



**IPM Coordinating Committee
 Maricopa Ag Center
 Wednesday - May 8, 2015
 9:30 am - 1:30 pm
 DRAFT AGENDA**



COLLEGE OF AGRICULTURE
 AND LIFE SCIENCES
 COOPERATIVE EXTENSION
 Arizona Pest Management Center

Membership:

- | | |
|---|-----------------------------------|
| Stacey Bealmer (Yuma County) | Paul Brown (ex-officio, UA CE) |
| Casey Butler (stakeholder) | Peter Ellsworth (Entomology, MAC) |
| Jim Farrar (Director, WIPMC) | Junior Evans (Dow AgroSciences) |
| Lin Evans (PCA, stakeholder) | George Frisvold (Ag Economics) |
| Dawn Gouge (Entomology, MAC) | Mike Matheron (Plant Sci, YAC) |
| Bill McCloskey (Plant Sciences) | Tom Montoya (PCA, stakeholder) |
| Ayman Mostafa (Maricopa/Pinal/Pima co.) | John Palumbo (Entomology, YAC) |
| Jack Peterson (AZ Dept. of Ag.) | Barry Pryor (Plant Sci, AZ PDN) |
| Ursula Schuch (Plant Sciences) | Kai Umeda (Maricopa County) |
| Rick Ward (ex-officio, MAC) | Peter Warren (Pima County) |
| Kelly Young (Maricopa County) | |

Your input will guide the future of our programs!

Those highlighted in green attended.
 Additional Guests: Bob Nichols, Maria Nukem.

9:30 - 9:35 Introductions

New Members: Junior Evans (Dow AgroSciences), Peter Warren (UA, Pima County), Kelly Young (UA, Maricopa County), Rick Ward (UA MAC, Director)

Welcome from Rick Ward

9:35 - 10:00 Extension IPM Grant Program Update / Leveraged Resources - Peter Ellsworth

- USDA NIFA Extension IPM is now Extension Implementation Program (EIP) under Crop Protection and Pest Management (CPPM) RFA.
 - Organizational update
 - Indirect Cost
- Funding update on Leveraged Resources

Shared Organizational Chart. Assistants in Extension (AiEs) 50% funded through APMC institutional IPM grant. John Diehl, the first Assistant in Extension hired by Peter many years ago recently passed away. In some ways this was the template for how the AiEs in each of our teams now function.

Leadership teams are made up of faculty for a specific area (and sometimes external stakeholders), with AiE position serving as the hub. We are successful in grants and contracts. It takes a lot of work to align our resources and to keep teams going.

- Institutional grant. We compete with all other states and territories to get our base funding that supports our activities. This program used to be formula-funded with no Indirect Costs (IDC). This has changed. We are now under USDA-NIFA Crop Protection and Pest Management program, which allows 30% IDC which our institution interprets as 42.85% of the direct costs of the grant. It leaves less funds available to do the work of IPM. Because of IDC, our current actual funding is lower than it was in 2013. We were able to run the grant through at 26% IDC, which saved some dollars to the program.
- Formula funding in AZ for many years was low, around 100k annually. We prepared for the program to go competitive, and were able to increase our funding in the competitive process.
- UA will not grant waivers to indirect cost. Peter recalls that about 34 states were able to secure waivers of IDC rate on their grants. This makes it tough to compete.
- Currently, there is a large cut to the universities, a \$30mil cut to UA. The Maricopa Ag Center might expect about a \$500k cut in the coming fiscal year.
- New ERE (fringe benefit) rates will take effect July 1. Current ERE rates to AiE is 28.6%. Based on the proposal, this will increase to 34% on July 1 2015. (Grad Student rate will change to 13%, but departments will be responsible for tuition waivers.)

We measure impacts. Peter provided some examples. Our programs and activities are well recognized regionally and nationally. In part, this is because we can and do measure the impacts of our programs.

10:00 – 10:20 Leadership Team Reports (part 1)

Agronomic IPM Leadership Team – Lydia Brown (Assistant in Extension)

Team members: Peter Ellsworth (Chair), Bill McCloskey, Ayman Mostafa, Randy Norton, Mike Ottman, Al Fournier

(PPT) Lydia works statewide with her Leadership Team. Major areas of work: pesticide resistance management, emerging pests & pest issues, new technologies & chemical efficacy, outreach: publications & presentations, developing thresholds for key alfalfa insect pests. Will do focus groups on herbicide resistance with George and Bill.

Lydia has worked on brown stink bug (BSB), a native occasional pest that has recently emerged as a major pest in cotton, which threatens to destabilize our cotton IPM program, because there are no selective chemistries available for BSB control. Lydia is doing a graduate research project examining damage dynamics, chemical control options and the collateral effects of BSB management practices on overall cotton pest management. Use of broad spectrum insecticides is disrupting biocontrol and leading to secondary outbreaks of other key pests, whitefly and lygus bug. She submitted a proposal to the Western IPM Center which was recently funded. It will focus on economic analyses to understand the overall impact of BSB on the pest management system in cotton. The team published Natural Enemies of the Southwest field guide, funded by the Western IPM Center. She has

had excellent feedback from PCAs. There are plans to translate the book into Spanish. There is a lot of interest in the guide in Mexico.

Vegetable IPM Leadership Team – Marco Peña (Assistant in Extension)

Team Members: John Palumbo (Chair), Mike Matheron, Barry Tickes, Peter Ellsworth, Al Fournier

The Veg IPM Team is located at Yuma Ag Center. Team members conduct a number of field trials each year for insects, weeds and diseases. There has been a big focus on the invasive bagrada bug (a stink bug) and on downy mildew, which has been very bad in recent years. The Veg IPM Update has been published biweekly for 5 years. Western Farm Press reprints these articles, going out to a readership over 10,000 readers. PCAs report that they use the information in the field. Each update has an article on current topics for insects, weeds and diseases. Because of Barry's recent appointment as Director of La Paz County, they are getting more samples from La Paz County. Recently created a facebook page. Pesticide diagnostics lab. They process samples from growers and work to identify whether damage is pesticides / herbicides or other causes. This allows them to provide rapid test results to growers. They have had training on use of HPLC machine. They have developed tests for some of the major herbicides in use. They provide results within 24 hours, often while growers wait. Lab is also used to support research projects, some in collaboration with Bill McCloskey. Have also done tests to detect Admire. It takes some time to develop methods for each new chemistry.

10:20 – 10:50 Western IPM Center update

- Western IPM Center structure, funding & major programs – Jim Farrar
- WIPMC / IR-4 collaborations – Jim Farrar
- UA WIPMC Grants – current & recently completed – Peter Ellsworth
- IPM Assessment Toolkit website – Al Fournier

The WIPMC is one of 4 regional IPM Centers, based in UC Davis with UC statewide IPM Program. Funded by USDA NIFA under CPPM, specifically under the Regional Coordination Program. It covers everything from CO west, including Alaska, Hawaii, and other island territories, crossing 8 time zones. Although the largest region, with the largest \$ value of ag production and the most diverse crops, each Region gets the same amount, about \$1mil annually.

CPPM

- ARDP, formerly RIPM and PMAP
- EIP, formerly Extension IPM
- RCP, funds the IPM Centers to facilitate collaboration

Partners include State IPM Coordinators. The WIPMC does not have much money to give out. The grants program focuses on funding seed projects and / or implementation projects

to support outreach and adoption of IPM. Our grants can get people started so they can compete in the larger grant programs.

3 signature programs:

- Crop Pest Losses and Impact Assessment (Peter Ellsworth, UA)
- Regional infrastructure for climate and weather based decision support tools (Paul Jepson, OSU)
- Protocols for responding to invasive pests (Kassim Al-Khatib, UCD)
- A previous Signature Program: Water Quality Protection

Comment coordinators:

- Southwest (Al Fournier)
- Hawaii & Pacific Islands (Cathy Tarutani)
- Pacific Northwest (Katie Murray)

Provide real stakeholder data to EPA and other agencies on how and why chemistries are used, to help inform risk models that EPA runs, and hopefully to influence pesticide policy decisions.

Western Region IR-4 partnership. IR-4 is a federally supported program (that also has regional centers). The mission of IR-4 is to develop data packages to get products registered on minor use crops (specialty crops). We are collaborating with IR-4 to develop IPM criteria to help show that a registration is in the public interest, so that EPA will waive registration fees. Also, the WIPMC provides input on Western IPM priorities, and incorporates IR-4 "A" priorities into its stakeholder priorities. John Palumbo is the official state liaison to IR-4. IR-4 has a food crops program, a horticulture program, a biopesticides program, and one on vectors.

11:00 – 11:20 Leadership Team Reports (Part 2)

Community IPM Leadership Team:

School IPM – Shaku Nair (Assistant in Extension)

Team Members: Dawn Gouge (Chair), Al Fournier, David Kopec, Ursula Schuch, Kai Umeda, Peter Warren, Peter Ellsworth (ex-officio), Michael Wierda, Shujuan (Lucy) Li, Assistant in Extension, Public Health IPM

School IPM – Shaku Nair (Assistant in Extension)

Community environments are diverse and unique. In these environments, you always have to consider people as well as the pests. The current focus of her program is School IPM. Community IPM LT chose this as the focus because of local and national priorities and because of special vulnerability of children to pests and pesticides. Many schools conduct scheduled pesticide applications whether or not pests are present. Training we provide has helped to educate end users about the benefits of IPM. "School IPM Inside and Out" is a pilot program that addresses both indoor and outdoor pest management drawing on the expertise of the community IPM leadership team (insert). Once a school district / site is

involved, we follow up frequently. Currently there are 5 School districts (6 sites) involved. We are a resource for school personnel statewide. We develop educational materials and workshops. Use a practicum approach in school IPM, showing people and letting them do it themselves. This has been demonstrated to lead to changes in behavior.

Shaku and Lucy's programs overlap a lot. The Community IPM Program not only deals with schools but with other community IPM issues and target audiences (e.g., Ficus Whitefly). 50% of funding from EIP, additional funding currently from the EPA grant and the ARDP, as well as through Cooperative Extension. The Community IPM Handbook was developed from a Western IPM Center grant, addresses broad target audiences, including school personnel. All the contents are available online. Based on a recent survey, there is great demand for print quantities. We anticipate updating and expanding the online version of the book.

Public Health – Lucy Li (Assistant in Extension)

“If you live, you are involved in a community.” Lucy is also involved in the Community IPM LT. She shared a poster about the Stop School Pests (SSP) project funded by EPA. This is a national effort. The group has identified 9 key roles in school IPM inside and out. The project will develop training materials and certification exams for all these audiences. The SSP website includes PPTs for all the target audiences. These are being converted into online training modules. They have partnered with the National Pest Management Association to provide a professional credential to participants.

Bed bugs are the most common pest for which information is requested. The developed a laminated handout to help people identify bed bugs and prevent the spread of bed bugs. There are increasing resistance issues with pyrethroids. We are conducting a survey to identify some of the social outcomes of bed bugs, funded by USDA NIFA ARDP grant. What's next: deploying bed bug IPM training to PMPs.

11:20 – 11:30 Extension Administration Update – Paul Brown (Assoc. Director, ANR Programs)

- Explanation of recruitment process for faculty positions

Jeff Silvertooth, Director of Extension, has a call out for new position proposals that will be assessed and ranked by the Extension Administrators Team. Jeff will be the final decision maker. Due date is next Friday. Currently they have 4-5 proposals for ANR. The state provided 3.5 million last year and they have been in a rapid hiring process. They expect to have as many as 24 new people on board. The extension budget is separate from the Experiment station budget. When specialists retire, the research portion of the position is controlled by the expt. station or department, the Extension portion belongs to Extension and is a separate line item. There is a lot of pressure to bring in grants with high IDC. There are 6 or 7 positions that will open up this year due to retirements and departures. The extension budget is strong, but cuts are coming to the rest of the college. Q: is the whole

\$3.5 mil invested in the 24 positions? PB: Pretty much, but will have new positions based on retirements and departures.

11:30 – 12:00 Update on Hiring Plan for Extension Positions – Peter Ellsworth

- Specialty Crops IPM Extension Specialist (YAC)

This was floated as an idea early on but it has been nixed.

- Risk Assessment Extension Specialist (MAC? SWES / ENTO)

There is a discipline of people who communicate and do research in the area of measuring risk / ecotoxicology. This has emerged as a priority in SWES and ENTO department, with SWES taking the lead. The description as written would include pesticide risk, GMOs, mining activities, superfund sites. This is going forward out of SWES. Will be submitted as a proposal.

- “Forage” Crop IPM Extension Specialist (MAC? ENTO)

This proposal will go forward from ENTM.

- Extension Plant Pathologist (Plant Sciences campus?)
- Cropping Systems Specialist / Agronomist (Plant Sciences, based at MAC)

12:00 – 12:40 Working Lunch / Leadership Team Reports (Part 3)

Pesticide Safety Education Leadership Team – Mike Wierda (Assistant in Extension)

Team Members: Peter Ellsworth (Chair), Dawn Gouge, John Palumbo, Kai Umeda, Al Fournier, Jennifer Weber (Pesticide Safety Field Consultant, Arizona Department of Agriculture)

3 foci:

- Work with IPM teams and serve as link
- Traditional Pesticide Safety Education
- Developing a sustainable PSEP program in the state of AZ

Funding:

- EIP
- PSEP IMI (grant funded by agrochemical industry companies)
- PSEP (traditional Pesticide Safety Education Program funding, not much)
- Cooperative Extension (2014 only)
- Gifts

PSEP-Improvement and Modernization Initiative. Goal: to improve the quality and consistency of PSEP training nationwide. We are a “goal 1 state”, one with a CE program that is not very strong in PSE. We have formed a Leadership Team. A major goal of the meeting was to identify people to participate on a Stakeholder Advisory Team. The team

met in January and developed a list of action items. The main goal is to identify potential sources of funding and resources to ensure ongoing sustainability. We need to develop a “sales pitch” to target Western Growers and other big stakeholders. Mike is connected to a national group that is developing a website of PSEP resources that will be available to PSEP professionals nationwide. He is looking at some RFAs to secure additional funding. Jack Peterson developed a list of areas we can improve upon.

IPM Assessment Leadership Team – Wayne Dixon (Assistant in Extension)

Team Members: Al Fournier (Chair), Peter Ellsworth, Dawn Gouge, John Palumbo, George Frisvold, Jack Peterson (Director, Environmental Services Division, Arizona Department of Agriculture)

Our team is focused on assessing adoption and impact of IPM and is a resources that interacts with all other teams. Wayne Dixon has expertise in computer program and database management. We manage a large pesticide use database and the Crop Pest Losses Impact Assessment surveys, among other resources, including a database of Outputs for all teams.

Diagnostics Leadership Team – Al Fournier for Gene Hall (Assistant in Extension)

Team Members: Wendy Moore (Chair), Peter Ellsworth, Dawn Gouge, John Palumbo, Al Fournier

Gene’s position is funded 50% through Cooperative Extension. He is based in the UA Insect Collection where he serves as collection manager. He has expertise in arthropod diagnostics and through his CE appointment serves as a resources for all of Extension. He is supervised by Wendy Moore.

12:40 – 1:20 Urban Extension Entomologist Position: Stakeholder Discussion – Peter Ellsworth

Paul Baker recently retired and there is an opportunity to submit a proposal which would cover this, through ENTM

- Proposed position
- Group Activity to identify and prioritize needs

Group 1 & 3:

This diverse position includes structural pests and the rural / urban interface as well as vector entomology focusing on mosquitoes and bees, targeting pest management professionals.

Group 2:

This position targets homeowners, MG, HOAs, city landscapers, companies, parks & rec, pest control companies, property and facility managers.

Group 4:

Aligned with #1.

Structural, landscape, residential pest management.

This will include a research appointment along with Extension.

Other comments:

- Bob: Too many areas of expertise and too many target audiences. It will be important to come up with something that is more focused. "Do something, not everything."
- Focus on non-ag professionals as target audience. Currently the industry is training themselves.
- Dawn: someone focused on vector control, mosquitoes, bed bugs, pesticide safety.
- Maybe we should have asked about what outcomes and impacts we would like to achieve first.

Follow up online survey:

- Look at your email on Monday or Tuesday: Peter and Al will develop an online survey. Deadline for proposals is Friday. Peter and Dawn would need to send input to Bruce Tabashnik, ENTM Dept. Head.