

SOUTHWEST AG SUMMIT

FEBRUARY 20 - 22, 2024

OFFICIAL PROGRAM







WELCOME TO THE SOUTHWEST AG SUMMIT!

On behalf of the Yuma Fresh Vegetable Association, Arizona Western College Foundation, University of Arizona Cooperative Extension, and Yuma County Farm Bureau, we welcome you to the 18th Southwest Agriculture Summit. We hope you will take advantage of all the Summit opportunities beginning with the Jacob Louis Daily Golf Tournament and ending with The Harvest Dinner.

Thank you for joining us at this year's Southwest Ag Summit. Yuma Fresh just finished celebrating our 75th anniversary. With your continued participation and support of this event and our association, we will strengthen our commitment to connecting, protecting, and promoting Ag through Ag education and sharing up-to-date information with our industry for another 75 years.

The success of the summit has always been a result of a collaboration among our agricultural industry leaders, University research, teaching and extension faculty. We are honored to be working collaboratively this year to bring you greater presentation diversity throughout our three-day schedule. We build on the strength of the past 75 years of Yuma Fresh Vegetable Association's membership as well as the Yuma County Farm Bureau's general agricultural leadership. United, we have created the premiere agricultural

event that encompasses virtually every aspect of scientific, technical and practical crop production and related fields.

As an industry we continually need to look forward and that is the theme of this year's summit. There are many great opportunities that will be presented and it is exciting.

Yuma agriculture recognizes the unique role that the Arizona Western College and the University of Arizona play in both preparing students for the workplace and enhancing the skills of professionals already on the job. In this light, we will welcome local students to our 2024 conference as well, and invite them to see for themselves, that agriculture is certainly more than farming. We are well aware that the Summit would not be possible without our sponsors, community partners, media partners and many more that come together to ensure its success. I hope you will take advantage of all the Summit has to offer. I look forward to seeing you all.



Mike Pasquinelli, President Yuma Fresh Vegetable Association









KEYNOTE SPEAKERS

MORNING KEYNOTE 7:30–8:15a

"Farming for the Future"

Guest Speakers:

- Paul E. Brierley, CEO & EDD, Arizona Department of Agriculture
- Walt Duflock, Vice President of Innovation, Western Growers
- Matt McGuire, Chief Agriculture Officer, JV Smith Companies
- Dr. Jeffrey C. Silvertooth, Professor and Extension Specialist, University of Arizona

Moderator: Steve Alameda, Top Flavor Farms, Yuma Fresh Board Member

AFTERNOON KEYNOTE 11:30a

"The Future of Agriculture and Food Production in a Drying Climate"

Guest Speakers: Dr. Joaquin Ruiz

As a rapidly drying climate threatens food and agriculture systems around the globe, Arizona's agriculture industry will need innovative solutions to continue producing more food using less water. Dr. Ruiz is the Vice President, Global Environmental Futures, at the University of Arizona and serves as



the Director of Biosphere 2. As a scientist with equal abilities in chemistry and geology, Dr. Ruiz addresses many first-order problems in Earth Sciences ranging from the origins of life to present-day climate change. Dr. Ruiz served as the Co-Chair of the Presidential Advisory Commission on The Future of Agriculture and Food Production in a Drying Climate established by University of Arizona President Robbins in December 2022. The Commission published their final report in August 2023.

TUESDAY, FEBRUARY 20

Jacob Louis Daily Golf Tournament

Mesa Del Sol Golf Club – 12:00p.m.







9:00a-5:00p "Bridging the Gap" Approaches for **Treating Preharvest Agricultural** Water On-Farm Location: MAC 106

WEDNESDAY, FEBRUARY 21



7:00a

Breakfast



8:00a-12:30p

Field Demonstration

Complete Demo list & Time Schedule Pg. 8



12:30-1:30p Lunch

1:30-4:30p **CEU**

Wildlife Deterrents

Christopher D. Carrillo, USDA/APHIS/WS, Phoenix, AZ

Sprayer Calibration

Brandon Phipps, Big W Sales, Yuma, AZ

Sprinkler Chemigation and Tankmixing

Mario Avalos, Helena Chemical Co., Yuma AZ

1:30-4:30p Food Safety Location: AL 101

4:00-5:00p Yuma Area Ag Council Member outreach meeting

Location: 3C Building East Meeting Room

4:00-5:00p CEU - GROWERS AND GRANTS

Location: South side main conference room

Grant programs are often a complex and underutilized tool for many growers. Join us for an open forum discussion on navigating your way through them. Expert panelists will share their experiences and best practices through the grant process from application to funding.

Organizer: Jesse Escoto, RDO Water



5:00-7:00p

Opening Reception

THURSDAY, FEBRUARY 22

7:00 – 7:30a **Breakfast and Opening Remarks**



Location: 3C Conference Room

Vegetable Association

7:30 – 8:15a **Keynote: "Farming for the Future"**

Mike Pasquinelli, President, Yuma Fresh



Guest Speakers: Paul E. Brierley, CEO & EDD,

Arizona Department of Agriculture

Walt Duflock, Vice President of Innovation,

Western Growers

Matt McGuire, Chief Agriculture Officer, JV

Smith Companies

Dr. Jeffrey C. Silvertooth, Professor and Extension Specialist, University of Arizona

Moderator: Steve Alameda, Top Flavor Farms, Yuma Fresh Board Member

8:15-9:30a **Trade Show**

MORNING BREAKOUT SESSIONS

9:30a.m. - 11:30a.m.

INTEGRATED PEST MANAGEMENT REGULATORY UPDATE



(Requesting 1 Each AZ/CA PCA and 2 CCA)

9:30–10:30a California Pesticide Regulatory

Update

Renee Pinel, Western Plant Health Assoc.

10:30-11:30a Arizona Pesticide Regulatory

Update

Jack Peterson, Arizona Dept. of Agriculture

Moderator: Junior Evans, Corteva Agriscience

COLORADO RIVER WATER UPDATE AND **PROJECTIONS**



(Requesting 2 CCA) Location: MAC106

9:30-10:00a Colorado River Background and

Introduction

Jeff Silvertooth, University of Arizona, Tucson AZ

10:00–10:30a Colorado River Situation and

Future Projections

Bart Fisher, Palo Verder Irrigation District and State of California Colorado River Water Borad member, Fisher Ranch, Blythe CA

10:30-11:00a Colorado River Situation and Future Projections

Hank Auza, Yuma County Water User's
Association President and Yuma Ag Water
Coalition representative, Barkley Co. of

Arizona, Yuma AZ

11:00–11:30a Question & Answer / Discussion

Moderator: Jeff Silvertooth, University of Arizona, Tucson AZ

LAB TO FIELD: FUNDAMENTALS OF PLANT DISEASE MANAGEMENT

CORTEVA"

(Requesting 2 CEU and 2 CCA)

Location: AS106

9:30-10:00a RNAi: An Alternative to the Control

of Plant Diseases

Dr. Johan Murcia, Postdoctoral Researcher, Yuma Co. Cooperative Extension

10:00–10:30a Virus Epidemiology and Control: What is New Out There?

Dr. Ioannis E. Tzanetakis, Professor of Plant Virology and Director, Arkansas Clean Plant

Center for Berries

10:30–11:00a What Does It Take to Bring Disease

Resistance to Your Field? From Research Discovery to Commercial Seeds

Dr. Céline Pesce, Project manager, Pathology

trait, HM. Clause (Limagrain group)

11:00–11:30a **Dueling Downy Mildew: Exploring the Ever-Changing Nature of this**

Variable Lettuce Pathogen

Emma Deuitch, Plant Pathology Graduate Student, Michelmore Lab, University of

California, Davis

Moderator: Dr. Bindu Poudel-Ward, Yuma County

Cooperative Extension

ARTIFICIAL INTELLIGENCE IN AGRICULTURE

(Requesting 2 CCA)

Location: AS105

9:30-10:00a **Overview and Applications in Soil Mapping**

Dr. Elia Scudiero, University of California-Riverside

10:00-10:30a Integration and Data Fusion for Agriculture Water Management and Accounting

Dr. Andrew French, University of Arizona

10:30-11:00a Remote Sensing and Robotics for Weeds and Pests

Dr. Milt McGiffen, University of California-Riverside

II:00-II:30a Variable Rate Fertilizer

Management and Potential

Improvements through AI

Platforms

Dr. Charles Sanchez, University of Arizona

Moderator: Dr. Charles Sanchez, University of Arizona

AGRICULTURE

SOIL HEALTH

(Requesting 2 CCA)

Location: Frances Morris Board Room

9:30-10:15a **Keynote Talk on Soil Health Principles and Assessments**

Dr. Jerry Hatfield, Retired at USDA-ARS, Ames, IA

10:15-10:35a The Desert Agriculture Soil Health Initiative (DASHI): Overview and Research Updates

Dr. Joey Blankinship, Associate Professor, The University of Arizona

10:35-10:55a **Updates from the Research-based Soil Health Extension Program in Arizona**

Dr. Debankur Sanyal, Assistant Professor & Soil Health Extension Specialist, University of Arizona

10:55-11:15a **Soil Biological Health Indicators** and its Application

Dr. Luisa Ikner, Assistant Professor, University of Arizona

11:15-11:30a **Panel Discussion**

Moderator: Debankur Sanyal, University of Arizona

HOW WEATHER AND WATER INFLUENCE PEST MANAGEMENT



(Requesting 2 CEU and 2 CCA)

Location: AS113

9:30-10:30a Influence of Weather on Desert
Insects and their Management
John Palumbo, University of Arizona, Yuma AZ

10:30-11:30a Water Management and Pest Management – What's the Connection?

Shaku Nair, University of Arizona, Maricopa

Co. Cooperative Extension

Moderator: Jennifer Weber, University of Arizona

FERTILIZER MANAGEMENT IN THE DESERT SOUTHWEST



(Requesting 2 CCA)

Location: AS115

9:30-10:30a Fertilizer Considerations for the

Desert Southwest

Robert Masson, University of Arizona, Yuma

Co. Cooperative Extension

10:30-10:50a TRUE Organic Product Updates

Ramy Colfer, Cody Benton, and Jay Harper

TRUE Organic Products

10:50-11:10a YARA Products Updates

Patrick Giannetti and Sebastian Korob, YARA

International

11:10-11:30a Nutrient Ag Solutions Product

Update

Kyle Deol, Nutrient Ag Solutions

Moderator: Robert Masson, University of Arizona, Yuma

Co. Cooperative Extension

LUNCH & KEYNOTE SPEAKER

Guest Speaker: Dr. Joaquin Ruiz "The Future of Agriculture and Food Production in a Drying Climate"





AFTERNOON BREAKOUT SESSIONS

1:30p.m. - 3:30p.m.



VEGETABLE IPM

(Requesting 2 CEU and 2 CCA)

Location: MAC106

1:30–2:00p Diseases of Concern for Coastal

California Vegetable Crops

Steve Koike, TriCal Diagnostics, Hollister, CA

2:00–2:30p Fusarium Wilt and Downy Mildew

of Lettuce in the Desert

Stephanie Slinski, University of Arizona,

YCEDA, Yuma, AZ

2:30–3:00p **Development of a Monitoring Tool**

for Managing Tospovirus Damage

in Lettuce

Shianna Rodriguez, University of Arizona,

Tucson, AZ

3:00–3:30p Recent IPM Developments for Desert Insect Control

John Palumbo, University of Arizona, Yuma, AZ

Moderator: John Palumbo, University of Arizona, Yuma, AZ

QUANTITATIVE ASSESSMENT OF WATER AND SALT BALANCE FOR CROPPING SYSTEMS IN THE LOWER COLORADO REGION

(Requesting 2 CCA)

Location: AS105

1:30-2:10p Updated Water Management Information for the Lower Colorado River Region

Dr. Andrew French, University of Arizona

2:10-2:50p Salt Balance in the Lower

Colorado River Region

Dr. Charles Sanchez, University of Arizona

2:50-3:30p Emerging Tools for Water and Salinity Management in the Lower Colorado River Region

Toby Torrey, University of Arizona

Moderator: Dr. Charles Sanchez, University of Arizona

AG-TECH: INNOVATIONS IN WEED CONTROL AND VEGETABLE CROP PRODUCTION TECHNOLOGIES



(Requesting 2 CEU and 2 CCA)

Location: AS112

1:30–1:50p **How AI will Impact Agriculture**Brent Shedd, Verdant Robotics

1:50–2:10p Laserweeding: The Future of Weed Control
Brett Goodwin, Carbon Robotics

2:10–2:30p Ecorobotix ARA Ultra-High
Precision Spot Spraying:
Efficiency on the Fields and Main
Benefits

Olivia Soares De Camargo and Marcus Lung, Ecorobotix

2:30–2:50p Field Experiences and Knowledge Gained from Vulcan AI Weeder's First Desert Season Greg Chiocco, FarmWise

2:50-3:10p Agmechtronix Gen 3 - The Culmination of 20 Years of Row Crop Automation

Ryan Herbon, AgMechtronix

3:10-3:30 Band Steam Application for Disease and Weed Control in Carrot and Lettuce Seedline

Steve Fennimore. UC Davis

Moderator: Mark Siemens, University of Arizona

BROAD ACRE CROPS: NEW PRODUCTS, NEW **TOOLS, NEW CROPS**



(Requesting 2 CEU and 2 CCA) Location: AS113

1:30-1:55p Cross-Commodity Resistance

Management: Building a New Tool Naomi Pier, University of Arizona, Maricopa, AZ

1:55-2:20p Non-Target Effects of Plinazolin & Sefina Insecticides in Cotton Isadora Bordini, University of Arizona, Maricopa, AZ

2:20-2:45p Commercial use of Predators: when **Inaction Pays** Peter Ellsworth, University of Arizona, Maricopa, AZ

2:45-3:10p **Exploring the Benefits of Guayule:** A Sustainable Choice in the **Southwest Low Desert** Debankur Sanyal, Peter Ellsworth, and Naomi

Pier University of Arizona, Maricopa, AZ

3:10-3:30p Options in Cotton Defoliation Macey Keith, San-Agrow

Moderator: Naomi Pier, University of Arizona, Maricopa, AZ

NEW DEVELOPMENTS IN WEED CONTROL

(Requesting 2 CEU and 2 CCA) Location: AS115

1:30-2:10p New Weed Control Technologies **Developed by BASF** Kevin Caffrey, BASF

2:10-2:50p Importance of the IR-4 Project and Impact to Arizona's Vegetable **Industry**

Roger Batts, IR-4 Project, North Carolina St. University

2:50-3:30p Alternatives to Dacthal for Broccoli and Onions

Marco Pena, University of Arizona

Moderator: Marco Pena, University of Arizona



BUSINESS BREAKOUT

Location: East Meeting Room

1:30-3:30p Saving Taxes through Retirement **Strategies for Business Owners**

> Tom Rush, Yuma Investment and Wealth Management Group



FOOD SAFETY: A LOOK TO THE FUTURE

Frances Morris Board Room

1:30-1:40p New Supervisor/Foreman Training **Program**

Yuma Safe Produce Council

1:40-2:00p A Shipper's Perspective Tony Banegas, VP Quality, Food Safety, and

Industry Relations, Bonduelle Americas

2:00-2:20p Using Data to Improve Food Safety

Sonia Salas, Assistant Vice President-Science, Western Growers

2:20-2:35p The Audit: Do We Need a Revolution?

Vicki Scott. Scott Resources

2:35-2:55p Integrated Food Safety Systems

Teressa Lopez and Danielle Runion, Arizona

Department of Agriculture

2:55-3:15p **Utilizing Available Science for**

Preventive Controls

Trevor Suslow, Trevor Suslow Consulting, LLC

3:15-3:30p **Speaker Q & A**

Moderator: Amanda Brooks, Harrison Farms

PLANT BREEDING SHORT COURSE: THEORY. METHODS, AND PLANT BREEDING INDUSTRY

Frances AS106

1:30-2:30p **Plant Breeding 101**

Robert Masson, University of Arizona, Yuma Co. Cooperative Extension

2:30-3:30p **Plant Breeding 102**

Dr. Hikmet Budak, Agricultural Professor, Arizona Western College

EVENING EVENT

HARVEST DINNER

Colorado River State Historic Park - 6:00p.m.

Summit Vendor & Exhibitor Map

3C BUILDING & COURTYARD



PARKING



PARKING

SOUTHWEST AG SUMMIT VENDOR BOOTHS

AC-Planta	77	Bioflora15	KW57	Sym-Agro Inc20
Ag Water Chemicals	74	BioSafe Sytems46	KW58	Syngenta50
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Agmechtronix	14	Carbon Robotics52	Lida65	True Organics11
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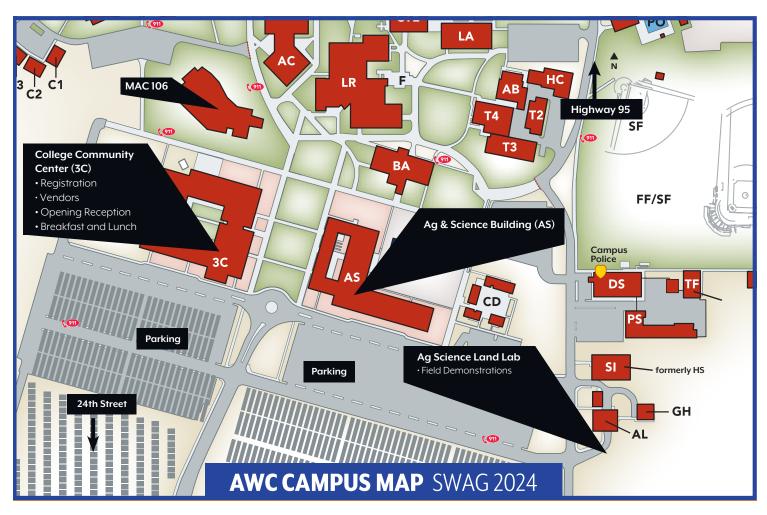


Visit Our Participating Field Demonstrations



- 8:00a **Forigo Modula Jet** Veda Farming
- 8:15a Laser Weeder Carbon Robotics
- 8:30a Oliver High Density Cultivator Sutton Ag Enterprise
- 8:45a Vulcan Triple Beds Intra-row Weeding & Cultivation Farmwise
- 9:00a Stout Smart Cultivator Bingham Equipment
- 9:15a Kult Kress iSelect Auto-Weeder Kult Kress
- 9:30a **Fendt Tractor** Empire
- 9:45a **DJI Agrospray T40** Keithly-Williams
- 10:00a I.C. Light by Stakatee Sutton Ag Enterprise
- 10:15a Ecorobotix ARA Ultra-High-Precision Sprayer Ecorobotix
- 10:30a **TBA** Mantis Ag Technology
- 10:45a **TBA** Ag Tech Logic
- 11:00a **Spudnick Babyleaf Harvester** RDO Equipment
- 11:15a **Surepoint Quick Draw 3000** RDO Equipment
- 11:30a **Stanley X-30 with Pro Plant** Keithly-Williams
- 11:45a Mechanical 5500 Transplanter Keithly-Williams
- 12:00p Checci Magi Dual 12 Gold Transplanter Keithly-Williams
- 12:15p Checci Magi Baby Compact Transplanter Keithly-Williams











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Email: blake.hash@usmc.mil

Marine Corps Air Station Yuma

MCAS Yuma owns approximately 1400 acres of land surrounding the airfield and is leased for agriculture production which directly supports the mission success of the installation. If you would like more information please contact the Ag Lease Manager listed on this flyer.







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