

Al Fournier, Ph.D.

IPM Program Manager, Associate Specialist, Entomology
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EDUCATION

Purdue University, West Lafayette, IN. **Ph.D. in Entomology**, May 2005. Dissertation: *Factors Affecting Adoption and Implementation of Integrated Pest Management (IPM) in Indiana K-12 Schools*.

University of Maryland, College Park, MD. **M.S. in Entomology** (Integrated Pest Management track), May 1997. Thesis: *Distribution of Predatory Arthropods and Sod Webworm Egg Predation in Turf*.

George Washington University, Washington, DC. **B.S. in Biology**, May 1992.

EMPLOYMENT HISTORY

7/11 – present **Associate Specialist & Adjunct Scientist, Entomology**, University of Arizona.
11/07 – 6/11 **Assistant Specialist & Adjunct Scientist, Entomology**, University of Arizona.
5/05 – present **IPM Program Manager**, Maricopa Agricultural Center, University of Arizona.
6/00 – 4/05 **IPM in Schools Program Coordinator/Graduate Research Assistant**, Dept. of Entomology, Purdue University.

HONORS AND AWARDS

- 2012. U.S. Environmental Protection Agency, Pesticide Environmental Stewardship Program Gold Tier Shining Star Award, awarded to the Arizona Pest Management Center.
- 2010. Certificate of Appreciation for Service on the Western IPM Center Advisory Committee, Western IPM Center.
- 2009. Award of Excellence – Honorable Mention in recognition of the University of Arizona IPM Extension Program, Western Extension Directors' Association.
- 2008. Young Professional Participation Award, Entomological Society of America.
- 2008. Certificate of Recognition for Outstanding Work and Dedication to the Crop Protection Industry, Arizona Crop Protection Association.
- 2007. Award for Outstanding Contributions to the National Integrated Pest Management in Schools Effort, Environmental Protection Agency.
- 2003. Award for Outstanding State and National Achievements in Integrated Pest Management in Schools, Environmental Protection Agency, Region 5.
- 2003. Meritorious Certificate for Qualitative Research related to the Veteran's History Project, Library of Congress and U.S. Senator Lugar.

SELECTED COMPETITIVE GRANTS

- **IPM Impacts Assessment Methodology Workgroup**. 2014-2015. \$30,000. McRoberts, N., A. Fournier, M. Halbleib, J. Haley, K. Hansen, J. Hurley, T. Lybbert, M. Lubbell, W. Miller, P. D. Mitchell, D. Sande, D. Young. USDA-NIFA, Western IPM Center.
- **Improved Cotton Whitefly Management Using Biological Control-Based Thresholds**. 2014-2015. \$30,000. Vandervoet, T., A. Fournier, S. Naranjo. USDA-NIFA, Western IPM Center.

- **Handbook of Pests in Community Environments in the Southwestern United States.** 2014-2015. \$30,000. S. Nair, D. Gouge, S. Li, A. Fournier, K. Umeda, D. Kopec, P. Baker, U. Schuch, L. Brown, M. Rust, A. O'Callaghan, M. L. Robinson, N. Duggal. USDA-NIFA, Western IPM Center.
- **The Arizona Pest Management Center: Developing, Disseminating & Delivering High-Impact IPM Programs.** 2013-2014. \$250,000. Ellsworth, P.C. & A. Fournier. USDA-NIFA Extension Integrated Pest Management Coordination and Support Program.
- **Building sustainable IPM inside and out: Developing and implementing standardized training materials and IPM proficiency exams for certification.** 2013-2015. \$250,000. Gouge, D.H., T. Green, A. Fournier, et al. U.S. Environmental Protection Agency.
- **Reducing Pesticide Risks in Arizona Lettuce.** 2013-2015. \$144,846. Fournier, A., P.C. Ellsworth, W. Dixon, J. Palumbo & J. Peterson. USDA-AMS, Arizona Department of Agriculture, Specialty Crops Block Grant.
- **Integrating Biological Control Into Management Decisions: Advancing The IPM Continuum Through Research And Implementation.** 2012-2014. \$87,636. Ellsworth, P., S. Naranjo, A. Fournier, L. Brown, T. Vandervoet. Regional IPM Competitive Grants Program – Western Region.
- **Stabilizing cross-commodity whitefly management and completing transition to novel reduced risk chemistries.** 2009-2011. \$197,197. Li, X., J.C. Palumbo, P.C. Ellsworth, S. Naranjo & A. Fournier. USDA Pest Management Alternatives Program.
- **Arizona Pesticide Use Reporting Database: An Information Resource to Enhance Competitiveness of the Specialty Crops Industry.** 2009-2010. \$61,277. Fournier, A. & P.C. Ellsworth. Arizona Department of Agriculture Specialty Crops Block Grant.
- **Crop Pest Losses and Impact Assessment Working Group.** 2012. \$12,000. Fournier, A., P.C. Ellsworth J.C. Palumbo, W. McCloskey & M. Olsen. USDA, Western IPM Center Working Groups.
- **Western Region School IPM Implementation and Assessment Work Group.** 2006-2009. \$30,000. Gouge, D.H., A. Fournier, J. Snyder, C. Foss, T. Stock & W. Lanier. USDA, Western IPM Center Working Groups.
- **Pest Management Strategic Plan for School IPM.** 2006-2007. \$11,996. Gouge, D.H., A. Fournier & T. Green. USDA Western IPM Center Pest Management Strategic Plans.
- **Developing and implementing field and landscape level reduced-risk management strategies for Lygus in Western cropping systems.** 2006-2010. \$2,500,000. P. Ellsworth, P. Goodell, M. Parajulee, Bundy, S. Naranjo, J. Bancroft, Y. Carriere, J. Palumbo, A. Fournier, L. Godfrey, J. Hagler & J. Rosenheim. USDA, Risk Avoidance and Mitigation Program (RAMP).
- **Spatially Explicit Approaches for Measuring and Implementing Higher Level, Multi-Crop, Multi-Pest IPM.** 2005-2008. \$60,000. Ellsworth, P.C., A. Fournier, Y. Carriere & J. Palumbo. USDA, Western Region IPM Competitive Grants Program.

SELECTED PUBLICATIONS (last 5 years)

Coli, B., A. Fournier, P. Goodell, M. Halbleib, J. Haley, K. Hansen, J. Hurley, T. Lybbert, M. Lubbell, N. McRoberts, W. Miller, P. D. Mitchell, D. Sande, S. Tungate, D. Young, C. Thomas. A Toolkit for Assessing IPM Outcomes and Impacts. Western IPM Center and University of California, Davis. Launched November 2013. <http://ucanr.edu/sites/McRoberts> (IPM Evaluation Training Modules)

Brown L.M., P.C. Ellsworth, G. Hughes, S. Bundy, P. Porter, V. Barlow, S.E. Naranjo, D. Kerns, A.M. Mostafa, A.J. Fournier. 2013. Natural Enemies of the Southwest: A field guide to the arthropod natural enemies of southwestern field crops. Book. University of Arizona Cooperative Extension. Publication no. AZ160771.

Brown, L., A. Mostafa, P.C. Ellsworth, **A. Fournier**. 2013. Insect Pests of Desert-Grown Alfalfa: Alfalfa Aphid Complex. Field Crop IPM Shorts, Cooperative Extension, University of Arizona, Tucson. <http://ag.arizona.edu/crops/cotton/files/AlfalfaAphidDiagnostics.pdf>

Li, S., Gouge, D., **Fournier, A.**, Nair, S., Baker, P. & Olson, C. October. 2013. Mosquitoes. University of Arizona Cooperative Extension. <http://ag.arizona.edu/pubs/insects/az1221.pdf>

Li, S., Gouge, D.H., **Fournier, A.**, Schuch, U., Baker, P., Umeda, K., & Kopec, D. 2013. School IPM Newsletter - July 2013. Newsletter. University of Arizona, Arizona Pest Management Center. <http://cals.arizona.edu/apmc/westernschoolIPM.html> (Example: 9 published)

Li, S., Gouge, D.H., & **Fournier, A.** 2013. School Integrated Pest Management (in Chinese). University of Arizona Cooperative Extension. Publication no. AZ1579C
<http://cals.arizona.edu/pubs/insects/az1579C.pdf>

Carrière, Y., C. Ellers-Kirk, K. Hartfield, G. Larocque, B. Degain, P. Dutilleul, T. J. Dennehy, S. E. March, D. W. Crowder, X. Li, P. C. Ellsworth, S. E. Naranjo, J. C. Palumbo, **A. Fournier**, L. Antilla & B. E. Tabashnik. 2012. Large-scale, spatially explicit test of the refuge strategy for delaying insecticide resistance. Proc. Nat. Acad. Sci. (USA) 109: 775-780.

Li, X., C. B. A. Degain, V. S. Harpold, P. G. Marçon, R. L. Nichols, **A. Fournier**, S. E. Naranjo, J. C. Palumbo, & P. C. Ellsworth. 2012. Baseline susceptibilities of B- and Q-biotype *Bemisia tabaci* to anthranilic diamides in Arizona. Pest Manage. Sci. 68: 83-91.

Fournier, A., Ellsworth, P.C., W. Dixon, J. Palumbo and J. Peterson 2012. 22 years of agricultural pesticide use data reveal dramatic reduction in broad-spectrum insecticides. 7th International IPM Symposium, Memphis, TN, March 27-29, 2012. (Poster)
<http://ag.arizona.edu/crops/presentations/2012/12MemphisAPMCdataPoster.pdf>

Ellsworth, P.C., L.M. Brown, **A. Fournier**, and W. Dixon. 2012. Measuring Up! Involving Stakeholders in Assessment of an Industry's IPM Revolution. 7th International IPM Symposium, Memphis, TN, March 27-29, 2012. (Poster)
<http://ag.arizona.edu/crops/presentations/2012/EllsworthMemphisPoster.pdf>

Ellsworth, P.C., **A. Fournier**, W. Dixon, J.C. Palumbo, K. Umeda and J. Peterson. 2012. Enhancing Capacity for IPM Practice and Assessment in Arizona. An extended abstract for NIFA IPM Programs: Legacy and Impacts Mini-Symposium, 7th International IPM Symposium, Memphis, TN, March 27-29, 2012. pp. 19-21.
http://www.ncipmc.org/resources/ncipm_grants_publications/NIFA_IPM_Programs.pdf

Gouge, D. H., C. Olson, **A. Fournier** and P. Baker. Working the Bugs Out, Bed Bug Control: What Landlords and Tenants in Multi-Family Housing Need to Know in Arizona. May 2012. University of Arizona Cooperative Extension AZ1563, pp6.
<http://cals.arizona.edu/pubs/insects/az1563.pdf>

Ellsworth, P. C., L. Brown, **A. Fournier**, X. C. Li, J. Palumbo & S. Naranjo. 2011. Keeping cotton green! Field Crop IPM Shorts, Cooperative Extension, University of Arizona, Tucson.
<http://ag.arizona.edu/crops/cotton/files/SelectiveChemicalControlsvF.pdf>

Ellsworth, P. C., L. Brown, **A. Fournier** & S. Naranjo. 2011. \$1+ Cotton? New thresholds? Field Crop IPM Shorts, Cooperative Extension, University of Arizona, Tucson.
<http://ag.arizona.edu/crops/cotton/files/NewThresholdsVF.pdf>

Fournier, A., T. J. Gibb, T.J. & C.Y. Oseto. 2010. Go to the Head of the Class: A Research-based Approach to Understanding Adoption and Implementation of IPM in Schools. Purdue IPM Technical Resource Center, Purdue University. West Lafayette, IN. 375 pp. (Book)

Fournier, A., J. Peterson & J. Reding, eds. 2010. Arizona Pest Control Advisor Study Manual: Preparatory Materials for the Arizona Pest Control Advisors License. Arizona Crop Protection Association. (Training Manual)