

**2020 ASABE CA/NV  
Section Meeting**

**ASABE**

**Southern California Edison  
Energy Education Center**

**2/20/2020**

**Tulare, CA**



# Meeting Agenda

5:00 PM Welcome / Poster Competition

6:00 PM Dinner

6:15 PM Business Meeting

Section Report: Membership and Treasurer

Student Rally Update

Officer Elections

School Reports

Awards: Poster, Anniversary, EOY

Sponsors

7:00 PM ASABE Update: Maury Salz (Past President)

7:20 PM Keynote: Dr. Nadia Sabeh (Dr. Greenhouse Inc.)

8:10 PM Closing Comments

8:15 PM Adjourn

# Photo Slideshow

<https://photos.app.goo.gl/am1kqN7KLgs5Kqnj8>

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# 2019 Activities

## What was good?

2019-Feb	2019 Annual Meeting
March	ASABE Initiative Fund Rally Proposal
May	ASABE Funding Approved
July	Annual section luncheon at AIM 2019 AIM: 60 CANV pptts by 45 ppl 2018 AIM: 44 CANV pptts by 26 ppl
May-Dec	Inaugural Student Rally Planning 18 online meetings, several in person
2020 Jan	Inaugural ASABE CA/NV Student Rally

# 2019 Activities

## What can be better?

- Bimonthly Section updates
- Communication (website)
- Connecting employers and students
- Membership activity has been great, but there is still room for improvement

# Section Updates

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



## ARCHIVES

### [2020 Section Meeting \(2/12/2020\) Announcement](#)

- Meeting Minutes (to be posted)
- Photos (to be posted)
- [Membership-Treasurer Reports](#)

### [CANV Student Rally Bylaws – Adopted January 19th, 2020](#)

### [CANV Student Rally Initiative Fund Proposal – Granted May, 2020](#)

### [2019 Section Meeting \(2/13/2019\) Announcement](#)

- [Meeting Minutes](#)
- [Photos](#)
- [Treasurer's Report](#)
- [Membership Report](#)

<https://asabecanv.org>

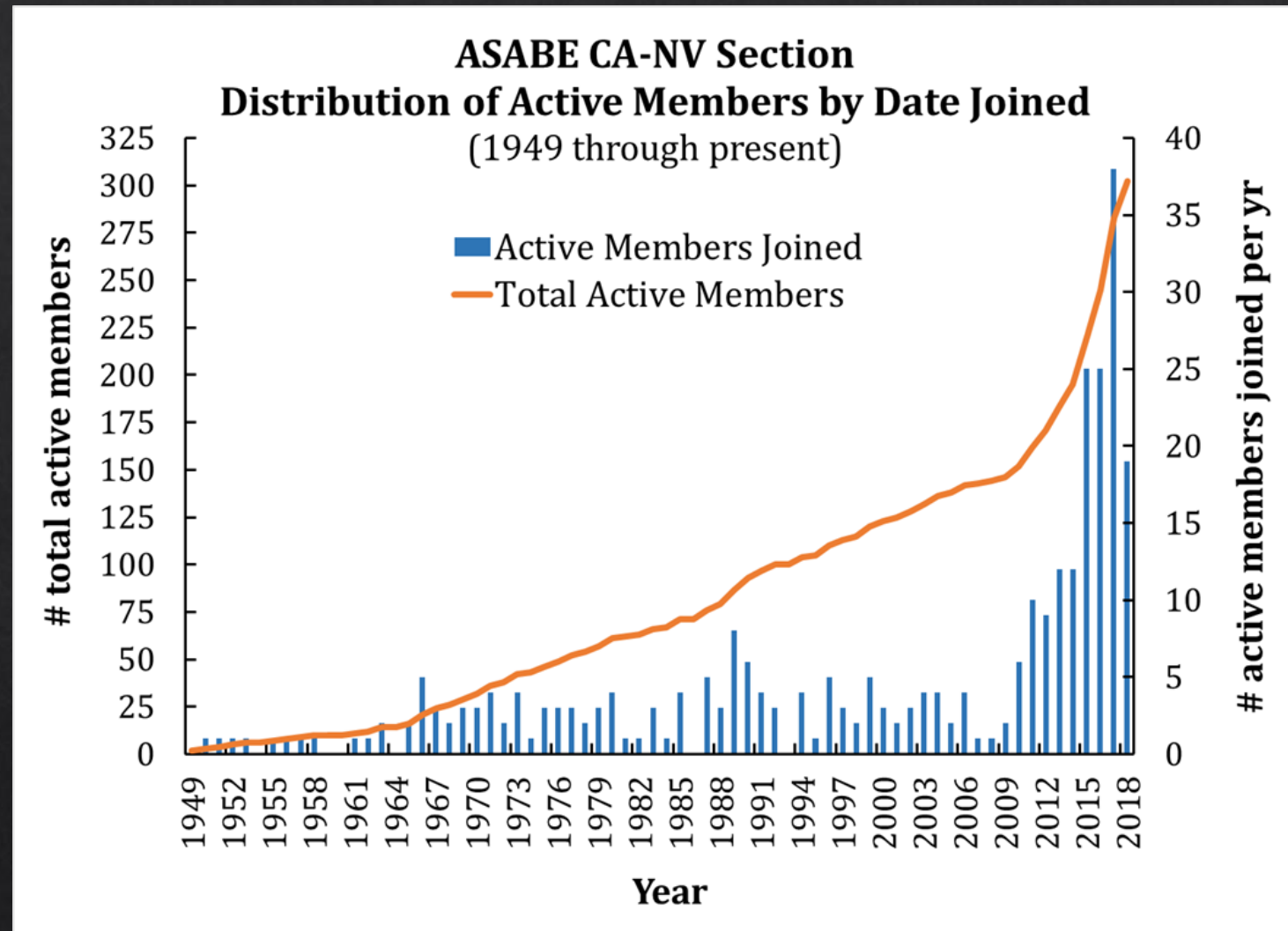


# 2019 Update: Membership

**Gold line:**  
Total membership

**Blue bars:**  
# of presently active members joined in each year

- 302 members as of 1/30/20
- 19 new 1/2020 vs 2 in 1/2019



- 19 new student members + 1 new professional member (Rally)

# 2019 Update: Treasurer

## ASABE CA/NV Section 2019 Financials

Starting balance	1/16/2019	<b>\$ 5,449.57</b>
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### Expenditures

Withdrawal: Petty Cash (at door for registration)		<b>\$ 300.00</b>	2/7/2020
Poster Awards		<b>\$ 650.00</b>	2/14/2019
Catering, Ruiz Catering		<b>\$ 1,868.40</b>	4/1/2019
Meeting venue & equipment - Edison AgTAC		<b>\$ 675.00</b>	3/11/2019

\$3,493.40 Total Exp.

### Receipts

Deposit: Petty Cash (from change @ door registration)		<b>\$ 300.00</b>	2/14/2019
2019 meeting registration	cash + other	<b>\$ 1,024.80</b>	2/12/2019
2019 meeting registration	checks	<b>\$ 696.00</b>	2/12/2019
ASABE Sectional funds		<b>\$ 223.00</b>	1/22/2019
2019 Sponsorships		<b>\$ 1,690.00</b>	2/30/2019

\$3,779.80 Total Recpt.

Ending Balance	2/11/2020	<b>\$ 5,317.17</b>
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# Student Rally Update



# Student Rally Programming

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



**ASABE CALIFORNIA / NEVADA section**  
American Society of Agricultural and Biological Engineers

**Student Rally Program and Information:**

- [Student Rally Program](#) with Bios and Maps
- [Key Contacts and Addresses](#)
- [Welcome letter](#) from UC Davis Bio & Agricultural Engineering Department, Distinguished Professor and Chair, Dr. Bryan Jenkins
- [Rally Bylaws](#) (Adopted 1-19-2020)
- [Rally Officers](#): description, 2020 interim team, 2021 elected team
- Business Meeting Minutes
  - Sat, 1/18/2020 (to be posted)
  - Sun, 1/19/2020 (to be posted)
- Participants:
  - [Students](#)
  - [School Speakers and Volunteers](#)
  - [Industry Speakers and Sponsors](#)
- [Restaurant Recommendations in Davis, CA](#)
- [Benefits of ASABE Membership](#)
- [Sponsors List and Information](#)
- [Photos](#)

<https://asabecanv.org>

# Inaugural ASABE CA/NV Section Student Rally

- **January 17-20, 2020**

- **Student Attendance** – 48

- 7 Cal Poly SLO
- 1 CSU Fresno
- 10 Modesto JC
- 23 UC Davis
- 6 UC Merced
- 1 UNevada Reno

- **Budget**

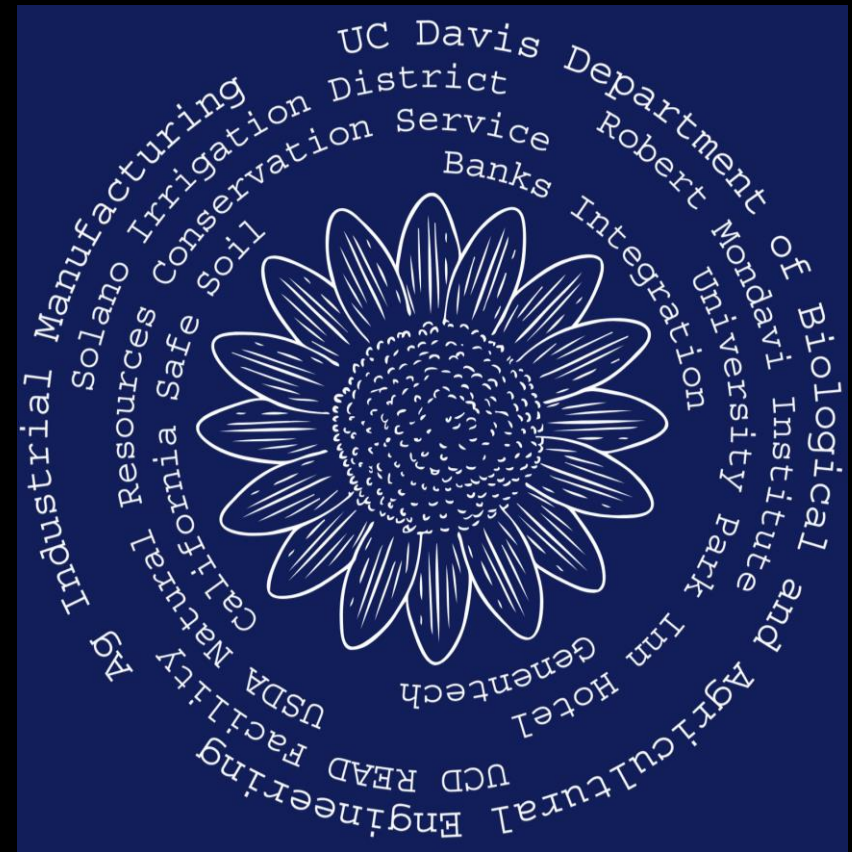
- \$20k Year 1 ASABE Initiative Fund
  - \$7,894 expenses, \$6,130 income (not including ASABE Funds)
  - ASABE CA/NV Goal: 50% Sponsorship  
Actual = **80% Sponsorship**
- \$10k Year 2 ASABE Initiative Fund

- **2019-2020 Leadership**

- Past President – n/a
- President – Tyler Barzee, UCD
- Vice President – Ferisca Putri, UCD
- Secretary – Israel Lemus, UCM
- Treasurer – Lucy Knowles, UCD
- Parliamentarian – Andrew Skidmore, CSUF
- Regional Advisor – Bryan Jenkins, UCD

- **2020-2021 Leadership**

- Past President – Tyler Barzee, UCD
- President – Jose Amezcua, Cal Poly
- Vice President – Taylor Hunt, MJC
- Secretary – Brandon Salazar, UCM
- Treasurer – Luis Villanueva, Cal Poly
- Parliamentarian – Michael Souza, UCM
- Regional Advisor – Peter Livingston, Cal Poly





**UC Davis Tours – Renewable Energy Anaerobic Digester, Robert Mondavi Institute, Food Engineering Lab, etc.**



**Order of the Engineer Ceremony  
YPC Licensure Presentation**



**Student Design Competition**



**ASABE CA/NV Section  
Inaugural Student Rally**

**UCD**  
UC Davis 2020



**CA Safe Soils, Ag Industrial Mfg, & San Joaquin County Museum Tours**



**Career Panel,  
Business Meetings, and Election**



**Social Activities**



**Career Presentations**



# Thank you to our 2020 Sponsors

## Platinum Sponsors



## Silver Sponsors



Carolyn Jones, PE

Paul Burkner

## Bronze Sponsors

University Park  
Inn and Suites

## School Sponsors





# Second Annual ASABE CA/NV Student Rally



CAL POLY

VISIT

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VISIT



Tulare, CA 02/12/2020

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# Officer Nomination Slate

## Past Chair – Hossein Edalati, UC Davis Grad Student

"I have enjoyed being involved in the Section for 5-6 years. It has been an opportunity to get involved in rewarding and exciting leadership and in Bio and Ag Engineering outside of work and studies. There are limitless possibilities to grow the section and increasing awareness of our field. ASABE can provide something for everyone: helping young Bio & Ag Engineers find their footing; providing Professionals with access to technical information, career development, and young, employable talent; or opportunities for seasoned members to give back. I look forward to serving as Past Chair."

## Chair – Lynn Groundwater, PE, Provost & Pritchard Consulting Group Engineer

"Being a member of ASABE since college, I only recently got engaged after I obtained my Ag PE license. I was excited to be Vice Chair this past year to learn more about ASABE and the CA/NV section. During my time as Vice Chair, I helped plan the first student rally for the CA/NV section that promoted ASABE to students but also provided an opportunity for networking among students and professionals. I hope to see involvement in the Section continue to grow through student rallies and the Annual International Meeting in Anaheim in 2021. I want, and would be honored, to be Chair this next year to continue to promote ASABE CA/NV among students and professionals."

## Vice Chair – Tyler Barzee, UC Davis PhD Candidate

"As a section officer for the 2 years, I have worked to increase engagement and reach of the section. In addition to my duties as Public Relations (2018) and Membership Chairs (2019), I played an important role in the conception and development of the ASABE CA/NV Student Rally. Two years ago, I brought the idea to the officers and co-led the preparation of a \$30k ASABE Initiative Fund Proposal funded by the Board. I chaired several Rally Planning Subcommittees and served as Student Rally Executive Committee Interim President, now serving as Past President. Our Inaugural Rally engaged students from across the section, operating under-budget, at a memorable and historic event. Based on my past section experiences, I have the experience and vision to excel as Vice Chair and am glad to continue working with the team to expand the section's reach and enthusiasm in the coming year."

## Secretary – Charles Hillyer, PhD, CSU Fresno Center for Irrigation Tech Director

"I'm very glad to volunteer for the Secretary position. I've been involved in ASABE at the national level in various irrigation technical committees and in similar committees in EWRI, AgGateway, and the Irrigation Association. Serving as Secretary will be an opportunity to contribute to the Ag Engineering profession and meet CA/NV section members."

## Treasurer – Bo Liu, PhD, Cal Poly SLO Faculty

## Membership Chair – Julie Meyers, Davids Engineering Engineer

"I'm interested in being the Membership Chair next year because I'd like to support the section by helping to inform and engage new members. I went to part of the inaugural student rally and thought it was a great success, so I would like to help make sure members are aware of their membership status and section events they can attend so that future events like this are just as successful. As I have only recently started attending section events, I think this would be a great opportunity for me to get more involved."

## Program Chair – Mohammed Sadek, PhD, Cal Poly SLO Faculty

## Public Relations Chair – Irwin Donis-Gonzalez, PhD, UC Davis Faculty

## Career Dev. Chair – Carolyn Jones, PE, USDA NRCS Bay/Delta Team Engineer

"Having been involved in Section leadership since 2001, I'm glad to continue growing Section enthusiasm, momentum, and participation while assisting members with career exploration and development in Ag and Bio Engineering."

## Awards Chair – Sushant Mehan, PhD, Formation Environmental Engineer

"Dr. Mehan has served as a chair and co-chair at state science fairs as well as ASABE, ASA-SSSA-CSA, and AGU student competitions. His experience forming fair competition rules, holding smooth events without bias, and soliciting feedback from teams is admired by participants and peers. As Awards Chair, he plans to tap innovation and hidden potential of competitors which makes for great competitions that gain attention of stakeholders and participant confidence."

## Student/Industry Liaison – Steve Zicari, PE, CA Safe Soils Dir. Engg & R&D

"I welcome the opportunity to serve as the Student/Industry Chair in 2020. As a practicing Professional Engineer in Ag and Bio Engineering, I would like to support our student-members and -chapters to grow their access to industry by arranging on-campus speaker presentations, industry tours, and networking events. Local industries and employers can benefit greatly from interaction with our students. The inaugural Student Rally was a huge success and I look forward to working with the next Rally Planning Committee to maximize opportunities for future student/industry participation."



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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](mailto: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.

## Advanced Technology at Alisal Campus

Advanced Transportation

Agriculture Business  
Technology

Agriculture and Industrial  
Technology

Construction & Architecture

Drafting Technology

Welding Technology

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## Manufacturing Technology

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- Industrial Safety
- Fabrication
- Hydraulics
- Pneumatics
- Industrial Electricity
- Basic Machining
- Blue Print Reading

Faculty:  
Albert Graham  
[agraham@hartnell.edu](mailto:agraham@hartnell.edu)

SPRING SEMESTER  
1/16/18-5/26/18

Section Title	Section	Days Met	Start Time	End Time	Instructor
Intro: Industrial Electricity	HFGT-150-7087	M	6 PM	8:50 PM	Ranter
Intro to Industrial Hydraulics	HFGT-150-7088	W	6 PM	8:50 PM	Graham III
Industrial Workplace Agriculture	HFGT-180-7117	W	5 PM	5:50 PM	Graham III
Intro to Mechanized Agriculture	HFGT-70-7089	TH	10 AM	2:50 PM	Graham III
Intro to Metal Fabrication	AIT-130-7116	TTH	5 PM	7:50 PM	Graham III



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### BioResource & Agricultural Engineering Department

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Majors

Undergraduate  
Minors

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Programs

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

[M.S. Water Engineering](#)

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

[Water Science](#)

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

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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](mailto:physics@csub.edu)  
 Office: Science III, Room 308



# Department of Industrial Technology

JORDAN COLLEGE OF AGRICULTURAL SCIENCES & TECHNOLOGY

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## About Us



Industrial Technology (IT) is a field of study designed to prepare technical and/or management oriented professionals for employment in business, industry, education, and government. Industrial Technology is primarily involved with the management, operation, and maintenance of complex technological systems.

Typically, the graduate finds employment as a Manufacturing Engineer, Process Engineer, Production Supervisor, Quality Systems Engineer, Technical Specialist, and Plant Manager. Positions in Industrial and technical sales, design and testing also offer the graduate abundant opportunities.

The faculty of the Department of Industrial Technology enthusiastically lend their expertise and considerable personal experience in their respective fields to assure individual student master of courses and area concentration. "Hands-on" lab participation in most Industrial Technology courses, too, is incorporated in the curriculum to promote rapid student mastery of subjects. It is a team-work approach between faculty and students that ultimately enables the I.T. graduate to emerge with the skill and confidence required for supervisory positions in industry.

Mailing Address:  
 2255 East Barstow Avenue,  
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# Mechanized Agriculture

Modesto Junior College Mechanized Agriculture is dedicated to the success of all students, whether that success comes in the form of skills to assist with career placement or meeting educational needs of students that are in pursuit of further education and advanced degrees. Modesto Junior College believes that all students have the potential for success.

Located in the heart of California's Central Valley, Modesto Junior College has the opportunity to bring real world agriculture situations into the classroom on a daily basis. We pride ourselves on developing leaders for the agriculture industry and look forward to serving community needs for years to come.

*Faculty Advisor:*  
**Steve Amador**  
 (209) 575-6215  
[amadors@mjc.edu](mailto:amadors@mjc.edu)

*I am...*  
**a Mechanic**  
**a Caffeine Fanatic**  
**a future Agriculture Teacher**



*I am MJC.*

# BIOLOGICAL AND AGRICULTURAL ENGINEERING

COLLEGE OF ENGINEERING

COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

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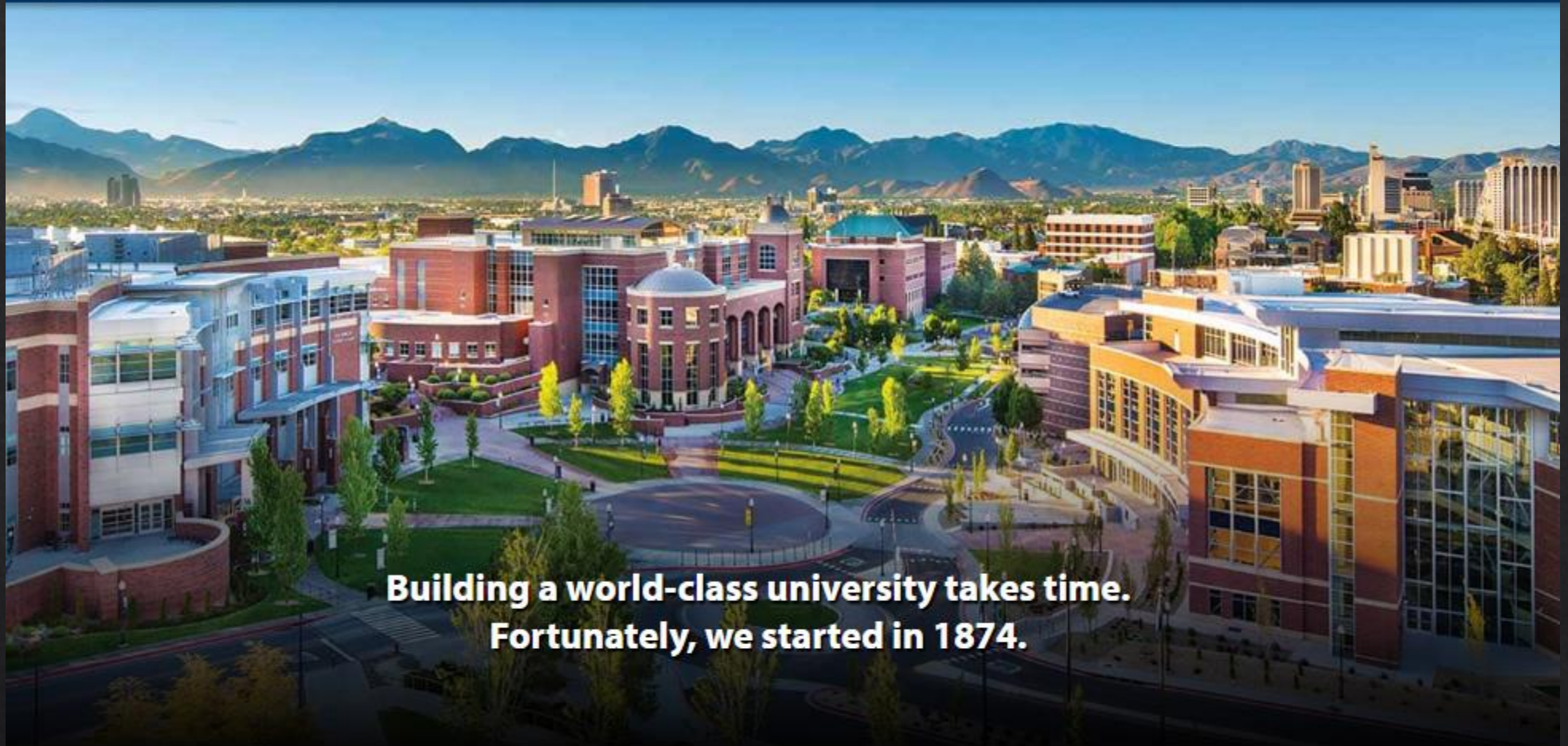
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**Building a world-class university takes time.  
Fortunately, we started in 1874.**

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

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# Awards

1. Poster Competition Winners
2. Anniversary Milestones
3. Engineer of the Year Award

## Poster Competition Winners

### Undergraduate

#### 1st: Emma Gray (Cal Poly SLO)

*U1: Operation of Pressure Relief & Surge Control Valves Related to Water Hammer*

#### 2nd: Gracely Speth (Cal Poly SLO)

*U9: Variable Frequency Drives for Pump Controls*

### Graduate Student

#### 1st: Aldo Garcia (Fresno State)

*G5: Optimizing Water and Nitrogen Use Efficiency in Processing Tomatoes*

#### 2nd: Hossein Edalati (UCD)

*G3: Impact of Weeping Wall on Mitigation of CH<sub>4</sub> Emissions from a Dairy Lagoon*

# Awards

1. Poster Competition Winners
2. Anniversary Milestones
3. Engineer of the Year Award

## Anniversary Milestones

### 40 Year

Durham K. Giles

Raymond Marala

Shrinivasa K Upadhayaya

### 50 Year

Reid Borgwardt

Benjamin R. Olson

Vashek Cervinka

**61 Years** – Donaldson S. Taylor

**63 Years** – William R. DeTar

**63 Years** – John C. Siemens

**66 Years** – Bill a Stout

**68 Years** – Wiley H. Henson, Jr.

**69 Years** – John R. Goss

**71 Years** – Wesley E. Yates



# Awards

1. Poster Competition Winners
2. Anniversary Milestones
3. Engineer of the Year Award

## Engineer of the Year Award

Paul F. Burkner, PE

VP and Founder  
Ag Industrial Manufacturing, Inc.  
Board of Trustee, ASABE



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# 2019 Sponsors



Carolyn Jones, PE  
Paul Burkner, PE  
University Park Inn  
and Suites



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# ASABE Update

## Biography

Maury Salz is the president of CLAAS Omaha, Inc., the manufacturer of the LEXION combine and headers for North America located in Omaha, NE.

He has worked for CLAAS 18 years and responsible for CLAAS' NA Production Operations which include R&D, Purchasing, Quality, Logistics and Manufacturing.

Maury is also the current Past President for the American Society of Agricultural and Biological Engineers.

Maury grew up on a family farm in Northwest Iowa and still participates with his family in its corn and soybean farming operations. He graduated from Iowa State University with a Bachelor's Degree in Agricultural Engineering and has an MBA from St. Ambrose University.



**Maury Salz**  
**ASABE Past President**

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# Keynote Speech

## Indoor Farming: A field of opportunity

**By Dr. Nadia Sabeh**

President and Founder

Dr. Greenhouse Inc.



When Dr. Nadia Sabeh was a high school senior, she took physics to get out of school early.

Then she discovered Biosystems Engineering at UC Davis and was soon enraptured by agriculture, mushroom farming, greenhouses, and HVAC. Today she's recognized as a world-renowned expert and leader in her field, as she helps indoor farmers grow plants locally and precisely in a controlled environment. She'll share her story and hopefully, inspire others to help farmers face the challenges of feeding 9 Billion.

# Meeting Agenda

- 5:00 PM Welcome / Poster Competition
- 6:00 PM Dinner
- 6:15 PM Business Meeting
  - Section Report: Membership and Treasurer
  - Student Rally Update
  - Officer Elections
  - School Reports
  - Awards: Poster, Anniversary, EOY
  - Sponsors
- 7:00 PM ASABE Update: Maury Salz (Past President)
- 7:20 PM Keynote: Dr. Nadia Sabeih (Dr. Greenhouse Inc.)
- 8:10 PM Closing Comments
- 8:15 PM Adjourn



# Closing Comments

## Let's keep the momentum going.

If you have comments or ideas for the Section, please see the Section Chair before leaving.

## New officers

Stay after to exchange information and for a group photo

## Schools

Stay and check to make sure the contact info we have for you faculty and student representatives are up to date.

**Thank you for coming!**

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