

## **“Innovations in Weed Control Technologies” Session and Field Demo at 2022 Southwest Ag Summit**

**Mark C. Siemens**

**Vol. 13, Issue 3, Published 2/23/2022**

Keeping up to date with the latest developments in automated weeding machines is challenging. It's a very fast-moving space with significant private and public investment. At the 2022 Southwest Ag Summit “**Innovations in Weed Control Technologies**” breakout session, university experts and cutting-edge innovators will provide updates on the latest domestic and international developments in automated weeding, autonomous ag robots, and non-chemical weed control (agenda below). The session will be held **TOMMOROW** Thursday, February 24<sup>th</sup> from 1:30-3:30 pm.

As I mentioned in the last newsletter, we'll also be demoing our band-steam applicator for controlling soilborne diseases and weeds at the Southwest Ag Summit Field Day. We'll also have our 2<sup>nd</sup> generation prototype band-steam applicator on display (Fig. 2). It is simpler in design and has a higher capacity steam generator as compared to our first prototype. This will increase travel speed and thereby work rate. The event is scheduled for **TODAY**, Wednesday, February 23<sup>rd</sup> from 10:30 am – 4:30 pm.

For more information about the Southwest Ag Summit, visit <https://yumafreshveg.com/southwest-ag-summit/>.

Hope to see you there!

### **Acknowledgements**

This work is partially funded by the Arizona Iceberg Lettuce Research Council, Arizona Specialty Crop Block Grant Program and USDA-NIFA Crop Protection and Pest Management Program.



## INNOVATIONS IN WEED CONTROL TECHNOLOGIES

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

*Location: AS 113*

1:30-1:45p **Current State of Weeding**  
**Technologies and Innovations from a European Perspective**  
Kim Haug, K.U.L.T. Kress Umweltschonende Landtechnik GmbH

1:45-2:00p **A European Perspective on Weeding Technologies and Innovations**  
Daniel Riehle, K.U.L.T. Kress Umweltschonende Landtechnik GmbH

2:00-2:30p **Automated Weeding and Sowing Solutions for Smarter Farming**  
Ingrid Sarlandie, Naio Technologies

2:30-3:00p **Thermal Micro-Dosing with Heated Vegetable Oil for Controlling Post-Emergent Weeds**  
Xiong Chang, Tensorfield Agriculture

3:00-3:30p **Novel Band-Steam Applicator for Controlling Weeds and Soilborne Pathogens**  
Mark Siemens, University of Arizona, Yuma Ag Center

*Moderated by Mark Siemens*

**Fig. 1. “Innovations in Weed Control Technologies” breakout session agenda at the 2022 Southwest Ag Summit. Session will be held Thursday, February 24<sup>th</sup> at Arizona Western College, Yuma, AZ.**



**Fig. 1. Prototype band-steam applicator for controlling soilborne pathogens and weeds on display at the 2022 Southwest Ag Summit, Yuma, AZ. Applicator sled and trailer fabricated by Keithly-Williams Fabrication, Yuma, AZ. Steam generator provided courtesy of Simox, Contamine-sur-Arve, France.**