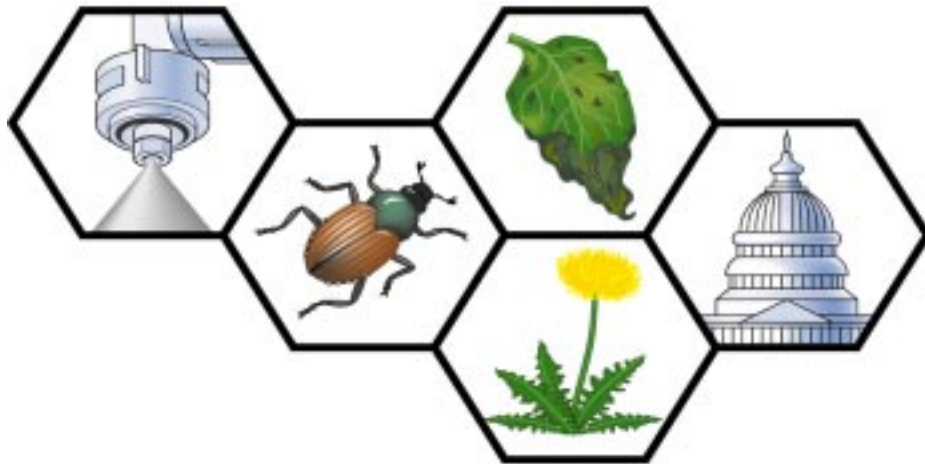


**University of Illinois  
Extension**

**Pesticide Safety  
Education Program**



**ANNUAL REPORT  
2003-2004**



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November 2004 (Reflects activities from July 2003 through June 2004)

# Introduction



Illinois law, in accordance with the Federal Environmental Pesticide Control Act, requires that anyone who purchases or uses pesticides classified as "restricted use" must be certified as a commercial pesticide applicator or operator, or a private (farmer) pesticide applicator. In addition, those who apply "general use" pesticides commercially must also be certified. The responsibilities of the Illinois Department of Agriculture (IDA) and University of Illinois Extension (Extension) in pesticide certification and training are clearly defined. The IDA, as lead agency, has responsibility for the certification and issuing of permits or licenses to persons who apply pesticides. Extension, working in cooperation with IDA staff, is responsible for conducting educational training programs for private, commercial, and public pesticide applicators and operators.

Since 1966, Extension has been conducting training schools for private applicators, and commercial agricultural and urban operators and applicators. The purpose is to train applicators and operators in the proper and safe use of pesticides to prevent misuse and to avoid accidents. In addition to keeping applicators up-to-date on new developments in both chemical and nonchemical pest control methods, the training sessions help to prepare applicants to pass examinations required for obtaining a license or certification. This quality pesticide safety education is ultimately vital to Illinois residents in terms of public health protection and environmental stewardship.

## Support

Initial funding for the Pesticide Safety Education Program (PSEP) was provided by the U.S. Environmental Protection Agency (USEPA) through the USDA Federal Extension Service, starting in 1974. These funds have been reduced over the years in amount and also in value due to inflation.

The Pesticide Control Fund, approved by the Illinois State Legislature in August 1985, provides funds to the IDA "for the purpose of conducting a public educational program on the proper use of pesticides and for other activities related to the enforcement of this act." This fund provides the bulk of the dollars needed to conduct educational programs related to the safe and proper use of pesticides.



# Program Goals and Mission

The goal of our program is to reach all users of pesticides in Illinois with educational information on the effective, economic, and environmentally sound use of pesticides.

Our mission is twofold:

1. To provide training through PSEP for private and commercial applicators in Illinois.
2. To provide pesticide education to a diverse audience in other related program areas such as homeowner pesticide safety, worker protection, pesticide recordkeeping, water quality, endangered species, IPM, and food safety.

Pesticides are important tools in production agriculture, enabling producers to manage pests such as insects, weeds, and diseases. Pesticides are also important in helping maintain attractive and useful landscapes. Pesticides play an important role in public health in control of nuisance pests and disease vectors such as mosquitoes. Homeowners routinely use pesticides for pest control in and around the home. Extension Pesticide Safety Educators provide educational and training programs to address Health, the Environment, Pest Management, and Pesticide Safety. Here are some of the ways we do it.

## HEALTH

- Understanding health effects from the misuse of pesticides
- Food safety
- Water quality issues
- Worker protection for agricultural pesticides
- Personal safety of applicators
- Vector control programs
- Pesticide application education
- Home use of pesticides

## ENVIRONMENT

- Water quality
- Prevention of adverse effects to the ecology
- Endangered species
- Sustainable agriculture & IPM
- Calibration, application, and drift reduction
- Disposal of pesticides



## PEST MANAGEMENT

- Pest identification and damage assessment
- Integrated pest management
- Nonchemical controls
- Pesticide selection
- Pesticide timing
- Evaluation of control methods



## PESTICIDE SAFETY

- Understanding pesticide labels
- Selection of pesticides
- Understanding health effects of pesticides
- Proper application of pesticides
- Personal protection
- Proper storage and security



# PSEP Office

The University of Illinois Extension Pesticide Safety Education Program (PSEP) maintains an office to carry out needed administrative and secretarial functions. Close interaction with the Illinois Department of Agriculture regarding the number of attendees at each clinic and other operational issues results in consistent information from both training and testing personnel to our PSEP clinic attendees.



## Communication

Key to the PSEP customer's satisfaction is the ability to communicate through fax, telephone, voice mail or U.S. mail. Our telephone system includes 24-hour voice mail, an automated attendant to assist the caller in selecting which option is needed and a direct rollover option to the Illinois Department of Agriculture. There are currently 56 voice mail lines so that a busy signal does not occur. With the high volume of calls (11,000 per year), this system helps direct patrons to the phone service they need in a timely manner.

The Commercial and Private schedule, plus other pertinent clinic information is also available on the University of Illinois Pesticide Safety Education website ([www.pesticidesafety.uiuc.edu](http://www.pesticidesafety.uiuc.edu)). A listing of available PSEP publications including the most recent publication date is also on this site. Clients have the option to print and mail the forms to register for clinics and/or order study materials.

## Customer Satisfaction

The PSEP office also sells educational materials. Customer response is very positive since they are able to register plus order desired materials in one telephone call. Mailing of requested educational materials is promised within 72 hours, however this is usually accomplished the same day. During the past year, 7258 publications were sold to customers from the PSEP office. PSEP educational materials are also available at the commercial clinics where 1135 publications were sold this past training season.

A detailed operational analysis of the PSEP office procedures was conducted last summer to ensure that the optimum utilization of resources was being realized. Several on-line changes were initiated to the mirror databases, which proved to increase the delivery of service from the office. Also, updated software was installed in order to keep current and match the partners with whom we communicate.

Data entry within the PSEP offices utilizes two relational databases that work behind the scenes to automate the customer's registration and/or publication order. This allows one to enter information while talking to clientele, calculate the total cost, and provide a confirmation number prior to ending the phone conversation. This past season, 6479 transactions were conducted resulting in a training volume of 7916. This professionalism adds confidence to the interaction between the PSEP office and our customers.



# Commercial PSEP Clinics

Pesticide Training and Certification Clinics for commercial applicators and operators were conducted at 28 sites during the months of November through May. At these meetings, 7,916 commercial applicators and operators were trained (Table 1). In addition to General Standards training, category training was offered in the areas of Field Crops, Turf, Ornamentals, Rights-of-Way, Aquatics, Plant Management, Seed Treatment, Demonstration and Research, Mosquito, and Grain Facility.

Training is conducted by using a computer projector controlled by a laptop computer. This setup utilizing PowerPoint software allows easy audience and other adaptations to the presentations.

**Table 1. Clients Trained by Category during 2003-2004 Commercial PSEP Clinics**

CLINIC DATE	LOCATION	GS	PM	S	T	O	GF	FC	D&R	MOS	ROW	AQ	TOTAL
Nov. 4 - 5	Mt. Vernon	31									22		53
Nov. 19 - 20	Springfield	42									27		69
Dec. 4 - 5	Peoria	124						34	7				165
Dec. 8 - 9	Mt. Vernon	195		6			40	56	1				298
Dec. 11 - 12	Champaign	188		19			29	52					288
Dec. 16 - 17	Springfield	177		14			21	44		20			276
Jan. 5 - 6	Mt. Vernon	221			36	20				24	81		382
Jan. 9	Urbana	66							9				75
Jan. 12 - 13	Willowbrook	186	11		93	51							341
Jan. 14 - 15	Rockford	268			85	41				19	67		480
Jan 20 - 21	Collinsville	274			73	39				28	68	28	510
Jan. 27	Peoria	47											47
Jan. 29 - 30	Utica	174		20			27	73					294
Feb. 3 - 4	Springfield	290			64	35					52		441
Feb. 5 - 6	Urbana	231			72	56					42		401
Feb. 10 - 11	Quincy	125						40					165
Feb. 17 - 18	Peoria	276			101	47						34	458
Feb. 19 - 20	Matteson	242			101	41				31	42		457
Feb. 27	Dekalb	107											107
Mar. 3 - 4	Skokie	220			121	57						14	412
Mar. 18 - 19	Moline	250			93	37					60		440
Mar. 25 - 26	Willowbrook	233			93	46					47	34	453
Mar 31 - Apr 1	Streamwood	172			85	47					22		326
Apr. 7	Crystal Lake	56											56
Apr. 8 - 9	Willowbrook	214			62	30				52	19		377
Apr. 14 -15	Skokie	116	6		42	22					15		201
Apr. 21 - 22	Collinsville	116								41	58		215
May 5 - 6	Springfield	100								29			129
		4741	17	59	1121	569	117	299	17	244	622	110	7916

GS=General Standards; PM=Plant Management; S=Seed Treatment; T=Turfgrass; O=Ornamentals; GF=Grain Facility; FC=Field Crops; D&R=Demonstration & Research; MOS=Mosquito; ROW=Rights-of-Way; AQ=Aquatics.

Each attendee receives a workbook and pencil to aid note-taking and information retention. Bilingual General Standards workbooks in Spanish and English are provided for Hispanic clientele.



### **Special Clinics**

Two special training clinics were held for Illinois Department of Transportation (IDOT) personnel during October. Snow plowing responsibilities commonly hamper their ability to attend regular training clinics during the winter. A general standards training clinic was held at the Illinois Fertilizer and Chemical Association Meeting on January 27.

### **Trainers**

Champaign-Urbana extension personnel conducted much of the clinic training. Extension Educators throughout the state, particularly in northeastern Illinois, also assisted with the training (page 20). Pesticide Safety Education Specialists provided assistance to the training efforts of these Extension Educators by furnishing slides, notes, and other training materials. This afforded additional educational contacts for the participating Extension Educators and allowed the campus-based staff to pursue appropriate additional activities.

### **Continuing Education Units**

While preparing for the pesticide applicator certification exam, 82 Certified Crop Advisers received a total of 277 Continuing Education Units in Integrated Pest Management after attending approved category training (Field Crops, Seed Treatment, and Grain Facility). Our category training was also approved for continuing education credits with the Illinois Arborists Association (Ornamentals) and the Golf Course Superintendents Association of America (Turf).

### **Evaluation**

Teacher and training evaluations were distributed at several PSEP clinics. These evaluations addressed both general standards and category training. A mailed practice change survey was also done on a sample of those attending clinics. The survey showed that 93% improved one or more pesticide safety activities as a result of the training.

### ***Program Benefit***

*The benefits of our pesticide safety educational programs far exceed the costs. We improve the quality of pesticide applicators in Illinois by increasing their level of pesticide knowledge and safe use. In evaluations of private and commercial applicators conducted in previous years, participants reported significant change in the way they handled pesticides. After training, applicators were more likely to refer to pesticide labels, use safety equipment, and calibrate application equipment.*



## Private PSEP Clinics

In contrast to Commercial PSEP clinics, Private PSEP clinics are Unit-based, meaning that Unit Leaders, Unit Educators and Center Educators are responsible for scheduling, hosting, and conducting all clinics. In addition, the Illinois Department of Agriculture (IDA) offers certification testing following all clinics. Thus, an efficient working relationship between Extension and IDA is critical to the scheduling process.

Based on IDA's pre-season estimate, there were 8,016 Private Applicators in need of recertification during the 03/04 season; a 19% decrease from three years ago. About 86% of these applicators were served by the scheduled training and testing clinics. The remaining applicators either attended a test-only session or no longer required a license for various reasons. In response to IDA's county-specific recertification estimates, Unit Leaders, Educators, and IDA inspectors did an excellent job of scheduling an appropriate number of clinics. As shown in Table 2, there were 109 training and testing clinics across our state which has 102 counties.

**Table 2. Private PSEP Clinics for 2003/2004**

Clinics:	Clinics	Total Clients	Clients per clinic		
			Min.	Median	Max.
Training and testing	107*	6,932	15	63	140
Grain Fumigation training and testing	2	47	12	—	35
<b>Totals</b>	<b>109</b>	<b>6,979</b>			

\*The Latitude Bridge distance conferencing system was used at 2 clinics

### Other Clinic Statistics

Private PSEP clinics were conducted by 32 trainers, with the median number of clinics per trainer being 4, while the maximum was 17. Most often (46% of the time), training was conducted by two trainers per clinic, while 39%, 13%, 1%, and 1% of the time, training was conducted by 1, 3, 4, and 5 trainers, respectively. Training typically lasted about 3 hours, while there were a few cases (4% of the clinics) where training was less than 2.5 hours. The Private PSEP workbook was used by the audience at 84% of the clinics. However, only 14% of the clinic reports indicate the workbook being used by more than 50% of the audience. Digital presentations (PowerPoint) were used at 98% of the clinics, compared to 91% and 74% the previous two seasons.

The use of clinic pre-registration decreased this year, with 77% of the training and testing clinics reporting its use. Clients were charged a fee at 39% of the training and testing clinics, and fees ranged from \$5 to \$10 per person.

Program funding last season allowed us to continue to reimburse part of the cost of renting larger facilities for Private PSEP clinics. As a result of this reimbursement program, \$450 were used to help fund 3 Private PSEP clinics. In addition, the Trainer Reimbursement Program was continued in order to lessen the financial burden (via partial mileage reimbursement) for trainers who necessarily conduct an unusually high number of clinics. As a result of this reimbursement program, \$823 were used to assist 4 trainers.



### **Keeping Current**

We communicate with the Private PSEP trainers throughout the year via email, the *Illinois Pesticide Review* Newsletter, and mailings to keep them aware of new information concerning pesticide regulations and training. Pertinent information from USEPA and other sources is forwarded electronically and by other means. In addition, an Internal PSEP website is used to aid Unit Leaders and Educators in scheduling Private PSEP clinics and in answering common PSEP-related questions. This site is also used to distribute updated PowerPoint slides and slide notes.

In 2003, two off-campus trainers joined the campus-based team at the National Pesticide Certification & Training conference in Honolulu, HI. In 2004, two different off-campus trainers joined the campus-based team at the North Central Pesticide Certification & Training conference in St. Louis, MO.

### **Evaluation**

As a follow-up to the on-site evaluations conducted during the 2002-2003 training season, a detailed practice change survey was developed. From the 8,945 Private Applicators who were certified or recertified during the 2002-2003 training season, 600 individuals were randomly selected to participate in this survey. Participants were asked demographic information as well as how much they improved in seven key areas: 1) Reducing pesticide exposure to yourself, 2) Worker Protection Standard compliance, 3) Protecting environmentally-sensitive areas, 4) Calibration and application procedures relating to accuracy, uniformity, and drift, 5) Pest control decision-making, 6) Storing and protecting pesticides, and 7) Restricted Use Pesticide application record-keeping compliance. In total, the mailed survey tool included 50 questions and the effective response rate was 70%. An analysis and report is underway. The results from both the on-site and practice change surveys will be published together elsewhere.

### ***Program Benefit***

*Nationally, these programs have shown to maintain pesticides that would otherwise be lost to producers. Our educational programs help regulatory programs with voluntary compliance through better understanding.*



## Worker Protection Standard



Bruce Paulsrud and Michelle Wiesbrook lead Extension's Worker Protection Standard (WPS) efforts. The WPS program was crafted in 1992 and fully implemented in 1995. Beginning in June 2000, stakeholders began meeting to discuss the status of the WPS, a program aimed at reducing the risk of agricultural pesticide poisonings and injuries among farm, forestry, nursery, and greenhouse workers. The three-year reassessment process began with EPA asking stakeholders to discuss their key concerns about the WPS program and

follow-up meetings focused on how, if at all, the WPS should be changed. Michelle Wiesbrook participated in these national workshops and was invited to be part of a special workgroup that was given the charge of making recommendations to EPA on general training issues. These recommendations were presented to EPA as well as numerous stakeholders at the final reassessment meeting in the spring. We await EPA's recommendations for any changes to the WPS.

We continue to inform employers, employees, IDA inspectors, and educators about the WPS through fact sheets, newsletter articles, as well as during PSEP clinics. Since PSEP training meets the WPS training requirements, agricultural employers have the option of sending their agricultural workers and handlers to these clinics for WPS training. Each PSEP trainer is certified to distribute worker and handler WPS Training Verification Cards to clientele. To receive a card, the client simply needs to request one following training. These cards are optional, and the client does not need to take an exam to receive one. For this reporting period, 28 (4 Worker, 24 Handler) WPS cards were distributed by University of Illinois staff.

## Certification Examinations



Since 1998, the PSEP team has worked with the Illinois Department of Agriculture to review exam questions (based on our PSEP manuals) for use in the certification process. As a result, both parties feel more comfortable with the exams given to our clients. During the past year, we assisted IDA in reviewing six banks of exam questions that were used to create new tests for the following areas: General Standards, Mosquito, Fruit, Vegetable, Grain Facility, and Grain Fumigation.

# Operation Safe Fly-ins



Scott Bretthauer assisted with conducting the Illinois Agricultural Aviation Association's (IAAA Operation S.A.F.E. fly-in from April 27 until April 30. S.A.F.E. stands for Self-regulating Application and Flight Efficiency. Fly-ins are an important part in helping pilots set up their aircraft, which pilots bring in to be evaluated. Specialized equipment is used to test and measure the spray pattern and the size of the spray droplets created by the aircraft. Trained S.A.F.E. analysts help the pilots evaluate the results of these tests and make adjustments on their aircraft to ensure safe and accurate applications. The analyst recommends changes that will improve the pattern uniformity and droplet size. After adjustments are made, the pilot can then fly another series over the string and cards to see if the adjustments produce the desired results.

The technology used in agricultural aviation is constantly changing and improving. Fly-ins allow pilots to make sure they have new equipment set up correctly and that it is performing as it should. This year's fly-in was held at the Coles County Memorial Airport near Mattoon, Illinois. Over the course of the 4 days, 16 different aircraft from 4 different states were tested and evaluated. These 16 aircraft made a combined total of 144 passes over the flight line.

# Homeowner Programs

Illinois homeowners and other residents are educated by Extension on proper pesticide use through the Master Gardener Program, Expanded Food and Nutrition Education Program (EFNEP), and various gardening, home safety, and other programs. The PSEP specialists developed the pesticide safety section of the Illinois Master Gardener Handbook and the color slide presentations used to train Master Gardeners. PSEP specialists also deliver training sessions for beginning and advanced Master Gardeners.



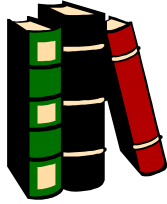
The *Home, Yard, and Garden Pest Guide* was revised this year. It provides important pest management information on specific pests to Illinois residents. Included in this guide is a section on pesticide safety. Much of this pest guide was written by PSEP specialists.

The PSEP team prepared and presented displays on West Nile Virus and Pesticide Protective Clothing at the Farm Progress Show in Henning, IL. Thousands of farmers, their families, and homeowners were educated by the exhibits.





## Educational Materials



University of Illinois PSEP publishes eighteen manuals that address most areas of pesticide certification in Illinois. Nine workbooks are produced to cover the eleven most commonly licensed areas. Our manuals and workbooks continue to be used not only as references and learning tools before and during training clinics, but also as self-tutorial guides for those who wish to study on their own. These publications allow us to educate more operators and applicators than actually attend PSEP clinics.

In preparation for the 2003-2004 training season, the Private PSEP presentations were reviewed; only minor updates were necessary this year. These updates, and their associated Notes Pages were made available (via the Internal PSEP website) to the Private PSEP trainers.

In the fall of 2002, the Private Applicator Self-Study CD and the Stored Grain Pest Management Self-Study CD were developed. The latter CD serves both the private applicator Grain Fumigation category, and the commercial Grain Facility category. An evaluation was enclosed with each CD. Of those who purchased the Private Applicator Self-Study CD, 10% returned an evaluation. In response to the statement, “The CD did a good job preparing me for the pesticide exam”, 85% agreed or strongly agreed. Only one person disagreed or strongly disagreed with this statement; the remainder were neutral. In response to the statement, “I would consider purchasing self-study CDs on other topics in the future”, 84% agreed or strongly agreed; the remainder were neutral. Feed-back on the Stored Grain Pest Management Self-Study CD is also favorable, but the response rate is still only 4%.

Several manuals and workbooks were developed or revised. New manuals for Forestry and Mosquito were published. Revised manuals for Field Crops and Rights-Of-Way are written and are in the process of editing and design. The General Standards Workbook and Bilingual General Standards Workbook were revised.

“Reducing Pesticide Drift: Specialty Crops and Conventional Crops As Good Neighbors” was distributed to all Private and Field Crop Applicators this year. A new PSEP bookmark was developed to assist clientele in obtaining information from PSEP and IDA. A new brochure was developed to acquaint clientele with our educational programs. Displays on “Invasive Pest Diagnostic Network” and “Wanted: Proper Home for Treated Seed” were displayed at venues where PSEP trainers and other professionals were educated by them.

The Illinois Agricultural Pest Management Handbook was revised and printed. This handbook, along with the Illinois Commercial Landscape and Turfgrass Pest Management Handbook, provide important specific information on pest management for Private and Commercial Applicators.

# Mass Media



Through radio, television, newspapers, and magazines, PSEP specialists increased client knowledge of proper pesticide application, new developments in human and environmental pesticide safety, and recently enacted rules and regulations. At least 55 newspaper and magazine articles were published as the result of news interviews or news releases produced by PSEP specialists. Nineteen radio programs spanning five hours of air time were used to promote proper pesticide use. Information from PSEP specialists was featured in 11 television programs.

## Illinois Pesticide Review

Six issues of *The Illinois Pesticide Review* newsletter were published this year. This bimonthly newsletter is written by PSEP specialists in Illinois to address pesticide safety issues, regulatory information, and changes in pesticide registration and label status. Each issue contains at least one in-depth article addressing current pesticide issues or University of Illinois pesticide-related activities. The newsletter is available electronically in both HTML and PDF format on the Pesticide Safety Education website. The automatic e-mail notification system, created to immediately notify Illinois Pesticide Review readers when new issues are posted to our website, is still successful with over 350 readers registered.

## World Wide Web

The Pesticide Safety Education website ([www.pesticidesafety.uiuc.edu](http://www.pesticidesafety.uiuc.edu)) continues to provide up-to-date information. Visitors will find the *Illinois Pesticide Review* newsletter, information about Commercial and Private PSEP Clinics, and a host of valuable links to other pesticide-related sites.

These efforts serve to keep clientele up-to-date about pesticide safety issues outside of the PSEP clinics that they attend. Important information is communicated to the clientele when it is needed. In addition, many homeowners and other Illinois residents learn how to apply pesticides correctly and safely in and around their homes.

### ***Program Benefit***

*Many homeowners and other Illinois residents learn how to apply pesticides correctly and safely in and around their homes. They also gain an appreciation of the efforts being made to use pesticides in a manner that reduces the impact to human health, wildlife, and the environment while maximizing the low-cost production of food and providing aesthetically pleasing landscapes and roadsides.*



## Other Programs

### **Off-Season Clientele Interaction**

The PSEP team is integral to communicating pest identification, scouting, and recommendations to commercial pesticide applicators in Illinois. They annually answer large numbers of individual weed, disease, and insect pest queries by telephone, mail, e-mail, the Distance Diagnostic System, and through the Plant Clinic. Phil Nixon coordinates production of the urban pest management handbooks and *Home, Yard, and Garden Pest Newsletter* to which the other PAT specialists routinely contribute. Articles are also written for the *Pest Management and Crop Development Bulletin* and *Imagine*, the state Master Gardener Newsletter. The PSEP specialists are authors of several chapters in the *Illinois Agricultural Pest Management Handbook*, *Illinois Commercial Landscape and Turfgrass Pest Management Handbook*, and *Home, Yard, and Garden Pest Guide*.

### **Workshops, Shows, and Meeting Participation by PSEP Specialists**

Amer. Assoc. of Pesticide Safety Educators Prof. Development Conf., St. Louis, MO  
Emerald Ash Borer Survey & U.S. Forest Service Consultation, Livonia, MI  
Entomological Society of America Annual Meeting, Cincinnati, OH  
Farm Progress Show, Henning, IL  
Fruit Tree and Pumpkin/Vegetable School, Quincy, IL  
Illinois Emerald Ash Borer Preparedness Group, Lisle, IL  
National Pesticide Certification & Training Meeting, Honolulu, HI  
North Central Division American Phytopathological Society Meeting, St. Paul, MN  
North Central Pesticide Certification & Training meeting, St. Louis, MO  
North-Central Turf Expo, St. Charles, IL  
Operation S.A.F.E. Analyst Certification Training, La Junta, Colorado  
Purdue Pest Control Conference, W. Lafayette, IN  
Southern Illinois Grounds Maintenance School, Collinsville, IL  
The Morton Arboretum Ash Symposium, Lisle, IL  
University of Illinois ACES Open House, Urbana, IL  
University of Illinois Agronomy Day, Urbana, IL  
University of Illinois Annual Extension Conference, Urbana, IL  
University of Illinois Crop Protection Technology Conference, Urbana, IL  
University of Illinois Extension Apiculture & Pollination Workshop, Springfield, IL  
University of Illinois Extension GPS In-service, Urbana, Illinois  
University of Illinois Extension Horticulture Team In-service, Peoria, IL  
University of Illinois Extension Pumpkin Day, Urbana, IL  
University of Illinois Turf and Ornamentals Field Day, Urbana, IL  
University of Illinois Workshop, Introduction to Photoshop, Urbana, IL  
USEPA Region 5 Pre-SFIREG meeting, Chicago, IL

**Major Invited Talks Given by PSEP Specialists**



- Care-giver Inservice Training, *Management of Roaches, Rats, & Mice*, Markham, IL
- Central Illinois Horticulture Conference, *Exotic Tree Insects in Illinois*, Mahomet, IL
- Illinois Forestry Herbicide Workshop, *Herbicide Application Equipment and Calibration*, Bloomington, Illinois
- Illinois Housing Authority Annual Conference, *Weed Control Basics and Pesticide Applicator Licensing*, Decatur, IL
- Illinois Landscape Contractors Association Annual Conference, *Woody Insect Pests*, Schaumburg, IL
- Illinois-Indiana Seed Conditioning Workshop, *Wanted: Proper Home for Treated Seed*, Urbana, IL
- Illinois Summer Horticulture Day, *Finding Value in a Pest Management Strategic Plan*, Belleville, IL
- Marshall-Putnam Extension Unit, *Oak Wilt: People & Trees, A Community Approach to Management*, Hennepin and Lacon, IL
- Missouri Category 7 Pesticide Recertification Clinic, *Daycare IPM*, St. Louis, MO
- North Central Turf Exposition, *Diagnosing Evergreen Problems, and Variation Among Crabapples to Apple Scab & Frog-Eye Leaf Spot, Invasive Insect Species, Insects on Sports Turf*, St. Charles, IL
- Professional Applicators Training, *Application Technologies to Control Droplet Size and Reduce Spray Drift*, Peoria, Illinois
- Southern Illinois Grounds Maintenance School, *ID & Control of Turf Insects in the Landscape*, Collinsville, IL
- University of Illinois Horticulture Distance Education, *West Nile Virus in Illinois*, Urbana, IL to multiple Illinois sites
- University of Illinois Horticulture Field Day, Urbana, IL
- University of Illinois Master Gardener Annual Conference, *Grassy Weed Identification*, Lisle, IL
- University of Illinois Master Gardener Training, *IPM and Pesticide Safety, Insect Pest Management*, Carlinville, Decatur, Dekalb, Macomb, Peoria, Rock Island, Springfield, IL
- University of Illinois Medical Entomology Course, *Cockroaches, Venomous Insects*, Urbana, IL
- University of Illinois Spanish/English Grounds Maintenance and Nursery Seminar, Harvard, IL
- University of Illinois Turfgrass and Ornamentals Field Day, *Tree Wilt Disease Prevention: A Brighter Future?*, Urbana, IL
- USEPA Region 5 Pre-SFIREG meeting, *Disposal of Treated Seed – Update*, Chicago, IL



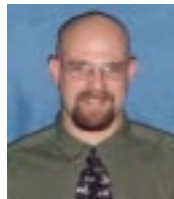
## **Pesticide Safety Education Specialists**



**Patty Bingaman, PSEP Program Facilitator**  
**Extension Assistant**  
**Department of Natural Resources and Environmental Sciences**

Coordinates commercial PSEP clinics. Conducts commercial clinic preregistration and PSEP publication distribution. Maintains financial accounts, develops new data bases, and prepares special reports and brochures. Co-coordinates acquisition, reprinting, and marketing of PSEP study material.

[http://www.nres.uiuc.edu/faculty/directory/bingaman\\_pa.html](http://www.nres.uiuc.edu/faculty/directory/bingaman_pa.html)



**Scott Bretthauer, Communications Coordinator**  
**Extension Specialist in Application Equipment**  
**Department of Agricultural and Biological Engineering**

Provides subject matter expertise and training in pesticide application equipment and calibration. Coordinates the private PSEP program. Conducts special aerial calibration clinics and pesticide drift reduction programs. Coordinates the development of electronic training materials and PSEP equipment. Manages the PSEP website.

<http://www.age.uiuc.edu/acadprof/mfmohr>



**Phil Nixon, Reporting Coordinator**  
**Extension Specialist in Entomology**  
**Department of Natural Resources and Environmental Sciences**

Provides subject matter expertise and training in entomology. Prepares grant proposals, state and federal reports, and other reports and summaries. Co-coordinates PSEP study material activities. Structural pest control liason with the Illinois Department of Public Health. Coordinates Commercial PSEP support trainers.

[http://www.nres.uiuc.edu/faculty/directory/nixon\\_pl.html](http://www.nres.uiuc.edu/faculty/directory/nixon_pl.html)



## Pesticide Safety Education Specialists



**Bruce Paulsrud, Private PSEP Coordinator  
Extension Specialist in Plant Pathology  
Department of Crop Sciences**

Provides subject matter expertise and training in plant pathology. Collects information on pesticide usage patterns for various crops. Co-coordinates PSEP study material activities. Facilitates the flow of information from USEPA and IDA. Co-coordinates Illinois' Worker Protection Standard program.  
<http://www.crops.uiuc.edu/bios/paulsrud.html>



**Michelle Wiesbrook, Newsletter Coordinator  
Extension Specialist in Horticulture  
Department of Natural Resources and Environmental Sciences**

Provides subject matter expertise and training in horticultural weed science. Collects and organizes newsletter information and ensures its timely publication. Facilitates the establishment and collection of supportive data related to weed science. Co-coordinates Illinois' Worker Protection Standard Program.  
[http://www.nres.uiuc.edu/faculty/directory/wiesbrook\\_ml.html](http://www.nres.uiuc.edu/faculty/directory/wiesbrook_ml.html)



**Jean Miles, PSEP Office Assistant  
Department of Natural Resources and Environmental Sciences**

Helps handle telephone queries and registration, collect registration and publication data, process mailorders for educational materials, and assist in other operational functions within the PSEP office.



## Illinois Pesticide Safety Education Program



### **Support Trainers**

#### **COMMERCIAL PSEP TRAINERS**

*Campus Faculty:* Raymond Cloyd, Linda Mason (Purdue University), Dawn Nordby, Tom Voigt

*Crop Systems Educators:* Dale Baird, Robert Bellm, Bill Brink, Pete Fandel, Ellen Phillips, Mike Roegge

*Horticulture Educators:* Susan Grupp, Barb Larson, Maurice Ogutu, David Robson, Jim Schuster

*Integrated Pest Management Educators:* Russ Higgins, Mark Hoard

*Natural Resources Management Educators:* John Church, Duane Friend

#### **PRIVATE PSEP TRAINERS**

*Animal Systems Educators:* Wes Winter

*Crop Systems Educators:* Dale Baird, Robert Bellm, Dennis Bowman, Bill Brink, Greg Clark, Megan Curless, Dennis Epplin, Sean Evans, Pete Fandel, Doug Gucker, Gary Letterly, Bill Lindenmier, Matt Montgomery, Jim Morrison, Ellen Phillips, Mike Roegge, Marion Shier, Pat Toohill

*Horticulture Educators:* Kelli Bassett, Chris Hilgert, Greg Stack, Elizabeth Wahle

*Integrated Pest Management Educators:* Suzanne Bissonnette, Gary Bretthauer, Dave Feltes, Russ Higgins, Mark Hoard

*Natural Resources Management Educators:* Kyle Cecil, Mike Plumer, David Shiley

*Unit Leaders:* John Fulton

### ***Program Benefit***

*Our PSEP programs have a value-added approach. Participants come to our training not only because they need information to pass the licensing examination, but also to obtain additional information that is important in terms of public health protection, environmental stewardship, and plant protection.*

## Steering Committee

The PSEP Steering Committee represents each of the three departments housing PSEP Specialists as well as off-campus staff, serving in program administration and advisory capacities as various opportunities and challenges arise. The committee members are familiar with the PSEP program and its mission. They represent the interests of their disciplines, associated clientele, and departments, with a variety of expertise, experiences, and perspectives.



*Loren Bode*  
*Chair of the PSEP Steering Committee*  
*Head, Department of Agricultural and Biological Engineering*  
*Dept. of Agricultural and Biological Engineering Representative*  
<http://www.age.uiuc.edu/faculty/leb/leb.html>



*Dan Nelson*  
*Regional Director, Southern Region*  
*University of Illinois Extension Off-campus Representative*  
<http://web.extension.uiuc.edu/cie/offices/index-t.cfm>



*Kevin Steffey*  
*Professor of Agricultural Entomology*  
*Department of Crop Sciences Representative*  
<http://cropsci.uiuc.edu/faculty/steffey/>



*John Van Es*  
*Assistant Dean of Agriculture and Natural Resources*  
*Office of Extension and Outreach Representative*  
<http://www.extension.uiuc.edu/oeo/about.html>



*Tom Voigt*  
*Assistant Professor of Turfgrass Science*  
*Department of Natural Resources and Environmental Sciences Rep.*  
[http://www.nres.uiuc.edu/faculty/directory/voigt\\_t.html](http://www.nres.uiuc.edu/faculty/directory/voigt_t.html)



# Appendix A



## **Professional Improvement by PSEP Specialists**

### **Professional Society Involvement**

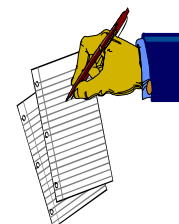
American Association of Pesticide Safety Educators (AAPSE)  
AAPSE Journal of Pesticide Safety Education Editorial Committee  
American Phytopathological Society  
American Society of Agricultural Engineers  
Entomological Society of America (ESA)  
Illinois Agricultural Aviation Association (IAAA)  
Illinois Extension Agricultural Association  
Illinois Network for Agricultural Safety and Health  
Illinois Turfgrass Foundation  
National Agricultural Aviation Association (NAAA)  
North Central American Phytopathological Society  
North Central Weed Science Society  
USEPA Region 5 State and Federal Regulatory Committee  
Weed Science Society of America

### **University Committee Involvement**

Agriculture, Natural Resources, and Comm. Horticulture Program Planning Committee  
Crop Protection Technology Conference Committee  
Crop Sciences Extension and Outreach Committee  
Crop Sciences Safety Committee  
Crop Systems Development Team  
Edgar County and Ford-Iroquois Unit Extension Program Review Committees  
Extension Spanish Language Programming Task Force  
Grounds Advisory Committee  
Horticulture Development Team  
IPM Development Team  
NRES Academic Professional Advisory Committee  
NRES Extension & Outreach Committee  
PSEP Extension Specialist Search Committee

### **Other Committees**

2004 North Central Certification and Training Workshop Planning Committee  
Illinois Interagency Committee on Pesticides  
Illinois Soybean Rust Committee (Fungicides sub-committee)  
Illinois Structural Pest Control Advisory Council  
Illinois Worker Protection Stakeholders Committee  
Illinois-Indiana IPM in Schools Education Committee  
NAAA Operation S.A.F.E. Committee  
Purdue Pest Control Conference Planning Committee  
USEPA Consumer Labeling Initiative Committee  
USEPA Pesticide Applicator Test Validation Project  
USEPA Urban Programs Committee



# Appendix B

## Summary of Accomplishments

<u>Accomplishment</u>	<u>Date of Completion</u>
Illinois Pesticide Review Newsletter	6 Issues
Commercial PSEP Clinics (28 clinics)	All Season
WPS Training Verification Cards issued (28)	All Season
Private PSEP Clinics (109)	All Season
PSEP Office Database and Program Upgrades	September 2003
Commercial PSEP Clinic Schedule Printed	September 2003
General Standards Manual Revision	September 2003
PSEP Bookmark	September 2003
Off Season PSEP Brochure	September 2003
Field Crops Workbook Reprint	September 2003
Aquatic Weed Control Workbook Reprint	September 2003
Plant Management Workbook Reprint	September 2003
Bilingual General Standards Workbook Revision	October 2003
Private PowerPoint Presentation Updates	October 2003
Mosquito Control Manual	October 2003
General Standards Workbook Revision	October 2003
General Standards PowerPoint Presentation Revision	October 2003
Forest Pest Control Manual	October 2003
PSEP 2002-2003 Annual Report	October 2003
“Invasive Pest Diagnostic Network” Display at Annual Ext. Conf.	October 2003
“Wanted: Proper Home for Treated Seed” Poster	October 2003
Field Crops Slide Set Revision	November 2003
Grain Facility & Seed Treatment Workbook Reprint	December 2003
Private PSEP Training via Distance Education	December 2003
Turf & Ornamental Workbook Reprint	December 2003
IL Agric. Pest Management Handbook Revision	January 2004
Aerial Fly-In Clinic	April 2004
Illinois Home, Yard, & Garden Pest Guide Revision	May 2004
Field Crop Manual Revision Draft	June 2004
Rights of Way Manual Revision Draft	June 2004







The development and publication of this document has been supported with funding from the Illinois Department of Agriculture.