

US EPA ARCHIVE DOCUMENT

Bed Bugs ARE Biting:

State Approach To Bed Bug Control



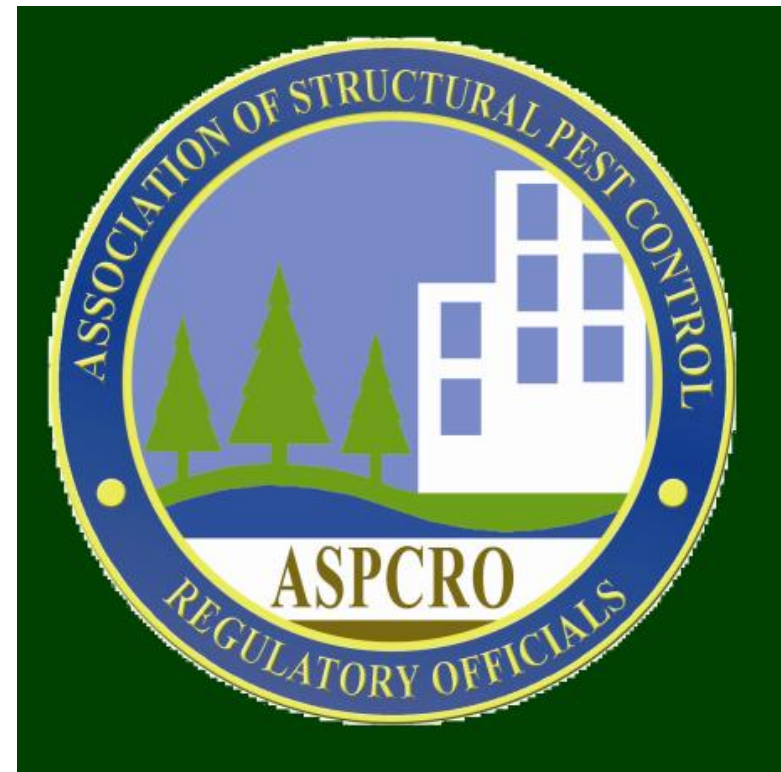
Second National Bed Bug Summit:
Advancing Towards Solutions to the Bed Bug Problem
February 1 & 2, 2011

Current State Activities

- Association of Structural Pest Control Regulatory Officials (ASPCRO)
- Virginia Department of Agriculture and Consumer Services

Who is ASPCRO?

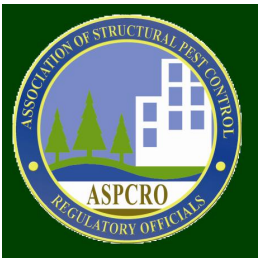
- National professional association of state lead agencies regulating pesticides;
- Focus on pesticide issues related to structural pest management ;
- Work cooperatively with national, state, and local governments, extension and the regulated industry;
- Support education, research, and effective regulatory actions.



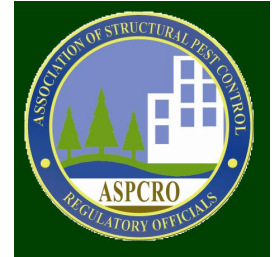
Bed Bugs:

Latest Structural Pest Control Challenge

- Bed Bug Committee (2009) *To assist State Lead Agencies, the Environmental Protection Agency and other stakeholders...the re-emergence of bed bugs.... facilitating dialogue..... identifying data gaps and mechanism to gather data.... a clearinghouse for resources & developing resources.... keeping abreast of both Federal and State initiatives, legislation and other activities.*
 - Liza Fleeson (VA)
 - Matt Beal (OH)
 - Tim Drake (SC)
 - Steve Dwinell (FL)
 - Eric Pearson (OK)
 - Norm Goldenberg (Terminix)
 - Bob Rosenberg (NPMA)
 - Julie Spagnoli (FMC)

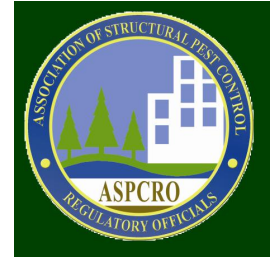


Select Committee Activities



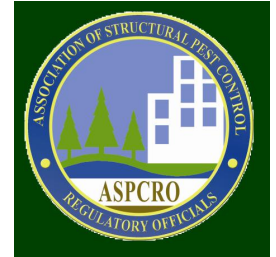
- NPMA
 - 2010 Bed Bug Survey
 - Assisted in distribution and encouraged participation
 - *How can SLA's assist the regulated industry?*
 - Consumer outreach and education;
 - Industry training and education;
 - Regulations;
 - Product registration.
 - Committee Members
 - Standing ASPCRO Committees
 - Blue Ribbon Task Force

Select Committee Activities



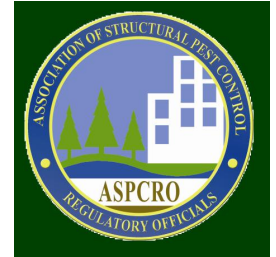
- Section 18 - Propoxur
 - In conjunction with other entities, worked to determine, develop, and pursue a public health emergency exemption;
 - Ongoing dialogue with EPA regarding exemption;
 - Standing offer for assistance in collecting needed data
- Inspection Protocols for Pesticide Investigators

Select Committee Activities



- Survey of SLA's
 - Identify current State issues and activities ;
 - Fill data gaps (i.e.: use/mis-use data)
 - Collect/develop resources
 - In cooperation with
 - Association of American Pest Control Officials (AAPCO)
 - EPA
- Label Language Review
 - Initial review of 205 products labeled for “bed bugs”
 - Group similar products and compare label language
 - Determine label language inconsistencies and possible label improvement

Committee Discussions



- EPA's Risk Assessment Process
 - Consideration of the risk of not registering products
 - Pesticide misuse
 - Decontamination
 - Health Issues - Mental not Physical
 - Delusional Parasitosis
 - Can result in severe mental distress and extreme **pesticide misuse** cases
 - Condition can be exacerbated by hard to control infestations

Pesticide Misuse

- How bad can it get?

- Misuse of methyl parathion in 1990's
- Recent Cases



- A pest control company in Newark, N.J., was accused in July of applying chemicals not approved for indoor use throughout 70 homes and apartments units, even spraying mattresses and children's toys. No illnesses were reported.
- Cincinnati, Ohio, an unlicensed applicator saturated an apartment complex in June with an agricultural pesticide typically used on golf courses. Seven tenants got sick and were treated at the hospital. The property was quarantined, and all tenants were forced to move. Authorities are pursuing criminal charges. **Associated Press, 8/30/10**

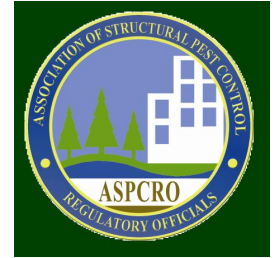


Bed Bugs and Regulators

Existing 25 (b) product claims -

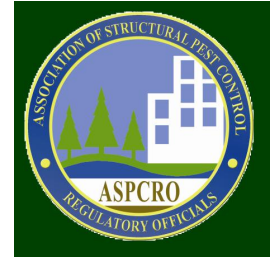
*EVERYTHING YOU NEED to rid yourself, kids and grandkids, pets and your home & yard of Fleas, Ticks, **Bed Bugs**, Lice, Mites and other parasites. Eliminates Scorpions, Roaches, Ants, Silverfish and others. Invented by CedarCide Industries for the US Army for control of Sand Fleas and other pests in the Middle East. BEST YET will undoubtedly go down in history as the most effective parasite control formulation ever brought to market. No chemicals in this product. Just food grade aromatic Red Cedar Oil and melted Quartz Rock. A genuine BIO based insect control agent. Not only does it command INSTANT DEATH to its arthropod recipients, it can be used on humans as a repellent for Mosquitoes, Chiggers, No-See-Um's, Flies and a array of other biting and flying pests.*

Committee Discussions



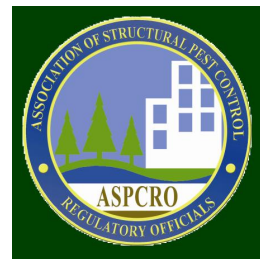
- Encouraging EPA to divert additional resources to this issue
- Outreach & Education
 - Language
 - Literacy

Committee Discussions



- Consumer Fraud - efficacy of products
 - Protocols for testing bed bug products
- Economics - the co\$t of treatment
 - Support for more affordable treatments options
 - Combination of treatments
 - New products

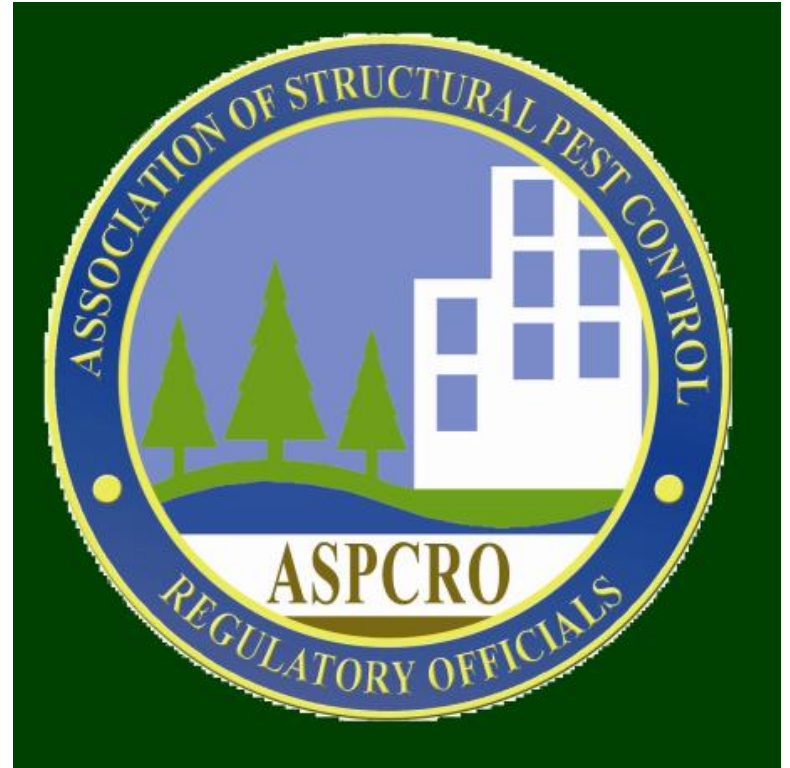
Committee Discussions



- Increasing the “tools” in the tool box
 - New chemistries
 - Screening existing chemicals
 - Section 18s - is this the best vehicle?
- Multi- Level and Agency Coordination
 - State pesticide, environment, and health agencies
 - Local housing authorities
 - Federal agencies, i.e.: EPA, CDC, DOD, HUD
 - Overlapping or incompatible regulations

Association of Structural Pest Control Regulatory Officials

www.aspcro.org



Contact Information for pesticide
regulatory officials in all 50 states

Virginia Department of Agriculture & Consumer Services

- Newest Challenge in Structural Pest Control
- Rising to the Challenge
 - Educated Ourselves So We Can Educate Others....
 - Involved In National Associations, for example, Association Of Structural Pest Control Officials (ASPCRO)....
 - Sought Opportunitie\$....



Outreach & Education Project

- Region 3 Discretionary Funding (\$75,000)
- Series Of “Bed Bug Forums” Throughout State
- Offered At No Cost To Participants
- Recertification Credits
- Outreach & Education Materials
- Forum Agenda
 - Bed Bug Biology
 - Health Significance Of The Pest
 - Inspection And Current Treatment Methods
 - Regulations And Bed Bugs
 - Challenges Of Bed Bug Management
 - Suggested Best Management Practices



Fact Sheets (English & Spanish)

- Bed Bug Biology and Behavior;
- How to Identify a Bed Bug Infestation;
- Bed Bug Prevention Methods;
- Bed Bug Treatment Using Insecticides;
- Non-Chemical Bed Bug Management;
- Bed Bug Action Plans:
 - Apartments;
 - Hotels;
 - Single Family Homes;
 - Healthcare Facilities;
 - Community Centers & Shelters;
 - Public Spaces (for example, movie theaters, for-hire transportation;
 - Schools.





Biología y Comportamiento de los chinches

Dini M. Miller, Ph.D., Department of Entomology, Virginia Tech
Andrea Polanco Department of Entomology, Virginia Tech

Introducción al ciclo de vida de los chinches

Los chinches que infesta hogares hoy en día proviene originalmente de una especie que se alimentaba de la sangre de los murciélagos que vivían en cuevas muchos años atrás. Cuando los humanos comenzaron a vivir en cuevas, los chinches comenzaron a alimentarse chupando la sangre de los humanos. Años después cuando los humanos dejaron las cuevas y comenzaron a desarrollar civilizaciones agrícolas, los chinches se dispersaron junto a ellos. Desde ese tiempo los humanos han transportado los chinches con ellos a todos los lugares del mundo.

Los chinches pertenecen a la familia de insectos Cimicidae. Todos los miembros de esta familia se alimentan exclusivamente de sangre. Los chinches de la cama, como se conocen popularmente (*Cimex lectularius*), tienen cinco estados de desarrollo. Cada estado de desarrollo (ninfas) debe alimentarse de sangre para poder pasar al siguiente estado de desarrollo. En los chinches, al igual que en todos los insectos, el esqueleto se encuentra en la parte exterior del cuerpo (exoesqueleto). Para poder crecer los chinches deben



M.D. Rios 2009



Bed Bug Treatment Using Insecticides

Dini M. Miller, Ph.D., Department of Entomology, Virginia Tech

Introduction

The U.S. Environmental Protection Agency (EPA) is responsible for protecting people from exposure to pesticides.



How to Identify a Bed Bug Infestation

Dini M. Miller, Ph.D., Department of Entomology, Virginia Tech

Introduction

You cannot just "see" bed bugs. They have to be brought into your home. So what is your first clue that you have a bed bug infestation? It could be a bite on your arm after a trip, or on a piece of used furniture that you bought at a garage sale.

It is suspicious of a bed bug infestation if you find unexplained bites on your arm. Bites are commonly a problem, but wake up in the morning with bites on your arm. While bites are not a good indicator of a bed bug infestation, they are so variable in appearance that a person traveling may not notice the bites. These bites do not always look like the ones in the picture. Alternatively, some people do not get bug bites at all.



Plan de Acción Para Chinches en Apartamentos

Andrea Polanco, Department of Entomology, Virginia Tech
Dini M. Miller, Ph.D., Department of Entomology, Virginia Tech

Introducción

Infestaciones de chinches son una pesadilla para los administradores de apartamentos. Comunidades de apartamentos han visto como los costos de su compañía de control de plagas se han incrementado desde \$30,000 hasta \$100,000 en un solo año. Muchos administradores de apartamentos han venido despidiendo cuanta compañía de control de plagas contratan por ser incapaces de eliminar el problema de los chinches. Algunos otros complejos de apartamentos han tenido que cerrar o vender todo porque no podían pagar los tratamientos de los apartamentos los

This can allow an infestation to get started in their home and remain unnoticed until the bed bug population increases so much that

Bed Bug Forums

- Series Premier (5)
 - PMPs
 - Apartment Management Professionals
 - Hoteliers
 - Shelters
- Second Season (3)
 - Focused Forums
 - Shelters / Community Centers
 - Healthcare Facilities



Canine Scent Detection



Portable Heat Treatment Units



*Virginia Department
of Agriculture and
Consumer Services*

Evaluation

- ~340 Attendees.... ~49% PMPS...

Virginia
Department of



Agriculture and Consumer Services
Office of Pesticide Services

BED BUG FORUM EVALUATION – Roanoke July 13, 2010

VDACS-OPS is continually trying to improve our educational offerings. To help us better serve you, please complete this survey and return it to us at your convenience. Providing contact information is optional. Your comments will assist us in improving the educational experience that we offer. Please turn this in at the registration desk before you leave the Bed Bug Forum. Call Jeffrey Rogers at 804/371-6561 with questions. Thank you!

Company COOPER ENVIRONMENTAL SERVICES SYSTEMS	Name JULIA A. COOPER								
Email JACOOPER@SHENTEL.NET	Phone								
	Bed Bug Basics	Challenges of Apartment & Multi-Family Housing Mgr.	Challenges of Hotel & Lodging Manager	Role of DEH: Bedding & Mattress Inspections	Bed Bug Prevention & Detection	Bed Bug Inspection K9	Regulatory Overview	Bed Bug Control in Multi-Unit Facilities	Panel Discussion
Did the speaker cover all the material for this topic?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Did the speaker answer questions in a professional manner?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do you feel that you have learned practical information from this presentation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Based on the information presented for this topic, was the presentation:	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult EXCELLENT!	<input type="checkbox"/> Too basic <input checked="" type="checkbox"/> On target <input type="checkbox"/> Too difficult
For the last two questions, please write a numerical rating, based on a scale of 1 to 10: Poor 1-3 Average 4-6 Good 7-8 Excellent 9-10									
Please rate the usefulness of this topic.	10	10	10	10	10	9/10	10	10	10
Please rate the speaker's delivery of the material.	10	10	10	10	10	10	10	10	10

Is there anything missing from the information provided?

Any additional comments? *** I THINK IT WOULD BE DIFFICULT FOR ANY ONE SPEAKER / SESSION TO COVER ALL ASPECTS OF THIS TOPIC! *** ED CONNOR DIDNT ANSWER MY K9 QUESTION - MAYBE HE MISUNDERSTOOD IT. NONTHELESS, EXCELLENT PRESENTATIONS.

Would you like a member of our staff to contact you about this evaluation? Yes No

YOU MAY IF YOU WISH
THIS IS THE MOST INFORMATIVE, OUTSTANDING, FORUM/SEMINAR I HAVE ATTENDED IN A VERY LONG TIME REGARDLESS OF SUBJECT MATTER,

Availability

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Bed Bug Program

The **Office of Pesticide Services** provides support to VDACS and the [Virginia Pesticide Control Board](#). By certifying applicators, registering pesticide products, and issuing pesticide business licenses, we permit the safe and effective control of pests that attack our crops, structures and health and that of our domestic animals.

Our [Certification, Licensing, Registration and Training staff](#) can assist you with applying for, and renewing, your commercial or private applicator's certificate or pesticide business license, or registering a pesticide product in Virginia. We also can advise you of the requirements for certification training courses and inform you of the date and location of approved courses. In addition, for those who use pesticides in the production of agricultural plants on farms, in forests, nurseries and greenhouses, we can assist you in meeting the requirements of the Worker Protection Standard and reducing the risk of pesticide-related injury to you, your family or the people you employ.

If you have a pesticide-related complaint, our Enforcement and Compliance staff can assist you. A team of eleven investigators is available to conduct in-depth investigations to determine whether a pesticide has been misused.

For additional information related to these and other services provided by the Office of Pesticide Services, please select from the topics listed below. You may also contact our office by clicking [here](#). Programs and contact numbers are listed for your use.

Bed Bug Outreach and Education Program

Bed Bugs are quickly becoming the public health pest of the 21st Century. Unlike common pests, for example, cockroaches and rodents, the long absence of Bed Bugs as a pest has resulted in many individuals seeking information regarding the pest, and in particular, control of the pest. The Virginia Department of Agriculture and Consumer Services' (VDACS) Office of Pesticide Services (OPS), thru a grant from the Environmental Protection Agency, has undertaken an outreach and education project to provide information regarding Bed Bugs. Click the link above for additional information regarding Bed Bugs.

www.vdacs.virginia.gov/pesticides

Liza J. Fleeson, Program Manager

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Virginia Department
of Agriculture and
Consumer Services