献并形成了鲜明的特色。

Shang Shuqi, PHD in engineering, second-level professor. He is currently the dean of College of Mechanical and Electrical Engineering of Qingdao Agricultural University. Expert enjoying special allowance the State Council, Tianshan scholars and leading talent of Taishan Industry. He is President of International Association for the Mechanization of Field Experiment (IAMFE) and Chairman of China Branch. He was awarded the National May Day Labor Medal and the National Outstanding Scientific and Technological Worker.

Under his efforts, 23 kinds of agricultural machinery and equipment were invented. He has obtained 136 authorized patents and published 172 papers also. He has won 2 Second Prizes of National Science and Technology Progress Awards and 4 First Prizes at provincial and ministerial level. He has made outstanding contributions to the theoretical methods and technological innovations of the breeding machinery and equipment for rhizome crops. It has formed his distinctive features.



Dr. Liping Chen

陈立平,博士,研究员,博士生导师,北京农业智能装备技术研究中心主任兼北京农业信息技术研究中心副主任,现任国家农业智能装备工程技术研究中心主任、国家农业信息化工程技术研究中心副主任,担任国家农业航空应用国际联合研究中心副主任。主要从事精准施肥和航空施药技术装备研究,先后获得国家科学技术进步二等奖3项、省部级科技奖励6项。担任国家十三五重点研发计划"智能化精准施肥与肥料深施技术装备研发"项目首席。

AOC Sponsored Session - ASABE AIM E-2050 - Global Engagement

Agriculture, Food and Biological Engineering in Developing Countries in Response to the COVID-19 Post Pandemic Era

Description: 2nd Africa-China-India Engagement Forum: Agriculture, Food and Biological Engineering in Developing Countries in Responses to the COVID-19 Post Pandemic Era. This is a forum of renowned experts of Africa, China, and India origins discussing how agriculture, food and biological engineering in developing countries reposition to battle challenges in the pandemic and post-pandemic era.

Background and Justification: The 1st Africa-China-India Engagement Forum themed "Resource Development for Agricultural & Biological Engineering Challenges" presented at the 2019 ASABE AIM in Boston discussed the status of resource distribution, as well as the harnessing opportunities in agricultural and biological engineering for boosting the management capacity of resources in developing countries, among other topics. With the COVID-19 situation, some urgent questions in many minds that the 2nd Africa-China-India Engagement Forum would attempt to address during the 2021 ASABE AIM in Anaheim, California, are: What are the implications of this pandemic - now and in the future - on the food security in those communities particularly on the food production, agricultural supply chains and markets? How are farmers and engineers of the tri-communities responding to the COVID-19 post era? Would developing countries move towards policies that reduce their dependence on imports as a measure to improve their capacity to respond to eventual future crisis? The proposed theme (subject to change) is "Agriculture, Food and Biological Engineering in Developing Countries in Response to the COVID-19 Post Pandemic Era". This is a forum of renowned experts of Africa, China, and India origins discussing how agriculture, food and biological engineering in developing countries reposition to counter the challenges in the pandemic and postpandemic era.

Session Moderator: Dr. Ruihong Zhang

Sponsoring committees: AOCABFE, AABFEIO, ANGASABE

Scheduled day and time: Thursday, July 15 10:00am - 12:30pm (Central Daylight Time, UTC -5)

(10:00-10:05) *Introduction to the session and invited speakers*

(10:05-10:30) Self-powered non-destructive sensing technology for plants and animals

Presented by: Dr. Yibin Ying, Zhejiang University, China

(10:30-10:55) Engineering the transformation of African agri-food systems: what lessons from COVID-19 pandemic?

Presented by: Linus Opara, Stellenbosch University

(10:55-11:20) Novel disinfestation and pasteurization technologies of postharvest agricultural products using radio frequency energy

Presented by: Dr. Shaojin Wang, Northwest A&F University, China

(11:20-11:45) Impacts of the Covid-19 pandemic on the socioeconomic life of African farmers

Presented by: Valentine Achancho, International Fund for Agricultural Development

(11:45-12:10) *Irrigation scheduling using RS & GIS*

Presented by: Nagesh Kumar, Indian Institute of Sciences

(12:10-12:30) Q&A

AOC Member-at-Large Candidate—Dr. Hao Gan



Dr. Hao Gan is an Assistant Professor in the Department of Biosystems Engineering and Soil Science at the University of Tennessee. Prior to the current position, Gan received his Ph.D. and M.S. in Agricultural and Biological Engineering from the University of Florida and the University of Illinois Urbana-Champaign, respectively, and B.S in Mechanical Engineering from Yangzhou University in China. Gan's expertise is in precision agriculture, including sensor development, computer vision and agricultural robots. His teaching focus is in electrical and electronics engineering principles. Gan is committed to quality research and education related to all aspects of precision agriculture and his goal is to advance knowledge and technologies in precision agriculture and to train the next generation of agricultural engineers.

Gan joined the ASABE in 2013 and the AOC in 2016. He has been an active member in both ASABE and AOC. Gan served as an advisor for multiple ASABE student competitions including student robotics competition and AGCO student design competition. He was selected as a member of the New Faces of ASABE Class of 2020. Gan also served as a judge for AOC student presentation competition and assisted the organization of AOC professional development events in 2020.

AOC Member-at-Large Candidate—Dr. Shangpeng Sun



Dr. Shangpeng Sun is an assistant professor in the Department of Bioresource Engineering at the Macdonald Campus of McGill University. He obtained his second Ph.D. from the University of Georgia (USA) and the first Ph.D. from Beijing Jiaotong University (China), following undergraduate and graduate studies at Xi'an University of Science and Technology (China) and Beijing Jiaotong University. He performed postdoctoral research at the University of Georgia in 2020 before joining McGill. Dr. Shangpeng Sun's main research interests are to develop innovative sensing technologies and computational methodology for solving challenges in agricultural systems using robotics, artificial intelligence, computer vision, and remote sensing, aiming to improve the production of high-quality food in the face of the rapidly growing human population and global environmental change.

Dr. Sun joined the ASABE and AOC in 2015. He has been an active member and attended several competitions in both ASABE and AOC. Dr. Sun received the best paper award twice in ITSC session in 2017 and 2018, respectively, won the second place in ASABE Robotics Design Competition (advanced division) in 2018, and the first place in AOCABFE Graduate Student Paper Competition in 2019.



THE UNIVERSITY OF TENNESSEE



2506 Jacob Drive, Knoxville, TN 37996-4570 www.renewablecarbon.org.

Ph.D. research associate / Master student / Visiting Ph.D. student positions available

The Center for Renewable Carbon (CRC) is an interdisciplinary research and development unit at the University of Tennessee, Knoxville (UTK). The CRC team advances the science needed to develop new technologies that uses renewable feedstocks for sustainable materials, chemicals, fuels, and energy, prepare students for live of impact, and transfers research advances to address society needs. More information about the CRC can be found at www.renewablecarbon.org.

The CRC seeks applicants for Ph.D. student/ Master student/ visiting Ph.D. student /visiting scholar. Candidates will conduct researches and study in a CRC laboratory. This research group focus on bioplastic development, lignocellulosic materials conversion, CO₂ utilization, bio-products and functional materials development.

Requirement of the position

Duties and Responsibilities:

The successful candidate will conduct research on projects in polymer synthesis, lignocellulosic biomass conversion, CO₂ conversion, and catalysts development and optimization. A wide range of subjects may be focused on including functional materials synthesis, agricultural/industrial byproduct utilization, and chemical sensor development. Candidates are also expected to assist in managing and organizing the laboratory.

Minimum Qualifications:

Candidates who have 1) Background on Polymer Science, Material Science and Engineering, Chemical Engineering, Biological System Engineering, or a related field. Candidates who apply for Master or Ph.D. position should possess Bachelor or Master degree in aforementioned s with minimum GPA of 3.0. For international students, TOEFL score is required (minimum is 90). 2) Strong written and communication skills; 3) Ability to work independently to solve problems, and a strong sense of responsibility.

Preferred Qualifications:

Candidates who have 1) Academic training or research experience in biomass conversion, lignin valorization, polycarbonate polymer synthesis, and catalysts; 2) Abilities to received financial assistance (e.g., scholarship, fellowships of funding) from a third party.

The expected started date is as soon as possible. The selected candidate will be supported with competitive salary. Salary for visiting scholar is commensurate with experience and qualification.

If you are interested in this position, please email a statement of interest (1-2 pages), your CV, and contact information for three references to Dr. Shaoqing Cui at scui4@utk.edu. For applicants applying to Master/Ph.D. research positions, curriculum vita should include GPA, TOFEL and GRE (if applicable) scores, and copies of transcripts are required.



Department of Animal Science Brehm Animal Science Building 2506 River Drive Knoxville, TN 37996 P: 865-974-7286 F: 865-974-7297 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, sensoring, 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). Free feel to contact Dr. Zhao for any questions.



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 biofuel 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. For more information, please refer to http://www.eng.auburn.edu/users/yzw0066/.

<u>Due to the impact from COVID-19 pandemic, Auburn University Graduate</u> <u>School has recently announced temporary waivers for admissions exam (GRE)</u> 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_Universityhttp://baike.baidu.com/view/191883.htm

209 Tom Corley Building Auburn, AL 36849-5417

Telephone: 334-844-4180

FAX: 334-844-3530

www.auburn.edu/bio



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. For more information, please refer to http://www.eng.auburn.edu/users/yzw0066/.

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The 2nd Round Announcement

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, proceedings, and travel logistics.

Sponsored by:

International Research Center for Animal Environment and Welfare (IRCAEW) Chongqing Commission of Science and Technology (CCST) Chinese Society of Agricultural Engineering (CSAE) China Agricultural University (CAU)

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, <u>CAU</u>, 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. Oin TONG, Associate Professor, CAU, China

Contact for further information or questions:

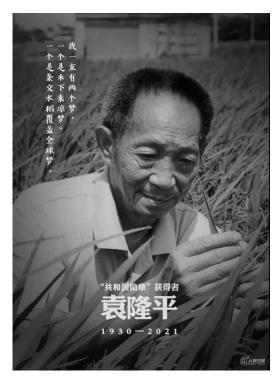
Dr. Weichao ZHENG

Department of Agricultural Structure and Bioenvironmental Engineering China Agricultural University, Mail Box 67, Beijing 100083, China

Cell: +86 13811997928; Fax: +86 10 62736904; Email: weichaozheng@cau.edu.cn

沉痛悼念袁隆平院士

"共和国勋章"获得者、中国工程院院士、国家杂交水稻工程技术研究中心主任、湖南省政协原副主席袁隆平,因多器官功能衰竭,于2021年5月22日13时07分在长沙逝世,享年91岁。



袁隆平是我国研究与发展杂交水稻的开创者,也是世界上第一个成功地利用水稻杂种优势的科学家,被誉为"杂交水稻之父"。他冲破经典遗传学观点的束缚,于1964年开始研究杂交水稻,成功选育了世界上第一个实用高产杂交水稻品种"南优2号"。杂交水稻的成果自1976年起在全国大面积推广应用,使水稻的单产和总产得以大幅度提高。20多年来,他带领团队开展超级杂交稻攻关,分别于2000年、2004年、2011年、2014年实现了大面积示范每公顷10.5吨、12吨、13.5吨、15吨的目标。最新育成的第三代杂交稻叁优一号,2020年作双季晚稻种植平均亩产达911.7公斤,加上第二代杂交早稻亩产619.06公斤,全年亩产达1530.76公斤,实现了周年亩产稻谷3000斤的攻关目标。

"发展杂交水稻,造福世界人民"是袁隆平毕生的追求。为了实现这一宏愿,他长期致力于促进杂交水稻走向世界。目前,杂交水稻已在印度、孟加拉、印度尼西亚、越南、菲律宾、美国、巴西、马达加斯加等国大面积种植,年种植面积达800万公顷,平均每公顷产量比当地优良品种高出2吨左右。袁隆平1981年获得国家发明特等奖,2001年获得首届国家最高科学技术奖,2014年获得国家科学技术进步特等奖,2018年获"改革先锋"称号,2019年被授予"共和国勋章"。他还相继获得联合国教科文组织"科学奖"等二十余项国内国际大奖。



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