Pest Management Research Grant Program 2014-2015 Solicitation

Kimberly Steinmann
California Department of Pesticide Regulation
Pest Management and Licensing Branch

Outline

- Critical dates
- Research grant priorities
- The proposals
- Scores and review logistics

Critical Dates

- Concepts received: October 7, 2013
- Proposals received: December 16, 2013

Review Period

- Grants awarded: March 21, 2014
- Project start date: July 1, 2014
- Report to PMAC November 9, 2016

Research Grant Priorities: Fumigants

- IPM solutions to risks associated with field fumigants.
  - Decision-making
  - Prevention and management of pests currently controlled by fumigants
  - Application technologies
  - Cost effectiveness of reduced risk practices
  - Modeling or meta-analyses

Response to the solicitation

- 12 Concepts
- 7 Proposals
- Total funding of $500k for 2 to 4 projects.

Review of Proposals

Improving the efficacy of biologically mediated soilborne disease management in strawberry by the use of reduced rate fumigations

Dan Legard
Strawberry Commission
$298,472

- Reduced fumigant rates + Anaerobic Soil Disinfestation or Mustard Seed Meal

Development of a mobile steam applicator to replace fumigants for strawberry

- Field steam applicator with greater speed, steam output, and ability to use hard or soft water

Steve Fennimore
University of California
$294,612

Optimizing solarization-based technologies as sustainable alternatives to soil fumigation

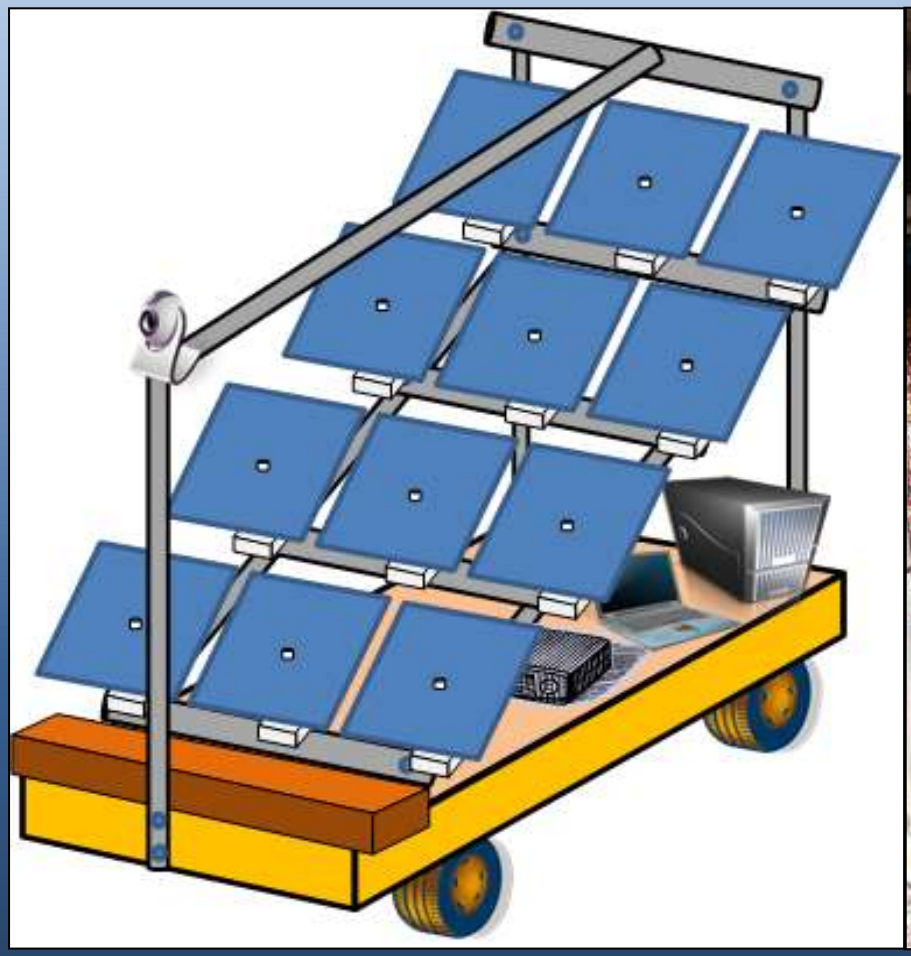
- Solarization augmented with organic matter (tomato pomace and Poaceous green manure)

James Stapleton
University of California
$299,992

Mobile concentrated solar soil solarization (MCS3) for a reduced pesticide and energy use – Sustainable Agriculture

Serhan Ardanuc
Suntomics
$179,515

- Mobile concentrated solarization panels



Field-permeability of fumigant vapor-retentive tarps: Implications for buffer zones, VOC regulations, and township caps

Husein Ajwa
University of California
$90,000

- Field study comparison of vapor retentive (VIF/TIF) tarps

Determining the impacts of plant-parasitic nematodes and soil fumigation on pistachio growth

David Doll
UCCE Merced
$74,384

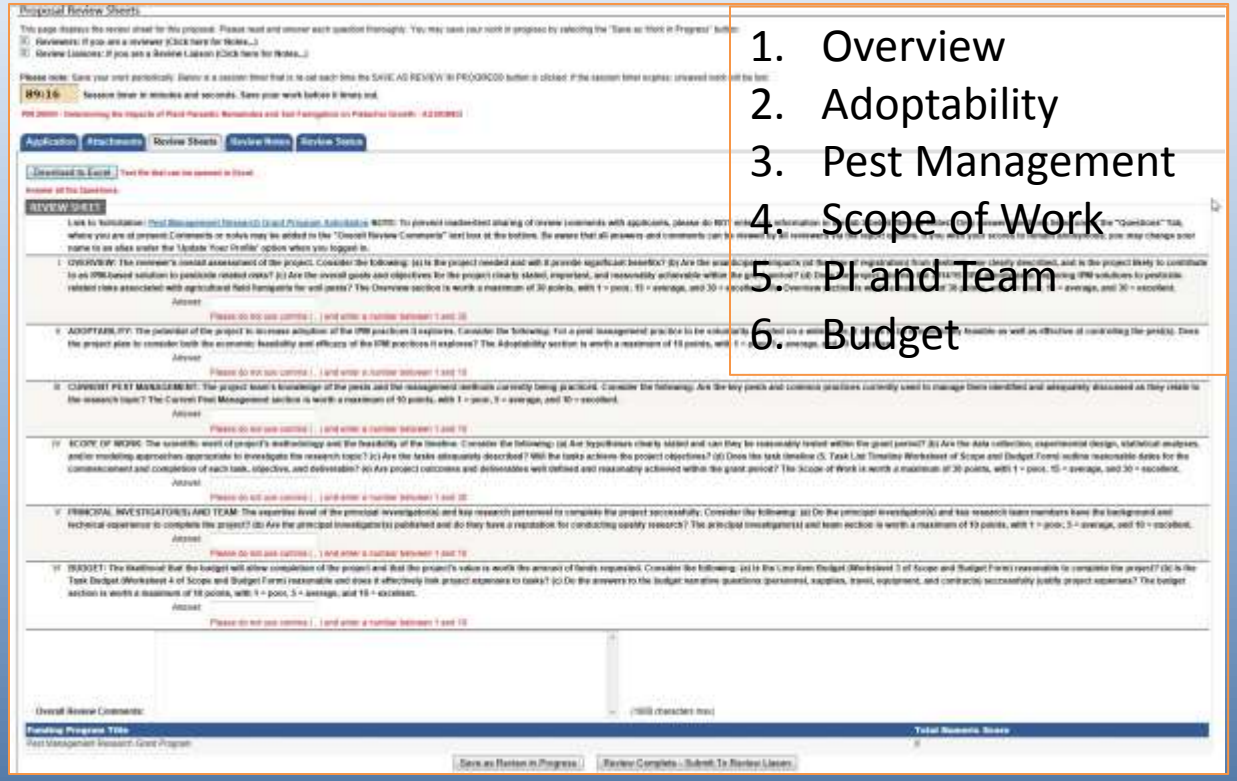
- Comparison of nematode concentrations and growth characteristics of 6 pistachio rootstocks planted in fumigated and non-fumigated soil.

Managing nematode parasitism and Prunus Replant Disease with spot fumigation and rootstocks

- Comparison of PRD, nematode concentrations and growth characteristics of 4 almond rootstocks under different fumigation conditions (spot treatments, row-strip, or no fumigant)

David Doll
UCCE Merced
$108,433

Scores



1. Overview
2. Adoptability
3. Pest Management
4. Scope of Work
5. PI and Team
6. Budget

FAAST: Web-based Financial Assistance Application Submittal Tool through State Water Resource Control Board

	R1	R2
Proposal 1	75	75
Proposal 2	70	77
Proposal 3	55	78
Proposal 4	40	80
Proposal 5	57	99
Proposal 6	65	90
Proposal 7	45	89

Project	Column1	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	Average	Min	Max	N
Legard Fumigation+ASD or MSM+Strawberry	1.5	2.0	3.5	4.0	3.0	2.5	5.5	1.0	2.0	5.0	1.0	1.0	6.0	5.0	2.0	6.0	3.3	1	6	15
Doll Fumigation+rootstocks+Almond	1.5	3.0	1.0	6.0	4.0	1.0	4.0	6.0	5.5	4.0	5.5	3.0	3.5	1.0	1.0	1.0	3.3	1	6	15
Doll Fumigation_rootstocks+Pistachio	3.5	1.0	5.0	2.5	2.0	5.0	2.5	7.0	3.0	6.0	5.5	4.0	2.0	3.0	3.0	2.0	3.6	1	7	15
Fennimore Steam+Strawberry	3.5	5.0	2.0	1.0	5.0	2.5	2.5	3.5	4.0	2.0	4.0	2.0	5.0	6.0	5.0	4.0	3.6	1	6	15
Stapleton Solar+OM	5	7.0	6.0	7.0	6.0	6.0	1.0	5.0	5.5	1.0	2.0	5.0	1.0	4.0	4.0	7.0	4.5	1	7	15
Ardanuc Mobile Solar+Strawberry	6	6.0	7.0	2.5	1.0	4.0	5.5	2.0	7.0	3.0	7.0	7.0	3.5	2.0	6.5	4.0	4.53	1	7	15
Ajwa Tarp+emissions	7	4.0	3.5	5.0	7.0	7.0	7.0	3.5	1.0	7.0	3.0	6.0	7.0	7.0	6.5	4.0	5.2	1	7	15

Scores

Project		R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	Avg	High	Low
Legard Fumigation+ASD or MSM+Strawberry	**1.5**	2.0	3.5	4.0	3.0	2.5	5.5	1.0	2.0	5.0	1.0	1.0	6.0	5.0	2.0	6.0	**3.3**	1	6
Doll Fumigation+rootstocks+Almond	**1.5**	3.0	1.0	6.0	4.0	1.0	4.0	6.0	5.5	4.0	5.5	3.0	3.5	1.0	1.0	1.0	**3.3**	1	6
Doll Fumigation_rootstocks+Pistachio	**3.5**	1.0	5.0	2.5	2.0	5.0	2.5	7.0	3.0	6.0	5.5	4.0	2.0	3.0	3.0	2.0	**3.6**	1	7
Fennimore Steam+Strawberry	**3.5**	5.0	2.0	1.0	5.0	2.5	2.5	3.5	4.0	2.0	4.0	2.0	5.0	6.0	5.0	4.0	**3.6**	1	6
Stapleton Solar+OM	**5**	7.0	6.0	7.0	6.0	6.0	1.0	5.0	5.5	1.0	2.0	5.0	1.0	4.0	4.0	7.0	**4.5**	1	7
Ardanuc Mobile Solar+Strawberry	**6**	6.0	7.0	2.5	1.0	4.0	5.5	2.0	7.0	3.0	7.0	7.0	3.5	2.0	6.5	4.0	**4.53**	1	7
Ajwa Tarp+emissions	**7**	4.0	3.5	5.0	7.0	7.0	7.0	3.5	1.0	7.0	3.0	6.0	7.0	7.0	6.5	4.0	**5.2**	1	7

Todays Goals:

- Identify the proposals PMAC prefers to be funded.
- Rank those proposals in order of preference.
- Record strengths and weaknesses for all proposals.
- (Give feedback on FAAST if time)

Recusal:

- PMAC members are not eligible to receive funds through a project unless they recuse themselves from the grant review process for that project.
- Organizations with which the committee members are associated are eligible for funding.

Folder Contents:

- Agenda
- Ground Rules
- Presentation
- PMAC Score totals
- Proposal abstracts
- Polling Sheets

Thank You

Sam Magill, Associate Facilitator, CSUS Center for Collaborative Policy