

Curriculum Vitae

Cynthia L. Tucker

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Graduate Advisors

- Dr. Phil Koehler.
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Current Research Topics:

- Test and evaluate the susceptibility of building materials (commonly used in construction) to termite damage.
- Test and evaluate the thermal integrity of building materials (commonly used in construction) to termite damage.
- To determine the Optimal / minimal crack width for termite entry into structures.

State and Local Responsibilities (Department of Entomology)

- Habitat for Humanities volunteer 956 hours
- Woman Build Chapter and Charter Member
- School and Daycare IPM Advisory Board -**Chair** (2001 to 2003).
 - Coordinate activities associated with State, Regional, and National implementation of IPM in Schools and Daycares, including developing training programs and educational materials.
 - Website: <http://schoolipm.ifas.ufl.edu/>.

Departmental Responsibilities

- Graduate student representative at faculty meetings (2001 to 2005).
- Assistant organizer of the Southeast Pest Management Conference.
 - Canine symposium. May 2003.
 - Catering. May 1999-2005.

Education

- ****(Dual Enrollment in Building Construction MS and Entomology PhD)****
- University of Florida, Gainesville, Florida. PhD. Urban Entomology. Anticipated Graduation: August 2007. Current grade point average: 3.3.

- University of Florida, Gainesville, Florida. MS. College of Building Construction. Anticipated Graduation: August 2007. Current grade point average: 3.6.
- University of Florida, Gainesville, Florida. MS. Urban Entomology. Graduation: August 2002. Current grade point average: 3.6.
- University of Florida, Gainesville, Florida. B.S. Urban Entomology. Graduation: May 1999. Grade point average: 3.2.
- Santa Fe Community College, Gainesville, Florida. A.S. Florida State Emergency Medical Technician and Para-medic. Graduation: May 1997.
- Ocala Fire College, Ocala, Florida. 280 hours Fire Fighting State Certification. Graduation: May 1990.
- Ocala Fire College, Ocala, Florida. Hazardous Material Training 300 hours. Certificate program. Graduation: May 1990.

Employment

- Graduate Research Assistant, Entomology and Nematology Department, University of Florida. Thesis research and study of urban pests; emphasis on population dynamics and tunneling behavior of termites. Extensive contact with pest control industry and Cooperative Extension Service agents. December 1999 to present.
- Mary Kay Cosmetics- Beauty Consultant. Responsibilities include sales and coordination of clients and personal consulting events. May 2005 to present.
- Euthanasia Technician. Humane Animal Removal, Miami, Florida. Responsibilities included: removal and disposal of dead animals; humane euthanasia of sick or dangerous animals. June 1994 to present.
- Undergraduate Graduate Research, Entomology and Nematology Department, University of Florida. Research and study of urban pests, emphasis on tunneling behavior of termites. Extensive contact with pest control industry and Cooperative Extension Service agents. August 1997 to December 1999.
- Manager /Baker. Bageland, Gainesville, Florida. Responsibilities included: training of personnel; filling orders; coordinating and distribution of goods. Base operations from main store (four stores - 73 employees) December 1986 to January 1998.
- Pharmacy Technician. Shands Teaching Hospital, Gainesville Florida. Responsibilities included: patient history and data entry of all medications and allergies; filling and dispersing medications. May 1996 to June 1997.
- Paramedic/ Fire Fighter (EMT), City of Gainesville Fire Department. Responsibilities included: patient care; evaluation and treatment; emergency response to hazardous material spills and fire fighting. April 1994 to August 1994.
- Patient Care Technician (EMT), North Florida Regional Medical Center HAC, Gainesville Florida. Emergency Room and Critical Care Duties. Triage patients, record initial vital statistics, phlebotomy tasks and assessment of care. Assist Doctors and Nurses with patient treatment. May 1990 to April 1994.
- Ambulance Driver (EMT). Alachua County Fire Rescue. Responsibilities included: responding safely to and from emergencies; patient care and treatment; maintain certifications with Continuing Education Units. June 1990 to April 1994.

Professional Presentations (Annual and National Entomology Meetings)

- Florida Entomological Society. Termite damage to building materials cause change in thermal properties of building materials. July 2005. Ft Meyers (Sanibel) Florida. 10 minutes.
- Southeast Pest Management Conference. Infestation of Common Building Construction Materials and its Effect in the Thermal Integrity of Structural and Non-Structural Materials. May 2005. Gainesville, Florida. 25 minutes.
- Southeast Pest Management Conference. Infestation of Common Building Construction Materials and its Effect in the Thermal Integrity of Building Materials. May 2004. Gainesville, Florida. 25 minutes.
- Southeast Pest Management Conference. Infestation of Common Building Construction Materials. May 2003. Gainesville, Florida. 15 minutes.
- Entomological Society of America. Influence of Termite Tunneling at Various Levels of Soil Compaction. November 2002. Fort Lauderdale, Florida. 10 minutes.
- Florida Entomological Society. Termite tunneling at Various Levels of soil compaction. July 2002. Clearwater, Florida. 10 minutes.
- FPMA Termite Symposium. Influence of Termite tunneling at various levels of Soil Compaction. December 2002. Orlando, Florida. 20 minutes.
- Florida Entomological Society. Termite tunneling at Various Levels of soil compaction. July 2002. Clearwater Florida. 10 minutes.
- Southeast Pest Management Conference. Tunneling at Various Levels of soil compaction. May 5, 2002 Gainesville, Florida. 30 minutes.
- ESA- National Meeting. Tunneling of Various Densities of Eastern Subterranean Termites. December 8, 2001. 10 minutes.
- ESA-SEB. Tunneling at Various Worker Termite Densities. Augusta, Georgia. March 6, 2001. 10 minutes.
- Southeast Pest Management Conference. Tunneling at Various Worker Termite Densities. May 2001. Gainesville, Florida. 30 minutes.

Technology Transfer / Extension Experience

- FPMA extension presentation. Flies, cockroaches and stored product pests- Identification. November 2004. St. Petersburg, Tampa. 60 minutes.
- Southeast Pest Management Conference. Infestation of Common Building Construction Materials. Gainesville, Florida. 15 minutes.
- Extension CEU's, GHP training. Termite Damage and Control. Greencove Springs, Florida. February 2003. 60 minutes.
- Entomological Society of America. Influence of Termite Tunneling at Various Levels of Soil Compaction. November 2002. Fort Lauderdale, Florida. 10 minutes.
- Florida Entomological Society. Termite tunneling at Various Levels of soil compaction. July 2002. Clearwater, Florida. 10 minutes.
- FPMA Termite Symposium. Influence of Termite tunneling at various levels of Soil Compaction. December 2002. Orlando, Florida. 20 minutes.
- Pinellas County Termite Training. Influence of Population Survival and Soil Compaction on Termite Tunneling and Wood Moisture Content. December 5, 2002. Tampa, Florida. 60 minutes.

- NAVAC Training. Influence of Population Survival and Soil Compaction on Termite Tunneling and Wood Moisture Content. December 6, 2002. Jacksonville, Florida. 60 minutes.
- Gainesville Extension Workshop. Master Gardner Termite Training. November 6, 2002. Gainesville. Florida.
- School IPM -- RIFA and Mole Cricket Technician Training. Newport Richey, Florida. September 25, 2002. 30 minutes.
- School IPM -- RIFA and Mole Cricket Technician Training. Lake Butler, Florida. September 23, 2002. 30 minutes.
- CPCO Pest Control Technician Training. Pesticide Container disposal. Tampa, Florida. August 28-29, 2002. 20 minutes.
- Florida Entomological Society. Termite tunneling at Various Levels of soil compaction. July 2002. Clearwater Florida. 10 minutes..
- Extension CEU's, GHP training. Vertebrate pests-damage and control. Greencove Springs, Florida. April 25, 2002. 30 minutes.
- CPCO Pest Control Technician Training. Pesticides and How They Work. Fort Lauderdale, Florida. November 29, 2001. 60 minutes.
- CPCO Pest Control Technician Training. Pesticides and How They Work. Tampa, Florida. November 30, 2001. 60 minutes.
- COPESAN tour. Fungi Associated with Eastern Subterranean Termites. Gainesville, Florida. January 31, 2001. 10 minutes.
- School IPM for Nurses. What is School IPM, Identification of biting stinging insects, Treating children's signs and symptoms. Tampa, Florida. July 26, 2001. 3 hours.
- BUG-out technician training. Insect-Pesticide Mode of Action. Jacksonville, Florida. September 28, 2001. 60 minutes.
- CPCO technician training. Peri-domestic Cockroaches Behavior and Biology. Ocala, Florida September 29, 2001. 60 minutes.
- CPCO technician training. Termite Control - Behavior and Biology. Ocala, Florida September 29, 2001. 60 minutes.
- Master Gardener Training. Structural Pest Identification. Brevard, Florida. January 11, 2001. 60 minutes.
- Master Gardener Training. Structural Pest Identification. Pinellas, Florida. October 19, 2000. 60 minutes.
- Pest Control Technician Training. Building Construction/ Termites and Stucco. Valdosta, Georgia. October 12, 2000. 60 minutes.
- Master Gardener Training. Identification and Biology of Eastern Subterranean Termites. Pasco, Florida. August 15, 2000. 60 minutes.
- Pest Control Technician Training. Fungi Associated with Eastern Subterranean Termites. Gainesville Florida. May 9, 2000. 30 minutes.
- Pest Control Technician Training. Identification, Biology, and Control of Eastern Subterranean Termites. Sarasota, Florida. March 28, 2000. 60 minutes.
- Home Owner Training. Identification, Biology, and Control of Eastern Subterranean Termites. Manatee, Florida. March 8, 2000. 4 hours (4- 1-hour).
- Master Gardener Training. Identification and Biology of Eastern Subterranean Termites. Brevard, Florida. February 16, 2000. 60 minutes.

- Home Owner Training. Identification, biology, and control of Eastern subterranean termites. Jacksonville, Florida. February 8, 2000. 60 minutes.
- Pest Control Technician Training. Identification, biology, and control of eastern subterranean termites. Jacksonville, Florida. February 8, 2000. 60 minutes.
- Insect Physiology Presentation. Microbes associated with eastern subterranean termites. Gainesville, Florida. December 3, 1999. 15 minutes.
- Master Gardener Training. Identification, biology, and control of eastern subterranean termites. Pensacola, Florida. March 16, 1999. 60 minutes.

Structured Teaching Experience

- Lab Instructor. Course ENY 3005c. Principals of Entomology. Instructed students on identification of Orders and Families in Class Insecta. Summer 2000.

Refereed Publications

- Tucker C.L., P.G. Koehler, and F.M. Oi, 2004. Influence of Soil Compaction on Tunnel Network Construction by the Eastern Subterranean Termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 97(1): 89-94.
- Tucker C.L., P.G. Koehler, and F.M. Oi, 2005. Influence of Population Density on the Tunnel Network Construction by the Eastern Subterranean Termite. *Sociobiology* 45(3): 731-744.
- Richman D.L., C.L. Tucker and P.G. Koehler. 2005. Influence of elevated portland cement on soil pH and residual soil termiticide performance. (in publication pesticide science)

Non-Refereed Publications

- Tucker C.L., L.J. Buss and P.G. Koehler. 2005. Stored Food Beetle Termites. University of Florida Institute of Food and Agricultural Sciences (IFAS SP-405).
- Tucker C.L., P.G. Koehler, W.H. Kern, and F.M. Oi, 2003. Simplified key to Florida Termites. University of Florida Institute of Food and Agricultural Sciences (IFAS).
- Oi, F.M., C.L. Tucker, P.G. Koehler. 2000. Houses that Termites Love to Eat. University of Florida Institute of Food and Agricultural Sciences (IFAS).
- Koehler, P.G., C.L. Tucker. 2000. Subterranean Termites. University of Florida Institute of Food and Agricultural Sciences (IFAS). <http://edis.ifas.ufl.edu/IG097>

Out-Reach Programs

- College of Agriculture and Life Sciences (CALs) Barbeque. April 2003. Representative of the Entomology -Information booth for high school students. 4 hours. Provided entomology information and pamphlets and the opportunity to touch roaches and tarantulas. Gainesville, Florida.
- Georgia Fire Ant Festival. March 2003. Extension and Information Booth. 10 hours. Provided Entomology information to the general public and distributed University of Florida extension pamphlets. Ashburn, Georgia.
- Florida State Fair. February 9, 2001. Extension and Information Booth. 8 hours. Provided Entomology information to the general public and distributed University of Florida extension pamphlets. Tampa, Florida.

- Kanapaha Spring Arts Festival. March 2000. Extension and Information Booth. 10 hours. Provided Entomology information to the general public and distributed University of Florida extension pamphlets. Gainesville, Florida.
- Organizer and moderator for the Symposium on Urban Entomology presented to 25 visiting COPELAN members at the University of Florida's Entomology and Nematology department. Also acted as tour guide and as a representative of the Urban Entomological Society. January 31, 2001.
 - Presentation of "Microbes Associated with Eastern Subterranean termites". Eight minutes.
- Florida State Fair. February 13, 2000. Extension and Information Booth. 8 hours. Provided Entomology information to the general public and distributed University of Florida extension pamphlets. Tampa, Florida.
- Kanapaha Spring Arts Festival. March 26 & 27, 2000. Extension and Information Booth. 16 hours. Provided Entomology information to the general public and distributed University of Florida extension pamphlets. Gainesville, Florida.

Grants

- Tucker, C. 2001. In-depth IPM Materials and Training for School Pest Managers in Florida. Granting Agency CIPM. PI: Philip G. Koehler. \$20,000. Status: pending submitted June 15, 2001.

Scholarships and Awards

- Florida Entomological Society Scholarship. \$500.00 Award in recognition of outstanding scholarly research, public speaking, and community service efforts. FES meeting Sanibel, Florida. July 2005.
- NAWIC -National Women in Construction. \$500.00 leadership award for donating more than 500 hours to Habitat for Humanity, April 2005.
- ESA Stan Beck Scholarship, Presented at the Annual ESA meeting in San Diego California \$4,000.00. December 2001.
- CPCO Scholarship "Award for going the extra mile" \$1,000.00. August 2001.
- Pi Chi Omega Student Scholarship, presented by Pi Chi Omega, \$2,000.00. September 2001.
- "UES award for Leadership and Excellence", Southeast Pest Management Conference, Gainesville. Given by The Urban Entomological Society. May 1998.

Professional Membership

- ICC- International Code Council
- NAWIC- National Association of Women International Chapter
- Florida School Integrated Pest Management (IPM) Advisory Board, Chair 2001-current.
- Entomology and Nematology Student Organization 1998--current.
 - Treasurer 2001-2005.
- Urban Entomological Society
 - Treasurer 2001-current.
 - Publications and Sales Coordinator. 1998-current.

- Polo- shirt committee.
- Entomological Society of America. 1998-current.
- Florida Entomological Society. 1998-current.
- Certified Pest Control Organization Association. 1998-current.
- Friends of San Falasco State Park. 1997-current.
 - Board of Directors. 2001-current.
- Pi Chi Omega Professional Fraternity for the Pest Control Industry. 2001- current.

Active Memberships

- Habitat for Humanities.
- San Falasco State Park Volunteer.
- Kanapaha Botanical Gardens Volunteer.