

## 2022 ESCOP STC Work Plan Outline

### Next steps, action items and deliverables for consideration at the APLU fall meeting.

- a) Work on the gaps and needs identified in the ESCOP Grand Challenges summary sheet (*ESCOP Priority 3; Chair Initiatives #3, 7*)
  - i) Acknowledge the STC efforts and explain how the summary documents will be used
  - ii) Update the national-level success stories
    - (1) Create consistent messaging by including local information on the national flyer
  - iii) Ask the NRSP1 management committee about the possibility for the NIMSS programmers to use hashtags as a method to enhance connectivity and demonstrate the linkages regarding how the multistate committees are working on the Grand Challenges
- iv) Interdisciplinary systems-level research (ESCOP Grand Challenge Gap & Need)**
  - (1) Enhance collaboration among multi-state committees to more effectively address the ESCOP Grand Challenges (*ESCOP Priority 4; Chair Initiative #3*)
    - (a) Possible approaches to incentivize with financial support
      - (i) Regional off-the-top funding
      - (ii) ESS investment fund
      - (iii) Regional carryover funds
      - (iv) Regional/National Assessments
      - (v) Competitive Conference Grants
      - (vi) Create an Emerging Innovation NRSP
    - (b) Climate Science as a Top Priority (*ESCOP Priority 5; Chair Initiative #6*)
      - (i) Climate change in the Grand Challenges with overlap in research priorities
        - 1. Sustainability, competitiveness, & profitability of food & agriculture
          - a. Reduce the carbon footprint of agriculture
          - b. Improve the energy efficiency of agricultural systems
          - c. Enhance crop and livestock productivity
          - d. Improve soil health
          - e. Find new ways to conserve water
          - f. Develop non-chemical pest and weed control
          - g. Improve producer profitability
        - 2. Adapting to & mitigating the impacts of climate change
          - a. Reduce greenhouse gas emissions and improve carbon sequestration on agricultural lands
          - b. Collect robust data from climate modeling and predictions
          - c. Develop decision-making tools that account for variability and uncertainty
          - d. Breed crops and livestock that can tolerate water stress and extreme temperatures
          - e. Improve climate change education

- f. Guide policy and regulation and enhance global cooperation
- 3. Environmental stewardship & sustainable practices
  - a. Improve systems-level data analysis and modeling tools
  - b. Assess the value of ecosystem services
  - c. Develop plants and livestock that require fewer non-renewable inputs
  - d. Manage waste and runoff
  - e. Reduce use of chemicals that can harm environmental health
  - f. Reduce the carbon footprint of agriculture
  - (ii) Utilize results from the ESS Session on Climate Change
- (2) Respond to the Blue Ribbon Panel
  - (*ESCOP Priority 5; Chair Initiatives #3, 4, 5, 7*)
  - (i) Fall Listening Session
  - (ii) Identify opportunities upon release of the written report
- v) Evidence based guidance for policy and regulation (ESCOP Grand Challenge Gap & Need)** (*ESCOP Priority 3, 5; Chair Initiative #7*)
  - (1) The Secretary makes policy and we need science to support policy, should include information on the administration's priorities and the following areas
    - (a) Bioproducts for energy and aviation
    - (b) Food supply chain
    - (c) Food security and food safety
    - (d) Data and technology
  - (2) Convene multistate committees to help inform policy
- vi) Strategies for communicating information and sharing technology (ESCOP Grand Challenge Gap & Need)**
  - (1) Develop a communications and advocacy toolkit
    - (*ESCOP Priority 1, 5; Chair Initiatives #3, 4, 5, 6, 7*)
    - (a) Create an infographic and map of the system's branch stations
      - (i) Link to NIMSS to identify where multistate committee participants are performing their research
    - (b) Incorporate updated Grand Challenges success stories
    - (c) NIFA is supporting and promoting experiment stations/continue communications with NIFA so that the agency will be our advocate
      - (i) Involve NIFA Communicators
    - (d) Bring in Caron Gala to turn the conversation around and help determine a great strategy on how to bring these documents to life
    - (e) Engage CMC and Andrea Putman
- b) Additional work to support the 2022 ESCOP Chair
  - i) Include a liaison from the 1994s (*ESCOP Priority 4; Chair Initiative #1*)
  - ii) Partnership opportunities with ECOP and Extension
    - (*ESCOP Priority 4; Chair Initiatives #1, 3, 4, 5, 6, 7*)
    - (1) Diversity Equity and inclusion

- (2) Climate Mitigation, Resiliency, and Adaptation
- (3) Economic and Workforce Development
- (4) Healthy Equity & Well-Being
- (5) Urban Agriculture
- (6) Multi-State Committees
- iii) Explore opportunities with Robert Bonnie, NRCS  
(*ESCOPE Priority 4; Chair Initiative #1, 3, 5, 7*)
  - (1) Connections with producers
  - (2) Request a liaison
  
- c) Development of a faculty research award  
(*ESCOPE Priority 4, 5; Chair Initiatives #4,7*)
  - i) One winner per region
    - (1) Regions provide AAAS membership
    - (2) Monetary Award for each regional winner
      - (a) \$1,000/awardee?
        - (i) To be paid from ESS
        - (ii) Include with the NIFA grant that supports teaching and Extension awards
  
- d) Be flexible and nimble to address emerging issues throughout the year  
(*ESCOPE Priority 5; Chair Initiative #3*)