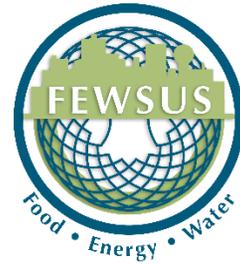


AGENDA
2023 International FEWSUS Student Workshop
“Food-Energy-Water Nexus for Peri-Urban Sustainability”



Thursday, April 20th | 8:30 am-12:45 pm Eastern Time U.S.

Friday, April 21st | 8:30 am-12:25 pm Eastern Time U.S.

VIRTUAL MEETING

[HTTPS://TENNESSEE.ZOOM.US/J/94342681131](https://tennessee.zoom.us/j/94342681131) PASSWORD: FEWSUS



Lead Organizer:

The University of Tennessee, Knoxville

Co-Organizing Institutions:

Zamorano Pan-American Agricultural School, Honduras
Technological University of Panama, Panama
Shenyang Agricultural University & Hubei University, China

WORKSHOP OBJECTIVES

The workshop aims to strengthen academic partnerships for developing sustainable peri-urban systems that have robust resilience to global environmental change. Specific objectives are to:

- Share learning and research of food-energy-water nexus and evaluate their importance for peri-urban sustainability; and
- Foster student collaborations across disciplines, culture, and socioeconomic systems and broaden their global visions.

OVERALL AGENDA

| Day | U.S. Eastern Time | Scheduled Activity |
|------------|-------------------|--|
| April 20th | 8:30 am-12:45 pm | Opening Session & Presentations Themes <ul style="list-style-type: none">• SDG 2: Zero Hunger• SDG 5: Gender Equality• SDG 6: Clean Water & Sanitation• SDG 7: Affordable and Clean Energy• SDG 12: Responsible Consumption and Production |
| April 21st | 8:30 am-12:25 pm | Presentations & Closing Session Themes <ul style="list-style-type: none">• SDG 9: Industry, Innovation and Infrastructure• SDG 11: Sustainable Cities and Communities |

SPONSOR

U.S. National Science Foundation

“IRCN for Creating Transdisciplinary Nodes of Food-Energy-Water to Support Sustainable Urban Systems (FEWSUS)”

Day 1: Thursday, April 20, 2023, 8:30 am - 12:45 pm (U.S. Eastern Time)

| | |
|-------------|--|
| 8:30-8:45 | WELCOME & OPENING REMARKS — Moderator: Duncan McCurry (University of Tennessee, USA) |
| | <ul style="list-style-type: none"> • Welcome and Introduction of Workshop (Duncan McCurry, FEWSUS Student Network Lead) • Opening Remarks: “Strengthening Global Academic Partnership for Sustainable Urban Development” Dr. John Stier (Associate Dean and Professor, Herbert College of Agriculture, University of Tennessee) |
| 8:45-12:45 | PRESENTATIONS Themes: SDG 2: Zero Hunger, SDG 5: Gender Equality, SDG 6: Clean Water and Sanitation, SDG 7: Affordable and Clean Energy, SDG 12: Sustainable Production and Consumption Moderators: Duncan McCurry (University of Tennessee, USA) & Ashlyn Anderson (Fulbright Scholar, Mexico) Wenhao Bo (Shenyang Agriculture University, China) |
| 8:45-9:00 | “Assessing Pakistan's Efforts in Eliminating Hunger” Faryal Babar Baloch (Shenyang Agricultural University, China) |
| 9:00-9:15 | “Understanding Food Insecurity Among College Students Minorities” Jean Pierre Enriquez (Louisiana State University, USA) |
| 9:15-9:30 | “Incentives and Disincentives for Youth Participation in Groundnut Value Chains in Tororo and Nwoya Districts, Uganda” Daisy Kemigisha (Makerere University, Uganda) |
| 9:30-9:45 | “Establishing a ‘Big Food View’ to Ensure Effective Food Supply” Zijing Li (Shenyang Agricultural University, China) |
| 9:45-10:00 | “International Educational Opportunities for Postgraduate Students: Experiences with SDGs 2 and 4 while Living as a Fulbright Scholar in Mexico” Ashlyn Anderson (Fulbright Scholar in Mexico, USA) |
| 10:00-10:15 | “Voice of the Women Involved in Coffee Production under Sustainable Practices” Emma Navarro (Zamorano Pan-American Agricultural School, Honduras) |
| 10:15-10:30 | “Assessing Gender Roles in the Groundnut Value Chain in Uganda” Annie Carter (University of Tennessee, USA) |
| 10:30-10:45 | Break (Student Network Video) https://youtu.be/DcrOVOImUro |
| 10:45-11:00 | “Application of Biochar in Ecological Protection of Wetland Water” Yunuo Zhao (Shenyang Agricultural University, China) |
| 11:00-11:15 | “Factors and Indicators of Energy Poverty in Panama” Aldrix Velásquez and Nicole Villareal (Technological University of Panama) |
| 11:15-11:30 | “Food Security Implications of Carbon Accounting for Food Life Cycle” Fengyu Zhang (Shenyang Agricultural University, China) |
| 11:30-11:45 | “Phenotypic Characterization of Tomato Accessions for Sustainable Agricultural Production” Francely Flores (Zamorano Pan-American Agricultural School, Honduras) |
| 11:45-12:00 | “Using Photovoice to Analyze Factors that Influence Peanut Product Quality and Safety along the Value Chain in Uganda” Ruth Martha Mirembe (Makerere University, Uganda) |
| 12:00-12:15 | “Family Farm Operations: The Most Valuable Player in Counteracting Climate Change” Sally Reed (University of Tennessee, USA) |
| 12:15-12:30 | “Challenges and Opportunities of Climate Change in the Central American Region, Moving Towards Green and Resilient Production” Andrea Salzar-Bonilla (Zamorano Pan-American Agricultural School, Honduras) |
| 12:30-12:45 | “Study Abroad Programming for Sustainable Urban and Peri-Urban Tourism” Eliza Bettis, Sydney Ivory, Gracie Jones, Sophia Roark (University of Tennessee, USA) |

Day 2: Friday, April 21, 2023, 8:30 am - 12:25 pm (U.S. Eastern Time)

| PRESENTATIONS | |
|----------------------|--|
| 8:30-12:25 | Themes: SDG 9: Industry, Innovation and Infrastructure; SDG 11: Sustainable Cities and Communities Moderators: Duncan McCurry (University of Tennessee, USA), Xinyue Wang (Shenyang Agricultural University, China) Emma Navarro (Zamorano Pan-American Agricultural School, Honduras) |
| 8:30-8:45 | “A Food-Energy-Water Nexus Approach to Removing Perfluoroalkyl Substances (PFAS) from Contaminated Biosolids” Logan Pederson (University of Tennessee, USA) |
| 8:45-9:00 | “Rational Design and Molecular Regulation Mechanism Analysis of Novel Steroid Hydroxylase CYP109B4” Xiadong Zhang (Hubei University, China) |
| 9:00-9:15 | “A Stoichiometric Approach Indicates Greater Plant Versus Microbial Inputs to Mineral-Associated Organic Matter” Yi Chang (Shenyang Agricultural University, China) |
| 9:15-9:30 | “Transforming Inert Cycloalkanes into α , ω -Diamines by Designed Enzymatic Cascade Catalysis” Zhongwei Zhang (Hubei University, China) |
| 9:30-9:45 | “The Three Changes of Black Soil and Food Security” Dogsheng Yu (Shenyang Agricultural University, China) |
| 9:45-10:00 | “Regulation of Cell Differentiation to Promote Pullulan Synthesis in Aureobasidium Pullulans” Nan Zeng (Shenyang Agricultural University, China) |
| 10:00-10:15 | “An Insight into Spatial Food-Energy-Water Nexus” Jian Song (University of Tennessee, USA) |
| 10:15-10:30 | “Inventories of Marine Litter in the Community of Veracruz for the Protection of the Ecosystem and Human Health” Angie Flores, Anthonia Guardia (Technological University of Panama, Panama) |
| 10:30-10:45 | Break (FEWSUS conference video) https://youtu.be/IySMsYKr8O4 |
| 10:45-11:00 | “How to Make Fish in Tomato Sauce - A New Mode of Urban-Rural Integration” Zhijing Wu (Shenyang Agricultural University, China) |
| 11:00-11:15 | “Water Crisis in Western United States” Delanie Livengood (University of Tennessee, USA) |
| 11:15-11:30 | “Innovating Chinampas: Land Use Change in a Deglobalizing World” Morgan Isaacs (University of Tennessee, USA) |
| 11:30-11:45 | “Tick Borne Diseases and Recent Advancement in Disease Diagnosis of Tularemia” Anjum Jamil (Shenyang Agricultural University, China) |
| 11:45-12:00 | “Livestock Manure and Alternative Fertilization: Key to Sustainable Urban-Rural Development” Yuang Cai (Shenyang Agricultural University, China) |
| 12:00-12:15 | “The Linkage between Food-Energy-Water and Sustainable Development” Rutao Gai (Shenyang Agricultural University, China) |
| 12:15-12:25 | Closing Remarks: “The Role of Higher Education in Advancing the Sustainable Development Goals” Dr. Jamie McGowan (Director, Center for Global Engagement, University of Tennessee) |