The Science and Technology Subcommittee meeting was called to order at 2:00 pm on March 6, 2019.

**Science Subcommittee Members Present:**
Dr. Ed Civerolo          Dr. Melinda Klein          Dr. Etienne Rabe*
Aaron Dillon*           Dr. Jason Leathers*          Kevin Olsen*
Dr. Beth Grafton-Cardwell Kevin Olsen*

**Science Subcommittee Members Absent:**
None.

**Interested Parties:**

<table>
<thead>
<tr>
<th>Tania Aguedas</th>
<th>Evonne Fell*</th>
<th>Lea Pereira*</th>
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<tr>
<td>Lori Apodaca</td>
<td>Colin Flippen*</td>
<td>Sylvie Robillard</td>
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<td>Bob Atkins</td>
<td>Sara Garcia Figuera*</td>
<td>Jason Schwarze*</td>
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<td>Jill Barnier*</td>
<td>Jim Gorden</td>
<td>Cressida Silvers*</td>
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<td>Franco Bernardi</td>
<td>Victoria Hornbaker</td>
<td>Greg Simmons</td>
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<td>Teri Blaser</td>
<td>Gavin Iacono*</td>
<td>Roger Smith*</td>
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<td>Holly Deniston-Sheets</td>
<td>Matt Kaiser*</td>
<td>Keith Watkins</td>
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<td>Rick Dunn</td>
<td>Sara Khalid</td>
<td>Sandra Zwaal*</td>
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<td>Sean Farnum*</td>
<td>Mark McBroom*</td>
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* Participated via Webinar

**Opening Comments**
Dr. Etienne Rabe welcomed the Subcommittee, staff, and members of the public participating in person and online. It was noted that there was a quorum for the meeting.

**Strategy 2-Control Movement of Psyllids around the State: Regulations**
Review Revised Qualitative Risk Model and Exposure
Sara Garcia Figuera presented the final risk matrix along with a map of bulk citrus fruit movement between quarantine zones, and the California Department of Food and Agriculture (CDFA’s) movement of fruit bins from October 2017 to September 2018. Based on this model, the recommendation will stay the same and the regulation for the bulk citrus fruit movement between quarantine zones will not change. Aaron Dillon commented that explanations will be needed as to why movement from different zones are considered a higher risk than others. Sara clarified that the risk is not only if Huanglongbing (HLB) will be present at the zone of origin, but also the impact that it would cause if it was introduced to a zone of destination. Dr. Beth Grafton-Cardwell also pointed out the risk model must be looked at as potential future risk, not just risk at that point in time. Mark McBroom commented that there should be consistency of the risk factors between zones and keeping in mind the impact that this will have on growers. Étienne presented the motion
that this model be presented to the full committee for adoption with the understanding that this model is not static and is subject to change depending on if the risk factors change. It was seconded by Beth.

Tania Arguedas provided an update on CLAs exposure and how that would expand to groves from residential areas. A table depicted distances in residential areas showing different levels of exposure. Based on this table and literature, Tania explained that this type of exposure study will not work as well in groves compared to residential areas. This is because ACP and HLB dynamics in groves are mostly driven by the edge effect. If the edge trees are removed in groves, it will only further move the edge trees into the grove. Therefore, it may not be a benefit to consider those trees as exposed. She suggested that only removing the known infected tree would be more beneficial. Victoria Hornbaker recommended looking at an individual residential property with a positive tree and determining the likelihood that all the trees on that property are exposed, and how long that exposure would take. Dr. Melinda Klein also proposed looking at the geography of the tree infections in certain areas.

Victoria Hornbaker reported that she is working on obtaining approval to define a tree as exposed to CLAs if an ACP nymph has fed on it. Through the Food and Agricultural Code (FAC), this type of exposure is deemed a public nuisance and will allow CDFA the authority to remove the exposed tree. There is no quarantine declaration associated with this. This item will be presented to the full committee, and Beth presented a motion in support of this action. It was seconded by Ed Civerolo.

Discuss Revised ACP Regional Quarantine Removal Criteria
Victoria presented a protocol for removing an area out of an ACP quarantine zone. She suggested that if there has been single or multiple ACP detections in a county and no subsequent detections within two years after the initial detection, the county will be removed from the quarantine zone. This will be presented to the full committee. Beth presented a motion in support of this protocol, and it was seconded by Kevin Olsen.

Ethyl Formate: Update on Registration Process
Jim Cranney provided an Ethyl Formate registration update. He stated that it is taking the appropriate amount of time to meet all the registration requirements. Several toxicology studies have been completed, and the next round of studies are currently in progress. The results of the studies have been promising, and there have not been any health concerns. If things continue to run smoothly, a package will be ready to submit to the Environmental Protection Agency (EPA) in the fall. It takes about twelve months for the EPA to review once submitted. Jim is hopeful that one year from this fall the registration will be in place. Jim also mentioned it is a possibility to register this product as a Section 18. In the meantime, Dr. Spencer Walse has been conducting studies to determine how much gas is being absorbed in the fruit, packaging, trucks, and environment, all presenting promising results. Jim also mentioned that Spencer’s team has discovered that the amount of product used to kill Asian citrus psyllid (ACP) also decimates mites. Jim stated that an operational group consisting of people from packinghouses will convene in Bakersfield within the next month to gain feedback from the industry on the work that Spencer has been developing. Spencer is also working on the product label, which will include the use directions. Etienne also mentioned to be aware of the cost of the product.
Evergreen: Application Advances
Lori Apodaca mentioned that it has been difficult in finding a place to test the product, and that Spencer has been focusing his time on Ethyl Formate.

**Strategy 3-Suppress Asian Citrus Psyllid Population**
Mapping out Periods of Treatment
Victoria mentioned that Ray Leclerc and his staff are working on this project.

**Other Discussion Items**
None.

**Closing**
The meeting was adjourned at 3:34 pm. The next Science and Technology Subcommittee meeting will be held on April 24, 2019.