

Community IPM Leadership Team Meeting

Where: Pinal County Cooperative Extension Office - Casa Grande

When: Tuesday, January 27 2015: 9 am – 2 pm



Notes

Present: Dawn Gouge, Lucy Li, Ursula Schuch, Peter Warren, Kai Umeda, Dave Kopec, Paul Baker, Al Fournier, Shaku Nair.

- **Starting 2015 on a positive note:**

2014 Achievements listed by everyone

- Shaku: Community Pest Handbook – completed and placed online, test copies printed.
- Dawn: National survey on school IPM. 42 states now have some level of school IPM activities. AZ has one of the more robust programs which has influenced a lot of people. Getting several requests for bed bug trainings based on our responses to stakeholder needs.
- Ursula: Healthy Tree Workshops have had a positive response; filling an important need.
- Peter Warren: completed four years of meritorious service.
- Kai: Transition of golf course clientele to ADA licensing system has been important this year. Peter presented on this topic. Offered trainings in Nov. and Dec 2014 to provide CEUs to support the new licensing requirements. Working with Mike Wierda moving forward to address their needs for licensing. Also there are education needs in the landscape and structural pest management industry to support pesticide use reporting. (There is a need to segregate out the data and use it to show progress in the industry.) These data will be important for documenting progress in the industry.
- Paul: Javier has passed and is completing his PhD.
- Al: Hiring of Mike Wierda, AiE for Pesticide Safety Education.
- Lucy: Will be organizing a training event for school nurses and administrators in Feb. 2015.
- Dave: Wide and diverse participation in the variety of trainings he does.

Paul informed the team that his official retirement date is April 28th 2015. He is hosting a luncheon on April 18th at Tucson.

- **School IPM Inside and Out: Update & Plans**

- TUSD visit – upcoming (new school district participant). New contact person Steve Wilson. Shaku is planning an informal meeting in February with a small group, to determine if they are willing to share data and participate in the program (MOU etc.). A school nurse from TUSD had bed bugs at home and contacted Dawn for a training, which has not yet occurred. Dawn suggests that Shaku try to get school administrators, nurses and custodial staff involved in a training.
- Current schools update: now have 5 collaborating districts. The team did follow up visits to all sites last year and will do the same this year.
- Evaluation of School IPM program. Shaku and Al need to make progress organizing the data.
- Planning a bed bug training event Phoenix Union, date TBD, potentially in March.
- Dave: We need to follow up and do an irrigation workshop at Maricopa School District. Only had 6 attendees because of problems in scheduling last fall.

- **Upcoming APRs, UA Vitae updates**

We are still experiencing problems with the Outputs database interfacing with UA Vitae. The RIS input feature of UA Vitae still does not work properly, meaning that any inputted citations require further editing. Shaku and Lucy have been updating outputs in the APMC Outputs Database, but still have some 2014 publications to enter. Shaku will send out the outputs she has in the database to all team members. If any outputs are missing, let Shaku know and send her the data. AiE evaluations will be taking place around March.

Team exercise: Impact Questions for 2014: Community IPM

The team worked collectively to arrive at the answers to the following questions.

1. Extension outcomes and impact for stakeholders in terms of economic impact:

- In the School IPM Inside and Out education program, we provided science-based IPM training to 1,500 school personnel and pest management professionals, saving school districts \$120,000 compared to trainings from private consultants.
- Through delivery of Continuing Education Units in our trainings, we enable professionals in the golf, landscape maintenance and professional pest management industries to maintain licenses, thus ensuring continued employment and saving thousands of jobs in Arizona.
- [DG previous] School IPM: average savings of \$10,500 per school per year X 170 schools = \$1.8 million
- [DG previous] Invader Pest Management \$100K in growth resulting from IPM education of staff
- [DG previous] 120 jobs sustained for veterans: Northern AZ VA Domiciliary (Prescott, AZ)
- Due to our education efforts, schools save an average of save up to 20% on water use, which translates into lower operation costs or additional green canopy to improve the quality of the outdoor environment. An approximate estimate of savings is \$75 per irrigated acre per year.

2. Extension social outcomes and impacts:

- Healthier landscapes have been shown to reduce absenteeism in schools and to promote better learning, based on social research. We worked directly with 5 school districts in 2014 to improve landscape outcomes, directly impacting 146,000 students. Outreach programs in these schools showcased IPM outcomes and offered IPM education to many AZ school districts.
- 50% of the target audiences for our Community IPM Extension programs are underserved audiences including minorities and tribal members.
- In 2014, we have had specialized community IPM program efforts targeting and collaborating with tribal members. Interactions and partnerships with tribal members and their explicit support has led to successful competitive grant funds of \$405,000 to support community IPM Extension programs.
- A national bed bug survey that originated in Arizona in 2007, along with other national efforts led to EPA reclassifying bed bugs as a “public health pest”, which now qualifies it for new lines of EPA grant funding of one half million annually.
- IPM Education 2014: trained 5575 in person incl. environmental health professionals, pest management professionals & pest control advisors; 2427 Continuing Education Units
- 90.5 AZ CEUs plus 22 CA CEUs delivered to 998 attendees in 2014 (database is being updated, and these numbers are likely to change).

3. Describe the level of program integration of Extension programs

- As a result of a 2013-14 Extension Signature Program Initiative School IPM project the Community IPM Team delivered school IPM trainings in Yavapai, Yuma, Coconino and Maricopa

counties. 92 people were trained in 4 sessions, delivering 24 CEUs and involving collaboration of 5 county faculty, 4 center faculty and 3 campus based Extension specialists. This included 5 entomologists (Gouge, Baker, Fournier, Nair, Li)

- The agricultural entomology/IPM Extension faculty (Ellsworth/Palumbo) interacts through working groups and directly with County faculty in Mohave, La Paz, Yuma, Maricopa, Pima, Pinal, Cochise, Greenlee, and Cochise Counties through the Integrated Crop Management, Cross-commodity, Vegetable IPM, Agronomic Crops IPM Leadership, IPM Assessment Leadership, and Pesticide Safety Education Leadership teams.
- Faculty from Entomology serve leadership roles in all Arizona Pest Management Center / Extension IPM programs, all of which have integrated County, Campus, Ag Center participation:
 - Ellsworth, Director of APMC
 - IPM Coordinator
 - Pesticide Coordinator
 - Chair, Agronomic Crops IPM Leadership Team
 - Co-Chair, Pesticide Safety Education Leadership Team
 - Co-Chair, Cross-commodity IPM Team
 - Palumbo, Chair, Vegetable Crops IPM Team
 - Co-Chair, Cross-commodity IPM Team
 - IR-4 Liaison
 - Gouge, Chair, Community IPM Leadership Team
 - Fournier Chair, IPM Assessment Leadership Team
 - Co-Chair, Pesticide Safety Education Leadership Team

5. **List** company, corporation or industry interactions with Cooperative Extension in your unit this past year including advisory boards, individual faculty/industry research projects, and classroom or curricular participation.

- The APMC Pesticide Education Leadership Team, with leadership from Assistant in Extension Mike Wierda, has formed the new Pesticide Safety Education Program Improvement and Modernization Initiative stakeholder advisory board to explore ideas and develop strategies to support a robust and sustainable Cooperative Extension Pesticide Safety Education Program for agriculture and community environments. This includes participation from **Fertizona, Wilbur-Ellis, Alameda Farms, Arizona Cotton Board and Intertribal Council of Arizona, as well as state regulator officials and UA Cooperative Extension administration.**
- Several faculty involved in Extension Community IPM (Paul Baker, Dawn Gouge, Kai Umeda and Mike Wierda) participate in **Office of Pest Management** committees that are developing new exams and study guides to support licensing of urban pest management professionals.
- Through the “Stop School Pests” project, our Community IPM Team members have leadership roles in the development of training materials and voluntary certification exams for school personnel and pest management professionals which will be implemented nationally. Dawn Gouge is lead PI on the **EPA** grant that supports this project.
- A new Community IPM Pest Handbook developed through a Western IPM Center grant with Assistant in Extension Shaku Nair’s leadership is under consideration by the **Arizona Office of Pest Management** as a textbook resource to support licensing of urban pest management professionals.
- Ellsworth, additions to last year’s list: Biohumanetics

CEU events question. Univar events are a popular source of CEUs, but they are often entirely offered by industry representatives. Peter W has been requested to present in the Phoenix area (at a Univar

event?) Shaku and Lucy had presented in October at their events, and were the only university representatives there.

For university CEU events, we should consider charging a nominal fee, and this will definitely be less than that charged at industry events. Peter W has charged up to \$20 per head in some events.

- **Upcoming events**

- Healthy Tree workshop – Jan 29th 1 OPM CEU (4 ISA CEUs)
- GRIC field visit to MAC – Feb 20th
- Training for school nurses (Lucy), Superstition Elementary School (Apache Junction school district) Will be recruiting feedback on Stop School Pests project – Feb 25th
- Stop School Pests event, plan to review modules (now completed at least in draft form) with end users: all key target audiences for schools 6 CEUs – March 3rd
- Paul's Pima County Parks and Rec event –Date has been changed to March 24; now a conflict with IPM Symposium. He will ask Mike Wierda to present. 6 CEUs.
- International IPM Symposium – Dawn, Al, Lucy, Shaku and Kai are attending. Dawn, Lucy and Shaku will be involved in the Stop School Pests session. Al will be hosting a Professional Development event- IPM Evaluation workshop.
- Tribal School IPM (ITCA) – 6 & 7th May.
- Turf Field Day at Karsten Center– May 6.
- Desert Hort Conference, June 5.

Lucy submitted a very well supported Extension Signature Program Initiative grant for public health pest trainings that did not get funded. Will be looking for other support for this effort. There is a significant demand.

- **Signature Initiative program (IPM in a Child's World)**

What we have committed, any suggestions/lessons from last year?

The project is essentially a continuation of what occurred last year, but with different counties involved: Pima, Pinal, Navajo and Graham.

Could we do something to better promote attendance?

Suggestion was to publish an article a month in advance, in newsletters, and other media, about the risks of pests and pesticides in schools. Peter W suggested doing a story in his weekly newspaper column.

We cannot buy food from the Extension funds. Should look for sponsors among structural pest management people. Also consider a minimal fee for participants to help offset lunch. E.g., \$10 per person with a discount for companies that have 5 or more participants. Shaku will enquire with Patti B about this.

- **Website update**

- New additions – Handbook, Stop School Pests materials, School IPM Plan Template
- Web Development status – Al

- **Budget updates (Al)**

Shaku's Active Funding and Obligations Update

- WIPMC grant (Handbook)– (28%) –**ending Feb 28, 2015**
- USDA-NIFA, Extension IPM (E-IPM) 2013 grant (50%) [no-cost extension] until ~ 4/30/15
- USDA-NIFA, CPPM EIP 2014 grant (50%) 5/2015 – 4/2016 [assumes no-cost extension]
- EPA School IPM Grant (50%) 2/2014 – 1/2016
- State Signature Program (12.7%) 1/2015 – 6/2016

- **Upcoming Grant Opportunities**

- Specialty Crop Block Grants
- USDA NIFA grants will come out earlier this year than last year, including the Applied Research and Development Program (ARDP). The RFP has been held up because of certain language that needs to be refined, but could come out in the next couple of months. [AI/Shaku will update the team on the status of this]
- US Forest Service has funds for bark beetle research and will be collaborating with Peter Warren [already funded]

Extension Outputs

On a revised publication, you cannot change authors without a new review process.

- Revision of Drywood Termite publication: Paul did not get the request to review; Paul will review it. –Shaku will send him the Word version.

Individual Program updates by team members

Each team member provides an update on recent and upcoming activities and projects; discuss team member roles & opportunities for funding and interaction.

- Peter W:
 - Tucson Landscape Advisory Committee came up with a proposal to ban use of neonicotinoids in the city of Tucson by city employees on city property. Peter was asked to brief the group on what neonicotinoids are and how they are used in horticulture. There were representatives from the nursery association and Terminex in the group. Peter was able to show the importance of NN use in some situations. Instead of banning neonicotinoids, they persuaded them to consider an IPM plan for the city. The plan was sponsored by a city councilman. It will go to a study committee and then to the city council for a vote. It was a good opportunity to educate the group about IPM. Peter got a lot of appreciation from Department of Agriculture and pest management companies. Peter will send the proposed language for the IPM plan for Dawn and team members to review.
 - Weekly news column, “Ask the Garden Sage”. He answers bug questions. Peter will send a link. May feature some stories in the newsletter.
- Kai
 - Just completed turf school in January. 39 attendees.
 - April, planning Annual Spring Turf seminar, topic TBD.
 - Next week: Cactus and Pine seminar at foothills golf club.
 - Mike Wierda is planning a pesticide certification review session primarily targeting golf clientele, but open to ag., will include initial testing.
- Dave
 - Gave guest lectures to students in classes
 - 4 smartscape presentations.
 - Seminar in plant sciences department.
 - Presented to golf course superintendents in Mexico.
 - 2 articles in SW Trees and Turf
 - 3 abstracts at agronomy meetings
 - Spoke at NM SW Turf Conference.
 - Desert Green in Henderson, NV.
 - USGA conference in Nov, presented there.

- 2 CEU trainings in Nov and Dec
- Went to Czech Republic to present
- Turf School
- AI
 - Participated in a Western IPM Center workgroup which has developed training modules for IPM Assessment. Check it out at: <http://ucanr.edu/sites/McRoberts/>. There are 4 modules posted currently but 5 more will be posted very soon. This URL will be changing in the near future.
 - Will be presenting at Association of Applied IPM Ecologists meeting Feb 2-3 in Napa Valley and attending a Co-Innovation workshop at UC Davis on Feb 4.
- Shaku
 - WIPMC Handbook project
 - 2 new school districts into program (Mesa and MUSD), established contact with TUSD
 - Follow-up visits to all program school sites
 - Involved in tree irrigation study with Ursula
 - Presented at golf and landscape workshop
 - IPM Symposium Awards Committee work
 - Extension publications review and revision
 - Pest proofing your home-publication is accepted; revisions are being made
 - Signature Program Initiative grant got funded
 - CALS Research Poster forum
 - Prepared a slide on community IPM outcomes for ABOR presentation
 - Gave presentations about bed bugs at Univar event
- Lucy
 - Thanks to everyone, we had 11 newsletters last year. Lucy will enter these in UA Vitae.
 - Gave presentations about bed bugs at Univar event.
 - Presented to a women's group involved in farm economics on IPM in community environments.
 - Extension publication on Bats was accepted will be out soon.
 - Submitted Signature Program Initiative.
 - Posted a lot of new information online.
 - ARDP grant National Assessment of Bed Bug impacts, got funded last year.
 - Represented community IPM on Web Development committee
 - Prepared a slide on Public Health IPM outcomes for ABOR
 - On IPM Symposium awards committee
 - Presented posters at CALS session
 - Collaborating with WSU colleague on bed bugs; found a population that appears to be resistant to pyrethroids.
- Dawn
 - CDC meetings and workshops for environmental health professionals. They are working on online modules based on a classroom course.
 - On IPM Symposium program committee.
 - Stop School Pests. Have developed training materials for 8 out of 10 groups.
 - On OPM committee to rewrite exams.
 - Journal of Environmental Health article on asthma and IPM (accepted)
 - EPA pesticide program dialog committee update
 - 2 publications from Chris Bibbs

- Ursula
 - Continued tree irrigation experiment and have given some presentations on this. Learning more about how little water trees can live with. Finalizing data collection and will be writing up results.
 - Pomegranate trial with Glenn Wright in 3 locations. This was the first year with a decent harvest at all locations. Leaf footed plant bug has been a problem in some locations.
 - Her student graduated, got an article in Hort Science; still working on a second publication.
 - In Jan 2014 she published a textbook Introductory Plant Sciences with 2 co-authors

- **Any other items**

Next meeting (conference call) – Thursday, February 19 2015, 9 -11 am