

## **2009 Pesticide Safety Education Program (PSEP) Progress Report February 16, 2010**

Project title: IPM training for Urban Pest Management Professionals

Goal: Facilitate the production of green jobs in community Integrated Pest Management

Project leader: Dawn H. Gouge, Urban Entomologist, University of Arizona, MAC.

Team members:

- Maricopa County Master Gardeners Diagnostic Group.
- Theresa Foster, Environmental Programs Coordinator, City of Phoenix. US Green Building Council LEED Accredited Professional.
- Monica Rabb, Environmental Quality Specialist, City of Phoenix. Certified Hazardous Materials Manager and Certified Environmental Trainer.
- Thomas Green, IPM Institute of North America. The Institute's mission is to leverage marketplace power to improve health, environment and economics in agriculture and communities through Integrated Pest Management (IPM).
- Ellis M. Jones, M.A. Acting Director, Arizona Office of Pest Management. Mr. Jones has been employed with the Arizona Department of Administration since 1998.
- Vince Craig, Assistant Director Compliance/enforcement Division, Arizona Office of Pest Management. Mr. Craig has worked for the Office of Pest Management (OPM; formerly the Structural Pest Control Commission) for 18 years. He holds an EPA certification license and holds an applicator license, in seven categories.
- Alan Pugh, Program Projects Specialist, Arizona Office of Pest Management. Alan has an Applicator License in all eight categories regulated by the OPM, as well as a Qualifying Party license in six of the categories.
- Arizona Asthma Coalition.

Specific activities proposed:

### **A. Develop a two day IPM boot-camp training program for pesticide applicators**

#### **Progress**

- After review of a two and a three day curriculum for trainee PMPs, it was decided that a 5 day minimal program be developed (see appendix 1).
- Specific components of the curriculum are presented to the Maricopa County Master Gardeners diagnostic group and refined after their review. Approximately half of the curriculum classes have been developed. The diagnostic group has received several

trainings, but we still have quite a way to go to complete them all. Their help has been invaluable.

- In order to make program graduates attractive to PMP companies the training program has been developed to include the following elements: 1) OPM background checks, 2) OPM licensing training and core exam (2 days), 3) the 5-day UA training program and proficiency exam (endorsements will be given by OPM for graduating participants passing the exam), 4) industry partners will provide 2-week intern positions to individuals completing the program.

As a result people graduating from the program will be licensed, IPM endorsed, and have some on-the-job experience. Graduates will have a high probability of employment in the industry. This effort is guided with input from a large advisory committee of community partner organizations.

## **B. Create educational materials for outreach to the community**

### **Progress**

- This part of the program will begin in June 2010.

### Activities & Outcomes:

3 curriculum development meetings (rotating Phoenix and Scottsdale locations), participants included members of OPM (5 participants), a member of the OPM Advisory Committee (1 participant), City of Phoenix (3 participants), DEQ (2 participants), DHS (1 participant), AZ PPO (1 participant) and myself. These are the 14 program committee members (steering committee). We report to a larger group of people on our progress.

Various sized groups of Master Gardeners serve as reviewers of class content (between 10-14). 6 class segments are complete to date.

No CEUs were accredited, this program is under construction.

### Summary:

The program steering committee has expanded the number of collaborators participating as well as the scope of the program. The aim is to launch a green training program for PMPs, and increase demand-side IPM awareness and demand. The program fits into the City of Phoenix sustainability efforts, OPM training objectives, and AZ PPO mission. It is expected that the program become self sustaining after a year, with OPM staff providing the 5-day course. The significant impact measure, will be the number of graduating PMPs employed by companies, providing green service options.

## Appendix 1

### ▪ **Train-the-Trainer IPM Course**

#### **Agenda**

- 8:00-8:15am                      Registration
- 8:15-8:30am                      Welcome and Introductions
- 8:30-9:30am                      Community IPM in the US
- Public Housing Summary
  - The Boston Housing Authority
  - *HUD's Voluntary Guidance on IPM\* The IPM Checklist\**
  - School Summary
  - State Legislation
  - School Environmental Protection Act
- 9:30-9:45am                      *Break*
- 9:45-11:30am                      Community IPM in US Continued
- Commercial IPM (SISCO, Walmart)
  - Pest Management Professional Certification Programs (Green Shield, GreenPro, Ecowise)
  - Sustainability (GREEN Buildings)
  - EPA - Pesticide Environmental Stewardship Program (Become a PESP Partner)
- 11:30-12:45pm                      *Lunch*
- 12:45-1:45pm                      Review of 3-day IPM Training Program
- 1:45-2:45pm                      Review of IPM Proficiency Exam, IPM Kit, and Course Evaluation
- 2:45-3:00pm                      *Break*
- 3:00-4:00pm                      Description of Progressive IPM Philosophy Followed by an Interactive Discussion Session
- 4:00pm                              *Adjourn*

Direct any additional questions and comments to Dawn H. Gouge  
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# IPM Academy Course for Pest Management Professionals

## Agenda Day 1

8:30-9:00am	Registration
9:00-9:15am	Overview and Introductions
9:15-10:30am	IPM Basic Principles (IPM-Lite vs. Progressive, and Sustainable IPM; understand pest vulnerable areas, pest-conductive conditions, Inspection, Monitoring, and Pest Exclusion)
10:30-11:40am	Know Your Enemy - Arthropod Anatomy, Biology, and Ecology
11:40-1:00pm	<i>Lunch</i>
1:00-2:00pm	Bed Bug Biology, Behavior and Management I
2:00-3:00pm	Rodent Basics (Biology and Ecology of Mice and Rats)
3:00-3:15pm	<i>Break</i>
3:15-4:15pm	Ecology Based Rodent Management (Active Rat Signs, Why Sanitation <i>is</i> Rodent Control; Rodenticides: Core Issues about Anticoagulants, and Non- Anticoagulants; Rodent Proofing Buildings; Tracking Powders, Using Exterior Bait Boxes, Non-Chemical Rat Control, Snap Traps, Glue Boards, and Others)
4:15-4:45	Health and Economic Significance of Rats and Mice
4:45-5:00pm	Review of Today and Coordination for Day 2
5:00pm	<i>Adjourn</i>

## Agenda Day 2

8:30-8:45am	Sign In and Questions
8:45-9:45am	Health Effects of Pests, Pesticides, and Precautionary Approach
9:45-10:45am	Structural Pest Management Part I (Bees and Wasps)

- 10:45-11:00am *Break*
- 11:00am-12:00pm Structural Pest Management Part II (Head lice)
- 12:00pm-1:15pm *Lunch*
- 1:15pm-4:00pm Pest audit (Crawl-Through Kitchen Practicum: Inspect, Identify, Photograph and Record)
- 4:00pm *Adjourn*

### **Agenda Day 3**

- 8:30-8:45am Sign In and Questions
- 8:45-9:45am Small Group Activity, Based on Pest Audit Findings, Recommend Proactive Program Parameters and Remediation Options.
- 9:45-10:45am Presentations to the Class and Interactive Discussion Session
- 10:45-11:00am *Break*
- 11:00am-11:30pm Bats and Bat-Proofing
- 11:30-12:00pm Bed bugs (the process of remediation) II
- 12:00pm-1:15pm *Lunch*
- 1:15-1:45pm Communication and Responsibility
- 1:45-2:15pm Review and Questions
- 2:15-2:30pm *Break*
- 2:30pm Arthropod Borne Disease Causing Pathogens
- 4:00pm *Adjourn*

### **Agenda Day 4**

- 8:30-8:45am Sign In and Questions
- 8:45-9:45am Structural Pest Management Part III (Cockroaches)
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- 9:45-10:45am Structural Pest Management Part IV (Mosquitoes)
- 10:45-11:00am *Break*
- 11:00am-11:30pm Structural Pest Management Part V (Ants)
- 11:30-12:00pm Structural Pest Management Part VI (Spiders)
- 12:00pm-1:15pm *Lunch*
- 1:15pm-4:00pm Pest audit (Crawl-Through School Practicum: Inspect, Identify, Photograph and Record)
- 4:00pm *Adjourn*

## **Agenda Day 5**

- 8:30-8:45am Sign In and Questions
- 8:45-9:45am Small Group Activity, Based on Pest Audit Findings, Recommend Proactive Program Parameters and Remediation Options.
- 9:45-10:45am Presentations to the Class and Interactive Discussion Session
- 10:45-11:00am *Break*
- 11:00am-11:30pm Structural Pest Management Part VII (Ticks, and everything else)
- 11:30-12:00pm Exam Preparation Time
- 12:00pm-1:15pm *Lunch*
- 1:15pm-3:00pm Proficiency Exam and Course Evaluation
- 3:00pm *Adjourn*

Download Course Materials at: [www.abcdefghijklmnopqrstuvwxyz](http://www.abcdefghijklmnopqrstuvwxyz)