

# ESCOP Science & Technology Committee

**An overview of  
what we're working  
towards.**



Experiment Station  
Committee on Organization  
and Policy (ESCOP)







# ESCOP

## Science & Technology Committee

- **Promoting and enhancing science and technology in the Land-Grant University system.**
- **Assists ESCOP to identify future directions and anticipate and respond to research needs and opportunities for funding.**
- **Assists in linking science and technology programs to multistate and national research initiatives.**
- **Recommends how ESCOP will respond to reports, recommendations, and planning documents from the national science community.**
- **Provides guidance to ESCOP strategic planning and priority setting.**

**2022**

# ***Science Roadmap for Food & Agriculture***



**ESCOP Priority #3;  
Chair Initiatives #3,7**

**Update the National-  
Level Success Stories**

**Create consistent  
messaging on a state  
level by including  
local information**

**Incorporate hashtags  
into NIMSS to  
enhance connectivity  
and linkages to Grand  
Challenges**







# ESCOP Grand Challenges Gaps & Needs

***Interdisciplinary  
systems-level  
research***



**Evidence-based  
guidance for  
policy and  
regulation**



**Strategies for  
communicating  
information and  
sharing  
technology**







# *Enhance Collaboration Among Multi-State Committees*

ESCOP Priority #4;  
Chair Initiatives #3

**Incentivise with  
Financial Support**

**Climate Science as  
Top Priority**

ESCOP Priority #5; Chair Initiatives #6



# Climate Change

## Overlap Among Research Priorities



### GC1.) Sustainability, Competitiveness, & Profitability of Food & Ag

*Reduce carbon footprint (1,2,6)*  
*Conserve water (1,2,6)*  
*Non-chemical controls (1,6)*  
*Increase profitability (1,6)*  
Improve energy efficiency  
Enhance productivity  
Improve soil health

### GC2.) Adapting to & Mitigating the Impact of Climate Change

*Reduce greenhouse emissions (1,2,6)*  
*Improve carbon sequestration (1,2,6)*  
*Breed to tolerate water stress & extreme temperatures (1,2,6)*  
*Climate modeling & predictions (2,6)*  
*Develop decision-making tools (2,6)*  
Improve climate education  
Guide policy & cooperation  
Enhance global cooperation

### GC6.) Environmental Stewardship & Sustainable Practices

*Reduce carbon footprint (1,2,6)*  
*Manage waste & runoff (1,2,6)*  
*Reduce use of chemicals (1,6)*  
*Assess value of ecosystem services (1,6)*  
*Improve data analysis & modeling tools (2,6)*  
Reduce non-renewable inputs





# Evidence based guidance for policy and regulation.

ESCOP Priority #3,5;  
Chair Initiatives #7

**BIOPRODUCTS  
FOR ENERGY  
AND AVIATION**

**FOOD  
SUPPLY  
CHAIN**

**FOOD SECURITY  
AND FOOD  
SAFETY**

**DATA  
AND  
TECHNOLOGY**





# Strategies for communicating information and sharing technology



## COMMUNICATIONS & ADVOCACY TOOLKIT

- **Create an infographic & map of system's branch stations**
- **Incorporate updated Grand Challenges success stories**
- **Continue partnership with NIFA to support and advocate for experiment stations**
- **Bring in Caron Gala to help determine strategy**
- **Engage CMC and Andrea Putman**

**ESCOP Priority #1, 5;  
Chair Initiatives #3, 4, 5, 6, 7**





# Partnership Opportunities with ECOP & Extension



**DIVERSITY,  
EQUITY AND  
INCLUSION**

**CLIMATE  
MITIGATION,  
RESILIENCY,  
ADAPTATION**

**ECONOMIC &  
WORKFORCE  
DEVELOPMENT**

**HEALTHY &  
EQUITY &  
WELL-BEING**

**URBAN  
AGRICULTURE**

**MULTI-STATE  
COMMITTEES**

**ESCOP Priority #4;  
Chair Initiatives #1, 3, 4, 5, 6, 7**







# Include liaison from 1994's

ESCOP Priority #4;  
Chair Initiatives #1

## Explore Opportunities with NRCS

- Connections with producers
- Request a liaison

ESCOP Priority #4;  
Chair Initiatives #1, 3, 5, 7

## Create an Excellence in Research Award

- One winner per region

ESCOP Priority #4, 5;  
Chair Initiatives #4, 7







# Respond to Blue Ribbon Panel

ESCOP Priority #5;  
Chair Initiatives #3, 4, 5, 7

**Fall Listening  
Session**

**Identify  
Opportunities  
upon Release of  
the Written Report**



Be flexible and nimble to  
address emerging issues  
throughout the year.

ESCOP Priority #5;  
Chair Initiatives #3





# Thank You



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