

Friday, August 2nd: 9am – 1pm

Community IPM Leadership Meeting



MAC – The Bat Cave (Room 11)

Attendance: Shaku Nair, Lucy Li, David Kopec, Al Fournier, Peter Ellsworth, Dawn H. Gouge, Ursula Schuch (by phone) and Kai Umeda. **With apologies:** Paul Baker.

Notes

Leadership Team Purpose & Process

Two main functions of a Leadership Team: (1) secure the shared AiE resource (Shaku); (2) represent all interests in community IPM as much as possible while accomplishing the objectives / commitments we have made in Extension IPM.

Shaku will play a major role in team coordination following this meeting. This includes following up with Paul on what he missed and arranging a date for the next meeting.

Extension IPM Grant Update (Peter)

In the previous EIPM grant we requested \$350k per year got \$175k/ year. This time, we got our full request: \$250k/year, for 3 years. Our proposal ranked second nationally and was one of 3 outstanding proposals in the West. Explanation of leadership teams and assistants in extension was one of the characteristics the review panel liked. We have a no cost extension on our previous grant, and NIFA was concerned because it looks like we have more than one year's worth of funding left over on the old grant. Peter and Al outlined a plan for NIFA on how we will spend old money without overlapping objectives with the new grant (We have to spend this amount by Aug 31, 2014). Our outline indicated that all community IPM activities all be "old activities" from prior grant. (The other areas of emphasis will be covered under the new grant.) In carryover, we have enough to fund 100% of Shaku, Lucy and Christopher, 25% of Tilak. Team members should charge travel and operations to 3340580, including training materials, printing, etc., but please communicate all expenditures to Shaku, who will manage this account. We did not ask for CALS state funds for Extension IPM this year.

Discussion. Can we hire someone? Michele Daly, program assistant for Ayman, could potentially be partially funded through EIPM to contribute to expenditures, for the Agronomic IPM Team. Dawn: we have a critical need for an IPM Economist, perhaps as an Assistant in Extension position. There are reasons to be conservative. Nationally, there has been much discussion about creating a "Crop Protection" budget line, which would assemble many pest management related grant programs, including Extension IPM. If this happens, we will have to re-apply (re-compete) for Extension IPM funds, with a risk of something getting changed in our Year 2, Year 3 budgets. If this goes through, there will likely be 30% indirect cost applied to this program.

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Specific Goals funded through EIPM: 2010-13 versus 2013-16 (Brief review) (AI)

AI presented a handout that outlines community IPM commitments in the EIPM proposal from 2010-13 grant, which we reviewed. If we do not address all of these deliverables from previous grant, we need to justify any changes in course when we report. In the new grant, we only applied for the School IPM area of emphasis. But the community IPM activities in turf, horticulture and other areas still exist. We committed to 3 new schools each year for the implementation program.

Christopher Bibbs: Grad Extension Assistantship for Insect Diagnostics.

Dawn's masters student, Christopher Bibbs is doing research with the goal of learning environmental habits of scorpions. He is funded on an Extension Assistantship paid through the APMC and focused on insect diagnostics, working out of Wendy Moore's lab. He maintains a database of diagnostic inquiries, handles questions from the public, IPM diagnostics. Please send any samples or photos to him. He will also work on developing some diagnostic tools or outputs (publications, online or pictorial keys, etc.) He has processed at least 60 samples this month, and also fielded other calls and requests for information. He will send AI his contact information to the APMC email list.

Mr. Christopher Bibbs
University of Arizona
Maricopa Agricultural Center
37860 W. Smith-Enke Road
Maricopa, AZ 85138.
Images can be emailed to csbibbs@email.arizona.edu
Chris cell phone: 520-252-1527

AiE Activity Updates

Shaku Nair (School IPM AiE)

- Worked on EPA School IPM grant with Dawn, AI and Lucy.
- Had 2 weekly meetings with Lucy, Caitlin and Mariel from National IPM Institute, on the performance objectives for the certification program that hopefully will be funded through this new grant starting in October. It is in collaboration with the National IPM Institute. There are different standards of knowledge, different roles for different members of the target audience. Landscape and Grounds personnel are one of the target audience and will be divided into arid and non-arid areas. This certification will be offered by the National IPM Institute, a collaborator on this grant. Also will develop standardized training materials that will be shared across states. Two forms of training: online modules with exam, and standardized training materials available online that would be used by schools in in-service training. National Pest Management Association is involved in this, and Entomological Society of America. Shaku is doing research on exam models because she will be developing exams for many of these target audiences. Peter suggested there is a lot of good information in the Pesticide Safety area on exam development. Shaku's role in grant development was to review and edit the proposal, she wrote some

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portions. Several out-of-state partners reviewed. Tom Green and Carrie Foss contributed to the writing.

- Worked with Dawn and Lucy on “Going Buggy” summer camp for school children from July 8-11 at Arizona Museum of Natural History in Mesa. Covered many topics / activities daily, 26 school children, including 10 special needs students, ages 6 to 11 and 8 teens. Got very good feedback from participants. Peter: have you considered participating in the Entomology Department’s Insect Festival? Contact Wendy Moore. Use it as a platform to teach parents about school IPM. September 15, 11 – 4 in Tucson.
- She is working on a state brief for the Western IPM Center newsletter.
- Will revise School IPM tri-fold, taking a different approach. Shaku shared an example from California Department of Pesticide Regulation.

Lucy Li (Public Health AiE)

- Has produced 6 monthly School IPM Newsletters, August issue is in final review. All are posted at <http://cals.arizona.edu/apmc/westernschoolIPM.html>. We can post events in the newsletter and on the webpage, which Lucy maintains. Please let her know about new events. Newsletter reaches thousands of people through various regional IPM workgroup email lists. Some of the articles were picked up on Colorado State University blog.
- She will serve on Website Development committee, which will tentatively meet for the first time on September 6. She plans to review what resources for community IPM are currently posted, please send her links.
- In June, Lucy produced Chinese translation of school IPM trifold. It was highlighted on CE facebook.
- Wayne has developed a database for tracking outputs from IPM teams. Lucy has entered her newsletters and other publications.
- Will start working on an EPA grant to measure pesticide residues in schools.
- The Arizona Museum of Natural History wants Dawn’s team to train volunteers to provide “going Buggy” program on an ongoing basis. Peter suggested Dawn connect them to Victor Jimenez’s program.

URLs for Community IPM:

Leadership Team:

http://cals.arizona.edu/apmc/ipm_leadership.html

This is where we post meeting notes.

Western IPM Center School IPM Workgroup

<http://cals.arizona.edu/apmc/westernschoolIPM.html>

This is where we post School IPM Newsletters, publications, videos and other technical outputs

University of Arizona Turfgrass Research Education and Extension

<http://turf.arizona.edu/index.htm>

This is where information on turfgrass related activities can be posted

For example: An upcoming event (Short Course on ‘Precision Technologies for Variable Rate Pesticide Applications’), in which Dave is instructing, can be found on this page at:

<http://turf.arizona.edu/19thshortcourseflyer.pdf>

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University of Arizona Co-operative Extension: Commercial Ornamental Horticulture

<http://cals.arizona.edu/extension/ornamentalthort/landscapemgmt/#pruning>

Another website might be useful in the future.

<http://cals.arizona.edu/deserthort/>

<http://cipm.weebly.com/>, <http://cipm.weebly.com/landscape.html>, <http://cipm.weebly.com/turf.html>

Outputs Database (Wayne)

Wayne Dixon, Assistant in Extension for IPM Assessment, presented to the group a database he developed for tracking all kinds of outputs: extension publications, presentations, journal articles, videos, etc. You can search, filter, and then output citations for the information you are interested. It should be ready to drop into APRs, reports, etc. AiE's in each Leadership Team are responsible for reporting back to AI on team outputs, for Extension IPM report and other reporting needs. We hope that team members will work their AiEs to get their activities added to the database. The database is currently available only at MAC and requires a log-on. Until this week, only Wayne and AI were using it. Now Shaku, Lucy, Dawn and Lydia have access and will beta-test it for us. We anticipate making this available outside of MAC after beta testing has been completed.

EPA Tribal School IPM contract

1) A tribal child care center on the Ak-Chin reservation will serve as a location for a brief outreach event on head lice and bed bugs this fall (Dawn and Lucy). The facility is interested in training for outdoor topics as well.

2) We have a mandate to do workshops for school IPM Inside and Out (through EIPM). Would the group be interested in doing a multi-day Tribal training based on the agenda developed for the EPA contract?

Target audience would be public works personnel (grounds & maintenance), school nurses, maybe some facility managers (administrators), BIA personnel (Bureau of Indian Affairs). To get a good turnout, Dawn suggests that we include public health pests on the agenda. To the team: how much time would you invest in this? We could do a full day on public health pests alone. Do a multi-day workshop (2-day program spread over 3 days), shoot for June 2014. Dawn will send out the agenda that was developed for the EPA grant for people to review. Prairie dogs and invasive weeds are important on the Navajo res. Agenda should include public health pests, structural pests, rodents, landscapes, ornamentals. Tribal members want to spend the week in Phoenix and prefer a lot of hands on training. Before August 2014 and funded through the old grant.

Dawn will bill her time spent on the EPA project and funds will be deposited as state dollars that will need to be spent by June 30. Could make a deal with the college to trade these for 2014 funds. If we

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don't use for salary, we will lose the ERE component of it. Dawn and Al will outline a plan, discuss it with Bob, and he will bring it to the Executive Council.

3) Would the team be interested in running an event Kopec Style, for interested schools Tribal, public and private.

Kopec Style IPM Buffet (aka Analog Times): Conduct a workshop in Phoenix to reach out to a broad spectrum of school districts. Introduce the Inside and Out approach, let them know what we do and what we can provide as a resource to any interested schools. Show the scope of the program to create interest. This is very consistent with the approach we described in our new grant. Then ask the audience to indicate what their particular priorities would be.

Review of Inside and Out Program

Phoenix Union High School District

Metro Tech High School has excellent academic results with low-income students bussed from other areas. Bed bugs and head lice were among their top priorities. This school focused more on dealing with critical indoor issues. Dawn worked with one of the other “feeder schools” [Alhambra Elementary School District] to educate on the subject of bed bug control. Dave and Ursula did an irrigation/tree maintenance training at Metro Tech. They provided a number of recommendations that were not implemented. They bought new irrigation controllers for MT and for some other schools in the district. Some sites used them and some did not. MT installed the new controllers, but only one person knew how to program them. Other sites in the same district might have good outcomes – **we need to make sure we have a plan to capture these, perhaps by adding them to interview guide.** We can incrementally take this school by the hand and lead them to the next step. We discussed the option of working with a different school within this district to move forward to address the turf component. It was concluded by the group that **we must continue with this district.** **Dawn will call Tony.**

Gilbert Unified School District

Not a lot of indoor issues, but they had goals related to trees and shrubs. Maybe other schools in this district could be targeted for dealing with indoor issues. Buildings are clean and new. Indoor issues may be minimal district wide. A lot of opportunities to improve trees and landscapes, but more emphasis was given to the turf. School contacts did not seem excited to deal with trees or non-athletic turf. If we continue with this school, need to corner the crew from the district or person that manages the trees. They had a full time crew for the sports fields, but district level employees took care of non-athletic turf and landscapes. **It was decided to continue with this district.** **Dawn will call Stan.**

Catalina Foothills Unified School District (2 schools)

Orange Grove Middle School. Esperero Middle School. Ursula visited recently and she thinks some of the recommendations have been implemented. She would like to go back with Dave and Shaku and

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document progress. Dawn offered to come along and follow up on the indoor environment. They should plan a visit to both schools for one day. School starts August 8. Ursula will reach out to her contact there and try to schedule something. They worked with an outside company for the landscaping and a separate one for indoor pest control. **Will continue with both of these schools. Ursula will make contact.**

Union Elementary & Littleton Elementary School

Dawn suggested they do not re-contact these schools. Dawn and Bryan visited only once. She made contact after Bryan left and they did not express much interest in continuing. Schools were close together, way on the West side. Dealt with fly issues, and wind and dust issues. Bryan and Ursula had discussed using shrubs to create screens. **It was decided not to continue with these schools this year.**

Mesa Public School District (New)

The largest school district statewide with 96 schools. One of the strongest commitments to IPM that Dawn has encountered in Arizona. She has done training on indoor and public health pests. They continue to ask for outdoor IPM training. They have lots of different pest issues across sites. They invest in training their people. They are in proximity and in contact with many other school districts in the Southeast Valley. **It was decided to begin engaging this school district and to identify a school to participate in the implementation program. Dawn will call Ed, their IPM Coordinator.**

Maricopa School District

Dawn has done training for school nurses, and they are interested in IPM, and work with the Ak Chin nurses. The school district voted IPM down several years ago. They have a district level IPM coordinator that interacts with Dawn. There is a new superintendent now and things may have changed. **Suggestion was to keep Maricopa in mind as a potential location for future years. Dawn will reestablish contact with Dan Vezie Maricopa Unified School District Environmental manager.**

First step with each district is to re-establish contact, determine where they are now, to introduce Shaku. Dawn will put Lucy in contact with the head nurse at each school district regarding public health pest trainings.

Output/activity review

- Pest Press School IPM Newsletter (monthly) (Lucy)
- School IPM, Western IPM Center newsletter article (Shaku)

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Needed: In progress:

- Bees (Lucy)
- Mosquitoes (Update) (Lucy)
- Bed bugs in schools (Lucy)
- Public health pests, Western IPM Center newsletter article (Lucy)
- Review of health care facility IPM – journal article for Journal of IPM or American Entomologist (Lucy)
- Journal of IPM consensus article – there has never been one done for school IPM (Dawn and Shaku)
- Ursula's Tree FAQ website (Ursula wants to re-prioritize her list of outputs in light of recent stakeholder needs survey)
- Revised school IPM trifold in partnership with California Department of Pesticide Regulation (Shaku)
- Multi-family housing IPM trifold in partnership with California Department of Pesticide Regulation (Lucy)
- Short outreach piece
- Need to revise many old turf publications
- Presentations and handouts – look at turf website: topic presentations and handouts. A lot of materials that could be reformatted in a bulletin.
- Generate one powerpoint slide that explains IPM / IPM inside and out that Extension people who work with schools in other programs (Project Wet, Smartscape, etc.)

Action Items:

- 1) Shaku will play a major role in team coordination following this meeting. This includes following up with Paul on what he missed and arranging a date for the next meeting.
- 2) Shaku will send out a doodle poll to decide on the next meeting date, preferably late September or early October.
- 3) Dawn will send out agenda that was developed for the EPA grant, for LT to review, regarding the potential 2- or 3-day workshop in the Ak Chin res.
- 4) Inside and Out program: to re-establish contact with school districts
 - Dawn will contact Tony (Metro Tech), Stan (Gilbert) and Ed (Mesa)
 - Ursula will contact Catalina Unified
- 5) Review interview guide for schools before the next visits
- 6) Lucy, Shaku and Dawn will meet with Wayne Friday 9th Aug to discuss setting up a database for data capture (starting with school pesticide application data, but may expand into IAQ, and other data also).