

# **UTA SUSTAINABILITY COMMITTEE**

Fall 2022

# AGENDA

Office of International Education Programs – 10 minutes

Eco Mavs: Student Outreach and Education - 10 minutes

College of Engineering Programs: Integrating Sustainability into  
Research and Academics – 10 minutes

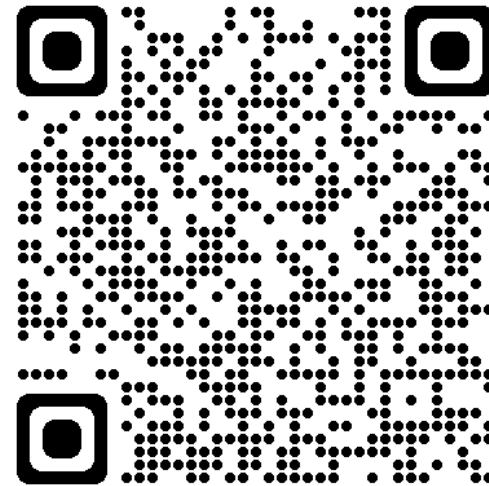
Subcommittee Updates – 15 minutes

- Education, Communication, and Outreach
- Operations
- Academics

Sustainability Committee Performance Exercise – 15 minutes

# ATTENDANCE

Please **bold** your name on the Meeting Agenda to mark yourself as present at this meeting

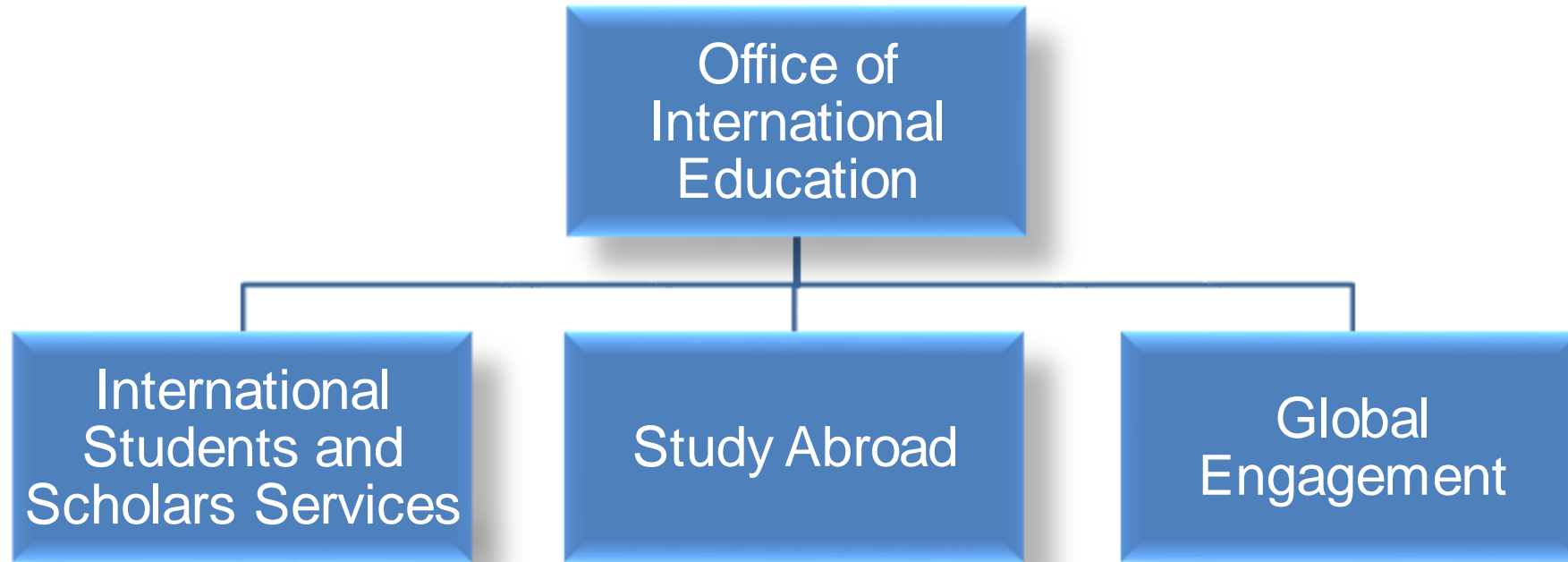


# Office of International Education

Jay Horn  
Executive Director

November 2022

# OIE Departments



# Our Mission

OIE's overarching goal is to promote and support internationalization efforts at UTA through:

- Providing quality on-campus programs that foster global perspectives, cross-cultural competence, and an appreciation for diversity, equity, and inclusion.
- Supporting UTA international students & scholars with services that enhance the quality of their intercultural experience and contribute to their academic success.
- Promoting and supporting transformative study abroad experiences that develop intercultural competence and globally-relevant leadership skills.

# International Student & Scholar Services



- In-person and virtual advising 5 days a week for 7,712 international students (5,411 campus)
- Educate students on immigration rights and responsibilities
- Processing immigration benefits
- Providing advising for up to 3 years after graduation
- Providing short-term personal counseling and referrals to on-campus services

# Global Engagement

- Intercultural program that connect our diverse US an international students
- Over 6,406 trainings and assessments that enhance cultural learning since Fall 2018.
- On going transition and support services for international students
- Global education opportunities





# UTA Study Abroad



- Provide specific academic and cultural program information to advise and support students before, during, and after program abroad
- 105 UTA students studied abroad AY 21-22
  - 70% students of color
  - 45% first-generation college
  - 23% report physical/mental health disability
  - 13% are veteran/military-connected
- Over 500 programs in 62 countries available
  - Students participated in 36 programs in 15 countries
- Top countries: South Korea, United Kingdom, Spain/Germany, and Italy
- Top colleges: CAPP, Business, Liberal Arts

# International Initiatives

- Develop initiatives to increase UTA's internationalization.
- Host int'l dignitaries and senior leadership from int'l institutions
- Chairs committees on international initiatives and travel issues (IPWG, IOC)
- Assists in developing and reviews international agreements



# Questions

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**Contact Name(s)**

Contact Information

# Eco Mavs Outreach and Education

Office of Sustainability

The University of Texas at Arlington



# About Eco Mavs

- We are a club here at UT Arlington dedicated to learning about environmental science, and sustainability, and discovering green career opportunities!
- We work with our local communities on Conservation and Restoration projects as well as organizing and participating in clean-up events.

MEET THE officers



**AMANDA LEE**  
President

**Major:** Earth & Environmental Science  
**Year:** Senior  
**Fun Fact:** I am interested in how we can use plant genetics to combat climate change



**PARKER JONES**  
Vice President

**Major:** Earth & Environmental Science  
**Year:** Junior  
**Fun Fact:** I have completed a backpacking trip at Philmont Scout Camp

@ECOMAVS

MEET THE officers



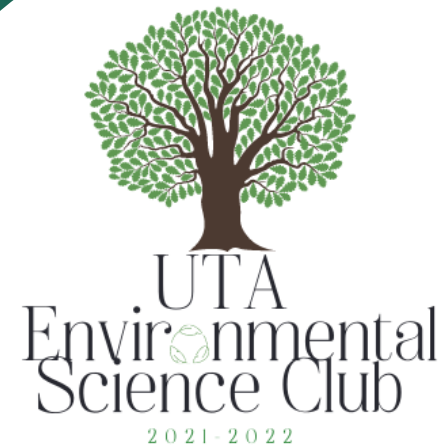
**TRISH TRAN**  
Secretary

**Major:** Earth & Environmental Science  
**Minor:** Biology  
**Year:** Senior  
**Fun Fact:** I am a proud plant parent of over 100+ houseplants



**KIT WILSON**  
Treasurer

**Major:** German and Earth & Environmental Science  
**Minor:** Biology and Modern Language Teaching  
**Year:** Senior  
**Fun Fact:** I've been on outdoor climbing



# Texas Buckeye Trail Restoration Project

- Buckeye Trail project is under the supervision of Dallas Parks & Recreation, in collaboration with North Texas Master Naturalist.
- Each year we remove Privet, an invasive species, to protect the Buckeye Trees.
- The trail runs along the Trinity River, and after we cut and remove this invasive species, the city comes in with a safe herbicide that kills the remaining privet.



# Lake Arlington Native Plant and Pollinator Garden

- Arlington Water Utilities and Tarrant Regional Water District are working with local conservation stakeholders and community groups to restore native prairie and wildflowers to 2.75 acres of land adjacent to the Lake Arlington Dam.
- The project began Spring of 2022
- Features five demonstration garden beds with native plants and a gathering area for gardening classes, field trips, and other community events.
- Goal is to learn about the versatility, beauty, and value of drought-resistant native plants.



# Fort Worth Nature Center & Refuge

- FWNC&R is a natural area comprised of forests, prairies, and wetlands that covers 3,621 acres and includes over 20 miles of hiking trails, making the park one of the largest city-owned nature centers in the United States.
- Managing the bison herd and implementing prescribed burns are two of many ways FWNC&R ensures the wildlife has a sustainable home.
- This year Eco Mavs set out to clean two bison holding pens where we applied what we've learned about invasive species as well as sustainable land management. Plus got rewarded by meeting and learning a bit about Bison!





# Upcoming Events

- Nov. 12<sup>th</sup> – Texas Buckeye Trail Restoration from 10 am - 12:30 pm.
- Nov. 12<sup>th</sup> – Lake Arlington Wildflower Meadow Seeding (Reschedule) Three 2-hour time slots between 8 am - 2 pm.





A Snapshot of a Few  
College of  
Engineering  
Sustainability  
Programs





# Engineering Design Criteria:

## Traditional:

- Cost
- Safety
- Function

## Sustainable:

The above plus:

- Impact on people (society)
- Impact on the planet (environment)





# Sustainable Engineering Minor

<https://www.uta.edu/academics/schools-colleges/engineering/academics/undergraduate/sustainable-minor>

Advisor: Dr. Arpita Bhatt

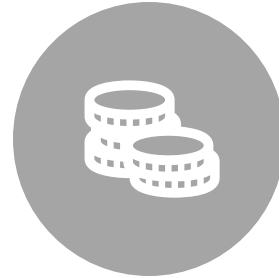




# Minor Course Requirements (6)



CORE COURSES (2)



ECONOMICS  
ELECTIVE (1)



SUSTAINABLE  
ENGINEERING  
ELECTIVES (3)

**Good news:** Most engineering students can do the minor with only 1 or 2 extra courses beyond their major



Con

# Evaluation Alternatives for Water Systems Tanzania

Presented by:

An Evaluation  
Apartment



Borehole and water meter



Solar panels and controller



Pipes used to transport water from borehole to tanks



Water tanks for storage.



# Graduate Certificate in Sustainable Engineering and Renewable Energy

- <https://www.uta.edu/academics/schools-colleges/engineering/academics/certificates/ce-sust-renew-energy>





# Research

## ENERGY MANAGEMENT AND SUSTAINABILITY

<https://www.uta.edu/academics/schools-colleges/engineering/research/energy>



## CENTER FOR ENERGY-SMART ELECTRONIC SYSTEMS (ES2)

With facilities at UTA, Binghamton University, Villanova University, and Georgia Institute of Technology, the Center for Energy-Smart Electronic Systems, a National Science Foundation Industry/University Cooperative Research Center (I/UCRC), works in partnership with government, industry and academia to develop methodologies for efficiently operating electronic systems, including data centers, by controlling resources and managing workloads to achieve optimal energy consumption.

CENTER FOR ENERGY-SMART ELECTRONIC SYSTEMS (ES2)





# Research

## **CONVERTING FOOD WASTE INTO ENERGY**

A UTA civil engineering professor is helping the North Central Texas Council of Governments determine how much more energy can be generated by diverting food waste from landfills to anaerobic food digesters.

## **DETERMINING MINIMUM ENERGY USE POSSIBLE IN LASERS**

A UTA electrical engineering is developing semiconductor laser-based optical interconnects as an energy-efficient solution for the sustainable power consumption required to keep up with explosive data traffic growth.

## **SUBCOMMITTEES' UPDATES: OUTREACH AND ENGAGEMENT**

- October was Campus Sustainability Month
- Electronic Waste Recycling Drive Coming Up

# SUBCOMMITTEES' UPDATES: OPERATIONS

- Land Acknowledgement Courtyard



# **SUBCOMMITTEES' UPDATES: ACADEMICS**

# **SUSTAINABILITY COMMITTEE EXERCISE**

**THANK YOU**