



2024 EDEN CONFERENCE

Salt Lake City, Utah
October 22-25, 2024



October 18

GOVERNOR'S WELCOME



SPENCER J. COX
GOVERNOR

STATE OF UTAH
OFFICE OF THE GOVERNOR
SALT LAKE CITY, UTAH
84114-2220

DEIDRE M. HENDERSON
LIEUTENANT GOVERNOR

Oct. 22, 2024

Dear conference attendees,

As governor of the great state of Utah, it is my pleasure to welcome you to the Extension Disaster Network Annual Conference in Salt Lake City! This is an excellent opportunity for attendees, educators, professionals and academics to share experiential learning and research-based findings. This conference will allow you to gain insights into planning, preparedness, response, recovery and resilience — especially in lessons learned from nationally impactful incidents.

While you are in Utah, I encourage you to take some time to enjoy our great state. Salt Lake City offers great restaurants, a lively culture, and breathtaking mountain views. I hope that you will enjoy the amenities while you attend and participate in this event.

I hope the conference and our beautiful state make your experience memorable and inspire you to come back and visit again. Best wishes for a successful conference. May this week be enriching, educational and valuable.

Sincerely,

A handwritten signature in black ink, appearing to read "S. J. Cox".

Spencer J. Cox
Governor



Spencer J. Cox
Utah State Governor

CONFERENCE WELCOME

Welcome to beautiful Salt Lake City, Utah. We are honored to host the 2024 National Extension Disaster Education Network Conference and to have such wonderful, dedicated, knowledgeable people join us as we learn, teach, and network together.

The mission of the Extension Disaster Education Network (EDEN) is to reduce the impact of disasters through research-based resources and coordination to ensure these resources are readily available to the Cooperative Extension System, stakeholders, and the communities we all serve.

Knowing the occurrence of disasters is increasing and the impact of each event is becoming more devastating, it is more important now than ever before to work together to share research, resources, expertise, and best practices supporting emergency preparedness. You are an important part of EDEN accomplishing its mission. Thank you for joining us.

As the host state, we are excited to share the efforts being made to prepare Utah for emergencies and actions that are being taken to help individuals currently being impacted by disasters in our nation and throughout the world.

Welcome and we hope you enjoy your stay.

Stephanie Carlson & Naomi Brower



Stephanie Carlson
Conference Chair



Naomi Brower
Conference Co-Chair

CONFERENCE SCHEDULE

CONFERENCE REGISTRATION TIMES

MONDAY	3:00 PM - 5:00 PM
TUESDAY	7:00 AM - 8:00 AM and 4:00 PM - 7:00 PM
WEDNESDAY	7:30 AM - 5:00 PM
THURSDAY	7:30 AM - 12:00 PM

MONDAY

5:00 PM - 6:00 PM	EDEN EXECUTIVE COMMITTEE MEETING <i>Boardroom</i>
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TUESDAY

6:00 AM - 9:00 AM	BREAKFAST & COFFEE <i>Hotel Breakfast Area</i>
7:30 AM - 8:00 AM	MEET FOR EDUCATIONAL EXCURSIONS <i>Hotel Lobby</i>
8:00 AM - 5:00 PM	EDUCATIONAL EXCURSIONS <i>Various Locations</i>
5:30 PM - 6:00 PM	EDEN FIRST TIMER’S RECEPTION <i>Hotel Patio</i>
6:00 PM - 7:00 PM	WELCOME/OPENING RECEPTION FOR ALL <i>Hotel Patio</i>



Conference posters may be set-up beginning Tuesday and will be displayed throughout the conference. Meet the authors during the poster presentation session on Thursday at 1:00 pm.

WEDNESDAY

6:00 AM - 9:00 AM	BREAKFAST & COFFEE <i>Hotel Breakfast Area</i>
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8:30 AM - 9:15 AM

WELCOME

Fairbourne Ballroom

Tom Ball, Chair

Extension Disaster Education Network

Mississippi State University

Kenneth White, Ph.D.

Senior Vice President of Statewide Enterprise

Utah State University

USDA NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA) OVERVIEW

Ashley Mueller, Ph.D.

National Program Leader

National Institute of Food & Agriculture

USDA FOOD & AGRICULTURE DEFENSE INITIATIVE EXTENSION DISASTER EDUCATION NETWORK (FADI-EDEN)

Fred Schlutt, Regan Emmons, and Ruth Inman

Extension Foundation

9:15 AM - 10:15 AM

KEYNOTE: THE SALT LAKE TEMPLE RENOVATION PROJECT

Fairbourne Ballroom

Georges A. Bonnet

Director of Communications, Salt Lake Temple Renovation Project

Special Projects Department of the Church of Jesus Christ of Latter-Day Saints

10:15 AM - 10:30 AM

BREAK

Hallway

10:30 AM - 11:15 AM

CONCURRENT SESSION I

HOW A MODEL COOPERATION CAN DEVELOP AMONGST FEDERAL & NGO AGENCIES, EXTENSION, & ACADEMIA, AND STATE & INDUSTRY ESPECIALLY AT LAND-GRANT UNIVERSITIES

Market Street Conference Room

Adrian Self and Savannah Greiner

THE FIRE DESTROYED OUR LIFE

Promenade

Michelle Krehbiel and Linda Reddish

BETTER TOGETHER: OPPORTUNITIES AND CHALLENGES OF 1862/1890 PARTNERING ON NIFA RAPID RESPONSE GRANT

Watson

Carol Friedland, Angell Jordan, and Dr. Marlin Ford

COMMUNICATING WITH LINGUISTICALLY DIVERSE AUDIENCES IN TIMES OF DISTRESS

Fairbourne Ballroom

Celina Wille and Emma Parkhurst

CONFERENCE SCHEDULE

11:15 AM - 12:00 PM

CONCURRENT SESSION II

TRANSPORTATION STRUGGLES DUE TO LIMITED HIGHWAY OPTIONS DURING AND AFTER DISASTERS IN THE WILD WEST

Market Street Conference Room

Jenny Beiermann, Hannah Cranor-Kersting, Katie Alexander, and Dan Franzen

PREPARING UK COOPERATIVE EXTENSION AGENTS FOR TOMORROW'S DISASTERS

Promenade

Kayla Watts and Jeff Young

EMERGENCY RESPONSE TO ACCIDENTS INVOLVING LIVESTOCK: TRAINING AND EQUIPPING FIRST RESPONDERS

Watson

Katie Ockert, Casey Zangaro, and Cora Okkema

LEVERAGING CONNECTIONS TO PREPARE FOR DISASTERS

Fairbourne Ballroom

Jason McKibben, Chris Clemmons, James Lindner and Matt Ulmer

12:00 PM - 1:00 PM

LUNCH

Fairbourne Ballroom

12:00 PM - 1:00 PM

BUILDING NETWORKS & STRENGTHENING LOCAL COMMUNITIES FOCUS GROUP

Promenade

1:00 PM - 2:00 PM

PANEL DISCUSSION: CLIMATE CHANGE IMPACTS IN UTAH

Fairbourne Ballroom

Dr. Robert Gillies

Director, Utah Climate Center

Utah State University

Tim Davis

Deputy Great Salt Lake Commissioner

Cody Zesiger

Extension Assistant Professor

Utah State University

2:00 PM - 2:45 PM

CONCURRENT SESSION III

PACIFIC NORTHWEST CROSS BORDER TABLETOP EXERCISE: REVIEW KEY TAKEAWAYS, & LESSONS LEARNED FOR EXTENSION

Market Street Conference Room

Joshua Dise

2:00 PM - 2:45 PM

CONCURRENT SESSION III

BEST MEDIA PRACTICES, CHALLENGES, EXPERIENCES IN COMMUNICATING TEXAS' LARGEST WILDFIRE

Promenade

Blair Fannin

GETTING THE GORGE SMOKE READY: IMPROVING COMMUNITY READINESS AND RESPONSE FOR WILDFIRE SMOKE EVENTS

Watson

Lauren Kraemer and Grace Wesson

ASSESSMENT OF EDUCATOR TRAINING FOR DISASTER PREPAREDNESS: AN EFFORT TO NOT RECREATE THE WHEEL

Fairbourne Ballroom

Ed Sheldon and Amanda Mosiman

2:45 PM - 3:00 PM

BREAK

Hallway

3:00 PM - 3:45 PM

CONCURRENT SESSION IV

UPDATING RISK ASSESSMENTS FOR LOUISIANA'S 2024 STATE HAZARD MITIGATION PLAN

Market Street Conference Room

Stacia Davis, Rubayet Bin Mostafiz, Md. Adilur Rahim, Carol Friedland, and Robert Rohli

PROMOTING PERSONAL SAFETY THROUGH THE EMPOWER YOURSELF THROUGH SELF-DEFENSE TOOLKIT

Promenade

Stephanie Carlson, Naomi Brower, Anna Gilliam, and Callie Ward

DROUGHT ADVISORS: EXTENSION DROUGHT PROGRAMMING FOR AGRICULTURE IN COLORADO

Watson

Retta Bruegger, Emily Lockard, Jill Zarestky, Tori Kauffman, and Jenny Beiermann

GEARING UP FOR SAFETY - RURAL EMERGENCY PREPAREDNESS EDUCATION

Fairbourne Ballroom

Roger Tormoehlen and Ed Sheldon

3:45 PM - 4:30 PM

CONCURRENT SESSION V

FREE FARMERS' MARKETS AT SALT LAKE COUNTY SENIOR CENTERS DURING COVID-19

Market Street Conference Room

Katie Wagner

CONFERENCE SCHEDULE

3:45 PM - 4:30 PM

CONCURRENT SESSION V

EXPLORATION GREEN: A HURRICANE TESTED APPROACH TO STORMWATER RETROFITTING AND FLOOD MITIGATION IN TEXAS

Promenade
Charriss York

NEW HEIGHTS IN EMERGENCY PREPAREDNESS: LEVERAGING REMOTE WORK FOR CONTINUITY OF BUSINESS OPERATIONS AND RESILIENCE

Watson
Paul Hill and Dominic Bria

ADAPTING THE FUTURE OF HOUSING: THE RESILIENT HOUSING PLANNING GUIDE

Fairbourne Ballroom
Jule Shiyou-Woodward

4:30 PM - 5:00 PM

EDEN COMMITTEE MEETINGS - PROGRAMMATIC COMMITTEES

COMMUNITY & ECONOMIC DEVELOPMENT

Market Street
Conference Room

4-H/YOUTH DEVELOPMENT

Promenade

AGRICULTURE

Watson

NATURAL RESOURCES

Fairbourne
Ballroom

FAMILY & CONSUMER SCIENCES

Fairbourne
Ballroom

5:00 PM - 5:30 PM

EDEN COMMITTEE MEETINGS - STANDING COMMITTEES

MARKETING & MEMBERSHIP

Market Street
Conference Room

PROFESSIONAL DEVELOPMENT

Promenade

EXERCISE & TRAINING FOR DISASTER RESILIENCE

Watson

ANNUAL CONFERENCE 2025

Fairbourne Ballroom

5:30 PM - 6:45 PM

LINGER LONGER PANEL DISCUSSION: RESPONSE AND RECOVERY OVER THE PAST YEAR: TALES FROM THE FRONTLINES FROM THOSE IMPACTED BY DISASTER IN THE PAST YEAR

Fairbourne Ballroom

THURSDAY

6:00 AM - 9:00 AM

BREAKFAST & COFFEE

Hotel Breakfast Area

8:30 AM - 9:15 AM

CONCURRENT SESSION VI

BIOSECURITY PRACTICES FOR THE EXTENSION PROFESSIONAL

Market Street Conference Room

Thomas Bass, Robin Young, Gregory Martin, and Ragan Adams

LESSONS FOR EXTENSION FROM EXPERIENCE WITH THE WASHINGTON COASTAL HAZARDS AND ORGANIZATIONAL RESILIENCE TEAM

Promenade

Christina Sanders, Kayla Wells-Yoakum, and Michael Gaffney

BUILDING THE STRONG AND NECESSARY PARTNERSHIPS BETWEEN STATE DEPARTMENT OF AGRICULTURE EMERGENCY MANAGERS AND EXTENSION AGENTS

Watson

Dan Frazen and Beth Hayes

NATIONAL EXTENSION CLIMATE INITIATIVE: ACCELERATING AND UPLIFTING ACTION ACROSS THE U.S. EXTENSION SERVICE

Fairbourne Ballroom

Roslynn McCann, Paul Lachapelle, and David Kay

9:15 AM - 10:00 AM

CONCURRENT SESSION VII

PUBLIC-PRIVATE PARTNERSHIPS TO FOSTER FOOD SYSTEM RESILIENCE: UTILIZING CASE STUDY PRESENTATION AND SCENARIO ACTIVITY

Market Street Conference Room

Dr. Courtney Long, Alex Cordova, and Sommer Sibilly-Brown

THIS IS NOT A DRILL: EQUIPPING EXTENSION TO SUPPORT AGRICULTURAL COMMUNITIES DURING A TRAIN DERAILMENT EMERGENCY RESPONSES

Promenade

Haley N. Shoemaker, Jeff Hattey, Lee Beers, and Dee Jepsen

MEET YOUR HIRO: AN EMERGENCY PREPAREDNESS AND FINANCIAL ORGANIZATIONAL TOOL

Watson

Andrea Schmutz, Melanie D. Jewkes, Melanie Dabb, and Amanda Christensen

DEMYSTIFYING THE GRANT MAKING PROCESS: BEST PRACTICES FROM THE FIELD

Fairbourne Ballroom

Maria Bowie, Angie B. Lindsey, Monty Dozier, and Vanessa Sims

UGA PREPARES FOR EMERGENCIES

Fairbourne Ballroom

Susan Moore, Maria Bowie, Michael Martin, Virginia Brown, Pamela Turner, Amanda Tedrow, Greg Pittman, Allie Griner, and Guy Hancock

CONFERENCE SCHEDULE

10:00 AM - 10:15 AM

BREAK

Hallway

10:15 AM - 11:00 AM

CONCURRENT SESSION VIII

SPACE WEATHER IMPACT ON AGRICULTURE: POTENTIAL THREATS AND DOWNTIME COST ESTIMATES

Promenade

Terry Griffin and Kathryn Draeger

10:15 AM - 12:00 PM

CONNECT EXTENSION: A TOOL TO ENHANCING AN EDEN DELEGATES WORK

Market Street Conference Room

Amanda Mosiman, Regan Emmons, and Ruth Inman

GET OUT OF YOUR EXERCISE RUT! USING GAMES TO BRING EXTENSION AND EMERGENCY MANAGEMENT TOGETHER TO PREPARE COMMUNITIES FOR DISASTERS

Fairbourne Ballroom

Andrea Higdon, Chelsey Anderson, and Kandice Williams

12:00 PM - 1:00 PM

LUNCH

Fairbourne Ballroom

**2023-2024 EDEN Grant
Awardees will be honored
during lunch.**

1:00 PM - 2:00 PM

Poster & Networking Session

*Please remove all posters at the conclusion of the poster session.

Poster Area

2:00 PM - 3:00 PM

CAPSTONE PANEL: INFRASTRUCTURE INCIDENT: DISRUPTION OR DISASTER?

Fairbourne Ballroom

Hannah Cranor-Kersting

County Director and Agriculture Agent

Colorado State University Extension

Jenny Beiermann

Extension Western Regional Specialist- Agriculture & Business Management

Colorado State University Extension

Dan Frazen

Managing Director, Colorado Preparedness & Response Network (CPRN)

Colorado Department of Agriculture

Jeff Engell

Western Region Specialist

Colorado State University Extension

3:00 PM - 3:15 PM **BREAK**
Hallway

3:15 PM - 4:15 PM **BUSINESS MEETING FOR ALL**
Fairbourne Ballroom

4:30 PM **ADJOURN**

FRIDAY

6:00 AM - 9:00 AM **BREAKFAST AND COFFEE**
Hotel Breakfast Area

8:00 AM - 12:00 PM **EMERGENCY MANAGEMENT INTERACTIVE SEMINAR**
Market Street Conference Room

12:00 PM **CONFERENCE ADJOURNS - SAFE TRAVELS!**

CONFERENCE SPEAKERS



TOM BALL

Chair, Extension Disaster Education Network (EDEN)
Mississippi State University

Tom Ball has been assisting county governments, state agencies, faith-based and non-governmental organizations with homeland security training, emergency preparedness, response, and recovery since 2002. The Extension Disaster Education Network (EDEN) Point of Contact for Mississippi State University (MSU) Extension since 2005, he has served in a variety of committee leadership positions and now serves as national chair of the network. He assisted in organizing and training the MSU Crisis Action Team. Tom helped coordinate Emergency Support Function-11 and MSU Extension strike team response and recovery to Hurricane Katrina, the tornado outbreak and Mississippi River flooding of 2011, and the unprecedented Mississippi Delta backwater flooding in 2019. He was a member of the pilot team for EMI Whole Community Preparedness, Response and Recovery curriculum and serves MSU Extension as an Emergency Coordinating Officer in the State Emergency Operations Center.



KENNETH L. WHITE

Senior Vice President of Statewide Enterprises
Utah State University

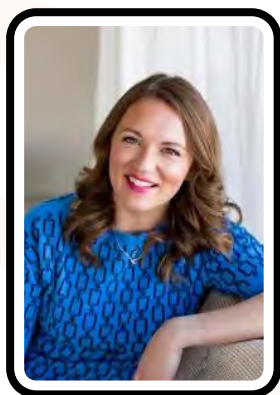
Kenneth “Ken” L. White, Ph.D., currently serves as the Senior Vice President of the Utah State University (USU) Statewide Enterprise which consists of USU Extension, the Utah Agricultural Experiment Station, and the statewide campuses.

He was previously head of USU’s Department of Animal, Dairy and Veterinary Sciences, where he has been a faculty member since 1991. Prior to that, White was a member of the faculty in the Department of Animal Science at Louisiana State University.

He earned a Bachelor of Science in Animal Science at Brigham Young University in 1979, a master’s degree in animal science, and a Ph.D. in physiology from the University of California Davis in 1982 and 1986, respectively.

White has generated over \$17.3 million in extramural funding while at USU to support research in animal reproduction and embryonic development. He is a Utah Governor’s Medal for Science and Technology honoree and was named a USU Researcher, Undergraduate Mentor, and Outstanding Graduate Mentor of the Year. White has published over 100 peer-reviewed scientific articles and led the nuclear transfer team that produced the world’s first cloned equines, three identical mule foals.

CONFERENCE SPEAKERS



ASHLEY MUELLER

National Program Leader, Division of Family & Consumer Sciences
National Institute of Food and Agriculture

Dr. Ashley Mueller is a National Program Leader in the Division of Family and Consumer Sciences within the Institute of Youth, Family, and Community at USDA NIFA. She provides leadership to the Food and Agriculture Defense Initiative Extension Disaster Education Network (FADI-EDEN); Smith-Lever Special Needs Competitive Grant; and Smith-Lever and Special Needs Capacity (1862 land-grant Extension) programs. Ashley also co-leads the AFRI program Rapid Response to Extreme Weather Across Food and Agricultural Systems (A1712). She serves as the National Program Leader liaison to EDEN.

Before joining NIFA in 2021, Ashley was a statewide Extension educator and disaster education coordinator for Nebraska Extension. In that role she built capacity in the organization, and she collaborated with county- and campus-based faculty and staff along with state, regional, and federal partners to support Nebraskans in preparing for, responding to, and recovering from extreme weather events, disasters, and other incidents. Ashley's previous experiences include outreach communications, distance education academic program management, and program development. She earned a Ph.D. in Agricultural Education with a concentration in Postsecondary Leadership and Administration from the University of Missouri-Columbia, an M.S. in Agricultural Education from Purdue University, and a B.S. in Food Science and Technology from the University of Nebraska-Lincoln.



FRED SCHLUTT

Extension Foundation

Dr. Fred Schlutt has 40 years of Cooperative Extension experience in Texas, Wyoming, Maine, and Alaska. While serving as a Vice Provost for Outreach and Director of Extension, Fred served on ECOP for seven years and one year as Chairman of ECOP—a graduate of Texas A&M University with a Ph.D. in Adult and Extension Education. Dr. Schlutt has worked for the Extension Foundation for five years as an NTAE Catalyst and EDEN Program Manager.

CONFERENCE SPEAKERS



REGAN EMMONS

Extension Foundation

Regan Emmons works for the Extension Foundation as the EDEN assistant project manager as well as the Climate Partnership and Development Assistant. She is focused on providing backbone support for EDEN and the Climate Program Action Team. She has an M.A. in Sustainable Communities from Northern Arizona University and lives in coastal Oregon.



RUTH INMAN

Extension Foundation

Ruth Inman is the EDEN marketing and communications coordinator. Her role is to maximize the effectiveness of EDEN's marketing and communications efforts, enhance EDEN's branding and messaging, optimize digital and social media content, and amplify the impact of EDEN's campaigns and efforts to drive success for the program. To support her master's degree in agricultural communications and Ph.D. in education, Dr. Inman has nearly two decades of experience as a marketing communications professional, including time as a digital media state Extension specialist and assistant professor in agricultural communications at Oklahoma State.



GEORGES A. BONNET

Director of Communication, Salt Lake Temple Renovation Project

Special Projects Department of the Church of Jesus Christ of Latter-Day Saints

Georges A. Bonnet was born in Germany, then lived in Germany and France as a youth. He studied at the LDS Business College, BYU-Provo and Arizona State University in Tempe, Arizona where he graduated with a B.S. in Construction Engineering. The Bonnet family has lived in Utah, Arizona, Louisiana, Tahiti for 4.5 years where Bonnet was responsible for the construction of the Tahiti Temple; Germany for three years where he was the physical facilities manager for Western and Eastern Europe; England for one year where Bonnet had the same position for the UK and Africa area of the Church; South Africa for five years where he served as the first director for temporal affairs in Africa; Ghana, West Africa for four years to establish the first area office of the Church in West Africa and oversee the Accra, Ghana Temple; another two years in South Africa from 2012 to 2014 as director for temporal affairs for the third time in Africa. Since August 2019, Bonnet has served on the project management team of the Salt Lake Temple renovation project.

CONFERENCE SPEAKERS



ROBERT GILLIES

Director, Utah Climate Center
Utah State University

Dr. Robert R. Gillies is the Director of the Utah Climate Center at Utah State University (USU) and State Climatologist for the State of Utah. He is a full professor in meteorology in the Department of Plants, Soils and Climate (PSC), College of Agricultural Sciences at USU. Prior to the position of Director, he held a joint position in PSC and the Department of Watershed Sciences in the College of Natural Resources at USU. Dr. Gillies came to USU from The Pennsylvania State University. After completing his Ph.D. in meteorology and remote sensing, Dr. Gillies continued his research as a research associate in the Department of Meteorology and the Earth System Science Center at Penn State. Dr. Gillies was a member of Gov. Jon Huntsman's scientific panel that compiled a report on climate change as it pertains to Utah for the Blue Ribbon Advisory Panel.



TIM DAVIS

Great Salt Lake Deputy Commissioner

Tim Davis is the Deputy Great Salt Lake Commissioner. For the past fifteen years, Davis has led four different state water agencies in Utah and Montana. As the Deputy Commissioner, Davis serves as the chief operating officer for the Commissioner's Office working with Commissioner Brian Steed, state leaders, state and federal agencies, local officials, water users, and stakeholders to develop and implement the [Great Salt Lake Strategic Plan](#).

Before joining the Great Salt Lake Commissioner's Office, Davis served as the Director of the Utah Division of Drinking Water. Davis previously oversaw the water rights, water resources, drinking water, and water quality programs for the State of Montana for over ten years.

Additionally, Davis has represented Utah and Montana on numerous regional and national boards and commissions including serving as the Yellowstone River Compact Commissioner for the State of Montana, the Chair of the Western States Water Council, and representing the Region 8 states of Utah, Montana, Colorado, Wyoming, North Dakota, and South Dakota on the Association of State Drinking Water Administrators Board of Directors.

CONFERENCE SPEAKERS



CODY ZESIGER

Extension Assistant Professor
Utah State University

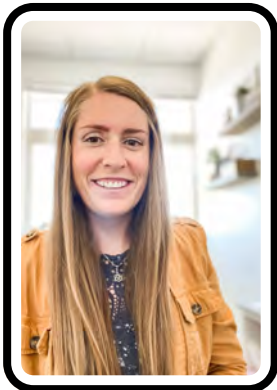
Cody Zesiger is a lifelong Utah resident with a passion for adventure in the States alpine mountains, low-lying wetlands, and picturesque deserts. As an educator at Utah State University (USU), he has spent 6 years assisting farmers and other residents with land stewardship and crop production. His aim is to increase agricultural sustainability through science-based practices that lead to farm profitability and a win-win outcome.



HANNAH CRANOR-KERSTING

County Director and Agriculture Agent
Colorado State University

Hannah Cranor-Kersting is the Gunnison County Colorado State University (CSU) Extension Director and Agriculture Agent. She is a third-generation cattle rancher, born and raised in Gunnison, Colorado. She attended school at the University of Wyoming where she majored in Agricultural Business with an emphasis in Farm and Ranch Management. Outside of work Hannah enjoys snowmobiling, dirt biking, CrossFit, running with her four dogs, and spending time with her husband, Lane.

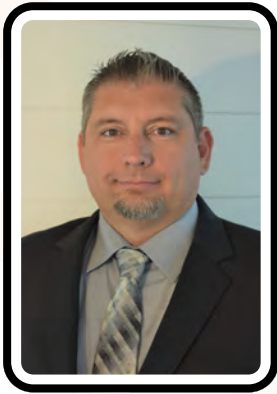


JENNY BEIERMANN

Extension Western Regional Specialist-Agriculture & Business Management
Colorado State University Extension

Jenny Beiermann is an Agriculture and Business Management Economist with Colorado State University (CSU) Extension in the Department of Agricultural and Applied Economics. She received her B.S. degree in Agricultural Business and her M.S. in Agricultural and Applied Economics at the University of Wyoming. Jenny's primary role with CSU is to develop, market, deliver, and evaluate non-credit educational programming and resources relative to risk and risk management for agricultural producers and managers in operations of all sizes. These programs' main goal is to assist producers in making comparative, profitable decisions among strategic financial, production, marketing, legal, and human resources alternatives. Prior to joining CSU Extension in 2016, she worked in the livestock production industry, as well as with a leading Ag tech company, specializing in vertical aquaponics growing systems. Her expertise and professional interests include farm management economics, business management, production economics and enterprise budgeting, and strategic financial planning.

CONFERENCE SPEAKERS



DAN FRAZEN

Managing Director, Colorado Preparedness & Response Network (CPRN)
Colorado Department of Agriculture

Dan Frazen is the Agriculture Emergency Coordinator for the Colorado Department of Agriculture (CDA), where he has worked since 2022. He leads the emergency management and critical infrastructure protection programs for CDA's nine divisions. Dan is also the primary for Emergency Support Function (ESF) 11 Agriculture and Natural Resources for the State of Colorado. Dan has been working in emergency management and disaster response since the 2013 Colorado Floods. He is a retired law enforcement officer, and he is a qualified Liaison Officer and Incident Commander Trainee on the Type 3 Eastern Colorado Incident Management Team. Dan is a Colorado Certified Emergency Manager (CO-CEM), FEMA National Emergency Management Advanced Academy (NEMAA) graduate, and proud Colorado State University (CSU) alum.



JEFF ENGELL

Western Region Specialist
Colorado State University Extension

Jeff joined Colorado State University (CSU) Extension in June 2023 as a Western Region Specialist, focused on economic and community development across 16 counties of Western Colorado.

Following his undergrad at CSU, and a brief period in private banking, Jeff moved overseas to complete a master's in economics in Sweden. After his studies, he started his own economic consultancy and lived and worked abroad for a decade prior to returning to the United States. His work encompassed both private and public sector engagements across a multitude of industries and geographies including North and East Africa, Eastern Europe, Asia and the Middle East.

In his personal life he enjoys all things Colorado with his family and friends.

POSTERS

WWW.AGCONFINEDSPACES.ORG: RESOURCES FOR EDUCATION AND RESEARCH ABOUT SAFETY AND EMERGENCY RESPONSE INVOLVING AGRICULTURAL CONFINED SPACES

Ed Sheldon and William E. Field
Purdue University

UNDERSTANDING AND MITIGATING CR(VI) RISKS IN MAUI WILDFIRE-IMPACTED AGRICULTURAL AND FOREST SOILS

Too Yan
University of Hawaii at Manoa

PROMOTING EMERGENCY PREPAREDNESS AND RESILIENCY THROUGH FREE ONLINE HIDDEN GEMS AND DISCOVER 4-H GUIDES

Naomi Brower, Stacey MacArthur, Elizabeth Davis, and Shannon Cromwell
Utah State University

AN EXTENSION PERSPECTIVE: IMPLEMENTATION OF VIRTUAL FENCING TECHNOLOGY TO BUILD RESILIENCY OF AGRICULTURE SYSTEMS IMPACTED BY WILDFIRE AND SUBSEQUENT FLOODING

Craig Gifford, Luis Ochoa, Santiago A. Utsumi, Sara Marta, Andres Ricardo Perea, Maximiliano J. Spetter, Marcy Ward, Casey Spackman, Doug Cram, Tom Dean, and Marshall Wilson
New Mexico State University

NDSU EXTENSION CRITICAL TO STATE'S LIVESTOCK DISASTER RESPONSE IN 2023

Julianne Racine, Miranda Meehan, Mary Keena, Tessa Osterbauer
North Dakota State University

ENHANCING ENERGY-EFFICIENT, RESILIENT, AND HEALTHY HOUSING IN LOUISIANA

Rubayet Bin Mostafiz, Ayat Al Assi, and Carol Friedland
Louisiana State University Agricultural Center

THE GUAM SILVER LINING (GUAM SILVER JACKETS) TO LOCAL CAPACITY BUILDING FOR MITIGATING AND ADDRESSING COMMUNITY FLOOD ISSUES

Pete Barcinas
University of Guam

BEYOND INFORMATION FIRST RESPONDERS

Angela B. Lindsey, Christa Court, Sandra Anderson, and Ricky Telg
University of Florida
Carrie McKillip
University of Illinois
Mike Yoder
North Carolina State University
Hannah Carter
University of Maine

REVIVING ANCIENT WISDOM: EDEN COMMUNITY INSPIRES NOVEL APPROACH FOR LEADERSHIP RESEARCH

Amy Brown, Nicole Stedman, Angela B. Lindsey, and Sebastian Galindo
University of Florida

EVERYTHING IS BIG IN TEXAS: AGRILIFE EXTENSION'S RESPONSE TO SMOKEHOUSE CREEK FIRE

Monty Dozier
Texas A&M AgriLife Extension Service

PRESENTATION ABSTRACTS

HOW A MODEL COOPERATION CAN DEVELOP AMONGST FEDERAL & NGO AGENCIES, EXTENSION, & ACADEMIA, AND STATE & INDUSTRY ESPECIALLY AT LAND-GRANT UNIVERSITIES

Adrian Self and Savannah Greiner

Kansas State University

More than being remembered by successfully waging a Civil War, preserving the Union, and the Emancipation Proclamation, Abraham Lincoln signed into existence “The People’s Department.” Two months after establishing the United State Department of Agriculture (USDA), Lincoln signed into law the 2nd Morrill Act creating Land Grant Universities (LGU). A beneficial result through the history and evolution of the past 160+ years happened a few decades back. K-State University established the National Agricultural Biosecurity Center (NABC) as an entity to meld resources, expertise, and dynamism from various colleges of the university and sister state agencies. Work being performed in today’s era includes distilling federal policy and agency priorities to state and local audiences. The NABC operating mission is to harmonize the varied priorities that exist among the differing levels of government, as we all strive for progress in food and agriculture. National Security Memorandum #16 (NSM-16) is a successor policy document with a lineage descendant from the practicality initiated in 1862. Modern LGUs are the driving force for protecting the agricultural base of the country, ensuring a safe and secure food supply, and moving innovation forward integrating the One Health framework across ecosystems bridging plant, animal, human, and environmental health interactions.

THE FIRE DESTROYED OUR LIFE

Michelle Krehbiel and Linda Reddish

University of Nebraska - Lincoln

Experiencing a loss from a disaster can be devastating and it also can be ambiguous, meaning that the loss is unclear, difficult to define, and lacks closure. Individuals and families who face the demanding situation of rebuilding their home or business can experience moments where it is challenging to positively adapt and move on with the process of recovery. Extension programming can address the issue of ambiguous loss by providing educational resources on the concept of ambiguous loss and give information on how to adapt and respond to the ambiguity of loss that can come from experiencing a disaster. This presentation will share programming developed by Nebraska Extension to address the concept of ambiguous loss as it relates to disasters. Theoretical frameworks of ambiguous loss and the disaster phases will be applied to share how individuals and families might respond to a disaster event and how that response will negatively or positively influence their trajectory to good wellbeing and recovery. Additionally, information about program delivery will also be included.

BETTER TOGETHER: OPPORTUNITIES AND CHALLENGES OF 1862/1890 PARTNERING ON NIFA RAPID RESPONSE GRANT

Carol Friedland, Angell Jordan, and Dr. Marlin Ford

Louisiana State University AgCenter, Southern University Agricultural Research & Extension Center

This presentation focuses on combined efforts of the LSU AgCenter and Southern University Agricultural Research & Extension Center (SUAREC) in executing a project funded by the NIFA A1712 Rapid Response program, Building

Resilience through Extension Awareness and Knowledge (BREAK). The project focuses on BREAKing the disaster cycle through preparedness and mitigation for wind hazards. Collectively, we will discuss the opportunities presented by marrying complementary approaches to enhance message completeness, reaching out to more diverse audiences, and bringing collective strengths to the table, thereby expanding content, knowledge, and sharing. We will also discuss challenges we encounter, including getting our clientele to understand the importance of our message, facing difficulties with contracting with a fast turnaround, navigating differing expectations and resources between institutions, and being overwhelmed by the tremendous need among clientele, especially for the elderly and those with animals. Throughout the opportunities and challenges, our project team upholds the overarching goals of the memorandum of understanding (MOU) between our universities to help Louisiana citizens address issues related to natural disasters. We are better together!

COMMUNICATING WITH LINGUISTICALLY DIVERSE EXTENSION AUDIENCES IN TIMES OF DISTRESS

Celina Wille and Emma Parkhurst

Utah State University

Utah's demographics have changed dramatically where 15.4% speak a language other than English and around 5.22% of the population are considered to have Limited English Proficiency (LEP). It is of paramount importance for Extension faculty to pay attention to the language barriers faced by these new Americans, who, in most cases also bare additional burdens (i.e., health inequalities, limited income and low literacy levels), as they struggle to navigate life in their new society. Figuring out ways to reach out to these new Extension audiences is not only important for meeting civil right mandates, but to plan and execute programs that ensure the delivery of cultural and linguistically appropriate content in a way that is both timely and responsive their needs. This presentation, highlights best practices utilized in USU Extension to design key messages in topics such as COVID prevention, preparing for earthquakes and food safety for delivery to multiple audiences and in various languages. Extension interventions deployed were in general anchored on Culturally Responsive Pedagogy theory and on culturally responsive teaching strategies to enhance adult learning. The presentation also addresses data collection strategies to evaluate community reach and specific outcomes of a grant funded comprehensive COVID social marketing campaign.

TRANSPORTATION STRUGGLES DUE TO LIMITED HIGHWAY OPTIONS DURING AND AFTER DISASTERS IN THE WILD WEST

Jenny Beiermann, Hannah Cranor-Kersting, Katie Alexander, and Dan Frazen

Colorado State University, Colorado Department of Agriculture

The lack of dependable travel alternatives for large agricultural transports is more common than most would think in the west. Agricultural operations typically know no boundaries in counties, areas, and regions of a state, utilizing large networks for all their needs, from pasture and feed, to equipment services, and shipping for processing and purchasing new animals from other areas. In 2021, severe flooding the Glenwood Canyon impacted Interstate 70, a major transportation route in Colorado. In response to closure of this major route, CSU Extension developed materials and case studies to quantify the potential financial losses to agricultural producers due to the closure. These identified impacts to agricultural producers spurred Colorado Department of Transportation to include agricultural impacts in their formal disaster plans. Fast forward to 2024, the closure of US Highway 50 from Montrose to Gunnison, CO due to a faulty bridge has producers in the same situation, with large impending financial impacts. Case study approaches

were taken in 2021 to quantify losses for agricultural producers, but continuing threats of road closures poses a larger question of how to support producers and include agricultural goods in the broader emergency management plans and state transportation plans.

PREPARING UK COOPERATIVE EXTENSION AGENTS FOR TOMORROW'S DISASTER

Kayla Watts and Jeff Young

University of Kentucky

The state of Kentucky has had nine federally declared disasters since the beginning of 2020. These disasters have affected various regions of the state causing chaos across the Commonwealth. This presentation will highlight the University of Kentucky (UK) Extension Disaster Preparedness Conference and discuss bringing together partners from outside and inside the state to train and prepare for upcoming disaster response. Attendees will learn about the Extension Disaster Education Network (EDEN) pilot training that contributed to the success of this conference, as well as other hands-on training that was offered to agents and participants. Join in as we discuss how this conference was implemented, along with how partnerships are key to disaster preparation and training for Cooperative Extension and other state agencies.

EMERGENCY RESPONSE TO ACCIDENTS INVOLVING LIVESTOCK: TRAINING AND EQUIPPING FIRST RESPONDERS

Katie Ockert, Casey Zangaro, and Cora Okkema

Michigan State University

Responding to an accident that involves large trucks, people, and animals can quickly turn into a chaotic event if the local response team is not prepared for or trained to handle such an occurrence. Following several livestock truck rollovers over the last few years in Michigan and adjacent states, Michigan State University-Extension along with the Michigan Department of Agriculture and Michigan Pork Producers Association recognized the need to have a network of trained people across the state to respond to these situations. The efforts of the E-RAIL team have created a flagship program for MSU Extension. To date, over 700 people have been trained through the E-RAIL program, with future trainings planned. Through grant funds, MSU Extension has purchased response trailers that contain supplies needed to contain and handle loose livestock and have strategically placed them throughout the state in heavily traveled areas and trained first responders about animal handling, animal well-being, and animal behavior. This session will outline how to replicate this program in your state, what is stocked in the E-RAIL trailer, and how to conduct widespread trainings that teach first responders about animal handling techniques and how to use equipment stocked in the response trailers.

LEVERAGING CONNECTIONS TO PREPARE FOR DISASTERS

Jason McKibben, Chris Clemmons, James Lidner, and Matt Ulmer

Auburn University

With funding provided by USDA-NIFA- ESNP Special Needs the PEER-SLN project has worked to connect county-based extension agents and EMA agents together in an intentional way to be able to leverage the social capital gained from years of serving less connected communities and the expertise within agricultural extension to protect agricultural interests in the event of a disaster. Initial results of the community efforts have allowed the development of

community action plans for typically underserved areas that have long been isolated and left out of the EMA planning process. These areas have been engaged in the process by county extension personnel who have helped these typically isolated or disconnected groups. In addition, agricultural extension specialists and personnel have been brought in to a larger effort to bring expertise to multi-county planning to bolster the plans with regards to this identified needs area. Fourteen more counties and regions are in the process of learning from this pilot and moving forward with further iterations.

PACIFIC NORTHWEST CROSS BORDER TABLETOP EXERCISE: REVIEW, KEY TAKEAWAYS & LESSONS LEARNED FOR EXTENSION

Joshua Dise

Sandia National Laboratories

The nexus of invasive species and a catastrophic foreign animal disease poses a significant risk to the economy and environment of the United States. In October 2023, more than 120 people representing more than 70 federal, state/provincial, local, and Tribal governments came together in Spokane, WA to participate in a challenging tabletop exercise to address the threat of invasive feral swine and a possible foreign animal disease introduction along the US-Canadian border. The exercise itself was the second of its kind held nationally and was jointly planned and hosted by the Office of Health Security's Health, Food, and Agriculture Resilience Directorate, Sandia National Laboratories, Washington State Department of Agriculture, and the Washington State Invasive Species Council. Outcomes of the exercise include an increased understanding of response triggers and mechanisms, jurisdictional roles and responsibilities, information sharing mechanisms, and laboratory network capabilities through the lens of invasive species and foreign animal disease. This exercise functioned as a key step in response preparedness from high consequence threats/hazards with the potential to impact health, food, and agriculture and systems throughout the Pacific Northwest and British Columbia regions. This presentation will provide an overview of the exercise planning process, lessons learned, and takeaways for extension.

BEST MEDIA PRACTICES, CHALLENGES, EXPERIENCES IN COMMUNICATING TEXAS' LARGEST WILDFIRE

Blair Fannin

Texas A&M AgriLife Extension Service

The 2024 Texas Panhandle wildfires burned more than 1.2 million acres, encompassing more than four counties making it the largest in state history. The event drew national and international media attention for several weeks. The Texas A&M AgriLife Extension Service-Disaster Assessment and Recovery unit was deployed operating three animal supply points and a satellite location distributing donated hay, feed and fencing materials. The agency received numerous media requests from state, national and international outlets seeking experts to discuss the impacts to agriculture, the services being provided to ranchers through the supply point system and distributing educational information in a coordinated method. This presentation will cover the stages of wildfire communications, best practices, challenges encountered and how these experiences may be adopted in other states if such an event were to occur. The presentation will address the initial communications response, assessment phase, the communications partnerships established with other state agricultural agencies all the while working under the lead of the Texas Division of Emergency Management.

GETTING THE GORGE SMOKE READY: IMPROVING COMMUNITY READINESS AND RESPONSE FOR WILDLIFE SMOKE EVENTS

Lauren Kraemer and Grace Wesson
Oregon State University

Wildfires, smoke, and resulting poor health outcomes have increased dramatically in recent years. Extension is leading efforts to improve community readiness for future smoke events through systems-based outreach and engagement. Our work focuses on improving monitoring, communication, and mitigation efforts for wildfire smoke in the Columbia River Gorge. Our work is guided by two health behavior theories: The Health Belief Model and The Transtheoretical Model. The scope of our presentation will cover how the implementation of a systems-based approach to improving data quality, communication efforts, and air quality literacy across a region can improve public health and prevent poor health outcomes. We have installed over 25 outdoor air quality monitors at regional K-12 schools, orchard sites, and community-based organizations. We developed a Community Response Plan for smoke events which included a regional survey, focus groups, a listening session, air quality literacy lessons to 7th graders and a tabletop disaster drill. We launched a new website to inform our community about smoke. Our work builds on the successful efforts of other communities utilizing emerging research on the most efficacious public health tools to address smoke. We hope to support communities as they prepare for, respond to, and recover from smoke events.

ASSESSMENT OF EDUCATOR TRAINING FOR DISASTER PREPAREDNESS: AN EFFORT TO NOT RECREATE THE WHEEL

Ed Sheldon and Amanda Mosiman
Purdue University

The purpose of this program is to draw upon the collective experience and knowledge of our EDEN counterparts across the country. Purdue Extension is in the process of re-envisioning and re-invigorating programming and outreach in emergency and disaster preparedness and planning education. The presenters of this session, who represent both field and campus Extension staff, have been given the challenge to coordinate this undertaking. Rather than a typical presentation, the presenters intend to facilitate this session in a roundtable discussion. They are seeking colleagues' input as to how to best focus planning, organization, and implementation efforts so that Purdue Extension provides effective, appropriate disaster-related resources to its staff, and quality programming for Indiana residents, while also strengthening contributions to and support of the national EDEN system. The presenters of this session are necessarily focused on the needs of Indiana, but this session will be appropriate for any state looking to enhance Extension disaster and emergency planning programs and resources. It is hoped that participation in this session will facilitate networking and discussion among the participants not only for the duration of the conference, but throughout the year.

UPDATING RISK ASSESSMENTS FOR LOUISIANA'S 2024 STATE HAZARD MITIGATION PLAN

Stacia Davis Conger, Rubayet Bin Mostafiz, Md. Adilur Rahim, Carol Friedland, and Robert Rohli
Louisiana State University Agricultural Center and LSU A&M University

Federal Emergency Management Agency (FEMA) requires state governments to have an approved disaster mitigation plan to be eligible for federal mitigation project funding. With Louisiana's propensity for experiencing increasingly frequent natural disasters, this plan must be updated every four years to reflect current and future probabilities of

risks. Risk probabilities consider projected changes in the type, location, range of anticipated intensities, frequency, duration of each natural hazard, changing future conditions, and climate change (e.g., long-term weather patterns, average temperature, and sea levels). Results from updated assessments estimate \$5.12 billion total average annual projected losses across twelve types of natural disasters by 2050. The most substantial annual impact is expected from floods (\$3.63 billion) while 65% of land area and 25% of population and structures fall within the special flood hazard area (SHFA). High winds follow flood risk with an estimated \$1.24 billion impact to the state. Also of significance, all twelve natural hazards exceed \$1 million in risk annually. For this presentation, we will briefly review the methodology, summarize results, and address differences in spatial distribution of statewide risk. We will also discuss the potential for mitigating risk in the most vulnerable communities through innovative research and extension opportunities. Through this valuable work, we expect to make a measurable impact on the health and safety of Louisiana residents.

PROMOTING PERSONAL SAFETY THROUGH THE EMPOWER YOURSELF THROUGH SELF-DEFENSE TOOLKIT

Stephanie Carlson, Naomi Brower, Anna Gilliam, and Callie Ward

Utah State University

Violence is an urgent public health concern that impacts individuals in all stages of life and leads to a lifetime of emotional, physical, and economic problems. Reports suggest violent crime increases during and after a disaster. Knowing ways to avoid or deal with violence increases the chance of avoiding the negative impacts of an event. The purpose of this presentation is to introduce you to the Empower Yourself Through Self-Defense curriculum and tool kit. The curriculum gives instructors the information needed to teach a basic self-defense class. Individuals who take the class learn how to analyze their surroundings, avoid risky situations, de-escalate a conflict, respond to an attack, and practice techniques necessary to escape and survive an attack.

DROUGHT ADVISORS: EXTENSION DROUGHT PROGRAMMING FOR AGRICULTURE

Retta Bruegger, Emily Lockard, Jill Zarestky, Tori Kauffman, and Jenny Beiermann

Colorado State University

Western Colorado is experiencing the driest period on record in the last 1,200 years (Williams et al. 2022), driven primarily by rising temperatures (Overpeck and Udall 2020). Many ranchers and farmers experience the impacts firsthand and recognize the need for adaptation to maintain profitability into the future. While the fact that we are experiencing drier conditions is clear, there was a gap in terms of Extension programs and resources. In Colorado, a group of Extension specialists and agents partnered with Rocky Mountain Farmer's Union and others, to increase programs and resources to support agricultural producers in preparing for and responding to drought. Calling our group Drought Advisors, to date we have conducted trainings, webinars, created written resources and a website, and conducted a program to pair producers with technical assistance to make drought plans (the Drought Plan Program). This presentation will discuss our approach, success, and challenges in organizing and sustaining an Extension drought response program. We will also discuss the results of our survey of participants in the Drought Plan Program to give insight into future directions for continuing to support drought resilience and adaptation among Colorado producers.

GEARING UP FOR SAFETY - RURAL EMERGENCY PREPAREDNESS EDUCATION

Roger Tormoehlen and Ed Sheldon

Purdue University

The purposes of this presentation are to introduce the “Gearing Up for Safety: Production Agriculture Safety Training for Youth” curriculum, and to highlight aspects of the program appropriate for emergency disaster preparedness Extension educational efforts. Gearing Up for Safety is a free curriculum designed to provide teachers, extension staff, and volunteers with the necessary tools to incorporate an agriculture safety and health program as part of a middle and/or secondary school agriculture curriculum, or as a component of 4-H/Youth development programming. While the materials are targeted toward youth or young adults ages 12-20, the resources can be used as-is or easily adapted for adult learners in 4-H/Youth, Agriculture, and/or Health and Human Sciences Extension efforts. The program includes 30 lessons covering a range of topics related to agricultural and rural safety and health. Several lessons specifically address emergency and disaster preparedness topics. The Gearing Up for Safety effort was led by Purdue University with support from USDA-NIFA, and the curriculum has been developed with the cooperation of agricultural safety and health professionals from throughout the United States. All instructional materials and supporting resources may be accessed and downloaded at www.agsafety4youth.info.

FREE FARMERS’ MARKETS AT SALT LAKE COUNTY SENIOR CENTERS DURING COVID-19

Katie Wagner

Utah State University

Approximately 5.3 million seniors, or 7.3% of the national senior population, were food insecure in 2018 (Feeding America, 2020). Seniors comprise approximately 10% of Salt Lake County's population. In response, Salt Lake County Master Gardeners grew and disseminated garden produce to seniors at risk of food insecurity during free farmers’ markets at senior centers. For safety precautions during COVID-19, the program was adapted in 2020 to provide outdoor/drive-through produce stands. In 2020, 2,500 seniors collected fresh produce during 40 free farmers’ markets held outside seven (7) senior centers. Nearly 10,000 pounds of garden produce was disseminated to food insecure seniors, with an estimated market value of \$23,000. The program modeled an effective approach to disseminate fresh produce to food insecure seniors when traditional food distribution channels were stressed during high demand and/or uncertain times.

EXPLORATION GREEN: A HURRICANE TESTED APPROACH TO STORMWATER RETROFITTING AND FLOOD MITIGATION IN TEXAS

Charriss York

Texas A&M AgriLife Extension Service

Clean Lake City, a suburban area of Houston, TX near Johnson Space Center, was facing major flooding issues due to a lack of stormwater controls when the area was first developed. A community approach was used to determine a solution, and the Exploration Green stormwater wetland project was developed. Construction began in 2017, months before Hurricane Harvey dumped unprecedented amounts of rainfall on the area. The project successfully weathered the storm, protecting homes and businesses when only a fraction of the project was completed. In the past five years, at the request of residents, the construction timeline has been shortened and excavation was completed in 2023. Wetland planting and tree installation is on-going, and additional amenities are being added. Exploration Green

protects over 10,000 homes and businesses while also providing green space, habitat for local wildlife, and recreational opportunities for residents.

NEW HEIGHTS IN EMERGENCY PREPAREDNESS: LEVERAGING REMOTE WORK FOR CONTINUITY OF BUSINESS OPERATIONS AND RESILIENCE

Paul Hill and Dominic Bria

Utah State University

This presentation delves into the strategic use of remote work as a core component of business continuity plans during crises, such as public health emergencies, global conflict (e.g., terrorism), and extreme weather events. Using the COVID-19 pandemic as a case study and guided by the theory of Diffusion of Innovations, it investigates the adoption and effectiveness of remote work across various sectors. The research, supported by a legislative appropriation, utilized a survey of 1,259 organizational leaders to assess remote work adoption. Results highlight that the adoption of remote work significantly enhances organizational resilience and continuity. The Utah State University (USU) Extension remote work training program has demonstrated impact, showing significant improvements in businesses' emergency preparedness management strategies. This presentation recommends that Extension programs continue to support remote work as a critical strategy for emergency preparedness, emphasizing the development of both technological and managerial capabilities. It also discusses the potential for an affiliate program that would allow land grant universities to collaborate on national resilience efforts. This study provides a clear message for Extension about the essential role of remote work in future emergency preparedness and resilience planning to support businesses and communities.

ADAPTING THE FUTURE OF HOUSING: THE RESILIENT HOUSING PLANNING GUIDE

Julie Shiyon-Woodard

Smart Home America

Historically, post-disaster sheltering and rebuilding scale at the speed of private insurance and federal funding. Housing is often overlooked or glossed over in comprehensive or hazard mitigation plans, leaving communities to make critical decisions about rebuilding, such as location, density, and building code enforcement, in the aftermath of a devastating event. Additionally, most communities lack the in-house capacity to manage or plan for housing recovery or resilience and rely on consultants to foster the rebuilding of their resident's homes and businesses. To fill this gap, Smart Home America (SHA) developed a Resilient Housing Planning Guide, funded by the EPA Gulf of Mexico Program, to bolster local planning efforts, expedite access to recovery funding, and allow communities to better focus on adapting housing to future and current risks. By understanding their hazards, identifying mitigation and land use planning solutions, and providing meaningful feedback and instruction to consultants, the Housing Guide allows for better preplanning instead of relying solely on federal assistance to dictate their temporary housing, retrofit, and rebuilding needs and schedule.

BIOSECURITY PRACTICES FOR THE EXTENSION PROFESSIONAL

Thomas Bass, Robin Young, Gregory Martin, and Ragan Adams

Montana State University, Penn State University, and Colorado State University

Recent events in human and animal health have brought to a broader consciousness the importance of biosecurity.

While based largely in animal agriculture experiences, this workshop will introduce biosecurity, provide examples of practices for Extension professionals from multiple program areas, and challenge attendees to address where they should implement new biosecurity practices in their professional and possibly personal lives.

LESSONS FOR EXTENSION FROM EXPERIENCE WITH THE WASHINGTON COASTAL HAZARDS AND ORGANIZATIONAL RESILIENCE TEAM

Christina Sanders, Kayla Wells-Yoakum, and Michael Gaffney

Washington State University

In 2023, the Washington Legislature directed the Department of Ecology to stand up a Coastal Hazards and Resilience Team to address hazards, adaptations and mitigation projects in fifteen coastal counties. Led by Ecology with participation from WSU Extension, UW Sea Grant, and the State Emergency Management Division, this team will be engaging at the community level to support ongoing efforts and identify new priority projects which will help those communities to mitigate against, adapt to, or enhance resilience with respect to climate change impacts and disasters of all types which affect them. WSU Extension will facilitate local engagement through our County Extension offices in the fifteen (Pacific and Sound) coastal counties, working in partnership with the other agencies, local communities and residents. This presentation will discuss the program and identify critical lessons and opportunities resulting from this unique multi-agency Extension engagement.

BUILDING THE STRONG AND NECESSARY PARTNERSHIPS BETWEEN STATE DEPARTMENT OF AGRICULTURE EMERGENCY MANAGERS AND EXTENSION AGENTS

Dan Frazen and Beth Hayes

Colorado Department of Agriculture and Colorado State University

The Colorado Department of Agriculture (CDA) and Colorado State University (CSU) Extension are building a robust and resilient emergency management (EM) program for the state's agricultural communities. The team will discuss hurdles and what has worked for success in Colorado. They will then lead a discussion with the session attendees to create a national Ag EM collaboration best practices list.

NATIONAL EXTENSION CLIMATE INITIATIVE: ACCELERATING AND UPLIFTING ACTION ACROSS THE US EXTENSION SERVICE

Roslynn McCann, Paul Lachapelle, and David Kay

Utah State University, Montana State University and Cornell University

Looking to grow your network of Extension professionals engaged and interested in climate change programming? The National Extension Climate Initiative (NECI) brings together Extension professionals, researchers, and partners to collaborate on climate-related issues, share resources, discuss barriers and opportunities for advancing climate change programming in Extension, and engage in professional development. Since its formation in 2020, NECI has grown from a handful of dedicated faculty to a network of over 1,500 members. This presentation will share background information on the purpose and goals of NECI, its operating structure, and how to join. We will also share a sample of major accomplishments to-date, ranging from providing input to the White House upon invitation on the development of its National Climate Resilience Framework to drafting a national vision and objectives for climate change work in Extension, now posted on national Extension's Extension Committee on Organization and Policy's

Climate Mitigation, Resiliency, and Adaptation page. The presentation will conclude with planned next steps for NECI and specific opportunities to get involved.

PUBLIC-PRIVATE PARTNERSHIPS TO FOSTER FOOD SYSTEM RESILIENCE: UTILIZING CASE STUDY PRESENTATION AND SCENARIO ACTIVITY

Courtney Long, Alex Cordova, and Sommer Sibilly-Brown

Iowa State University, USDA Center for Faith-Based and Neighborhood Partnerships, and Virgin Islands Good Food

Join Iowa State University Extension and Outreach, Farm Food and Enterprise Development; USDA Center for Faith-Based and Neighborhood Partnerships; Virgin Islands Good Food Coalition; and FEMA Region 2 to learn about cross-sector partnerships for food systems resilience. This core team has been collaborating over the years to support technical assistance and capacity building of its stakeholders, specifically in the U.S. Virgin Islands in response to ongoing Hurricanes and the COVID-19 pandemic. The team has provided access to customer service resources, subject matter experts, and facilitated peer to peer connections to support the work of on-the-ground partners to build resilience specifically in the agricultural and food systems sector. Iowa State University and EDEN has played a leading role in conducting data collection and analysis activities, informing the development of place-based strategies and implementation plans to support a regional convening and successful inclusion in the Regional Food Business Centers project. Join this session to learn of best practices and key activities for extension staff and personnel in facilitating/supporting long term recovery, supporting adaptive capacity and partnering with faith and community-based organizations, and in collaborating with Federal agencies to develop an enabling environment for food systems resilience.

THIS IS NOT A DRILL: EQUIPPING EXTENSION TO SUPPORT AGRICULTURAL COMMUNITIES DURING A TRAIN DERAILMENT EMERGENCY RESPONSE

Haley Shoemaker, Jeff Hattey, Lee Beers, and Dee Jepsen

The Ohio State University

The 2023 train derailment in East Palestine, OH, required an extensive response involving federal, state, and local agencies to assess environmental, agricultural, and human health impacts. However, due to the unique nature of this incident, responsibility for monitoring the agricultural community and subsequent products was not clearly identified. The event illuminated two key issues for agriculture producers and consumers, first, what party would communicate with agricultural producers in the region and second, what potential impacts related to safety of the regional food system. The vital role of extension personnel to serve as a communication conduit highlighted the value of emergency response planning prior to the onset of the disaster. This project actively expanded the knowledge, skills, and capacity of OSU Extension (OSUE) and partners to respond to train derailments. Training engaged all four extension program areas with train-the-trainer curricula, community leadership presentations, and tabletop exercises to mimic an emergency event. Curricula includes print, electronic and video vignettes that enable county extension educators to lead community efforts in emergency preparedness while increasing the statewide incident response capacity.

MEET YOUR HIRO: AN EMERGENCY PREPAREDNESS AND FINANCIAL ORGANIZATION TOOL

Andrea Schmutz, Melanie D. Jewkes, Melanie Dabb, and Amanda Christensen

Utah State University

Disasters, whether sudden weather events or personal hardships, demand quick decision-making. In 2022, the U.S. grappled with record-breaking inflation, exacerbating challenges like unemployment and housing costs, especially in Utah. To aid in crisis preparedness, Utah State University Extension developed the Household Information and Records Organizer (HIRO) with funding from the Utah Department of Workforce Services. This resource aims to assist consumers in organizing vital documents and financial records, easing stress during emergencies. HIRO workshops, conducted virtually, focus on secure document storage, quick information retrieval, and financial management principles. Faculty guide participants through realistic scenarios, fostering understanding and highlighting the importance of organization. Evaluations from webinar participants from 2021-2023 (n=546) showed significant improvement in financial management understanding and intentions to implement positive changes among participants. Qualitative data revealed intentions to organize documents, set weekly financial goals, and begin estate planning. Benefits of organized financial records include improved financial awareness, enhanced budgeting, quick access in emergencies, simplified tax preparation, reduced stress, and long-term financial success. Conference attendees will gain insights into financial recordkeeping importance, HIRO features, and financial organization best practices.

DEMYSTIFYING THE GRANT MAKING PROCESS: BEST PRACTICES FROM THE FIELD

Maria Bowie, Angie B. Lindsey, Monty Dozier, and Vanessa Sims

University of Georgia, University of Florida, Texas A&M University, and Georgia Department of Agriculture

Special project funding can be a challenge to secure in the best of fiscal times, and an obstacle in keeping our efforts aligned and moving ahead during more difficult budget eras. One program presenters are seeing great progress through is NIFA's Smith Lever Special Needs Competitive Grant Program. The goal of the Smith-Lever Special Needs (SLSN) Competitive Grants Program is "to support extension educational outreach initiatives for disaster preparedness, response, mitigation, and recovery (pre-disasters, during, and post-disasters)" (USDA NIFA, 2024). With a 50% funding rate, this program offers institutions the opportunity to implement applied scientific programs that serve public needs in preparation for, during and after disasters. Faculty from Georgia, Florida, and Texas will share what they have learned from funded SLSN grants. Presenters will share what strategies have proven successful in putting together a favorably reviewed SLSN proposal, with examples from recently funded projects. The following key proposal components will be addressed: 1) What is a realistic timeline for proposal development?, 2) How to create a strong, transdisciplinary project team of experienced leaders, 3) Putting together a clear logic model, project timeline, evaluation plan, budget and budget justification, 4) Formatting the narrative and rules for review – page limits, data management plan, and 5) Considerations for complementary funding mechanisms – Rapid Response, FADI, Ingestion Pathway Zone awareness, planning, and education, damage and needs assessments, situational assessment reporting requirements, and information sharing.

UGA PREPARES FOR EMERGENCIES

Susan Moore, Dr. Maria Bowie, Dr. Michael Martin, Dr. Virginia Brown, Dr. Pamela Turner, Dr. Amanda Tedrow, Pamela Knox, Greg Pittman, Allie Griner, and Guy Hancock
University of Georgia

The purpose of this presentation is to share the resources and connections created and fostered through present and future plans University of Georgia (UGA) Extension has for implementing the second round of grant funding received for emergency preparedness. This presentation will be presented by UGA Extension agents involved in Emergency Preparedness and Disaster Response in Agriculture and Natural Resources, 4-H, and Family and Consumers Sciences across all four districts of Georgia. We will highlight connections and collaborations with our partner agencies and universities such as Georgia Department of Agriculture, GEMA, UFL, IFAS, FVSU, Office of Rural Health, UGA Marine Extension and Sea Grant, local community governments, local school systems, local first responders (police departments, fire departments, EMC's, etc.) and others. Join us as we share what we have learned from our past, how we are supporting Georgians currently, and what we have planned for the future as it relates to Emergency Preparedness and how it can be implemented in your state.

SPACE WEATHER IMPACT ON AGRICULTURE: POTENTIAL THREATS AND DOWNTIME COST ESTIMATES

Terry Griffin and Kathryn Draeger
Kansas State University and University of Minnesota

The impact of space weather on agricultural production and food distribution is an emergent topic. Space weather associated with 11-year solar cycles such as coronal mass ejections (CME), sunspots, and other phenomena affects operations on Earth. Some space weather events are more frequent than others. Severe events affecting the power grid in the northern half of the continental United States are relatively less common. Less severe but more common events such as radio blackouts degrade satellite communications including global navigation satellite systems (GNSS) signals due to ionospheric scintillation. Although lasting for several hours to a few days, GNSS outages farm equipment would not be able to operate using automated guidance, automated section control, coverage map sharing, and variable rate applications of fertilizer, seed, and crop protection chemicals. Without access to GNSS and associated capabilities of precision agricultural technology, implementation and harvest of on-farm experiments would be severely limited. Whole-farm downtime models formulated as linear programs were used to assess production and returns under a range of scenarios. When GNSS became unavailable for on-farm experimentation for half a day, returns to fixed costs were substantially reduced. Results are of interest to agricultural researchers, Extension professionals, crop consultants, and farm operators.

CONNECT EXTENSION: A TOOL TO ENHANCING AND EDEN DELEGATE'S WORK

Amanda Mosiman, Regan Emmons, and Ruth Inman
Purdue University and Extension Foundation

In order to better facilitate the EDEN network's internal communications, an EDEN "intranet" communications hub has been developed leveraging the Extension Foundation's Connect Extension platform. This session will review the features of this platform and how EDEN Delegates can engage with other delegates to enhance EDEN communication, collaboration, and committee work.

GET OUT OF YOUR EXERCISE RUT! USING GAMES TO BRING EXTENSION AND EMERGENCY MANAGEMENT TOGETHER TO PREPARE COMMUNITIES FOR DISASTERS

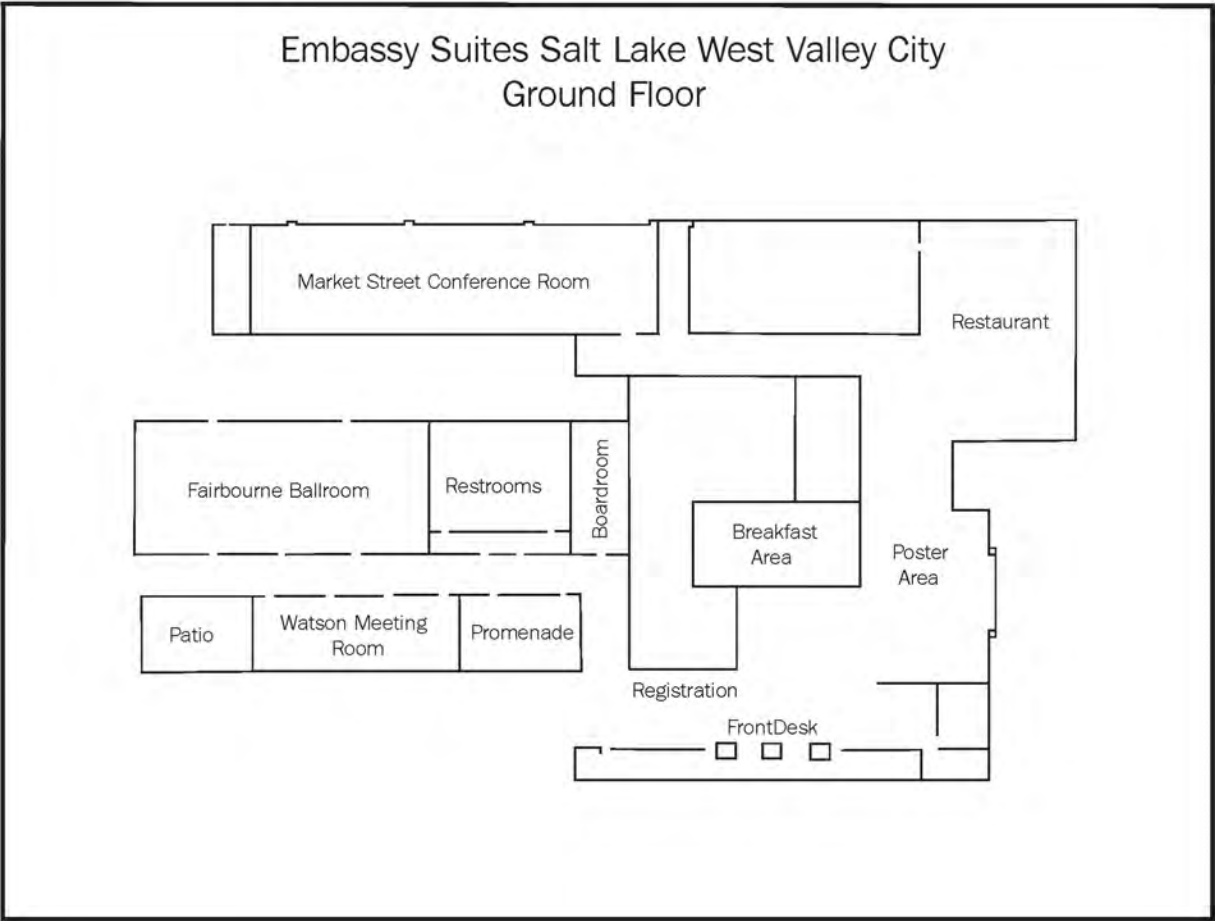
Andrea Higdon, Chelsey Anderson, and Kandice Williams

University of Kentucky

Let the games begin! LADDER – A game of cunning and collaboration is a board game that’s anything but boring. It’s an interactive tool designed for Extension to use in their counties to engage emergency managers and other stakeholders in emergency preparedness. This 1.75 hour workshop will introduce you to the power of gamification and how it can be used to exercise animal preparedness issues in community emergency operations plans. The first 25 participants will be given their own hard copy of the game printed on high-quality water-resistant paper so it can be reused. Participants will also receive hands-on training to be able to facilitate this program upon return to their home office. In this workshop, participants will understand how games can be used to analyze real-world situations and explore decision-making processes; assess how whole community involvement can enhance local preparedness initiatives; participate in an interactive game-based exercise to build hands-on experience; and develop exercise facilitation skills resulting in future implementation in their local jurisdictions. Financial support for this workshop provided by eXtension Foundation EDEN Advancing Disaster Education in America Grant (EDEN-2024-2574 2023-41595-41325). LADDER developed with funding support of USDA National Institute for Food and Agriculture Smith Lever Special Needs Competitive Grants Program (2018-41210-28701 and 2021-41210-35031).



CONFERENCE HOTEL



Conference Evaluation

How was the conference? Scan the QR code and provide feedback on the conference and activities.



Local Attractions & Restaurants



