

**2023 ASABE CA/NV
Section Meeting**

ASABE

Fresno 2/14/2023



2022-23 Sponsors



Carolyn M. Jones



Dr. Charles Hillyer



Poster Competition & Agenda

Categories:

Undergraduate Student

Graduate Student

- | | |
|---------|-------------------------------|
| 5:30 pm | Poster presentations |
| 6:00 pm | Poster presentations / Voting |
| 6:15 pm | Business Meeting |
| 7:00 pm | ASABE Update |
| 7:30 pm | Keynote: Dr. Zhongli Pan |
| 8:10 pm | Closing |
| 8:15 pm | Adjourn |

**2023 ASABE CA/NV
Section Meeting**

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Fresno 2/14/2023



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Carolyn M. Jones



Dr. Charles Hillyer



Meeting Agenda

5:30 PM Welcome / Poster Competition

6:15 PM Business Meeting

Membership, Treasurer

- Section Report: Activities,
- Student Rally Update
- Officer Elections
- School Reports
- Awards: Posters, Milestone, Engineer of the Year
- Sponsors

7:00 PM ASABE Update: Keith Tinsey and Austin
Roepke

7:30 PM Keynote: Zhongli Pan

8:10 PM Closing Comments

9:45 PM

2022 Officer Team

EXECUTIVE COMMITTEE

Chair Davis BAE	Hossein Edalati	UC
Vice Chair California Safe Soils, CTO	Steve Zicari, PhD, PE	
Treasurer BRAE, Faculty	Mohammad Sadek, PhD	CalPoly SLO
Secretary CSU Fresno CIT, Director	Charles Hillyer, PhD	
Past Chair Pritchard, Sr. Engineer	Lynn Groundwater Moeller, PE	Provost &

STANDING COMMITTEE

Membership USDA NRCS, Engineer	Kristen Perano, PhD
Program USDA NRCS, Bay/Delta Team Engr	Carolyn M. Jones, PE

2022-23 Activities

2022 Feb, 9
(Virtual)

2022 Annual Meeting

2022 Nov, 11-12

3rd Student Rally, Cal Poly SLO

2023 Feb, 11-12

4th Student Rally, Fresno State

2023 Feb, 12-14
Conference

Ag. Equip. Technology

Dairy Equip., Irrigation, Woody Biomass

2023-24 Activities

2023 Feb, 14

2023 CA/NV Annual Meeting

2023 July, 9-12

2023 Annual Int'l Meeting (Omaha)

2024 Jan

5th Student Rally, UC Davis

2024 Feb

2024 CA/NV Annual Meeting

2024 July
(SoCal)

2024 1st Int'l Student Rally

2024 Annual Int'l Meeting

2023-24 Activities / Focus

- Outreach to members
- Connecting with students and departments
- Serve as platform to
- Resume bimonthly updates
 - Showcasing activities around the section

Section Updates

HOME ABOUT BYLAWS CONTACT US OFFICERS RALLY **UPDATES**



Updates

▪ February 2023 Events

- **4th Student Rally:** Sat, Feb 11th – Sun, Feb 12th in Fresno, CA
 - [Schedule](#), [Registration](#), [Website](#): for more info
 - Travel Survey for UCD attendees: <https://bit.ly/Feb23-CANV-UCDsurvey>
- **AETC:** Sun, Feb 12 – Tue, Feb 14th @ Fresno Convention Center
 - AETC – Ag. Equipment Technology Conference
 - [Website and registration info](#)
- **CA/NV Meeting:** Tuesday, Feb 14th @ Fresno Convention Center
 - Flyer: <http://bit.ly/2023CANVMeeting>
 - Registration Site: <https://na.eventscloud.com/canv23>
 - [2023 Engineer of the Year Application](#) due Mon, 2/13/2023
 - Contact [Lynn Groundwater-Moeller](#) if interested in 2023 Section Officer position
- **World Ag Expo:** Tue, Feb 14th – Thu, Feb 16th in Tulare, CA
 - [Website](#)

<https://asabecanv.org>

2022-2023 Update: Membership

- 245 members as of January 2022
- 318 total members in as of January 2023



2022 Treasurer's Report - Section

ASABE CA/NV Section 2022 Financial

Strating balance	\$ 6,557.00	2/11/2022
Expenditures		
Poster Awards	\$ 825.00	2/17/2022
Anniversary Milestone pins	\$ 275.00	5/6/2022
Misc (check)	\$ 6.00	11/10/2022
	\$ 1,106.00	Total Exp.
Deposites		
2022 meeting registration	\$ 380.00	11/10/2022
2022 AM sponsors	\$ 1,000.00	3/22/2022
	\$ 1,380.00	Total Dip.
Ending balance	\$ 6,831.00	2/14/2023

2022 Treasurer's Report - Rally

ASABE Student Rally 2022 Financial

Strating balance	\$ 3,581.68	2/11/2022
Expenditures		
2022 Rally Meal	\$ 1,082.05	11/30/2022
2023 Rally Bus	\$ 964.00	2/9/2023
	\$ 2,046.05	Total Exp.
Deposites		
2022 Rally registration	\$ 210.00	11/10/2022
	\$ 210.00	Total Dip.
Ending balance	\$ 1,745.63	2/14/2023

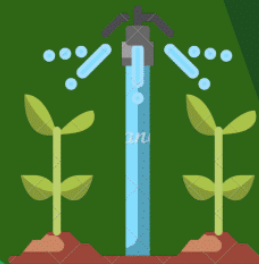
Student Rally Update

WHAT IS A STUDENT RALLY?

THE ASABE CA/NV SECTION STUDENT RALLY IS AN EVENT WHERE STUDENTS THROUGHOUT THE ASABE CA/NV SECTION ARE INVITED TO JOIN US FOR A WEEKEND FILLED WITH SOCIAL AND PROFESSIONAL ACTIVITIES DESIGNED TO EXPAND YOUR NETWORK AND AID YOUR CAREER DEVELOPMENT IN AGRICULTURAL AND BIOLOGICAL ENGINEERING AND RELATED TECHNOLOGICAL FIELDS. STUDENT RALLIES ARE A PERFECT TIME TO GET TO KNOW YOUR COLLEAGUES, LEARN ABOUT UNDERGRADUATE AND GRADUATE OPPORTUNITIES AT SECTION COLLEGES AND UNIVERSITIES, AND EXPLORE JOB OPPORTUNITIES IN OUR FIELD WITH IN-PERSON INDUSTRY REPRESENTATIVES.

WHAT TO EXPECT

INDUSTRY TOURS
LEADERSHIP
PRESENTATIONS
CAREER PANELS
BUSINESS MEETINGS
COMPETITIONS
LICENSURE AND ETHICS
BEACH BONFIRE



2022 Third Student Rally @ Cal Poly SLO

Hosted by CalPoly San Luis Obispo BioRes. & Ag Engr Dept.



[Program](#)

[Presentation](#)

[Photos](#)

2023 Fourth Student Rally @ CSU Fresno

Hosted by Fresno State CIT, Dept. IT, and AETC



[Program](#) [Presentation](#) [Photos](#)

2023 Student Rally at CSU Fresno

PROGRAM

Saturday, February 11

09:00-09:30 am	Registration
09:30-10:30 am	Ice Breaker & Light Breakfast
10:30-11:00 am	Welcome
11:00-12:00 pm	Fresno State Citrus Packaging Lab Tour
12:15-01:15 pm	Lunch
01:15-02:00 pm	Fresno State Center for Irrigation Tech Tour
02:00-06:00 pm	Industry Tours (WiseConn USA & Verwey Dairy)
06:00-08:00 pm	Engineering Competition and Dinner

Sunday, February 12

09:00-11:00 pm	Career Panel
11:00-03:00 pm	Break
03:30-03:30 pm	Optional: Networking with AETC Attendees
03:30-08:00 pm	Optional: AETC Super Bowl Mixer (Add'l

2023 Officer Nominees: Executive Committee



EXECUTIVE COMMITTEE

Chair Steve Zicari, PhD *California Safe Soils, CTO*



Vice Chair Catelyn Bridges *UCD Horticulture/Agronomy*



Treasurer Mohammad Sadek, PhD *CalPoly SLO BRAE, Faculty*

Secretary Charles Hillyer, PhD *CSU Fresno CIT, Director*

Past Chair Hossein Edalati, MS *UC Davis BAE Dept.*



STANDING COMMITTEE

Membership Kristen Perano, PhD *USDA NRCS, Engineer*

Program Carolyn M. Jones, PE *USDA NRCS, Bay/Delta Team Engr*

Public Relations Joseph Sexson *USDA NRCS*

Student-Industry Yike Chen, PhD *Codexis*

Career Development Jose Amezcua



School Reports



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Career & Technical Programs

AHPS 251
(530) 895-2531

Agriculture Department Office

AHPS 251
(530) 895-2551

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Mechanized Ag **About the Program**

The Mechanized Agriculture program offers students an option to earn either a one-year Certificate of Achievement or an Associate in Sciences Degree. An exciting, hands-on approach introduces students to a wide range of mechanical skills dealing with the operation, maintenance and repair of small to midsize gasoline, diesel and electrically-operated equipment. Problem solving, emphasizing safe and cooperative work habits, is encouraged. Success in this program will be enhanced by high school work in shop and basic skills classes.

Career Opportunities

Wherever power equipment is operated, maintained, or repaired, there exists a need for well-trained employees. Production agriculture and its equipment suppliers, the rental industry, landscape businesses, recreation and construction industries are just a few of the employment possibilities. Upon completion of the Associate in Sciences Degree, students may transfer to one of the California state universities which offer a Bachelor's Degree in Mechanized Agriculture.

[Course Requirements for Associate of Science Degree and Certificate of Achievement in Mechanized Agriculture.](#)

Contact Information:

Bruce Enyeart, Advisor
Agriculture
530-895-2418

enyeartbr@butte.edu

Department Office: AHPS 251
Department Phone: 530-895-2551
Department Fax: 530-895-2443

For more information on recommended sequence of study and required courses for the major, view the Butte College Catalog.

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Department Overview

BioResource & Agricultural Engineering Department

Programs

Undergraduate
Majors

Undergraduate
Minors

M.S. Graduate
Programs

[Agricultural Systems Mgmt \(ASM\)](#)

[Geographic Information
Systems \(GIS\)](#)

[M.S. Water Engineering](#)

[BioResource & Agricultural Engr.
\(BRAE\)](#)

[Water Science](#)

[M.S. Agriculture, Specialization in
Irrigation](#)

[M.S. Ag., Spec. in Ag Engineering
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PHYSICS AND ENGINEERING



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Move ahead.

This is an exciting time to study Physics and Engineering at CSU Bakersfield! Students will utilize our new state-of-the-art 5,000 square foot engineering facilities and physics laboratories. The programs include a strong foundation in physics and engineering. You will also be able to take elective courses from many areas, such as physics, energy engineering, power engineering, petroleum engineering, biosystems & agricultural engineering, electrical engineering, and computer engineering.

At CSUB, students enjoy exceptional opportunities to work closely with faculty.

Department of Physics and Engineering

California State University, Bakersfield
 9001 Stockdale Highway
 Bakersfield, CA 93311-1022

Phone: (661) 654-2664
 Fax: (661) 654-6960
 Email: physics@csub.edu
 Office: Science III, Room 308



Agricultural Systems Management Major Option in Industrial Technology Jordan College of Agricultural Sciences and Technology

Department of Industrial Technology

JORDAN COLLEGE OF AGRICULTURAL SCIENCES & TECHNOLOGY

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GIVING

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Welcome to the Department of Industrial Technology!



Students use GPS equipment as part of a precision agriculture course in the campus vineyard.



Fresno State Update



TREE NUT PROCESSING COURSE LABORATORY

Construction is nearing completion at California State University, Fresno for the Tree Nut Processing Lab. This lab & lecture structured course will provide students with an in-depth look at various equipment, technologies and programs that assist tree nut hulling, shelling and processing operations throughout the season. Thanks to generous support from Western Ag Processors Association Board Member, Dan Pronsolino (Dunnigan Hills Hulling & Shelling), Gary Dunn (Wonderful Pistachios); Tomra, Nolin, Forsberg, Wonderful, Cortina Hulling and Shelling, and Capay Canyon Ranch for their equipment donations; and appreciation to Excelsior Construction and JTI for their installation expertise.



Fresno State Update

DESIGN SCIENCE MIDDLE COLLEGE HIGH SCHOOL, FRESNO, CA MADERA COMMUNITY COLLEGE, MADERA CA

120 students were hosted for a tour of the department & laboratory facilities

FRESNO STATE ROBOTICS CLUB

Students are actively participating in club activities

FUTURE FARMERS OF AMERICA, FFA STATE FINALS

Students are actively planning to run the FFA Computer Applications contest – Application Problem, Written and Oral sub-contest for students from all around the state on Apr 9th 2022 at Fresno State

AGRICULTURAL SYSTEMS & TECHNOLOGY CLUB

Ag Systems Management major students are working on officially establishing a new club.

BIOLOGICAL AND AGRICULTURAL ENGINEERING

COLLEGE OF ENGINEERING

COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

UC DAVIS

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Mission

The mission of the Department of Biological and Agricultural Engineering is to discover, develop, apply, and disseminate knowledge for the sustainable production, management, and use of biological materials, and to educate students for this work.

KEY AREAS OF EXCELLENCE

1

BIOTECHNICAL ENGINEERING

2

AGRICULTURAL & NATURAL RESOURCES ENGINEERING

3

FOOD ENGINEERING



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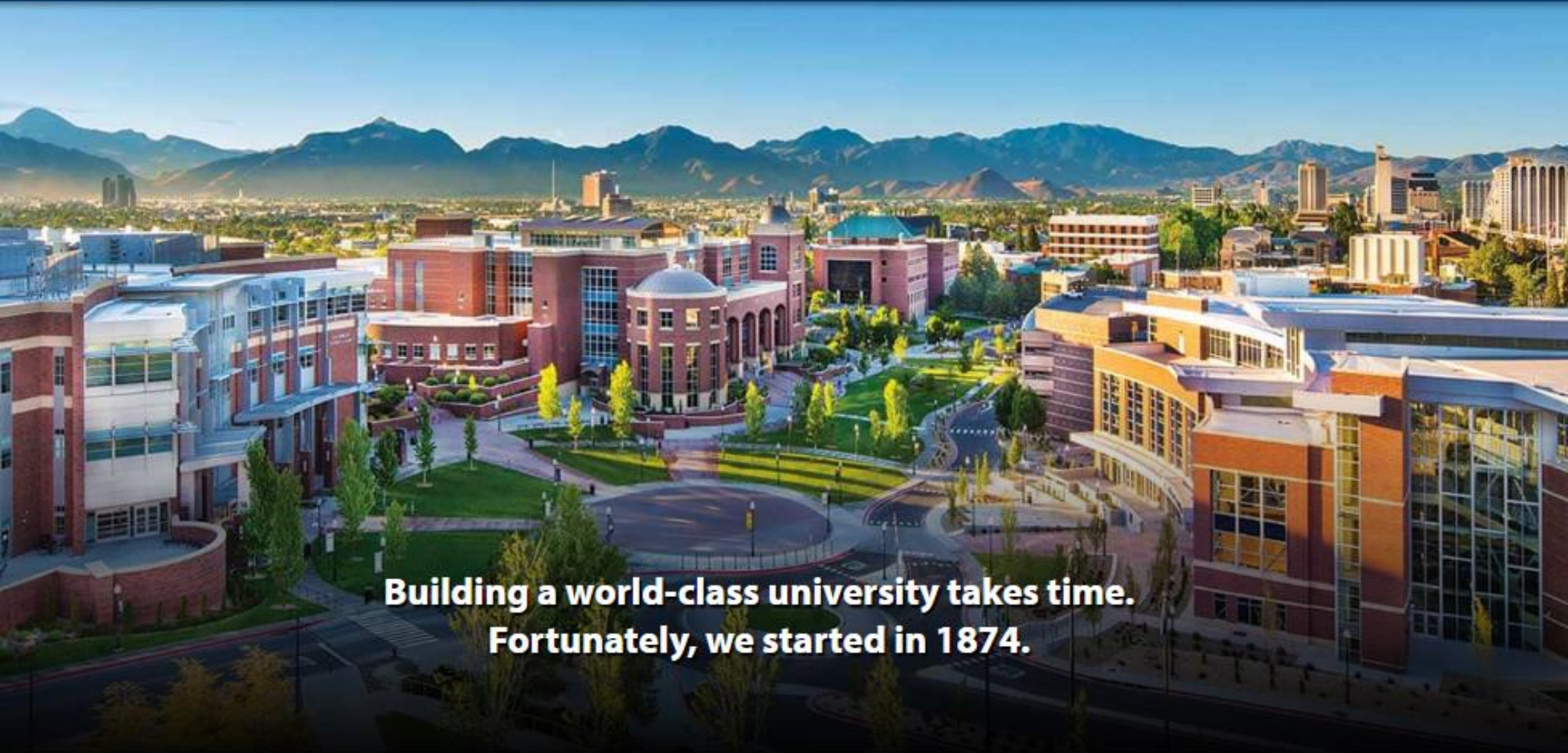
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**Building a world-class university takes time.
Fortunately, we started in 1874.**

**THE UNIVERSITY OF NEVADA, RENO
GOES WHERE KNOWLEDGE LEADS.**

Awards

1. **Poster Competition Winners**
2. Years of Membership Milestones
3. CA/NV Section Engineer of the Year Award

Poster Competition Winners

Undergraduate

1st Place Brandon Munoz.

2nd Place - Ryan Machado.

3rd Place - Troy Thornton,

Graduate Student

1st Place -Ali D. et al

2nd Place

3rd Place

Awards

1. Poster Competition Winners
2. Years of Membership Milestones
3. CA/NV Section Engineer of the Year Award

Years of Membership Milestones

25 Years – Muluneh Sime

25 Years – John Schaap

25 Years – Duane L. Needham

40 Years – Steven J. Allison

50 Years – Douglas W. Williams

50 Years – Eugene B. Nebeker

50 Years – Jimmie L. Gartung

50 Years – Stephen C. Ebe

60 Years – Edgar J. Carnegie

Awards

Engineer of the Year Award



Dr. Livingston is the BRAE Department Head. He came to Cal Poly from University of Arizona, Tucson, where he was Associate Professor of Practice in the Agricultural and Biosystem Engineering Department. Peter has more than 35 years of professional experience in agricultural and water resources engineering, as well as natural resources planning. He earned all his degrees in Agricultural Engineering: B.S. from University of Arizona, M.S. from Colorado State University, and Ph.D. from University of Arizona.

Dr. Livingston has worked for a large international consulting firm, an Indian Nation, and started two firms; left the first to finish his Ph.D. and started Bosque Engineering to use his experience in agricultural design. He brings experience in attracting industry projects/funds to, as well as mentoring, Senior Design Projects. He also has experience securing USDA grants for research and inter department and university research experience, looking forward to working with centers and departments on campus and with other universities.

Dr. Livingston is a commissioner for ABET, the accrediting entity for engineering programs in the US. With his wife, Sue, they have been raising various exotic animals and brought the alpacas to CA.

2022 Sponsors



Carolyn M. Jones



Dr. Charles Hillyer



ASABE Update



**ASABE President:
Keith Tinsey**

Keith Tinsey facilitates production and customer supply for seed, chip and processing potatoes. He has a broad background in applied engineering for farming and agricultural systems. Tinsey is recognized for his expertise in harvest and post-harvest handling, storing, shipping, transportation and utilization of potatoes. Tinsey's success and career enjoyment has been heightened by his passion for the human elements that drive individual and team success in organizational cultures.

Tinsey is incredibly grateful to ASABE colleagues and mentors for his successes. This drives Tinsey's passion to give back and help the personal and career development of students and young professionals.

An ASABE member since 1987, Tinsey has served on multiple committees and in leadership roles, including the Michigan Section, the Board of Trustees, the ASABE Foundation, the Professional Engineers Institute, and as Director of Standards. He is a member of the 2022 class of Fellows.

ASABE AETC 2023 Update

2023 AETC Planning Committee Chair: Austin Roepke

KEYNOTE SPEECH:

SmartProbe technology for early detection of insect infestation and environmental monitoring in agricultural and food products



Professor Zhongli Pan,
UC Davis BAE Dept.

Dr. Zhongli Pan is an Adjunct Professor in the Department of Biological and Agricultural Engineering, University of California, Davis, and CEO and Founder of AiVision Foods Inc.. Besides working at UC Davis, he also worked at USDA ARS Western Regional Research Center in Albany and Archer Daniels Midland Co. He is Fellow of American Society of Agricultural and Biological Engineers (ASABE) and Fellow of Institute of Food Technologists (IFT). Dr. Pan is a leading expert in the field of food and agricultural product processing engineering with more than 30 years of distinguished service in government, academia, and industry. He received multiple prestigious awards, including International Food Engineering Award – ASABE, IFT Research and Development Award, Presidential Early Career Award for Scientists and Engineers and Award for Outstanding Commercialization Success - Federal Laboratory Consortium (Far West). Dr. Pan recently founded AiVision Foods Inc. for commercializing a Smart-Probe technology for early detection of pest insects and monitoring of environmental conditions in agricultural and food products. The Smart-Probe technology received the AE50 Outstanding Innovations Award from ASABE in 2022.

KEYNOTE SPEECH:

SmartProbe technology for early detection of insect infestation and environmental monitoring in agricultural and food products



Professor Zhongli Pan,
UC Davis BAE Dept.

Closing Comments

Let's keep this momentum going!

If you have comments or ideas for the Section, please contact the Section Chair.

New Officers

Welcome to the Officer Team!

Please send your contact information to the Section Chair.

Schools

Make sure the contact information we have for your faculty and student representatives are up to date. Contact the Section Chair to make any edits.

If you have ideas for tours near the Anaheim/Fullerton area for the 2024 International Student Rally, contact Peter Livingston (paliving@calpoly.edu).

Thank you for coming!

ASABE

