WSU scientists will showcase research to improve irrigation scheduling, plant models, and heat stress mitigation that was funded by AgAID and Washington Wine Commission.

Station 1: Precision Irrigation sensors, integration, and decisions (65 min)	
Why	**Dr. Markus Keller:** Best management practices to balance vine growth and deficit irrigation with specific data from sensors.
What	**Dr. Troy Peters:** Understanding the uses and limitations soil moisture sensors.
How	**Jake Schrader**: Considerations of complications of integrating sensor ecosystems and sensor resiliency to machinery operations.
How	**Srikanth Gorthi:** Description of LoRAWAN technology to integrate the sensors and subscriptions.
Demo	**Shafik Kiraga:** Showcase data quality and modeling for two irrigation treatments of high and low irrigation.

Station 2: Precision Heat Stress Management through Solid Set Canopy Delivery System (SSCDS) and Mist Evaporative Cooling System (MECS) (65 min)	
What	**Dr. Lav Khot:** Introduction on how heat stress sensors work & used for monitoring. Benefits and limitation of 1st evaporative cooling system (SSCDS)
How	**Datta Bhalekar:** Description of SSCDS, spray line, reservoir, and emitter configurations
How	**Eric Mozzanini:** Considerations for cleaning
Demo	**Datta Bhalekar & Eric Mozzanini:** Demonstration of SSCDS
Why	**Dr. Markus Keller:** Problems of heat stress and mitigation as it relates to cultivar and canopy management
What	**Dr. Lav Khot:** Description of 2nd evaporative cooling systems (MECS).
Demo	**Datta Bhalekar:** Demonstration of MECS

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