Curriculum Vitae
MAYA E. NEHME

Address: 501 Ag Sciences and Industries Bldg., University Park, PA 16802; or
218 Waring Avenue, State College, PA 16801 (814-777-2686)
Email: men151@psu.edu; Fax: 814-865-3048

EDUCATION:

Dual-Title Ph.D. in Entomology and Comparative & International Education *Jan 06 – May 09*
The Pennsylvania State University *University Park, PA*
PhD advisor in Entomology: Kelli Hoover. PhD Co-advisor in CIED: Edwin Rajotte and David Baker.
PhD thesis title: "Monitoring Asian Longhorned beetles' infestation".
Other projects during PhD program: Management of invasive species, Testing microwave irradiation as an alternative treatment procedure for wood packaging material involved in international trade, Adult education on the risks of invasive species and cooperative management programs.

MS Plant Protection *Feb 03 – Jan 05*
The American University of Beirut *Beirut, Lebanon*
MS advisor: Nasri S. Kawar
MS thesis title: "Identification of semiochemicals found in Lebanese cedar trees and their interaction with the insect pest, *Ernobius* sp." Work done in the Natural Cedar Reserve of Tannourine – Hadath el- Jebbeh in Lebanon, funded by FAO TCP069/Leb and UNDP/GEF

Diploma of Agricultural Engineering *Oct 97- Dec 02*
Lebanese University- Faculty of Agriculture *Sin-El-Fil, Lebanon*
BS advisor: Linda Kfoury
BS thesis title: "Suivi biologique et écologie chimique des deux ravageurs principaux de la Cédraie de Tannourine-Hadath el-Jebbeh: *Cephalcia tannourinensis* and *Ernobius* sp." funded by FAO TCP 069/Leb and involved management of the occurring outbreak of the sawfly, *Cephalcia* sp.

WORK EXPERIENCE:

Graduate Research Assistant *Jan 06- present*
The Pennsylvania State University *University Park, PA*
Duties: Conduct research in Chemical Ecology and Entomology. Supervisor: Kelli Hoover

Graduate Instructor *Spring 07- 08*
The Pennsylvania State University *University Park, PA*
Duties: Teach Undergraduate course ENT 314: "Management of Insect Pests of Ornamentals". Redesigned course material, developed and taught lectures and lab sessions and grading.

Undergraduate Project Mentor *July 06*
The Pennsylvania Governor's School *State College, PA*
Project title: "Behavioral response to the male produced pheromone of the Asian Longhorned Beetles".
Students: Michael Garvey and Daniel Griffith

Research Assistant *Feb 05- Feb 06*
The American University of Beirut, Biochemistry Dept *Beirut, Lebanon*
Duties: Assisting on research projects on genetic engineering. Responsible for the Molecular Core Laboratory. PCR; gel electrophoresis; purification; cloning; transformation; western blotting; gel shift; cell culture; sequencing.

Graduate Teaching Assistant *Feb 03- Jan 05*
The American University of Beirut- FAFS *Beirut, Lebanon*
Duties: Teaching practicals in Entomology, Weed Science, Agronomy. Sample collection. Filing, and administrative duties. Assisting in IPM course preparation.

Head of Household Pest Control Department *Oct 01- Jan 03*
FREELANCER Services & Insurance s.a.l. *Hadath, Lebanon*
Duties: Establishment of the PC department in the company (technical, administrative and legal issues), preparation of contracts, Filing, Advertising and Financing, Problem identification, Pesticide choice, supervision of work.

Agricultural Consultant (Paid Summer Internship) *Sep 00*
UNIFERT s.a.r.l. *Sin-EL-Fil, Lebanon*
Duties: Daily visits to the farmers, extension programs, consultancy, identification and control of plant diseases, elaboration of pesticides and fertilizers programs for crops.

Plant propagation (Paid Summer Internship) *Sep 00*
PERA AZZAM Nursery *Horsh Tabet, Lebanon*
Duties: Propagating ornamental plants by grafting or seeding, landscaping. (primitive training on irrigation and disease management)

INTERNATIONAL EXPERIENCE

Exchange graduate student *May 07*
Wageningen University, *The Netherlands*
Techniques learned: Electro-Antennography detection.
Project: testing the antennal stimulation of European population of the Colorado Potato beetle, *Leptinotarsa decemlineata*, to pheromones extracted by J. Dickens from U.S. populations.
Supervisors: Joop van Loon, Hans Smid

Exchange graduate student *June 07*
INAPG (now AgroParisTech) and INRA (Institut National de Recherche Agronomique), *France*
Techniques learned: Four-Arm olfactometer, Compensation of movement of insects to measure for attraction/repellency, Testing insect learning ability through gustatory tests.
Project: 1) Testing the attraction of Rhino beetles to a newly extracted pheromone; 2) Testing the gustatory learning ability of Spodoptera caterpillars.
Supervisors: Frederic Marion-Poll

Summer Research Work *July 07, 08*
In collaboration with Beijing Forestry University, *China*
Project: Trapping Asian Longhorned beetles in poplar stands. Field work for my PhD research project conducted in the Autonomous region of Ningxia, China in collaboration with faculty and student from Beijing Forestry University.

ORAL PRESENTATIONS AT PROFESSIONAL MEETINGS

Maya Nehme, Kelli Hoover, Thomas C. Baker, Aijun Zhang, and Melody A. Keena. Laboratory bioassays on the male-produced pheromone of *Anoplophora glabripennis.* 2006 ESA Annual Meeting. Indianapolis, IN. Dec. 11, 2006.

Wilma Aponte, Maya Nehme, Katie Ellis. Outreach and Extension: Graduate Students Making the Right Choices. Joint presentation in the Student debate in Student Symposium. 2006 ESA Annual Meeting. Indianapolis, Indiana. Dec. 11, 2006.

Nabil M. Nemer, Maya Nehme, Nasri S. Kawar, Brigitte Frerot, and Alain Roques. *Ernobius libanensis n.* sp. (Coleoptera: Anobiidae) colonizes the buds of Lebanese cedars (*Cedrus libani*) in Lebanon. 2006 ESA Annual Meeting. Indianapolis, Indiana. Dec. 10, 2006.

Maya Nehme, Kelli Hoover, John Janowiak, Jeff Kimmel. Efficacy of Microwave Irradiation for the eradication of Pine Engraver Beetles in Red Pine Logs. Eastern Branch ESA 77th Annual Meeting. Harrisburg, PA. March 18-20, 2007.

Maya Nehme, Kelli Hoover, Thomas C. Baker, Aijun Zhang, and Melody A. Keena. Pheromones of the Asian Longhorned Beetle. Special Seminar. INRA- Versailles- France. June 29, 2007.

Kelli Hoover, John Janwiak and Maya Nehme. Status of microwave as an alternative phytosanitary treatment. International Forest Quarantine Research Group Fifth Meeting- FAO Headquarters, Rome, Italy. Sep 10-14, 2007.

Maya Nehme, Melody Keena, Aijun Zhang, Kelli Hoover. Field Bioassays on ALB male-produced pheromone. 2007 ESA Annual Meeting. San Diego, CA. Dec 8-12, 2007.

Maya Nehme and Kelli Hoover. How to win the fight against ALB? IDEP symposium talk, Eastern Branch ESA 78th Annual Meeting, Syracuse, NY. March 9-11, 2008.

Maya Nehme, Melody Keena, Aijun Zhang, Kelli Hoover. Monitoring and Early Detection of the Asian Longhorned beetles. IUFRO: Alien Invasive Species and International Trade meeting, Shepherdstown, WV. May 26-30, 08

Kelli Hoover, Maya Nehme, John Janowiak. Microwave Treatment of Insect-Infested Wood. IUFRO: Alien Invasive Species and International Trade meeting, Shepherdstown, WV. May 26-30, 08

Maya Nehme, Melody Keena, Aijun Zhang, Kelli Hoover. Asian Longhorned beetle pheromones: a two-way messenger. Invited speaker symposium talk scheduled for the 2008 ESA Annual Meeting, Reno, NV. Nov 16-19, 2008.

POSTER PRESENTATIONS

Maya Nehme, Nabil Nemer, Brigitte Frerot, Nasri S. Kawar. Identification of Semiochemicals found in Lebanese Cedar Trees and their Interaction with the insect pest, *Ernobius* sp. Poster presented in the College of Agricultural Sciences/ Gamma Sigma Delta Graduate and Undergraduate Research Expo. March 22-23, 2006.

Maya Nehme, Kelli Hoover, Thomas Baker, Melody Keena, Aijun Zhang. Behavioral Responses to Asian Longhorned Beetle Pheromones. Poster presented in the USDA Interagency Annual Meeting in Annapolis, MD. Jan. 9-12, 2007.

Maya Nehme, Kelli Hoover, Thomas Baker, Melody Keena, Aijun Zhang. Behavioral Responses to Female-Produced ALB Pheromones. Poster presented in the Gamma Sigma Delta Poster exhibition and the PennState

University Graduate Exhibition, University Park, PA. March 22- 25, 2007 and in the PSU-Cornell Chemical Ecology Symposium, PennStater, May 3-4, 2007.

Maya Nehme, Melody Keena, Aijun Zhang, Kelli Hoover. ALB male-produced pheromone. Poster presented at the 19th USDA Interagency Research Forum on Invasive Species in Annapolis, MD. Jan. 8-11, 2008

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

- Entomological Society of America since Jan 2006
- Eastern Branch – Entomological Society of America since Jan 2006
- The Association for International Agriculture and Rural Development since March 2008
- International Society for Chemical Ecology since March 2007
- Comparative and International Education Society since March 2006
- Alumni of the American University of Beirut, since Jan 2005

SYNERGISTIC ACTIVITIES

President and founder of the Lebanese Student Association- The Pennsylvania State University, *Feb 2008- present.*

Volunteer at the International Programs Office - College of Ag Sciences - The Pennsylvania State University - Projects involve improving diversity in the university, and collaborating with international scientists on Ag-related projects. Scheduled Borlaug fellows programs at Penn State, *Spring 2006-present*

Active member of the Entomology Graduate Student Association- The Pennsylvania State University, *Spring 2006-Present*

Secretary of the Graduate Student Association and student representative in the Research and Graduate Studies Diversity Council-The Pennsylvania State University, *Spring 2006-Spring 2007*

Secretary of the Charitable Trust and Socio-Educational League (CTSEL)-Community-based association in Hadath-Lebanon, *Apr 2002- Dec 2005*.

Active member – Environmental Club- The American University of Beirut – Lebanon, *Sep 2003-2005*

Member of the environmental committee, Municipality of Hadath, Beirut- Lebanon, *June-Sep 2000*.

Secretary of the Agricultural Student Association – Faculty of Agriculture- Lebanese University, *Dec 1999- Dec 2000.*

Collaborating member, ENTRAIDE Liban des Jeunes en Action- Lebanon, Oct-Dec 1999

Assistant, United Nations & Lebanese Red Cross joint Summer camp for children in war-affected villages of the Chouf. *Aug 1999*

Member of the steering committee of "Cooperative Al-MANARA", in collaboration with the French organization "Region Languedoc- Roussillon" on sustainable development of rural communities in Metn- Lebanon (Extension programs- introduction of new agricultural techniques and new fruit tree varieties), *Mar-Sep 1999*.

Active member and secretary of the Youth of The Lady of Annunciation Church- Hadath – Lebanon, *1996-2000.*

Secretary and active member, Club Social des Jeunes, SSCC – Hadath- Lebanon, (Currently member of the Alumni of the club) *Dec 1995- 1997*

OUTREACH IN ENTOMOLOGY

Jan 21, 2006 : Insect display– 21st Century Youth & Family Day-Central Mountain Middle School, PA.
Mar 29, 2006 : Insect display to school children in ABC Children Center, State College, PA
Mar 31, 2006 : Insect display for 5th grade students in Ferguson Elementary School
Apr 22, 2006 :Volunteering in the Bioday at Penn State University, University park, PA
May 15, 2006 : Judging presentations for PJAS (Pennsylvania Junior Academy of Sciences
May 20, 2006 : Insect display at Port Matilda Elementary School, Port Matilda, PA
July 4, 2006 : Insect display at PennState 4th of July fest- Near Bryce Jordan Center.
July 28, 2006 : Insect display and games in the Family Day at Duman Park in Ebensburg, PA
Sep. 23, 2006 : The Great Insect Fair- Entomology Department- PennState University
Nov. 6, 2006 : Outreach in Port Matilda elementary school, PA.
April 2, 2008 : Insect display for ABC Children Center, PA.
April 26, 2008: Insect display in Lock Haven University Earth Day Fair, PA.

AWARDS AND GRANTS

- Yendoll Award. (Travel award). December 2006, March 2007, December 2007.
- College of Ag. Sciences Travel award. Penn State University. December 2006.
- Student Leader Scholarship. PennState University. January 2007.
- Ardeth & Norman Frisbey International Student Award. April 2007.
- Lloyd E. Adams Memorial Grant-in-aid Award. June 2007
- CAS Tagalong fund. Penn State University. September 2007
- AIARD Future Leader Forum Scholarship. June 2008.

- Horticultural Research Institute Grant. November 2006.
- USDA-APHIS grant. June 2008

Collaborators:
David Baker, Ed. Policy Studies and CI-ED, Penn State Un.; Edwin Rajotte, Entomoloy, Penn State Un .; Thomas Baker, Entomoloy, Penn State Un .; Melody Keena, USDA Forest Service, CT; Aijun Zhang, USDA-ARS, MD; Zhichun Xu, College of Natural Resources and Environment, Beijing Forestry University, China; Joop van Loon, Wageningen University, The Netherlands; Hans Smid, Wageningen University, The Netherlands; Nabil Nemer, American University of Beirut, Lebanon; Georges Nemer, American University of Beirut, Lebanon

LANGUAGES: Fluent in English, Arabic and French (written, read and spoken). Fair knowledge of Mandarin Chinese (spoken)

COMPUTER SKILLS: Microsoft Word- Excel- PowerPoint- Photoshop- Corel Draw- Access- Internet and database use- fair knowledge in AutoCAD

REFERENCES:

Available Upon Request.