

# The Sun Shines On It All

*Sharing responsibility for  
agricultural health and safety*



JUNE 18-21, 2023  
GRAND HYATT TAMPA BAY HOTEL  
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On behalf of the 2023 Conference Planning Committee and the ISASH Board of Directors, it is my pleasure as President of ISASH to welcome you to the 2023 ISASH Conference in sunny Tampa Bay, Florida. We are thrilled to have you join us.

Our conference theme “The Sun Shines on it All: Sharing responsibility for agricultural health and safety” serves to remind all of us that regardless of where we live or our job title, we are all ultimately looking to protect those who feed, clothe and so much more. We as researchers, practitioners, healthcare providers, farmers, and the list goes on and on; we are all in this together.

Beyond our keynote, workshops, tours and concurrent sessions, we have many opportunities for members to get involved in our member driven organization. There are many standing committees and interest group meetings and for our success, we need you. Please consider attending these meetings as well as the ISASH Business meeting.

Thank you for joining us for this incredible opportunity to learn and share from some of our superstars. The committee responsible for putting this event together have outdone themselves. As president of our organization, I extend my sincerest gratitude to the crew for investing their energy and creativity to provide a top-notch event for us to enjoy.

Thank you again, and welcome!

A handwritten signature in black ink that reads "Amy Rademaker". The signature is fluid and cursive, written in a professional style.

Amy Rademaker  
2022-2023 ISASH President  
Rural Health & Farm Safety Program Coordinator  
Carle Health

### Host Committee Acknowledgements

The local host committee chair Serap Gorucu would like to thank UF/IFAS, Agricultural and Biological Engineering Department, ISASH President Amy Rademaker, and the ISASH Conference Planning and PR Committees including:

Cesar Asuaje  
Ricardo Davalos  
LaMarr Grafft  
Ashley McLeod Morin  
Whitney Pennington  
Cassandra Ward

Wendy Bennett  
Linda Fetzer  
Salah Issa  
Gretchen Mosher  
Melissa Ploeckelman  
Bryan Weichelt

Gloria Brock  
Sebastian Galindo  
Brian Kuhl  
Dennis Murphy  
Eva Shipp

As Florida’s Commissioner of Agriculture, it is my pleasure to welcome you to the Sunshine State for the 2023 International Society for Agriculture Safety and Health Conference.

Florida agriculture and related industries are the quiet, and often overlooked, giant of our economy. Through technology, innovation, and old-fashioned hard work, our farmers, ranchers, growers, fishermen, and more provide the safest, most abundant, and affordable food supply in the nation and the world. Agriculture is a part of our state’s history and Florida will continue to be a great place to grow today and in the future.



I thank you for all you do to protect the lives and livelihoods of agricultural producers, helping them stay safe and successful in a competitive and fast-paced environment. A special thanks to the University of Florida and the Institute of Food and Agricultural Sciences for hosting this event.

To all involved, I extend my best wishes for a successful event and thank you for visiting the great state of Florida.

Wilton Simpson  
Commissioner of Agriculture  
Florida Department of Agriculture and Consumer Services

Welcome to Florida and welcome to the 2023 International Society for Agricultural Safety and Health annual conference!

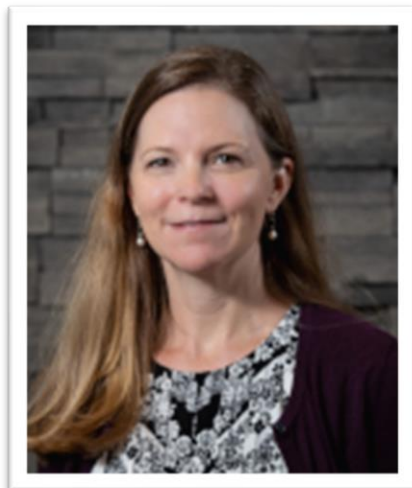
As Dean and Director of the Florida Cooperative Extension Service, I am gratified that this event is being hosted in our state. Agriculture is hard and hazardous work no matter where you live. But agricultural workers in Florida face several unique challenges. We have some of the nation’s highest daytime temperatures, UV indexes, and lightning-strike densities. The increasing spread of urban development into our state’s farmland makes transportation especially hazardous. Economic fluctuations due to hurricanes, crop diseases and invasive pests put an enormous strain on our producers and agricultural workers.

The people who put food on our tables and clothes on our backs deserve a safe and healthy work environment. That’s why UF/IFAS Extension is committed to advancing research and education in risk assessment and worker safety. We welcome this conference as an opportunity to join our colleagues from across the nation and globe in sharing innovative solutions for keeping agricultural workers safe and healthy in the field.

I hope that you’ll enjoy the Florida sunshine (with proper hydration and SPF protection, of course) and that this conference will be an informative and inspiring experience.



Dr. Andra Johnson  
Office of Dean for Extension and  
Florida Cooperative Extension Service  
University of Florida, IFAS



Greetings on behalf of the University of Florida, Agricultural and Biological Engineering Department. We are excited to welcome you and pleased to host the 2023 International Society for Agricultural Safety and Health Conference in Tampa, Florida.

I hope this conference provides meaningful opportunities for agricultural safety and health safety professionals to explore this critically important topic. I anticipate many new connections and opportunities to emerge from the conference activities.

I thank the Host Committee Chair, Dr. Serap Gorucu, and her conference planning team for all they have done to make this conference. They have done an outstanding job to create the space for advancing agricultural safety and health.

Enjoy the 2023 ISASH Conference and beautiful Tampa!

Kati Migliaccio  
Professor & Chair, Agricultural and Biological Engineering  
University of Florida

## After Conference Networking & Hospitality at Host

### Locations:

In lieu of the traditional ISASH hospitality suite, this year we encourage conference attendees to join us each evening on the hotel lawn for networking to connect with other attendees. There will be board games and grass games available, or you can sit back and enjoy the warm Florida evening!

### Get Out and Explore!

All work and no play make for a dull day, so make sure to explore the nearby attractions!

Step outside the hotel to clear your mind and explore nature along the hotel property's 9.5-mile scenic bayside trail or take a relaxing walk through the mangroves on the boardwalk.

Enjoy waterfront dinner and drinks at **Whisky Joe's** or the **Rusty Pelican** just a short distance from the hotel.

For those wanting a little more action, check out **Bay Breeze Paddle Adventure**, located onsite at the hotel, for jet skis, kayaks, paddleboards, and more!

Craving even more action? Check out these other attractions: Florida Aquarium, Hyde Park Village, and the International Plaza.

**Check with the registration desk for more information on these Tampa attractions!**

**MAP – Grand Hyatt**



ISASH Location Overview		Location
Keynote, Lunches, Banquet		Audobon DEF
Plenary Sessions, Exhibitors (Mon-Weds.)		Snowy Egret
Concurrent Sessions		Herring Gull / Pelican / Cormorant / Roseate Spoonbill
Poster Room		Snowy Egret



# Schedule Overview

## Sunday, June 18

12:00pm – 6:00pm	ISASH Registration Open	Outside Audubon DEF
6:00pm – 9:00pm	Welcome Dinner	Skylark 14 <sup>th</sup> Floor

## Monday, June 19

7:00am	ISASH Registration Open Exhibitor Setup – 9 am Poster Session A Setup	First floor Second floor hallway Snowy Egret
8:00am – 9:00am	Committee Meetings	
	Finance Committee	Herring Gull / 2 <sup>nd</sup> Floor
	Bylaws & Resolutions Committee	Pelican / 2 <sup>nd</sup> Floor
	Professional Improvement Committee	Cormorant / 2 <sup>nd</sup> Floor
	ISASH 2024 Planning Committee Meeting	Roseate Spoonbill
9:00 – 11:30am	Workshops	
	Taking Telling the Story to the Next Level	Pelican
	A Continuing Tragedy – Roadway Crashes with Slow-Moving Vehicles	Cormorant

## Pre- Conference Professional Development Workshops

### A Continuing Tragedy – Roadway Crashes with Slow-Moving Vehicles

*Purpose: The purpose of this workshop is to develop intervention proposals to reduce roadway crashes involving farm equipment.*

This workshop brings together agriculture health and safety professionals to review our current knowledge about the problem of roadway crashes involving farm equipment. The workshop participants will then evaluate the impact of past interventions and propose new ones to reduce this continuing problem on our rural roads.

### Taking Telling the Story to the Next Level

*Purpose: To share with others how to write their own farm incident stories with prevention messages.*

Research has indicated that stories can improve health attitudes and outcomes. At this workshop, members of the Telling the Story Project team will provide attendees with a playbook for creating safety messaging through storytelling.

# Monday, June 19

12:00pm – 1:00pm	Lunch and Opening Remarks	Audubon/DEF / 1 <sup>st</sup> Floor
1:00pm - 1:50pm	<b>Keynote Address</b> <i>Managing Unconventional Risk</i>  <b>Heather Earl</b> Manager of Safety Services for Magic Kingdom and Disney’s Hollywood Studios at the Walt Disney World Resort	Ballroom DEF
2:00pm – 3:00pm	Concurrent Oral Presentation Sessions - <i>See page 10</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
3:00pm – 3:30pm	Poster Session A - <i>See page 14</i> / Coffee Break	Snowy Egret / 2 <sup>nd</sup> Floor
3:30pm – 4:30pm	Concurrent Oral Presentation Sessions - <i>See page 10</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
4:30pm – 5:30pm	<b>Interest Groups</b>  Family, Farmstead, & Leisure Time Rural Occupational Health Tractor, Machinery, and Transportation	Herring Gull Pelican Cormorant
6:00pm – 9:00pm	Dinner on Your Own / CASN Dinner (By Invitation)	
7:00pm	Host Location Networking	Hotel Lawn Will move inside if raining



## Keynote Speaker – Heather Earl

Heather is the Manager, Safety Services for the Magic Kingdom and Disney’s Hollywood Studios at the Walt Disney World Resort where she and her team partner with operations to identify and mitigate risk and develop safety and wellness strategies to cultivate culture and prevent incidents.

Heather formerly worked for Tyson Foods as Health and Safety Operations Manager where she and her team were tasked with overseeing and guiding health and safety programs for facilities in 11 states and Mexico including poultry and beef slaughter and further processing plants, feed mills/ delivery, hatcheries, truck maintenance facilities, rendering plants, flour tortilla plants, canned ham facilities, turkey operations, proprietary breeding stock operations, live production/farming operations and more.

Heather is a Certified Safety Professional (CSP), a Certified Professional Environmental, Health and Safety Auditor (CPEA), and a Professional Member of the American Society of Safety Professionals (ASSP).

She was honored as the 2006 Arkansas Safety Professional of the Year (SPY), the 2010 and 2022 Central Florida SPY, and the 2010 Region IV SPY. She also received the 2006, 2009 and 2010 National North American Occupational Safety and Health Week Champion awards and the 2014 Diversity Award from ASSP Society Headquarters. She now serves on the Advisory Board of ASSP’s Women in Safety Excellence.

Heather serves on the board of the United Safety Council, previously served on the National Chicken Council Safety and Health Committee, and an alumna of the Fraternity of Alpha Zeta.

Heather is a graduate of the University of Florida College of Agricultural and Biological Engineering (BS, MS) and is currently pursuing the graduate certificate in Total Worker Health® from University of Colorado Denver Anschutz School of Public Health.

## Tuesday, June 20

7:00am – 8:00am	Interfaith Gathering	Cormorant
7:30am – 12:30pm	Registration	Second Floor
8:00am – 9:00am	New Member Breakfast & Membership Committee Meeting	Roseate Spoonbill
	Public Relations Committee Meeting	Herring Gull
	Endowment Committee Meeting	Pelican
	Research & Development Committee Meeting	Cormorant
9:00am – 10:00am	Concurrent Oral Presentation Sessions - <i>See page 11</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
10:05am – 10:30am	Group Picture	
10:30am – 11:00am	Poster Session B - <i>See page 14 / Coffee Break</i>	Snowy Egret
11:00am – 12:00pm	Concurrent Oral Presentation Sessions - <i>See page 11</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
12:00pm – 12:30pm	Board Buses & Pick Up Box Lunches	Audubon Ballroom DEF
12:30pm – 5:00pm	Tours	
	Tour 1: Gulf Coast Research and Education Center	Pick up Boxed lunch and Board Buses in parking lot
	Tour 2: Keel Farms & Winery	Pick up Boxed lunch and Board Buses in parking lot
	Tour 3: Alligator & Wildlife Discovery Center	Ballroom DEF
6:00pm	Dinner on Your Own	
6:30pm	ISASH Board of Directors-Dinner and Meeting	White Ibis – 1 <sup>st</sup> floor
7:00pm	Host Location Networking	Hotel Lawn Will move inside if raining

## Wednesday, June 21

7:00am – 8:00am	Breakfast on Your Own	
7:30am – 9:00am	Committee Meetings	
	Past Presidents Breakfast	Restaurant – 1 <sup>st</sup> Floor
	Long Range Planning	Cormorant
9:30am – 10:30am	Concurrent Oral Presentation Sessions - <i>See page 12</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
10:30am – 11:00am	Poster Session C - <i>See page 15 / Coffee Break</i>	Snowy Egret
11:00am – 12:00pm	Concurrent Oral Presentation Sessions - <i>See page 12</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
12:00pm – 1:00pm	Lunch	Audubon Ballroom DEF
1:00pm – 2:00pm	Concurrent Oral Presentation Sessions - <i>See page 13</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
2:00pm – 3:00pm	Concurrent Oral Presentation Sessions - <i>See page 13</i>	Cormorant / Herring Gull / Pelican / Roseate Spoonbill
3:00pm – 3:30pm	Coffee Break	Snowy Egret
3:30pm – 5:00pm	ISASH Business Meeting	Cormorant
5:00pm – 6:00pm	Break – Exhibitor and Poster Breakdown	
5:30pm	Cash Bar and Silent Auction Final Bids	Audubon Ballroom DEF
6:00pm – 9:30pm	Banquet and Endowment Auction	Audubon Ballroom DEF

## Concurrent Sessions – Monday, June 19

	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
2:00pm	Pediatric Lawn Mower-Related Injuries and Contributing Factors for Bystander Injuries (Jennissen, Krupp, Vakkalanka, Hoogerwerf)	Updating the Hired Agricultural Youth Work Guidelines (Salzwedel, Wanat, Pilz)	Industry Partnerships in Agricultural Safety Research and Outreach – A Success Story (Vansickle & Duysen)	<b>Workshop</b> Using Social Marketing Tools to Understand Behavior Change in the Agricultural Workplace
2:20pm	Mental Health of Agricultural College Students (Rudolphi, Gibbs, Sheridan, Sullivan)	Integrating Inclusive Research: Facilitating Safety Instructor Development (Jackson, Pate, Lawver, Perry, Smalley, Hafer, Edgar, Young)	Benefits of third-party certifications for ag worker welfare: Examples from the U.S. food supply chain (Michael & Gorucu)	Paul Monaghan and Miranda Carver Martin
2:40pm	Rural Adolescent Attitudes and Use of Equestrian Helmets (Iverson, Spolsdoff, Hoogerwerf, Wetjen, Landers, Jennissen)	Implementation of a Quick Response (QR) Based Training for Tractor Operation Performance Skills to Aid in Student Learning of Individual Component Identification, Function, and Safety (Rudolph)	A National Strategy for Health & Safety in Swedish Agriculture 2023-2027 (Lundqvist, Edvardsson, Ekman, Kindbom, Marcopoulos, Göransson)	
	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
3:30pm	Heat-related Illness and Death among Agricultural Workers: The National Narrative (Grzywacz, Thompson, Daniels)	Farmers' Psychosocial Work Environment and Mental Health - An International Review (Lundqvist, Håkansson, Hakelius)	Gender-Specific Difference in Reported Respiratory Protection Behaviors of Young Adult Hog Producers (Gibbs, Sheridan, Sullivan, Nonnenmann)	<b>Symposium</b> Findings from the SAFETY for Emerging Robotics and Autonomous Agriculture (SAFER AG)
3:50pm	Risk Factors for Skin Cancer and other Skin Diseases in Farmers and Ranchers in the US Central States (Tucker, Du, Ahmed, Haynatzki, Rautiainen)	Mental Health among Agricultural Producers in the North Central Region: Reported Barriers and Preferred Avenues for Intervention (Dierickx, Cuthbertson, Rudolphi)	Evaluating an Educational Intervention to Reduce Pesticide Exposure Among Farmers in Nigeria (Udoh, Rohlman, Sindt)	Salah Issa John Shutske Jennifer Lincoln Aaron Yoder Farzaneh Khorsandi Serap Gorucu Michael Pate Trent Johnson
4:10pm	Hearing Loss, Environmental Exposures, and Work History in Female Farmers & Ranchers (Moore)	Enhancing Compassion and Caring with the Challenge Coin Conversation (Ward & Witt)	Utilizing a Holistic Approach to Teach and Improve Agricultural Worker Safety (Paolillo, Bosques-Mendez, Rodriguez Rosado, Pérez Cordero, White)	

## Concurrent Sessions – Tuesday, June 20

	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
9:00am	Social and Individual Influences on ATV/UTV Operating Practices of Young Adult Agricultural Workers (Barnett, Rohlman, Rudolphi)	A Review of the Literature for Forestry Health and Safety: The Last Ten Years (Haskins & Stolfus)	North Carolina Women in Agriculture: Health Survey and Opportunities Healthcare Innovation (Caviness, & Tutor-Marcom)	<b>Workshop</b>  The Importance of Emergency Planning  Matthew Spencer
9:20am	Capabilities and Limitations of Youth All-Terrain Vehicle Operators (Khorsandi, De Moura Araujo, Fathlallah)	The Effect of Selected Rest Break Activities on Reaction Time, Balance, and Perceived Discomfort ... (Burnett, Tweten, Okpalauwaekwe, Milosavljevic, Trask)	Zinc Protects Against Swine Barn Dust-induced Cilia Slowing (Wyatt, Samuelson, Knoell)	
9:40am	Rural Adolescent Attitudes and Use of Helmets While Riding ATVs, Motorcycles and Dirt Bikes (Jennissen, Iverson, Spolsdoff, Wetjen, Landers, Hoogerwerf)	Utilizing Workers' Compensation Claims to Characterize Ergonomically Related Injuries in California Farms (Fathallah, Mendez, Bang, Khorsandi)	Florida Farmer's Socks – An Extension Report (Stauderman)	

	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
11:00am	Testing the Potential Efficacy of Voluntary Signs for Farm Activities for Reducing Roadway Accidents and Fatalities (Marshall, Scarlett, Wagi Jr.)	Burden of Non-fatal Injuries Reported by Coastal Gulf Seafood Workers: Results from a Community-based Survey (Kane, Brooks, Coker, Dunleavy, Gorucu, Durboro, Myers)	A National Study of Firearm Presence and Storage Practices in Rural Adolescent Homes (Linden, Sinik, Hoogerwerf, Wetjen, Liao, Jennissen)	<b>Symposium</b>  Innovations in Outreach  Marsha Cheyney Jana Davidson Ellen Duysen Melissa Ploekelman
11:20am	Exploring Farm Labor Transport-Related Crashes in Florida (Moore, Gorucu, Bliznyuk)	Impact of COVID-19 on Logging Fatality Rates in the US (Marcom & Altizer)	A National Study of Rural Youth's Exposure to Firearm Violence and Attitudes Towards Firearm Safety Measures (Sinik, Linden, Hoogerwerf, Wetjen, Liao, Jennissen)	
11:40am	Summary Of Roadway Incidents Involving Agricultural Equipment in Five Midwestern States Using the Fatality Analysis Reporting System (FARS) (Tormoehlen & Rudolphi)	Crew Overboard Recovery for Commercial Fishermen in the Gulf of Mexico (Levin & Wickman)	Legal Consequences of child endangerment on family farms (Lee, Benny, Beyer, Krolczyk)	

## Concurrent Sessions – Wednesday, June 21

	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
9:30am	Seasonal Migrant Farmworkers' Attitudes Towards Exoskeleton Suits to Be Used in a Large-Scale Plant Nursery (Gomez, Thamsuwan, Barros-Castro, Barrero)	A Cross-Sectional Study of Farmer Health and Wellbeing in Norway: The HUNT Study (2017 - 2019) (Steen, Krokstad, Torske)	Determinants of Acute Allergic Urticaria (Jadhav, Alcalá, Sirota, Capitman)	<b>Workshop</b>  Program Evaluation: Utility, Approaches, and Challenges with NIOSH Agricultural Safety and Health Centers across the US  Cassandra Ward Sebastian Galindo Andrea Swenson Shannon Sampson Cheryl Beseler Jennifer Lincoln
9:50am	Modeling Weather Patterns and Grain Quality to Predict Engulfments and Entrapments (Mosher, Beseler, Pizarro, Derry)	Illinois Agricultural and Farm Youth Leader Mental Health Conversations: The Role of Confidence, Knowledge, and Stigma (Barnett & Rudolphi)	Veteran's Farm of NC Holistic Health Approach: Model for Navigating the Transition from Military to Civilian Life through New Farmer Education Program (Spence, Elliot, Bellamy, Tutor-Marcom)	
10:10am	Geospatial Incident Analysis for The State of Indiana (Etienne & Field)	Farmer Suicide Among States Reporting Violent Deaths, 2003 - 2017. (Norrod, Sanderson, Abner, Seals, Browning)	Great Lakes Center for Farmworker Health and Well-being: Protecting agriculture's most vulnerable workers (Rudolphi & Forst)	

	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
11:00am	Safety Curricular Needs of Rural High Schools in Iowa (Temple, Freeman, Mosher)	Agricultural Youth Work Guidelines: Assessment of Voluntary Work Guidelines (Swenson, Saucedo, Salzwedel, Peltier)	The Canadian Agricultural Injury Reporting (CAIR) Agriculture-related Fatalities in Canada 1990-2020 (Anderson, Lear, Belton, Druel)	<b>Workshop</b>  An Integrated Approach to Addressing the Biological-Social-Spiritual-Psychological Needs of Farmers, Farm Families, and Farm Workers through Strategic Partnerships  Brian Davis
11:20am	Assessing Long-Term Impacts of Agricultural Safety Education in New York Old Order Mennonite Schools (Carrabba, Milkovich, Scribani)	AgriSafe's FarmResponse: Looking back at the first year (Haskins & Beseler)	Tractor Injuries in the Upper Midwest: A Retrospective Analysis of Trauma Admissions (Johnson, Sang, Gilblom, Sahr)	
11:40am	Student Comprehension of BioSecurity Curriculum Comparing Pre/Post-test Evaluations of In-person and Virtual Delivery (Morris, Ehlers, Rudolph)	Strengthening the methods to generate valid contribution claims of impact: A developmental example from the NIOSH centers for agricultural safety and health (Nelson & Galindo)	Central States Center for Agricultural Safety and Health (CS-CASH) Injury and Illness Surveillance Program 2016-2022: Summary of Findings (Rautiainen & Adhikari)	

## Concurrent Sessions – Wednesday, June 21 (continued)

	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
1:00pm	Adding Safety Information to Wikipedia Articles (Wanat, Salzwedel, Pilz)	Merging Human and Animal Health and Welfare Databases to Learn More About the Farmer-Livestock Relationship. The HUNT Study, Norway (Torske, Steen, Ursin, Muri)	Using Worker's Compensation to Help Inform Prevention (Franklin & Eagers)	<b>Workshop</b> Farmworker COVID-19 Community Assessments: Rapid Data Collection with H-2A workers, Mesoamerican Indigenous Farmworkers, and Farmworkers without U.S. Work Authorization
1:20pm	Sharing Tools with Emergency Medical Services Providers (Salzwedel, Wanat, Bendixsen)	Hazard Controls and Occupational Health and Safety Risks for Cattle Stunning (Ospina, Gorucu, Hofstetter)	Secondary Victims Associated with Incidents Involving Agricultural Confined Spaces (Nour, Field, Cheng, Sheldon)	Bethany Boggess Alcauter Nicandro Mandujano Acevedo Sarah Prager
1:40pm	Demeter: A decision support tool for small and mid-size farms (Mintas, Martin, Seward, Lamberton, Weichelt)	A Comprehensive, Data-Based Intervention to Reduce Antibiotic Resistance Risk Among Dairy Workers (Shutske, Gonzalez, Veaser, ... Young)	The Leading Causes of Death among US Farmers and Ranchers: Using 2020 CDC Mortality Data (Miller & Rudolphi)	

	Cormorant	Herring Gull	Pelican	Roseate Spoonbill
2:00pm	Sources Of Occupational Stress and Coping Strategies Among Farmers in Ontario, Canada (Thompson, Hagen, Jones-Bitton)	A National Study of Firearm Use and Safety Training of Rural Adolescents (Miller, Linden, Sinik, Hoogerwerf, Wetjen, Liao, Jennissen)	Characteristics Of Self-Reported Work Environment of Norwegian Farmers From the 1980s to 2019 (The HUNT Study, Norway) (Ursin & Torske)	<b>Workshop</b> What does an international collaboration in Agricultural Safety look like?  Richard Franklin Peter Lundqvist Marsha Salzwedel
2:20pm	Promoting Farmer Appreciation by Assisting Farmers to Share their Stories (Jones, Ferrell, Malin, Garrett-Wright)	Building Capacity Through the NE Ag Safety and Health Coalition (Fetzer, Boyer, Hirabayashi)	Safety Assemblages: An Anthropological Perspective on Safety Culture at Migrant Farm Workers' Workplaces in Agriculture (Lovelady & Wilms)	
2:40pm	Farm Adolescent and Adult Mental Health – Results From Two Years of Farm Family Surveys (Rudolphi & Berg)	Snowmobile Helmets: Attitudes and Use by Rural Adolescents (Iverson, Spolsdoff, Hoogerwerf, Wetjen, Landers, Jennissen)	Exploring Public Opinion of Agricultural Health and Safety in the Southeastern Coastal United States (McLeod-Morin, Telg, Anderson, Sadler, Irani, Lindsey, Lundy)	

## Poster Sessions

Posters will be hung by 10:00am on Monday and 8:00am on Tuesday and Wednesday. **Please visit posters during breakfast hour and throughout the day.**

### Session A: Monday, June 19 (3:00-3:30pm)

No	Title/Authors
A1	Teen Safety and Health Influencers: Youth peer-to-peer engagement strategies to foster positive change (Jana Davidson, Brian Kuhl)
A2	Establishing a Bilingual TikTok Account to Promote Agricultural Health and Safety (Chasel Valdiviezo-Perez, Whitney Pennington, Tim Porter)
A3	Development of a Guide and Resources to Improve Community Capacity for Respirator Fit Testing According to WPS Guidelines (Carolyn Sheridan, Jenna Gibbs, Matthew Nonnenmann, Diane Rohlman, T. Renee Anthony)
A4	Evaluation of the FarmSafe Podcast: Planning, Promotion, and Lessons Learned (Mandy Archer, Anna Proctor, Jennifer Patterson, Marsha Cheyney, Renee Anthony)
A5	Disconnect Between Farm Parents' Self-Efficacy, Concerns, and Barriers to Behavioral Intention (Richard Burke, Bryan Weichelt, Kang Namkoong)
A6	Moving the National Agricultural Safety Database into the Future: Evaluating Website Quality (Aaron Yoder, Cheryl Beseler, Jeffrey Nelson, Serap Gorucu)
A7	The Use of Challenge Coins to Address Teenage Mental Health Among Secondary Agriculture Youth (Kelly J. McFarland, Stacy K. Vincent, Dale Dobson)
A8	Effectiveness of Challenge Coin Presentation as a Protective Factor of Depressive Symptoms in Farmers and Farm (Cheryl Witt, Frances Hardin-Fanning, Susan Jones, Jeanne Ward, Lanie Miller)
A9	A Risk Assessment Methodology for Cattle Stunning Activities (Carlos Ospina, Serap Gorucu, Dan Hofstetter)
A10	Seasonal variation in Injury Characteristics and Outcomes among Farmers and Ranchers in the Central United States (Rishad Ahmed, Yi Du, Gleb Haynatzki, Sarah Tucker, Risto H Rautiainen)
A11	Analyzing Logging Truck-Related Crashes in Florida (Madison Moore, Serap Gorucu, Nikolay Bliznyuk)
A12	AgroGuardian: An All-Terrain Vehicle Rollover Detection & Emergency Notification System (Farzaneh Khorsandi)

### Session B: Tuesday, June 20 (10:30-11:00am)

No	Title/Authors
B1	Investigating Patterns and Trends in ATV-Related Injuries: A Comprehensive Analysis Using National Electronic Injury Surveillance System Data (Fernando Ferreira Lima Santos, Farzaneh Khorsandi)
B2	¿Quieres saber lo que pensamos? You want to know what we think? Migrant Latino Dairy Worker's views on Farm Safety (Dan Baker, Anna Meyerhoff)
B3	Agricultural injury surveillance and assessment of needs for health and environmental monitoring for rural first responders during agriculture emergencies (Sarah Tucker, Aaron Yoder, Ann Fruhling)
B4	Livestock Handling Safety: A 4-H Resource Guide for Youth, Parents and Project Advisors (Hayli Skinner, Dee Jepsen)
B5	Clean Air - I Care: Farmworker families coping with the stress of wildfire season in Washington (Isabel Nerenberg, Savannah D'Evelyn, Laura Rivera, Maria Blancas)
B6	Organic dust-induced inflammatory response and molecular regulation of phagocytic activity by macrophages (Kristen Foust, Dawn R. Conklin, Rohit Ranabhat, Radiah C. Minor, Jenora T. Waterman)
B7	Engaging Florida Farmers to Improve Their Foot Health (Karen Stauderman)
B8	Risk Factors Associated with Urine Specific Gravity in a Heat-Related Illness Intervention Study, Florida 2021-2022 (Chibuzor Abasilim, Miranda Carver Martin, Jose Perez, Maria Morera, Fritz Roka, Nezahuacoyotl Xiuhtecutli, Gracia Gabriela, Linda Forst, Lee Friedman, Paul Monaghan)
B9	Equipment and Ergonomic Safety for an Inmate Farm Squad (Yvette Goodiel, Serap Gorucu)
B10	Safety culture and risk management in agriculture (Sacurima): findings of the EU-funded COST Action (Anne Marie Heiberg, Risto Rautiainen, Jarkko Leppälä)
B11	AgInjuryNews in 2023: An Overview of Available Data, Collaborations, Usage and Outputs (Christopher Benny, Serap Gorucu, Matthew Pilz, Kyle Koshalek, Christopher Wanat, Bryan Weichelt)
B12	Using ROPS Rebate Program Waitlist Data to Garner Support for Funding in Texas (Shelbie Lambert)
B13	An Analysis of Secondary Students' Understanding of Farmer Suicide Drivers Following a State-Wide Essay Competition (Kelly J. McFarland, Katrina A. Clontz, Stacey K. Vincent)



## Session C: Wednesday, June 21 (10:30-11:00am)

No	Title/Authors
C1	Survey to evaluate the opinion of all-terrain vehicle operators about crush protection devices in USA (Minyoung Hong, Farzaneh Khorsandi)
C2	Sexual Harassment Prevention in Agriculture: Evaluating a Tailored Worksite Training for Latino Farmworkers in Washington State (Dennise Drury, Jody Early, Michael Yost)
C3	Burden of Injuries on Cattle Feedyards in the United States (Suraj Adhikari, M. Yoder, Mike Keenan, Athena K. Ramos, Risto Rautiainen)
C4	Injury and Illness Prevention Program Online Trainings (Leslie Olivares)
C5	Assessing the efficiency and safety issues of farming tools and equipment used by women farmers (Jianfeng Zhou, Karen Funkenbusch, Marcia Shannon)
C6	AgrAbility State Project Interviews: What Have We Learned? (David Diehl, Catherine Cardenas, Mia Kittredge, Rebekka Perinne, Lindsey Head, Serap Gorucu, Cassandra Ward)
C7	The antioxidant supplement N-acetylcysteine (NAC) reduces the effects of radicals in airway cells exposed to organic dust from swine facilities. (Rohit Ranabhat, Jenny Pakhrin Rana, Kristen Locke Foust, Jenora T. Waterman)
C8	Phagocytic property of CD163+ macrophages and effect of Dexamethasone and N-acetylcysteine on organic dust-induced inflammatory response by macrophages (Jenny Pakhrin Rana, Kristen Locke Foust, Rohit S. Ranabhat, Jenora T. Waterman)
C9	Essential and exposed: Agricultural worker vulnerabilities during the COVID-19 pandemic (Paul Monaghan, Miranda Carver Martin, Jose Perez, Antonio Tovar, Maria Morera, Nezahualcoyotl Xiuhtecutli, Linda Forst)
C10	Using Agriculture Education as a Holistic Health Approach: An Innovative Model for Navigating the Transition from Military Service to Civilian Life (Alyssa Spence, Robert Elliot, Roberta Bellamy)
C11	Impacts and coping mechanisms of farmers as victims by animal rights activism in Sweden (Peter Lundqvist, Vania Ceccato, Jonathan Abraham, Catharina Alwall Svennefelt, Eva Göransson)
C12	Farm Machine Injuries in the Upper Midwest: A Retrospective Analysis of Four Trauma Centers (Hilla Sang, Elizabeth A. Gilblom, Angela B. Johnson, Sheryl M. Sahr)
C13	Developing and testing a new agricultural health and safety program specific to livestock veterinarians (Colin Yoder, Jenna Gibbs, Carolyn Sheridan, David Sullivan)

# ISASH Board of Directors 2022-2023

		TERM ENDING	EMAIL ADDRESS
President	Amy Rademaker	June 2023	Amy.Rademaker@carle.com
President-Elect	Brian Kuhl	June 2023	bkuhl@progressiveag.org
Treasurer, Director	Wendy Bennett	June 2025	Wendy@agsafebc.ca
Director	Jim Carrabba	June 2023	jim.carrabba@bassett.org
Director	Gloria Brock	June 2024	brockgloria@johndeere.com
Director	Josie Rudolphi	June 2024	josier@illinois.edu
Director	Carolyn Sheridan	June 2024	carolynsheridan@aghealthandsafety.com
Director	Steve Freeman	June 2025	sfreeman@iastate.edu
Director	Athena Ramos	June 2025	aramos@unmc.edu

## Ex-Officio to the Board

Past-President	Michael Pate	June 2023	Michael.pate@usu.edu
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## Thank You 2022-2023 ISASH Committee Chairs:

COMMITTEE	CHAIR/CO-CHAIRS	INTEREST GROUPS	CHAIR
Awards	Carolyn Sheridan Aaron Yoder	Family, Farmstead, and Leisure Time	Saxon Ryan
Bylaws & Resolutions	Aaron Yoder Dean Anderson	Rural Occupational Health	Jessica Salerno
Endowment	Murray Madsen	Tractor, Machinery and Transportation	Serap Gorucu
Finance	Natalie Roy Mike DeSpain		
Long-Range Planning	Scott Heiberger		
Membership	Ellen Duysen David Sullivan		
Professional Improvement	Gretchen Mosher Salah Issa		
Public Relations	Jana Davidson Melissa Ploeckelman		
Research & Development	Karen Funkenbusch Jaime Thissen		

# ISASH Presidents

TERM	NAME	ORGANIZATION	TERM	NAME	ORGANIZATION
1962-63	Dr. Norval J. Wardle	Iowa State University	1992-93	John Pollock	Cornell University
1963-64	Randall C. Swanson	University of Wisconsin	1993-94	Dr. William Becker	University of Florida
1964-65	Wilbur E. Stuckey	The Ohio State University	1994-95	Brad Rein	USDA
1965-66	Edward S. Adams	Iowa Farm Bureau	1995-96	Dr. Barbara Lee	National Farm Medicine Cent.
1966-67	Ward H. Cross	Texas Farm Bureau	1996-97	Dr. Mark Purschwitz	University of Wisconsin
1967-68	Ordie L. Hogsett	University of Illinois	1997-98	Ron Jester	University of Delaware
1968-69	Rollin D. Schnieder	University of Nebraska	1998-99	Chuck Brundage	AgCo
1969-70	Orrin I. Berge	University of Wisconsin	2000-01	Eric Hallman	Cornell University
1970-71	Dr. F. R. Wilsey	Purdue University	2001-02	Dr. David Hard	NIOSH
1971-72	Delbert L. Ekart	Kansas Farm Bureau	2002-03	Tom Karsky	Idaho State University
1972-73	Ordie L. Hogsett	University of Illinois	2003-04	E. Bruce Stone	Virginia Farm Bureau
1973-74	James L. Williams	Country Companies	2004-05	Dr. Charles Schwab	Iowa State University
1974-75	Dr. Gary Erisman	Illinois State University	2005-06	Dr. Dee Jepsen	The Ohio State University
1975-76	Thomas E. Richardson	California Farm Bureau	2006-07	Murray Madsen	Great Plains Cntr. for Ag. Health
1976-77	Raymond W. Forsythe	Farm Bureau Mutual Ins. Co.	2007-08	Dr. Glen Hetzel	Retired Virginia Tech, Farmer
1977-78	Larry D. Williams	Country Companies	2008-09	Glen Blahey	Manitoba Farm Safety
1978-79	Ben B. Bullard	Texas Farm Bureau	2009-10	Bernard Geschke	Progressive Ag. Foundation
1979-80	Clair W. Young	The Ohio State University	2010-11	Mike Despain	Deere and Co.
1980-81	David E. Baker	University of Missouri	2011-12	Marsha Purcell	American Farm Bureau
1981-82	Richard A. Beyer	Louisiana Farm Bureau Fed.	2012-13	George Cook	University of Vermont
1982-83	Dr. Robert A. Aherin	University of Minnesota	2013-14	Chris Shivers	Mississippi Farm Bureau
1983-84	Douglas C. Sommer	Country Companies	2014-15	Dr. Risto Rautiainen	University of Nebraska Med. Cen.
1984-85	Dr. Glen Hetzel	Virginia Polytechnic Institute	2015-16	Marcel Hacault	Canadian Ag. Safety Association
1985-86	Dr. Dennis Murphy	Penn State University	2016-17	Dr. Aaron Yoder	Central States Center for Ag S & H
1986-87	Gary L. Downey	Grinnell Mutual Reins. Co.	2017-18	Dr. Dee Jepsen	Ohio State University
1987-88	Dr. Thomas L. Bean	West Virginia University	2018-19	Dr. Peter Lundqvist	Swedish Univ of Ag Sciences
1988-89	Michael Blankenship	Mississippi Farm Bureau Fed.	2019-20	Scott Heiberger	National Farm Medicine Cent.
1989-90	David Finney	Kentucky Farm Bureau	2020-21	Sandy Miller	Workplace Safety & Prev. Servcs.
1990-91	Gary Smith	University of Maryland	2021-22	Dr. Michael Pate	Utah State University
1991-92	Murray Madsen	Deere and Company	2022-23	Amy Rademaker	Carle Health
			2023-24	Brian Kuhl	Progressive Ag. Foundation

# Value of ISASH Membership

Since 1949 ISASH has worked to be the voice of agriculture health and safety! We concentrate on safety issues in agricultural production around the world. A network of more than 200 people, ISASH members come from agricultural businesses, equipment manufacturers, government agencies, hospitals and healthcare clinics, universities, and other safety organizations.

## An ISASH membership provides you opportunities to:

- **LEARN** about issues and educational opportunities available from others in the agricultural safety and health industry.
- **NETWORK** with other safety and health professionals from across the world throughout the year.

## ISASH members have access to:

- **ISASH MIGHTY NETWORK**, an online member area to network with others, have topic discussions and brainstorm for research ideas and use existing research available to put into practice.
- **DISCOUNTED CONFERENCE REGISTRATION**

**Discounted memberships** and conference scholarships are available to support students and professionals from low and lower-middle-income countries.

Join today at <https://isash.org/>



*Attendees at the 2022 Annual Conference in Ft. Collins, Colorado*

## Already a member? Are you making the most of your membership?

The ISASH Members site is a great place to connect and share ideas throughout the year.

To get the most out of this online community, make sure to:

- Set up your profile.
- Update your notification settings.
- Contribute to a discussion.
- RSVP to upcoming events.

## Mission

ISASH is an organization dedicated to the professional development of agricultural safety and health professionals, providing national and international leadership in preventing agricultural injuries and illnesses to the agricultural community. ISASH provides opportunities for sharing information about research and intervention programs, improving professional skills and knowledge, networking and other supportive activities.



## Purpose

This corporation is organized and shall be operated exclusively for educational and scientific purposes and in furtherance thereof and for no other purpose: To engage in or support scientific research in farm safety and in the public interest; to conduct training institutes for workers in agricultural safety and others interested in agricultural safety; and other activities similar in nature. The corporation shall not engage, other than as a substantial part of its activities which are not in themselves, in furtherance of its educational and scientific purposes.

## Objectives

Provide professional development opportunities for its members, including:

- Annual meeting
- Professional development short courses
- Encouragement to publish articles in professional journals.
- Review and evaluation of proposed and existing safety and health related standards.
- Support and promotion of research in agricultural safety and agricultural accident analysis.
- Development of research in agricultural safety and agricultural accident analysis.
- Development of communications and the sharing of resources with other professional societies and organizations related to common agricultural concerns.

## Issue Area Committee Meetings

All members in attendance, whether a Regular Member or a Student Member, shall have the right to make motions, vote, and discuss issues before the committee.

## Standing Committee Meetings

Only standing committee members shall be allowed to make motions and vote on motions before any specific standing committee. Any ISASH Regular Member or Student Member in attendance may make comment or provide input to the standing committee membership regardless of membership classification.

## At Any Business Meeting of the Society

As established in the bylaws, only Regular Members may make and vote on motions, but all members maintain the right to discuss any topic before the society.

## Procedure for Resolutions

Resolutions can be proposed by the members during the committee meetings and recommended by the sponsoring committee at the annual business meeting or can be proposed by any Regular Member at the business meeting. In either instance, it is incumbent upon the proper(s) to work with the bylaws and resolutions committee to ensure in advance of action at the annual business meeting that the resolution is of the proper form and format. In general, that form and format have a "Be it therefore resolved" recommendation and action, which is preceded by one or more explanatory and justifying "Whereas" statements



*Protecting People in Agriculture*

ISASH  
PO Box 3108  
LaGrange, GA 30241  
[info@isash.org](mailto:info@isash.org)



## Not a member? Join us!

Joining ISASH gives you access to resources and colleagues from around the world. The ISASH network provides a platform for learning, teaching, and growing life-long connections. It's the easiest way to stay in-touch with the new connections you've made during the annual conference. We look forward to connecting with you soon!

Join at [isash.org](http://isash.org)