

CURRICULUM VITAE Dawn H. Gouge Ph.D. B.Sc.

Current Employer and Position

Professor and Specialist

Public Health Pest Entomologist and Integrated Pest Management Specialist

University of Arizona, Department of Entomology.

Physical Location MAC Experiment Station, 37860 West Smith-Enke Road, Maricopa, AZ 85138. (520) 374-6223; Fax (520) 374-6394; Lab 104 (520) 374-6222 dhgouge@arizona.edu; <http://cals.arizona.edu/ento/faculty/gouge.htm>.

I am an entomologist and Integrated Pest Management (IPM) advocate working on public health related pests, and IPM in the built environment. I manage a fully integrated research, teaching, and Extension program focused on pest ecology and reduced-hazard management of blood-feeding arthropods. IPM implementation programs address a wide spectrum of pests in homes, schools, and medical facilities. I support state and government agencies regarding emerging public health issues, operational vector management, and pesticide related pollution prevention. I provide technical support for industry members including pest management, environmental health, and public health professionals.

I serve as a Board member of the IPM Institute of North America. Co-direct the IPM for Sensitive Sites in the Built Environment - Western Region Work Group, and am an active member of the Arizona Arboviral Workgroup, and Western Region Bed Bug Working Group. I serve on the National School IPM Steering Committee, and on the Advisory Board of the IPM Institute Green Shield Certification program for Pest Management Professionals.

I provide formal instruction on public health pest ecology and IPM, serve on graduate student committees, and host graduate and undergraduate student interns. Currently, I manage 2.5 professional Extension Staff engaged in public health and community IPM projects.

Chronology of Education

University of Bangor (Wales), United Kingdom

B.Sc. (Honors) Applied Biology, September 1986-Graduated June 1990

Major Fields: Crop Protection and Applied Zoology

Undergraduate Project Title: Physiology of asexual sporulation in *Phytophthora palmivora*

Advisors: Dr. Richard Shattock and Dr. Malcolm Cherrett

University of Reading, Department of Agriculture, United Kingdom

Ph.D. Entomology and Nematology, October 1990-Graduated July 1994

Major Fields: Applied Nematology and Entomology

Thesis Title: Biological Control of Sciarid Flies (Diptera: Sciaridae) with Entomopathogenic

Nematodes (Nematoda: Rhabditida), Including Reference to Other Diptera

Advisor: Dr. Nigel G. M. Hague

Chronology of Employment

- June 1989-August 1989, Research Assistant, Plant Physiology. Imperial Chemical Industries (ICI). Jealott's Hill Research Station, United Kingdom.
- November 1990-December 1993, Teachers Assistant, Nematology. Reading University, United Kingdom.
- October 1992-October 1993, Part-time Research Technician, Plant Pathology. Reading University, United Kingdom.
- March 1995-September 1998, Postdoctoral Researcher (GS11), Cotton Entomology. United States Department of Agriculture – Agricultural Research Service, Western Cotton Research Laboratory, Arizona.
- October 1998-March 2000, Assistant Professor and Extension Entomologist, Texas Agricultural Extension Service, Texas A & M University System.
- March 2000-June 2007, Assistant Specialist and Assistant Professor, Urban Entomologist, Department of Entomology, University of Arizona. 10% Teaching, 30% Research, 60% Extension.

- July 2007-August 2010, Associate Specialist and Associate Professor, Urban Entomologist, Department of Entomology, University of Arizona. 10% Teaching, 30% Research, 60% Extension.
- September 2010-June 2016, Associate Specialist and Associate Professor, Urban Entomologist, Department of Entomology, University of Arizona. 30% Research, 70% Extension.
- July 2016- July 2018, Specialist and Professor, Public Health Entomologist, Department of Entomology, University of Arizona. 30% Research, 70% Extension.
- August 2018-**present**, Specialist and Professor, Public Health Entomologist, Department of Entomology, University of Arizona. 20% Research, 70% Extension, 10% Service.

Honors and Awards

- 2001 Awarded to Gouge, D. H. U. S. Environmental Protection Agency, Region IX Award.
- 2002 Awarded to Gouge, D. H. National Foundation for IPM Education Award.
- 2005 Awarded to all members participating in the national implementation program, U. S. Environmental Protection Agency, Children's Environmental Health Recognition Awards.
- 2005 Awarded to the Children's Environmental Health Coalition. Valley Forward, Environmental Excellence Award of Merit.
- 2006 Awarded to Gouge, D. H. U. S. Environmental Protection Agency, Region IX 2006 Environmental Achievement Award.
- 2009 Awarded to Green Shield Certified committee members. 6th International IPM Symposium. International IPM Excellence Award.
- 2009 Awarded to Gouge, D. H. Childcare and School IPM Recognition Awardees. This award was presented by the regional school IPM working groups, and the IPM Institute of North America.
- 2009 Awarded to Arizona IPM Program Team (Arizona Pest Management Center). Award of Excellence - Honorable Mention by The Western Extension Directors' Association.

- 2012 Awarded to University of Arizona –Arizona Pest Management Center, Arizona. U. S. Environmental Protection Agency Pesticide Environmental Stewardship Program Gold Tier Shining Star Award.
- 2015 Awarded to StopPests in Housing Program committee members. 8th International IPM Symposium. International IPM Excellence Award.
- 2018 Awarded to Gouge, D. H. 9th International IPM Symposium. Practitioner - International IPM Award of Excellence <https://ipmsymposium.org/2018/awards.html>.

Service

Local/State

- 2000-**present**, medicocriminal support of law enforcement agents upon request.
- 2015-2016, serve on Department of Agriculture, Pest Management Division, licensing exam-writing committee for the Industrial and Institutional license category.
- 2015-**present**, Arizona Arboviral Workgroup member.
- 2018-**present**, Arizona Women in Pest Management team member.

National/International

- Host visiting scientists: (e.g., Senior Scientist, Nuclear Institute for Food and Agriculture, Peshawar Pakistan), industry professionals (e.g., Intelligent Pest Management Inc.) and interns from other universities (e.g., Indiana University).
- Journal Reviewer for: Annals of Applied Nematology, BioControl, Biocontrol Science and Technology, Environmental Entomology, Florida Entomologist, Insect Sociaux, Insects, International Journal of Parasitology, Journal Helminthology, Journal of Economic Entomology, Journal of Nematology, Journal of the Kansas Entomological Society, Neurotoxicology, Parasitology, Phytoparasitica, Thai Journal of Agricultural Science, Human–Wildlife Interactions, Pest Management Science.
- Editorial Board member: 2011-**present**, Entomological Society of America Journal of Integrated Pest Management https://academic.oup.com/jipm/pages/editorial_board.

- Peer reviewer for federal scientists: USDA, Agricultural Research Service.
- Ad hoc peer reviewer for grant programs: Current Research Information System (CRIS), International Science and Technology Center proposals, U. S. Civilian Research & Development Foundation, NIH Small Business Innovation Research (SBIR), Regional IPM Center Technical Committee, 2008, Regional IPM Center Relevancy Committee, University of California Division of Agriculture and Natural Resources (ANR) Competitive Grants Program.

Working Groups and Information Networks

- 2004-2016, Western Plant Diagnostic Network Member.
- 2006-**present**, IPM for Sensitive Sites in the Built Environment - Western Region Work Group <http://ag.arizona.edu/apmc/westernschoolIPM.html>.
- 2012-**present**, Subject Matter Expert for Urban IPM Community of Practice for eXtension.
- 2015-**present**, Western Region Bed Bug. Working Group Member <http://westernbedbugipm.ucanr.edu/>.
- 2016-**present**, WERA1017: Coordination of Integrated Pest Management Research and Extension/Educational Programs for the Western States and Pacific Basin Territories. Work Group Member <http://www.nimss.org/projects/view/mrp/outline/13896>.
- 2016-**present**, WERA1017 - Western Pesticide Risk Reduction Project. Workgroup member. Goal: To provide participants with the knowledge and skills needed to integrate pesticide hazard and risk communication within IPM extension education programming <https://agsci.oregonstate.edu/integrated-plant-protection-center/western-pesticide-risk-reduction-project>.
- 2019-**present**, Tick IPM Working Group Member <https://tickipmwg.wordpress.com/>.

National/Regional

- 2006-2009, Awards Committee Member, 6th International IPM Symposium 2009.
- 2006-2015, Western Region IPM Center Advisory Committee.
- 2008-**present**, The National School IPM steering committee is composed of Integrated Pest

Management professionals, scientists, researchers and experts from land grant university IPM programs, government, private industry, and the nonprofit world, and meets monthly via conference call. <https://ipminstitute.org/projects/school-ipm-2020/steering-committee/>.

- 2009-2012, Steering Committee Member and Program Committee Co-chair, 7th International IPM Symposium 2012.
- 2010-2014, Orkin Gold Medal IPM Partner Awards Committee Member, includes U. S. and Canadian Food and Median Facility Auditing and Certification.
- 2012-2017 U. S. Environmental Protection Agency, Pesticide Program Dialog Committee, Community Integrated Pest Management Subcommittee, and Core Federal Advisory Committee Act (FACA) Member.
- 2012-2015, Steering Committee Member, Silent Auction Committee Member, and Program Committee Co-chair, 8th International IPM Symposium 2015.
- 2015-2016, Entomological Society of America (ESA), Associate Certified Entomologist (ACE) Certification Program Committee Member.
- 2015-2018, Steering Committee Member, Poster Committee Co-chair, 9th International IPM Symposium 2018 <https://ipmsymposium.org/2018/>.
- 2017-2019, U. S. Environmental Protection Agency, Pesticide Program Dialog Committee, Public Health Subcommittee Member <https://www.epa.gov/pesticide-advisory-committees-and-regulatory-partners/pesticide-program-dialogue-committee-public>.
- 2018-**present**, Steering Committee Member, Student & Early Career Scientist Co-chair, 10th International IPM Symposium 2021 <https://ipmsymposium.org/2021/>.

Departmental

- 2000-**present** (as necessary), Department of Entomology, Annual Performance Report Review Committee Member.
- 2004-**present**, Arizona Pest Management Center, IPM Coordinating Committee Member <https://cals.arizona.edu/apmc/coordinating.html>.
- 2014-**present**, Community IPM Leadership Team Chair.
- 2015-2018, Pesticide Safety Education Leadership Team Member.
- 2016-2019, Department of Entomology Diversity and Inclusion Chair.

- 2016-**present**, MAC Faculty Council.
- 2017-**present**, Public Health Leadership Team Chair.
- 2018-**present**, IPM Evaluation Committee Member.
- 2018-2019, Pesticide Safety Education Program hiring committee.
- 2019-**present**, Insect Diagnostics Team Co-chair.
- 2020-**present**, Head of Department 5-year Administrative Review Committee Member.
- 2020-**present**, School of Animal and Comparative Biomedical Sciences, Promotion & Continuing Review Committee.

University and College

- 2010-2019, University of Arizona, Division of Agriculture, Life and Veterinary Sciences and Cooperative Extension Diversity and Inclusiveness Council Member.
- 2016-2017, University of Arizona, Diversity Task Force Committee Member.

Other

- 2007-**present**, Green Shield Advisory Committee, IPM Institute of North America Green Shield Certification Program.
- 2010-**present**, Board member IPM Institute of North America, Inc.
<https://ipminstitute.org/board-of-directors/>.
- 2018-2019, National Pest Management Association, QualityPro Public Health Task Force.

Association Memberships

- 1997-**present**, Entomological Society of America (ESA) <http://www.entsoc.org/>.
- 2000-**present**, National Pest Management Association (NPMA)
<https://npmapestworld.org/index.cfm>.
- 2004-2012, International Urban IPM Association.

Publications/Creative Activity

Scholarly Books and Monographs

Nair S., D. H. Gouge, M. Rust, S. Li, U.K. Schuch, A. J. Fournier, D. M. Kopec, K. Umeda, P. B. Baker, L. M. Brown, N. Duggal. 2015. Handbook on pests of community environments in the desert southwest United States. University of Arizona College of Agriculture and Life Sciences Cooperative Extension, Arizona Pest Management Center. pp. 278.

<http://cals.arizona.edu/apmc/Handbook.html>.

Chapters in Scholarly Books and Monographs (peer reviewed)

- Young, S. Y., D. C. Steinkraus, and D. H. Gouge. 2000. Microbial Insecticide Application: Cotton. *In* L.A. Lacey and H. K. Kaya, eds., *Field Manual of Techniques in Invertebrate Pathology*. Kluwer Academic Publishers. pp. 467-495.
- Shapiro, D., D. H. Gouge, and A. Koppenhöfer. 2002. Factors Affecting Commercial Success: Case Studies in Cotton, Turf and Citrus. *In* R. Gaugler, ed. *Entomopathogenic Nematology*. CABI Publishing. pp. 333-355.
- Gouge, D. H. 2005. Applications for Social Insects. *In* P. S. Grewal, R-U. Ehlers, and D. I. Shapiro-Ilan, eds. *Nematodes as Biocontrol Agents*. CABI Publishing. pp. 317-329.
- Steinkraus, D. C., S. Y. Young, D. H. Gouge and J. E. Leland. 2007. Microbial Insecticide Application: Cotton. *In* L.A. Lacey and H. K. Kaya, eds., *Field Manual of Techniques in Invertebrate Pathology*. Kluwer Academic Publishers. pp. 427-455.

*Refereed Journal Articles *publications as a graduate student*

- *Gouge, D. H. and N. G. M. Hague. 1992. Biological control of sciarids in ornamentals using the entomopathogenic nematode *Steinernema feltiae*. *Bulletin International Organization for Biological and Integrated Control of Noxious Animals and Plants / Section Régionale Ouest Paléarctique*. 16: 86-91.

- *Gouge, D. H. and N. G. M. Hague. 1993. Effects of *Steinernema feltiae* against sciarids infesting conifers in a propagation house. *Annals of Applied Biology (Tests of Agrochemicals and Cultivars)*. 122: 184-185.
- *Gouge, D. H. and N. G. M. Hague. 1994. Development of *Steinernema feltiae* (Steinernematidae: Nematoda) in *Bradysia paupera* (Sciaridae: Diptera). *Bulletin International Organization for Biological and Integrated Control of Noxious Animals and Plants / West Palaearctic Regional Section*. 17: 132-135.
- *Gouge, D. H. and N. G. M. Hague. 1994. The development of *Steinernema feltiae* (Nematoda: Steinernematidae) in the sciarid fly *Bradysia paupera* (Diptera: Sciaridae). *Annals of Applied Biology*. 126: 395-401.
- *Gouge, D. H., A. A. Otto, A. Schirocki, and N. G. M. Hague. 1994. Effect of steinernematids on the root-knot nematode *Meloidogyne javanica*. *Annals of Applied Biology (Tests of Agrochemicals and Cultivars)*. 124: 134-135.
- *Gouge, D. H. and N. G. M. Hague. 1995. Glasshouse control of fungus gnats, *Bradysia paupera*, on fuchsias by *Steinernema feltiae*. *Fundamental and Applied Nematology*, 18: 77-80.
- *Gouge, D. H. and N. G. M. Hague. 1995. The susceptibility of different species of sciarid flies to entomopathogenic nematodes. *Journal of Helminthology*. 69: 313-318.
- *Peters, A., D. H. Gouge, R-U. Ehlers, and N. G. M. Hague. 1997. Avoidance of encapsulation by *Heterorhabditis* spp. infecting larvae of *Tipula oleracea*. *Journal of Invertebrate Pathology*. 70(2): 161-164.
- Gouge, D. H., L. L. Lee, A. Bartlett, and T. J. Henneberry. 1998. *Pectinophora gossypiella*, (Lepidoptera: Gelechiidae): Susceptibility of F₁ larvae from irradiated parents to entomopathogenic nematodes (Rhabditida: Steinernematidae, Heterorhabditidae). *Journal of Economic Entomology*. 91(4): 869-874.
- Gouge, D. H., K. A. Smith, L. L. Lee, and T. J. Henneberry. 1998. Control of pink bollworm *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae) with entomopathogenic nematodes (Rhabditida: Steinernematidae) and gossypure in cotton. *Recent Research Developments in Entomology*. 2: 55-85.

- Gouge, D. H., L. L. Lee, and T. J. Henneberry. 1999. Effect of temperature and lepidopteran host species on entomopathogenic nematode (Nematoda: Steinernematidae, Heterorhabditidae) infection. *Journal of Environmental Entomology*. 28: 876-883.
- Gouge, D. H., L. L. Lee, and T. J. Henneberry. 1999. Parasitism of *Pectinophora gossypiella* (Lepidoptera: Gelechiidae) larvae by entomopathogenic nematodes (Rhabditida: Steinernematidae, Heterorhabditidae). *Crop Protection*. 18: 531-537.
- Gouge, D. H., K. A. Smith, L. L. Lee, and T. J. Henneberry. 2000. Effect of soil depth and moisture on the vertical distribution of *Steinernema riobrave* (Nematoda: Steinernematidae). *Journal of Nematology*. 32: 223-228.
- Gouge, D. H., and D. Shapiro-Ilan. 2003. Case studies in cotton and citrus: Use of entomopathogenic nematodes. *Indian Journal of Nematology*. 33: 91-102.
- Gouge, D. H., and J. L. Snyder. 2005. Parasitism of bark scorpions *Centruroides exilicauda* (Scorpiones: Buthidae) by entomopathogenic nematodes (Rhabditida: Steinernematidae; Heterorhabditidae). *Journal of Economic Entomology*. 98: 1486-1493.
- Shapiro-Ilan, D., Gouge, D. H., Piggott, S. J., and Patterson Fife, J. 2006. Application technology and environmental considerations for use of entomopathogenic nematodes in biological control. *Biological Control*. Volume 38 (1): 124-133.
- Gouge, D. H., and J. L. Snyder. 2006. Temporal association of entomopathogenic nematodes (Rhabditida: Steinernematidae and Heterorhabditidae) and bacteria. *Journal of Invertebrate Pathology*. 91: 147-157.
- Shapiro-Ilan, D. I., D. H. Gouge, S. J. Piggott, and J. Patterson Fife. 2006. Application technology and environmental considerations for the use of entomopathogenic nematodes in biological control. *Biological Control*. 38: 124-133.
- Yu, H., D. H. Gouge, and P. Baker. 2006. Parasitism of subterranean termites (Isoptera: Rhinotermitidae; Termitidae) by entomopathogenic nematodes (Rhabditida: Steinernematidae; Heterorhabditidae). *Journal of Economic Entomology*. 99: 1112-1119.
- Gouge, D. H., M. L. Lame, and J. L. Snyder. 2006. Use of an implementation model and diffusion process for establishing Integrated Pest Management in Arizona Schools. *American Entomology* 52 (3): 190-196.

- Gouge, D. H. and M. L. Lame. 2006. Integrated Pest Management – A Healthy Alternative for Arizona’s Schoolchildren. *Journal of Environmental Management*. December 2005/January. Vol 3 (6): 8-19.
- Green, T. A., Gouge, D. H., Braband, L. A., Foss, C. R., and Graham L. C. 2007. IPM STAR Certification for School Systems: Rewarding Pest Management Excellence in Schools and Childcare Facilities. *American Entomology* 53 (3): 168-174.
- Yu, H., D. H. Gouge, S. P. Stock and P. Baker. 2008. Development of Entomopathogenic Nematodes (Rhabditida: Steinernematidae; Heterorhabditidae) in the Desert Subterranean Termite *Heterotermes aureus* (Isoptera: Rhinotermitidae). *Journal of Nematology* 40 (4): 311-317.
- Yu, H., D. H. Gouge, and D. I. Shapiro-Ilan. 2010. A Novel Strain of *Steinernema riobrave* (Rhabditida: Steinernematidae) Possesses Superior Virulence to Subterranean Termites (Isoptera: Rhinotermitidae). *Journal of Nematology* 42 (2): 91-95.
- Bibbs, C. S., S. E. Bengston, and D. H. Gouge. 2014. Exploration of Refuge Preference in the Arizona Bark Scorpion (Scorpiones: Buthidae). *Environmental Entomology* 43 (5): 1345-1353.
- Bibbs, C. S., S. E. Bengston, and D. H. Gouge. 2014. Activity Trends and Movement Distances in the Arizona Bark Scorpion (Scorpiones: Buthidae). *Environmental Entomology* 43 (6): 1613-1620.
- Hurley, J. A., T. A. Green, D. H. Gouge, Z. T. Bruns, T. Stock, L. Braband, K. Murray, C. Westinghouse, S. T. Ratcliffe, D. Pehlman and L. Crane. 2014. Regulating pesticide use in United States schools. *American Entomologist* 60: 105-114.
- Gouge, D. H. and M. L. Lame. 2015. Environmental Health Professionals Work the Bugs Out - School Integrated Pest Management. *Journal of Environmental Health*. *Journal of Environmental Health* 77 (10): 42–44.
- Zhang, L., H. Li, S. Li, A. Zhang, F. Kou, H. Xun, P. Wang, Y. Wang, F. Song, J. Cui, D. H. Gouge, and W. Cai. 2015. Phylogeographic structure of cotton pest *Adelphocoris suturalis* (Hemiptera: Miridae): strong subdivision in China inferred from mtDNA and rDNA ITS markers. *Scientific Reports*. 5, 14009; doi: 10.1038/srep14009
<http://www.nature.com/articles/srep14009>.

- Misbah-ul-Haq, M., I. A. Khan, A. Farid, M. Ullah, D. H. Gouge, and P. B. Baker. 2016. Efficacy of Indoxacarb and Chlorfenapyr against Subterranean Termite *Heterotermes indicola* (Isoptera: Rhinotermitidae) in the Laboratory. *Turkish Journal of Entomology* 40 (3): 227-241.
- Gouge, D. H. 2016. Working in a World of Bed Bugs. *Journal of Environmental Management Arizona*. Jun/Jul.: 5-6.
- Gouge, D. H., S. Li, S. Nair, N. Pier, C. Sumner. 2016. Mosquitoes and the Great Outdoors. *Journal of Environmental Management Arizona*. Aug/Sept.: 5-6.
- Cui, J., S. Li, D. W. Spurgeon, W. Jia, Y. Lu, D. H. Gouge. 2016. Flight Capacity of *Sitophilus zeamais* Motschulsky in Relation to Gender and Temperature. *Southwestern Entomologist* 41 (3): 667-674.
- Romero A., A. M. Sutherland, D. H. Gouge, H. Spafford, S. Nair, V. Lewis, D-H. Choe, S. Li, D. Young. 2017. Pest Management Strategies for Bed Bugs in Multi-Unit Housing: A Literature Review on Field Studies. *Journal of IPM*: 8(1): 13; 1-10 doi: 10.1093/jipm/pmx009.
- Vetter, R. S., M. L. Draney, C. A. Brown, J. T. Trumble, D. H. Gouge, N. C. Hinkle, E. F. Pace-Schott. 2018. Spider Fear Versus Scorpion Fear in Undergraduate Students at Five American Universities. *American Entomologist*: 64(2): 79-82.
- Tarter, K. D., Levy, C. E., Yaglom, H. D., Adams, L. E., Plante, L., Casal, M. G., Gouge, D. H., Rathman, R., Stokka, D., Weiss, J., Venkat, H., Walker, K. R. 2019. Using Citizen Science to Enhance Surveillance of the Mosquito Vector *Aedes aegypti* in Arizona, 2015-17. *Journal of the American Mosquito Control Association*: 35(1): 11-18.
- Gouge, D. H., Li, S., Nair, S. Pest Management Strategies for Bed Bugs and German cockroaches in Multi-unit, Low-income Elderly and Disabled Housing: A Case Study. *Journal of Integrated Pest Management*. In process.
- Gouge, D. H., Li, S., Nair, S., LaMorte, R. L., Fournier, A., Spurgeon, D. Health and Wellbeing Impacts of Living with Bed Bugs. *Journal of Integrated Pest Management*. In process.

Pest Management Strategic Plans (subject to USDA National Institute of Food and Agriculture review)

- Green, T. A., and D. H. Gouge, eds. 2008. School IPM 2015: A Strategic Plan for Integrated Pest Management in Schools in the United States. pp. 284.
- Green, T. A., and D. H. Gouge, eds. 2015. School IPM 2020: A Strategic Plan for Integrated Pest Management in Schools in the United States. pp. 302.

http://www.ipminstitute.org/school_ipm_2020/SCHOOL_IPM_2020_V3_070615.pdf

Other Publications

Curricula

1. Byrne, D. N., Ellsworth, P. C, and Gouge, D. H. Entomology 468/568 Insect Pest Management, Spring Semester 2009.
2. Ellsworth, P., Baker, P., and Gouge, D. H. Entomology 468/568 Insect Pest Management, Spring Semester 2010. <http://cals.arizona.edu/classes/ento468/>.

Research Reports

- D. H. Gouge, Smith, K. A., Payne, C., Lee, L. L., Van Berkum, J. R. and Henneberry, T. J. 1997. Suppression of Plant Parasitic Nematodes in Cotton Using the Entomopathogenic Nematode *Steinernema riobravis* (Cabanillas, Poinar, and Raulston) (Rhabditida: Steinernematidae). Cotton: A College of Agriculture Report.
- D. H. Gouge, Smith, K. A., Payne, C., Lee, L. L., Van Berkum, J. R., Ortega, D., and Henneberry, T. J. 1997. Control of pink bollworm, *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae) with biocontrol and biorational agents. Cotton: A College of Agriculture Report.
- D. H. Gouge, Smith, K. A., Lee, L. L., and Henneberry, T. J. 1998. Control of pink bollworm *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae) with entomopathogenic nematodes (Rhabditida: Steinernematidae) and gossypure in cotton. Recent research developments in entomology. Pages 55-85.

- Simmons, A. L., Dennehy, T. J., Tabashnik, B. E., Antilla, L., Bartlett, A., Gouge, D., and Staten, R. 1998. Cotton: A College of Agriculture Report.
- D. H. Gouge and Smith, K. A. 2004. School IPM. Turfgrass, Landscape and Urban IPM Research Summary.
- D. H. Gouge and Stock, T. 2008. Western IPM Center October 2008 Newsletter. “The Future of Urban IPM”.

*Conference Proceedings *as a graduate student*

- *Gouge, D. H. and N. G. M. Hague. 1994. Control of sciarids in glass and propagation houses, with *Steinernema feltiae*. Proceedings of the Brighton Crop Protection Conference - Pests and Diseases, 1994. pp. 1073-1078.
- *Gouge, D. H., A. A. Otto, and T. Kakouli, and N. G. M. Hague. 1994. Low temperature infection of *Galleria mellonella* by *Steinernema feltiae* and *S. carpocapsae* between 6.4°C and 19.2°C. Proceedings of the COST 819 Symposium and Working Group Meeting, Luxembourg EUR EN, 1994. p. 225.
- Gouge, D. H., L. L. Reaves, M. M. Stoltman, J. R. Van Berkum, R. A. Burke, L. J. Forlow-Jech, and T. J. Henneberry. 1996. Control of pink bollworm *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae) larvae in Arizona and Texas cotton fields using the entomopathogenic nematode *Steinernema riobravis* (Cabanillas, Poinar and Raulston) (Rhabditida: Steinernematidae). Proceedings of the Beltwide Cotton Production and Research Conference, 1996. pp. 1078-1082.
- Gouge, D. H., K. A. Smith, C. Payne, L. L. Lee, J. R. Van Berkum, D. Ortega, and T. J. Henneberry. 1997. Control of pink bollworm *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae) with biocontrol and biorational agents. Proceedings of the Beltwide Cotton Production and Research Conference, 1997. pp. 1066-1072.
- Gouge, D. H., K. A. Smith, L. L. Lee, J. R. Van Berkum, and T. J. Henneberry. 1997. Suppression of plant parasitic nematodes in cotton using the entomopathogenic nematode *Steinernema riobravis* (Cabanillas, Poinar, and Raulston) (Rhabditida: Steinernematidae). Proceedings of the Beltwide Cotton Production and Research Conference, 1997. pp. 1324-1326.

- Gouge, D. H., J. R. Van Berkum, L. L. Lee, and T. J. Henneberry. 1997. Temporal association of entomopathogenic nematodes and bacteria. Proceedings of the Annual Meeting of the Society of Nematology. Journal of Nematology. 29 (4) pp. 579.
- Simmons, A. L., T. J. Dennehy, B. E. Tabashnik, A. Bartlett, D. H. Gouge, and R. Staten. 1998. Evaluation of B.t. cotton deployment strategies and efficacy against pink bollworm in Arizona. Proceedings of the Beltwide Cotton Production and Research Conference, 1998. pp. 1025-1030.
- Davies, K. G. and D. H. Gouge. 1998. Identification of the entomopathogenic nematode bacterial symbiont *Xenorhabdus* sp. Proceedings of the International Nematology Congress. European Society of Nematologists, Invergowrie, Dundee, Scotland 4-8 August 1998.
- Davies, K. G. and D. H. Gouge. 1999. Identification of the entomopathogenic nematode bacterial symbiont *Xenorhabdus* sp. International Symposium Biological Control Agents in Crop and Animal Protection, University of Swansea, Wales, 24-28 August.
- Patin, A. L., T. J. Dennehy, M. A. Sims, B. E. Tabashnik, Y. B. Liu, L. A. Antilla, D. H. Gouge, T. J. Henneberry, and R. Staten. 1999. Status of pink bollworm susceptibility to B.t. in Arizona. Proceedings of the Beltwide Cotton Production and Research Conference, 1999. pp. 991-996.
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- Li, S., Gouge, D. H., Nair, S., Walker, K., Fournier, A. J. Andrade-Sanchez. P. Lo que debe saber sobre los repelentes de mosquitos y garrapatas. Extensión Cooperativa de la Universidad de Arizona, corto de MIP, Septiembre de 2018. pp. 2. <https://cals.arizona.edu/apmc/docs/Repellents-IPMShort-Spanish.pdf>
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Extension Newsletters (peer reviewed)

2012 - **present** editor of monthly School & Home IPM Newsletters on seasonal topics. Topics are selected based on stakeholder requests and emerging knowledge needs. National distribution networks reach over 5000 readers <https://acis.cals.arizona.edu/community-ipm/home-and-school-ipm-newsletters>.

2020

- Gouge, D. H., S. Nair, S. Li. Unfortunate Facts about Flu (Influenza Viruses). January <https://acis.cals.arizona.edu/community-ipm/home-and-school-ipm-newsletters/ipm-newsletter-view/ipm-newsletters/2020/01/13/school-home-integrated-pest-management-ipm-newsletter-january-2020>.
- Nair, S., S. Li. Spring Cleaning for Pest Management. February

<https://acis.cals.arizona.edu/community-ipm/home-and-school-ipm-newsletters/ipm-newsletter-view/ipm-newsletters/2020/02/18/spring-cleaning-for-pest-management>.

- Gouge, D. H., S. Nair, S. Li. Bee Informed: Warming and Swarming. March
<https://acis.cals.arizona.edu/community-ipm/home-and-school-ipm-newsletters/ipm-newsletter-view/ipm-newsletters/2020/03/12/bee-informed-warming-and-swarming>.
- Gouge, D. H., S. Nair, S. Li. People Unite Against the Threat of COVID-19. April
<https://acis.cals.arizona.edu/community-ipm/home-and-school-ipm-newsletters/ipm-newsletter-view/ipm-newsletters/2020/03/30/people-unite-against-the-threat-of-covid-19>.
- Li, S, D. H. Gouge, J. Weber, S. A. Kells, J. A. Hurley, A. J. Fournier, S. Nair, K. Buhl. What you should know about N95 respirators and face masks. April
<https://acis.cals.arizona.edu/community-ipm/home-and-school-ipm-newsletters/ipm-newsletter-view/ipm-newsletters/2020/04/14/what-you-should-know-about-n95-respirators-and-face-masks>.

Patent

Gouge, D. H., R. A. Dudney, and K. A. Smith. Composition with a mixture of one or more bacterial species (e.g. *Xenorhabdus*, *Photorhabdus* or *Pseudomonas*) harvested from nematodes, useful as insecticides for controlling insect pests such as termites or fire ants. Xeno Insecticides Inc. Patent Number US2003082147-A1. 2001.

Distributed Extension Education (peer-reviewed)

Biology and Control of Vectors and Public Health Pests: Distributed Education Materials for Environmental Health Professionals <http://lms.southcentralpartnership.org/vcehp.php>.

- Gouge, D. H. 2016-**present**. VCEHP 109 Pest Management Considerations for Schools.
- Lame, M., White, L., Gouge, D. H. 2016-**present**. VCEHP 106 Toxicology of Pesticides for Environmental Health Professionals.

Both courses rated 4/5 in the CDC quality training online.

<https://www.train.org/cdctrain/search?query=schools&type=course&quality=cdc>

- Gouge, D. H. et al. 2016. The Pest Defense for Healthy Schools - Professional Development for School Professionals <http://pestdefenseforhealthyschools.com/>.

Media

- Television
Interviews on vector, venomous and public health pest issues for: Channel 3 Garden Guy Show, Good Morning Arizona, Channel 3 News, Channel 15 ABC News, KGUN 9 News, Channel 12, Fox 10 KSAZ TV.
- Radio
Interviews on vector, venomous and public health pest issues for: Austin Hill KFYI 550, Western Agri-Radio Network, Network, KJZZ – Arizona Science and Innovation Desk, Easy Organic Gardener Radio Show, National Public Radio, KTAR News.
- Documentaries
Animal Planet, Natural History New Zealand, Discovery Channel, North One TV.
- University or Academic Media
 - Mosquito and ant abatement research in schools. Story by Joanne Littlefield, University of Arizona, Report on Research, 2001.
 - IPM in Schools. Arizona Land and People, Vol. 48, No. 1, 2003.
 - The War on Bugs, UA News February 10, 2009 <http://uanews.org/story/war-bugs>.
 - UA Pest Control Experts to Create Nationwide Guidelines for Schools. UA News 2014 <http://uanews.org/story/ua-pest-control-experts-to-create-nationwide-guidelines-for-schools>.
 - Pigeons Present Public Health Concerns. UA News. Story by L. Everett-Haynes, L. UA News 2015 http://uanews.org/blog/pigeons-present-public-health-concerns?utm_source=uanow&utm_medium=email&utm_campaign=biweekly-uanow.
 - UA Cooperative Extension Experts Available to Talk About Ticks. UA News. Story by Faith Schwartz. UA News 2018 <https://uanews.arizona.edu/press-release/ua-cooperative-extension-experts-available-talk-about-ticks-0>.
 - Bed Bug Website and Work Group Share Knowledge, Western IPM Center Newsletter by Steve Elliott. March 2018. <http://westernipm.org/index.cfm/ipm-in-the-west/communities/bed-bug-website-and-work-group-share-knowledge-and-resources/>.

- NIFA Update newsletter on March 21, 2018 promoting the Bed Bug Website and Work Group <https://content.govdelivery.com/accounts/USDANIFA/bulletins/1e3c4fb>.
- Newspaper / Magazine
Frequent interviews with reporters from The Arizona Republic, Arizona Daily Star, Maricopa Communicator, Western Farm Press, Arizona Tribune, Men's Health, Tucson Weekly, Tucson Citizen, USA Today, AZ Central.com, Arizona Daily Star, Phoenix Home and Gardening, Arizona Sonora News, Havasu News, CNN, Maricopa.com, Las Vegas Review-Journal, Washington Post, 5WRAL.com, New Times.
- Invited Blog
Gouge D. H. 2014. School Smart IPM: The Sensible Way to Work the Bugs Out. One Voice: The National Parent Teacher Association Blog, April 27, 2014
<http://onevoice.pta.org/?p=4231>.

Exhibits

Live arthropod interaction exhibits are run in partnership with collaborators and stakeholder groups. Events are oriented towards increasing awareness of pest issues while decreasing fear and confusion associated with native species.

- October 28-29, 2011. Creepy Crawly Night at the Museum – STEM Event. Scottsdale, Arizona. 37 attendees.
- March 8, 2013. Wine Oh Dino, Beer N' Bones. Museum Outreach Event: Arizona Museum of Natural History, Mesa, Arizona. 47 attendees.
- September 15, 2013. With Nair, S., LaMorte, R., Bibbs, C., Bibbs, K., Li, S., Fournier, A. Live Arthropod Interaction Table Exposition Table at University of Arizona Insect Festival, Tucson, Arizona >4000 estimated attendees.
- April 14, 2014. Wine Oh Dino, Beer N' Bones. Interactions with Arthropods. Arizona Museum of Natural History, Mesa, Arizona. 78 attendees.
- April 25, 2014. With S. Nair and S. Li. Pests in Community Environments – Live Demonstration. Ak-Chin Earth Day Celebrations, Ak-Chin Recreation Center, Maricopa, AZ. >500 estimated attendees.

- October 4, 2014. With S. Nair. Pests in community environments – live demo. Central Arizona Cooperative Extension Centennial Celebration. Phoenix Zoo, Phoenix, Arizona. >500 estimated attendees.
- October 17-18, 2014. Scary and Scaly Museum Overnight Event. Arizona Museum of Natural History, Mesa, AZ. 23 youth and 19 adult attendees.
- February 14, 2015. I Love Science Day. With N. Pier, S. Nair, S. Li. Arizona Museum of Natural History, Mesa, AZ. 767 youth and adult attendees.
- April 24, 2015. Beer N’ Bones. Interactions with Arthropods. Arizona Museum of Natural History, Mesa, Arizona. 285 attendees.
- October 2, 2015. Night with the Stars. With R. LaMorte. Interactions with Arthropods. Arizona Museum of Natural History, Mesa, Arizona. 241 attendees.
- September 20, 2015. With Nair, S., LaMorte, R., Li, S., Nambiar, P. M., Pier, N., Gouge-Smith, A. R. C. Live Arthropod Interaction Table Exposition Table at University of Arizona Insect Festival, Tucson, Arizona >4000 estimated attendees.
- November 21, 2015. With Nair, S., LaMorte, R., Gouge-Smith, A. R. C., Li, S., Nambiar, P. M. Pests in community environments – outreach display featuring live insects and other arthropods and their management measures. MAC Family Farm Day, Maricopa Ag. Center, Maricopa, Arizona >2000 estimated attendees.
- February 13, 2016. I Love Science Day. Arizona Museum of Natural History, Mesa, AZ. 271 youth and adult attendees.
- February 27, 2016. With Nair, S., LaMorte, R., Gouge-Smith, A. R. C., Li, S., Pier, N. Pests in community environments – outreach display featuring live insects and other arthropods and their management measures. ALARC Farm Science Day, ARS-Arid Land Agriculture Research Center, Maricopa, Arizona >700 estimated attendees.
- April 22, 2016. Beer N’ Bones. With N. Pier. Interactions with Arthropods. Arizona Museum of Natural History, Mesa, Arizona. 812 attendees.
- November 19, 2016. With Nair, S, LaMorte, R., Gouge-Smith, A. R. C., Li, S., Pier, N. Desert arthropods - interactive display with live desert arthropods. MAC Family Farm Day, Maricopa Ag. Center, Maricopa, Arizona approximately 1530 estimated attendees.
- February 11, 2017. I Love Science Day. Arizona Museum of Natural History, Mesa, AZ. 415 youth and adult attendees.

- February 18, 2017. With Nair, S., LaMorte, R., Li, S., Gouge-Smith, A. R. C., Pier, N., Ellsworth, P. Pests in community environments – outreach display featuring live insects and other arthropods and their management measures. ALARC Farm Science Day, ARS-Arid Land Agriculture Research Center, Maricopa, Arizona 425 estimated attendance.
- April 28, 2017. Beer N’ Bones. With R. LaMorte. Interactions with Arthropods. Arizona Museum of Natural History, Mesa, AZ. 1100 attendees.
- February 24, 2018. Pests in community environments – outreach display featuring live insects and other arthropods and their management measures. Farm Science Day, ARS-Arid Land Agriculture Research Center, Maricopa, Arizona >700 estimated attendees.
- March 10, 2018. Science City- Science of the Natural World. Is it a pest? Between 60,000 and 100, 000 citizens visited Science City.
- November 17, 2018. With Nair, S, Gouge-Smith, A. R. C., Li, S. Head Lice - interactive display with live desert arthropods, and head lice screening. MAC Family Farm Day, Maricopa Ag. Center, Maricopa, Arizona approximately >2000 estimated attendees.

Video

- 2011. Gigstad G. and D. H. Gouge. Introductions to Integrated Pest Management and The City of Phoenix IPM Program. 19.5 minutes.
- 2018. Honey Bees <https://cals.arizona.edu/apmc/docs/Wild-honey-Bees.mp4>.
- 2018. Venomous Arthropods of the Desert Southwest. <https://cals.arizona.edu/apmc/docs/venomous-arthropods.mp4>.
- 2019. West Nile Virus https://youtu.be/giGzFU_YED8.

Video Technical Review

Collaborative project with Oregon State University and the Northwest Center for Alternatives to Pesticides. I provided storyboard content and critical review of the videos.

- Northwest Center for Alternatives to Pesticides. 2013. IPM for Mice-Trapping. Sustainable Places Information Network. 7.57 minutes

https://www.youtube.com/watch?v=d5mr8W_h_Jc&list=PLP416dZJLAUwjiUTdvwG8PCIMmVopiWPP&index=3.

- Northwest Center for Alternatives to Pesticides. 2013. IPM for Mice-Sanitation. Sustainable Places Information Network. 4.58 minutes
<https://www.youtube.com/watch?v=ML8wAaUFwyg&list=PLP416dZJLAUwjiUTdvwG8PCIMmVopiWPP&index=2>.
- Northwest Center for Alternatives to Pesticides. 2013. IPM for Mice-Exclusion. Sustainable Places Information Network. 4.49 minutes
<https://www.youtube.com/watch?v=ddZlm1Yjb5k&index=1&list=PLP416dZJLAUwjiUTdvwG8PCIMmVopiWPP>.
- How to Make a Bed Bug Trap. Sustainable Places Information Network, 2013. 3.25 minutes
<https://www.youtube.com/watch?v=mdyu80bgEKw&list=PLP416dZJLAUwjiUTdvwG8PCIMmVopiWPP&index=4>.
- How to Inspect for Bed Bugs. Sustainable Places Information Network, 2013. 5.15 minutes
<https://www.youtube.com/watch?v=ZIPnyiI5S5M&list=PLP416dZJLAUwjiUTdvwG8PCIMmVopiWPP&index=5>.

Conferences/Scholarly Presentations (During Associate and Full Rank)

Colloquia

- December 9-12, 2007. Organizer and Speaker: Gouge, D. H., A. Fournier, L. C. Graham, T. Green, M. L. Lane. Function. School IPM - Beyond the PMSP. Entomological Society of America National Meeting, San Diego, California. Submitted
- December 12-15, 2010. Organizer and Speaker: Gouge, D. H. School IPM Network Session. 58th Entomological Society of America, National Meeting, San Diego, California. Submitted
- January 29-31, 2011. Organizers: Stock, P. and D. H. Gouge. "Discovery of Entomopathogens and Their Integration and Safety in Pest Management Systems". S-1024 Microbial Control Group, Tucson, AZ. Invited

- November 13-16, 2011. Organizers and Speaker: Gouge, D. H., T. Stock, and C. Foss. School IPM Change Agent Practicum - The Wild West Approach". Non-ESA Function. 59th Entomological Society of America, National Meeting, Reno, Nevada. Submitted
- March 23-27, 2015. Organizers and Speaker: Gouge, D. H. and J. Hurley. School IPM Update and Open Discussion Forum. 8th International IPM Symposium - IPM: Solutions for a Changing World, Salt Lake City, Utah. Submitted

Seminars

- December 5, 2011. Gouge, D. H. Avoid Bed Dread – Work the Bugs Out. USDA ARS Arid Lands Agricultural Research Center Seminar, Maricopa, Arizona. 15 participants Invited
- June 16, 2011. Gouge, D. H. Bed Dread. Maricopa Ag. Center Seminar, Maricopa, Arizona. 29 participants. Submitted
- October 23, 2013. Gouge, D. H. Department Seminar – Making Bed Bugs Itch. Pesticide Potpourri – Bed Bugs and Bad Habits. Tucson, Arizona. Invited
- February 25, 2019. Suburban mosquito management – fact versus fiction. USDA ARS Arid Lands Agricultural Research Center Seminar, Maricopa, Arizona. 17 participants Invited
- March 26, 2019. Mosquitoes: Our Pesky little Pests with Global Impacts. Gilbert Historical Museum Seminar Series. Gilbert, AZ. 6 participants. Invited
- August 1, 2019. MAC 2019. Maricopa Ag. Center Seminar, Maricopa, Arizona. 30 participants. Submitted

Symposia

- August 3-8, 2008. Organizer and Speaker: Gouge, D. H., M. Wilson, and M. Brownbridge. Cross divisional symposia – Microbial control division and Nematodes. Utilizing Insect Pathogens in Green Pest Management Systems, Warwick, United Kingdom. Submitted
- May 18-21, 2008. Organizers and Speaker: Gouge, D. H., T. Green, and A. V. Latchininsky. Assessment and Implementation of IPM in Schools. 2008 National Conference on Urban Entomology, Tulsa, Oklahoma. Submitted

- August 3-8, 2008. Organizer and Speaker: Gouge, D. H., M. Wilson, and M. Brownbridge. Utilizing insect pathogens in green pest management systems. 2008 Annual Meeting of the Society for Invertebrate Pathology, Cross divisional symposia proposal - Microbial Control Division and Nematodes. Warwick, England. Submitted
- November 16-19, 2008. Organizer and Speaker: Gouge, D. H., T. A. Green, L. C. Graham, and K. Murray. SVPHS Section Symposium: School Integrated Pest Management. Entomological Society of America National Meeting, Reno, Nevada. Submitted
- November 13-16, 2011. Organizers and Speaker: Gouge, D. H. and L. C. Graham. School IPM Network & eXtension Meeting. 59th Entomological Society of America, National Meeting, Reno, NV. Reno, Nevada. Submitted
- November 13-16, 2011. Organizer and Speaker: Gouge, D. H., T. A. Green, T. Stock, C. Foss, J. A. Hurley. Identify.. Clarify.. Speak Out.. About IPM Implementation in Schools. 2011 ESA Annual Meeting, Reno, Nevada. Submitted
- March 27–29, 2012. Organizer and Speaker: Gouge, D. H. and J. Gangloff-Kaufmann. Adventures in Community IPM – Systems that work the bed bugs out. 7th International IPM Symposium - IPM on the World Stage, Memphis, Tennessee. Submitted
- March 23-27, 2015. Organizer and Moderator: Gouge, D. H., L. Braband, S. Nair. Tools for Successful IPM in Schools and Childcare Centers: Collaborating Resources for National IPM Training Program and Best Management Practices. 8th International IPM Symposium - IPM: Solutions for a Changing World, Salt Lake City, Utah. Submitted

Conferences

- December 9-12, 2007. Student Presentation. Yu, H., D. H. Gouge, P. Baker. Parasitism of subterranean termites (Isoptera: Rhinotermitidae) by entomopathogenic nematodes (Rhabditida: Steinernematidae; Heterorhabditidae). Entomological Society of America National Meeting, San Diego, California. Submitted
- February 3-5, 2008. Gouge, D. H. Greening Our Schools. Association of Applied IPM Ecologists – Ecological Pest Management Conference and 42nd Annual Meeting, San Luis Obispo, California. Invited
- May 18-21, 2008. Green, T. and D. H. Gouge. National Pest Management Strategic Plan for

- School IPM. 2008 National Conference on Urban Entomology. Tulsa, Oklahoma. Submitted
- May 18-21, 2008. Graham, L and D. H. Gouge. Regional Working Groups. 2008 National Conference on Urban Entomology. Tulsa, Oklahoma. Submitted
- November 16-19, 2008. Gouge, D. H. and J. Le-Melk. Kids Issues and the Importance of IPM. Entomological Society of America National Meeting, Reno, Nevada. Submitted
- November 16-19, 2008. Gouge, D. H. Boarder IPM in Schools and Childcare Facilities. SVPHS Section Symposium: School Integrated Pest Management Entomological Society of America National Meeting, Reno, Nevada. Submitted
- April 3-4, 2009. Gouge, D. H. The State Extension Perspective - overview of work/experience with school IPM/child care facilities. 27th National Pesticide Forum - Bridge to an Organic Future: Opportunities for health and the environment, Carrboro, North Carolina. Invited
- December 12-15, 2010. Merchant, M., Oi, F., Braband, L., Gouge, D. H. IPM in Schools. 58th Entomological Society of America, National Meeting, San Diego, California. Submitted
- January 7, 2011. Gouge, D. H. The Ultimate Parasite-When Are You Going to be a Bed Bug's Best Buddy? Medical Entomology Today, Tucson, Arizona. Invited
- February 18, 2011. Gouge, D. H. Bed Bugs and Property Management. Southwest Regional National Association of Residential Property Managers Conference, Phoenix, Arizona. Invited
- March 27-29, 2012. Gouge, D. H. Pesticide Potpourri. 7th International IPM Symposium, Memphis, Tennessee. Submitted
- July 17-21, 2012. Gouge, D. H. School is no place for blood sucking bed bugs or allergenic cockroaches. 59th Arizona Association of School Business Officials Annual Conference and Exposition, Tucson, Arizona. Submitted
- April 7-9, 2014. Gouge, D. H. Edutainment-Education with a smile. 98th ESA-Pacific Branch Meeting, Tucson, Arizona. Invited
- November 16-19, 2014. Gouge, D. H. Simple solutions: Big results. 62nd ESA National Meeting, Portland, Oregon. Invited
- March 23-27, 2015. Bolton, H., L. Braband, M. Duke, C. Foss, L. Graham, D. H. Gouge, T. Green, J. Hurley, D. Kopec, S. Li, K., S. Nair, M. Page, S. T. Ratcliffe, G. Smith, M. Snyder, T. Stock, K. U., D. Young. Stop School Pests - Whole Sale Education Efforts to Kickstart a

School IPM Program. 8th International IPM Symposium, Salt Lake City, Utah. Submitted

- September 25-29, 2016. Gouge, D. H., S. Li, S. Nair, M. Wierda, K. Drake, T. Stock, A. Fournier. Extreme Pesticide Use in Response to *Cimex lectularius* and *Blattella germanica* Infestations. XXV International Congress of Entomology, Orlando, Florida. Submitted
- September 25-29, 2016. Li, S., D. H. Gouge, A. Fournier, T. Stock, A. Romero, D. Young, S. Nair, C. Foss, R. Kerzee, D. Stone, M. Dunn, D. Spurgeon, R. LaMorte. Life Quality Impacts of Bed Bug (*Cimex lectularius* L.) Infestations. XXV International Congress of Entomology, Orlando, Florida. Submitted
- September 25-29, 2016. Nair, S., D. H. Gouge, A. Fournier, K. Umeda, D. Kopec, U. Schuch, S. Li, P. Warren, M. Wierda. School IPM - Inside and Out. XXV International Congress of Entomology, Orlando, Florida. Submitted
- March 19–22, 2018. Gouge, D. H., S. Li, S. Nair, N. Pier. Integrated Pest Management—A Simple Solution to Wicked Problem Pests in Elderly and Disabled Public Housing. 9th International IPM Symposium, Baltimore, Maryland. Invited
- October 7-11, 2018. Walker, K. R., Riehle, M. A., Gouge, D. H., Ernst, K. C. Impacts of ULV adulticiding on the vectorial capacity of the Zika Vector. Society of Vector Ecology. Yosemite, California. Submitted
- August 6-7, 2019. Li, S., Gouge, D. H., Nair, S., Dorame-Avalos, A., Reese, S. K., Brophy, M., Walker, K. C., Ernst, K. C., Rivadeneira, P., Teegerstrom, T., Ellsworth, P. C. and Fournier, A. J. (presented the poster). Public Health IPM Education in American Indian Communities. Poster presentation. Arizona Cooperative Extension Conference. Westin La Paloma Resort, 3800 E. Sunrise Dr., Tucson, AZ 85718. Submitted
- August 6-7, 2019. Gouge, D. H., Nair, S., Li, S., Fernandez, D., Henegar, S., Ketner, R., Choe, D-H., Campbell, K. and De La Hoz, J. Using Heat to Reduce Pests in Housing. Poster presentation. 2019 Arizona Cooperative Extension Conference. Westin La Paloma Resort, 3800 E. Sunrise Dr., Tucson, AZ 85718. Submitted
- October 22, 2019. Li, S., Gouge, D. H., Nair, S., Dorame-Avalos, A., Reese, S. K., Brophy, M., Walker, K. C., Ernst, K. C., Rivadeneira, P., Teegerstrom, T., Ellsworth, P. C. and Fournier, A. J. 2019. Effective Partnerships in IPM Education in Indian Communities. Tribal/EPA Region 9 Conference. Maricopa, AZ 85138.

Virtual Conferences

- April 13-14, 2016. Gouge, D. H., S. Li, S. Nair, K. Drake. Bed Bugs in Elderly and Disabled Low-income Housing – Getting Real! Enhancing Environmental Health Knowledge (EEK): Vectors and Public Health Pests Virtual Conference. 60 views. Submitted
- April 13-14, 2016. Li, S., D. H. Gouge, A. J. Fournier, T. Stock, A. Romero, D. Young, S. Nair, C. Foss, R. Kerzee, D. Stone, M. Dunn. Bed Bug (*Cimex lectularius* L.) Infestations Impact Quality of Life. Enhancing Environmental Health Knowledge (EEK): Vectors and Public Health Pests Virtual Conference. 44 views. Submitted
- April 13-14, 2016. Li, S., D. H. Gouge, S. Nair., A. J. Fournier, K. Walker, J. Hurley. Mosquitoes and Mosquito-borne Pathogens. Enhancing Environmental Health Knowledge (EEK): Vectors and Public Health Pests Virtual Conference. 49 views. Submitted
- April 13-14, 2016. Nair, S., D. H. Gouge, A. Fournier, K. Umeda, D. Kopec, U. Schuch, S. Li, P. Warren, M. Wierda. School IPM – Inside and Out. Enhancing Environmental Health Knowledge (EEK): Vectors and Public Health Pests Virtual Conference. 14 views. Submitted
- May 15-16, 2018. Nair, S., S. Li, D. H. Gouge. Communicating about bed bugs to diverse audiences using diverse tools. National Environmental Health Association (NEHA) Enhancing Environmental Health Knowledge: Vectors and Public Health Pests Virtual Conference, 143 views, 113 NEHA CEs. Submitted
- May 15-16, 2018. Li, S., D. H. Gouge, S. Nair, A. Fournier. Implementation of Integrated Pest Management in Elderly/Disabled Public Housing Facilities. Poster presentation. National Environmental Health Association (NEHA) Enhancing Environmental Health Knowledge: Vectors and Public Health Pests Virtual Conference, 80 views, 56 NEHA CEs. Submitted
- August 28-29, 2019. Nair, S., D. H. Gouge, K. Umeda, S. Li, A. Fournier, U. Schuch. Implementing IPM in Schools without IPM legislation: Experiences from Arizona. National Environmental Health Association (NEHA) Integrated Pest Management Solutions in Environmental Health Virtual Conference, 94 views. Submitted
- August 28-29, 2019. Li, S., D. H. Gouge, S. Nair, A. Dorame-Avalos, S. K. Reese, M. Brophy, K. C. Walker, K. C. Ernst, P. Rivadeneira, T. Teegerstrom, P. C. Ellsworth, A. J. Fournier. Effective Partnerships in Public Health IPM Education in American Indian

Communities. National Environmental Health Association (NEHA) Pest-Control through Environmentally Sustainable Treatments (PEST) Virtual Conference, August 28-29, 2019. 158 views. 106 NEHA CEUs. Submitted

- August 28-29, 2019. Gouge, D. H., S. Nair, S. Li, D. Fernandez, S. Henegar, R. Ketner, D-H. Choe, K. Campbell, J. De La Hoz. Using Heat to Reduce Pests in Housing. National Environmental Health Association (NEHA) Integrated Pest Management Solutions in Environmental Health Virtual Conference, 214 views. Submitted

Conference Posters

- December 9-12, 2007. Green, T., D. H. Gouge, A. Fournier, M. L. Lame, G. Pettis, S. Glick, R. Melnicoe, L. Herbst. A pest management strategic plan for integrated pest management in schools in the United States. Entomological Society of America National Meeting, San Diego, California. Submitted
- November 11-14, 2012. Stevens, B. K., D. H. Gouge, K. Umeda, U. Schuch, D. Kopec, A. Fournier, P. Baker. Indoor/Outdoor School IPM in Arizona. 60th Entomological Society of America, National Meeting, Knoxville, Tennessee. Submitted
- November 16-19, 2014. Gouge, D. H. Stop School Pests: A national IPM standard training program. 62nd ESA National Meeting, Portland, Oregon. Submitted
- March 23-27, 2015. Gouge, D. H., S. Li, A. Fournier, T. Stock, A. Romero, D. Young, S. Nair, C. Foss, R. Kerzee, D. Stone, M. Dunn. Quality of Life Impacts of Bed Bug (*Cimex lectularius* L.) Infestations. 8th International IPM Symposium, Salt Lake City, Utah. Submitted
- April 2-5, 2017. Umeda, K., S. Nair, D. H. Gouge, Fournier, A. J., U. K. Schuch, S. Li, P. Warren, D. Kopec, M. Wierda. School IPM - Inside and Out: Advances and Accomplishments of the Arizona Program. 101st Annual Meeting of the Pacific Branch of the Entomological Society of America, Portland, Oregon. Submitted
- March 19-22, 2018. Nair, S., T. Green, D. H. Gouge, K. Umeda, A. Fournier, S. Li, U. Schuch, D. Kopec. Recognizing Excellence in School Integrated Pest Management. 9th International IPM Symposium, Baltimore, Maryland. Submitted

- March 19-22, 2018. Green, T., D. H. Gouge, M. Zastrow. School Pests online integrated pest management training courses for school employees. 9th International IPM Symposium, Baltimore, Maryland. Submitted
- August 6-7, 2019. Gouge, D.H., S. Nair, S. Li, D. Fernandez, S. Henegar, R. Ketner, D-H. Choe, K. Campbell, J. De La Hoz. Using Heat to Reduce Pests in Housing. Arizona Cooperative Extension Conference. Tucson, AZ 85718. Submitted
- September 22-26, 2019. Arnbrister, J., M. Brophy, D. H. Gouge, K. Walker. Pilot Testing of In2Care® Traps in Urban Desert Landscape. SOVE 49th Annual Conference, San Juan, Puerto Rico. Submitted

Conferences Organization

- March 27-29, 2012. Steering Committee Member and Program Committee Co-Chair 7th International IPM Symposium, Memphis, Tennessee. The Symposium attracted more than 630 research, education, government, industry and environmental and health professionals from 36 countries for three days of presentations, networking and organizational meetings on key pest management issues.
- March 23-27, 2015. Steering Committee Member and Program Committee Co-Chair 8th International IPM Symposium, Salt Lake City, Utah. The Symposium attracted more than 446 research, education, government, industry and environmental and health professionals from 27 countries for three days of presentations, networking and organizational meetings on key pest management issues.
- March 18-23, 2018. Steering Committee Member and Poster Committee 9th International IPM Symposium, Baltimore, Maryland. The Symposium attracted more than 514 (including 51 students) research, education, government, industry and environmental and health professionals from 25 countries for three days of presentations, networking and organizational meetings on key pest management issues.
- March 14-20, 2021. Steering Committee and Students and Early Career Scientists Committee Chair. 10th International IPM Symposium, Denver, Colorado
<https://ipmsymposium.org/2021/>.

Presentations (Extension Program Events and Presentations – Last Five Years)

Continuing Education Units (CEUs) are AZ Office of Pest Management (OPM), in 2016 OPM became AZ Pest Management Division (PMD), National Environmental Health Association (NEHA), and/or National Association of School Nurses (NASN). Speaker: Gouge, D. H. only, unless others are listed.

- July 17, 2015. Roaring Reptiles Museum Overnight Event. Arizona Museum of Natural History, Mesa, AZ. 21 youth and 15 adult participants. Invited
- July 23-24, 2015. IPM Basics for Environmental Health Professionals, Mosquito Biology and Control, Rodent Biology and Control, Pest Inspection Practicum. School IPM for Tribes. Phoenix, AZ. 20 participants. Intertribal Council of Arizona Workshop and Practicum. Speaker and Event Co-Coordinator
- August 7, 2015. Mosquito Madness. Southwest Horticulture Annual Day of Education (SHADE) Conference, Tucson, AZ. 30 participants/4 CEUs. Invited
- September 22, 2015. Itchy bug update: Training for school nurses, ESS facilitators, maintenance and administrative staff. Phoenix Union High School District Support Facility, Phoenix AZ. 26 participants. Invited
- October 15, 2015. Itchy Bugs and Adult Day Health Centers. Phoenix, AZ. 12 participants. Invited
- October 26, 2015. Mosquitoes; Bed bugs and other itchy bugs. State Signature Program Initiative School IPM Seminar. Pima Cooperative Extension Office, Tucson, AZ. 19 participants/38 AZ OPM CEUs. Speaker and Event Co-Coordinator
- October 29, 2015. Mosquitoes; Bed bugs and other itchy bugs. State Signature Program Initiative School IPM Seminar. Maricopa Cooperative Extension Office, Phoenix, AZ. 52 participants/104 AZ OPM CEUs. Speaker and Event Co-Coordinator
- November 4, 2015. Bed Dread – Human Health Impacts of Bed Bugs. Arizona Department of Health Services Conference for Registered Sanitarians, Phoenix, AZ. 51 participants/50 NEHA CEUs. Invited
- November 10, 2015. Mosquitoes; Bed bugs and other itchy bugs. State Signature Program Initiative School IPM Seminar. Pinal Cooperative Extension Office, Casa Grande, AZ. 15 participants/30 AZ OPM CEUs. Speaker and Event Co-Coordinator

- December 10, 2015. Bite's, Stings and Crazy Things. Arizona Pest Professionals – Southern Chapter. Tucson, AZ. 10 participants/8 AZ OPM CEUs. Invited
- February 11, 2016. Bite's, Stings and Crazy Things. Arizona Pest Professionals – Northern Chapter. Phoenix, AZ. 29 participants/26 AZ OPM CEUs. Invited
- February 25, 2016. General IPM Philosophy; Non-target toxicological concerns; Modes of Action. Pesticide Safety Education Workshop. Sierra Vista, AZ. 55 participants/30 AZ OPM CEUs & 9 AZ ADA CEUs. Speaker
- March 2, 2016. Mosquitoes, biting midges, ticks; Rodents. State Signature Program Initiative School IPM. Mohave Cooperative Extension Office, Kingman, AZ. 32 participants/36 AZ OPM CEUs. Speaker
- March 10, 2016. Working with Bed Bugs. Phoenix Housing Maintenance Staff IPM Education Morning. Phoenix, AZ. 48 participants. Invited
- March 29, 2016. Subsidized Housing IPM. Northwestern Annual Education Conference. Tucson, AZ. 83 participants/166 AZ OPM CEUs. Invited
- March 31, 2016. Medically Significant Venomous Insects and Arachnids (2 presentations). Arizona Public Service Occupational Health and Safety Education In-service. Phoenix, AZ. 52 participants. Invited
- April 15, 2016. Bed Bug Adventure Game. Resident Outreach Event. City of Phoenix Housing. Phoenix, AZ. 19 + 1 youth participant. Speaker and Event Coordinator
- May 5, 2016. Mosquitoes, biting midges, ticks; Rodents. State Signature Program Initiative School IPM. Cochise Cooperative Extension Office, Sierra Vista, AZ. 27 participants/18 AZ OPM CEUs. Speaker
- May 10, 2016. Stop School Pests and iSchool Pest Manager - School IPM Tools. EPA Webinar. <https://www.epa.gov/managing-pests-schools/previous-webinars-about-integrated-pest-management-schools>. 550 unique views from 47 states, 1 territory, (Puerto Rico) and 3 foreign countries (Mexico, Canada and Spain). Staff from 367 schools / districts/ childcare centers serving 3,950,006 students. Invited
- May 12, 2016. Science Café –Bed Bugs - National Pest Management Month. Phoenix AZ. 22 participants. Invited
- May 13, 2016. Injury or Death from Arboviruses Vectedored by Mosquitoes. Eagle International Associates Lawyer Conference. Phoenix, AZ. 63 participants. Invited

- May 17, 2016. #1 Pests in Schools. EPA Webinar. <https://www.epa.gov/managing-pests-schools/previous-webinars-about-integrated-pest-management-schools>. 568 unique views from 45 states, 1 territory (Puerto Rico) and 2 foreign countries (Mexico and Canada). Staff from 412 schools / districts/ childcare centers serving 3,228,175 students. Invited
- May 25, 2016. Stop School Pests and National School IPM 2020 Team. EPA School Integrated Pest Management Roundtable. Washington, DC. 23 organizations with a pediatric health focus, 41 participants. Invited
- July 12, 2016. Mosquitoes and Arbovirus Risk – Ever More Interesting by the Day. Pima School Nursing Staff Health Conference. Tucson, AZ. 44 participants/44 National Association of School Nurses CEUs. Invited
- August 19, 2016. Medically Significant Venomous Insects and Arachnids. Arizona Public Service (APS) Occupational Health and Safety Education, Cottonwood In-service. 38 participants. Invited
- August 31-September 1, 2016. Medically Significant Venomous Pests, Pest Inspection Practicum. School IPM for Tribes. Phoenix, AZ. 37 participants/11 AZ OPM CEUs. Intertribal Council of Arizona Workshop and Practicum. Speaker
- January 14, 2017. Biting Bugs Workshop for Teachers. Maricopa, AZ. 17 participants. Project Puente Workshop and Practicum with Central Arizona College. Instructor
- March 16, 2017. Bites, Stings, & Crazy Things in Arizona. 2017 Vector Control Workshop, Phoenix, AZ. 185 participants. Invited
- March 22, 2017. Biology and Behavior of the Perfect Ectoparasite. Target Specialty Products. Gilbert, AZ. 62 participants/64 CEUs. Instructor
- March 29, 2017. Working Around Wild Honey Bees and Other Stinging Pests. Tempe, AZ. 51 participants/14 CEUs. Invited
- April 19, 2017. Health Impacts of Bed Bugs & German Cockroaches - Resident Survey Results and Research Findings; Bed Bug and German Cockroach Pest Management Programs – Experiences in Housing; Pesticide Risk – Discouraging Hazardous Chemical Use. Stop Pests in Housing Workshop, Maricopa, AZ. 56 participants/48 CEUs. Instructor and Event Coordinator
- May 16, 2017. Health Impacts of Bed Bugs & German Cockroaches - Resident Survey Results and Research Findings; Bed Bug and German Cockroach Pest Management

Programs – Experiences in Housing. Stop Pests in Housing Workshop, Phoenix, AZ. 66 participants/16 CEUs. Instructor and Event Coordinator

- August 28, 2017. Wild Bees. Southwest Horticulture Annual Day of Education (SHADE) Conference, Phoenix, AZ. 56 participants/69 CEUs. Instructor
- November 16, 2017. Reducing Risks Associated with Pests and Pest Management and IPM in Utah. NEHA/EPA Webinar. 28 participants. Instructor
- February 7, 2018. Bed Bugs and In-home Care Workers. Pima Council on Aging, Tucson, AZ 45 participants. Instructor
- February 9, 2018. Honey Bees & Venomous Arthropods of the Desert Southwest. Metro Institute, Phoenix, AZ. 12 participants/24 CEUs. Instructor
Recordings of which were used in subsequent classes every week for the rest of the year generating 261 CEUs - Venomous Arthropods of the Desert Southwest <https://cals.arizona.edu/apmc/docs/venomous-arthropods.mp4>, and 401 CEUs - Honey Bees <https://cals.arizona.edu/apmc/docs/Wild-honey-Bees.mp4>.
- February 21, 2018. Bed Bugs in Schools and Childcare Centers. Bed Bug Workgroup Workshop, Las Vegas, NV. 200 participants. Instructor
- March 23, 2018. Li, S., Gouge, D.H., Nair, S. and Fournier, A. Implementation of Integrated Pest Management in Elderly/Disabled Public Housing Facilities. CALS Poster Forum (presented by Shujuan Li). Agricultural and Life Science Research, University of Arizona. Tucson, AZ. 65 participants.
- April 3, 2018. Introduction to Bed Bugs. City of Glendale In-service, Glendale, AZ. 42 participants. Instructor
- April 17, 2018. Stop School Pests – Inside and Out Workshop. Phoenix, AZ. 65 participants/49 CEUs. Instructor
- April 24, 2018. German Cockroach and Bed Bug IPM in Low Income Elderly and Disabled Housing. HUD Housing Directors Briefing Webinar. 5 participants. Instructor
- August 4, 2018. Mosquito Challenge. Ag Media Summit. Maricopa, AZ. 27 participants. Instructor
- September 12, 2018. Bed Bug Brunch and Learn - Medical Environments. Hospital In-service. St. Joseph's Hospital, Tucson AZ. 32 participants. Instructor

- September 25, 2018. Mosquitoes and Neighborhood Management. Sienna HOA meeting. Chandler, AZ. 11 participants.
- September 27, 2018. Mosquitoes and Neighborhood Management. Fox Crossing HOA meeting. 21 participants.
- October 1, 2018. Who's for Dinner? CALS Alumni event. Casa Grande, AZ. 25 participants.
- October 31, 2018. How to Host the Perfect Ectoparasite. AgNR In-Service. Maricopa, AZ. 35 participants.
- November 14, 2018. Community IPM and Public Health Pest Leads. German Cockroach and Bed Bug IPM in Low Income Elderly and Disabled Housing. HUD webinar. >750 participants attended online ~1,500 registered to view the recording.
- December 4-5, 2018. Community IPM and Public Health Pest Leads. Southwest Rodent Academy. Maricopa, AZ. 47 participants, 8 vendors, and 17 collaborators. 517 CEUs.
- January 30, 2019. Health Impacts of Desert Southwest Commensal Rodents & Mosquito Biology and Ecology in the Desert Southwest. Metro Institute Continuing Education Class, Phoenix, AZ. 16 participants/32 CEUs. Instructor. Recordings of which were used in subsequent classes generating 362 CEUs associated with Health Impacts of Desert Southwest Commensal Rodents, and 373 CEUs associated with Mosquito Biology and Ecology in the Desert Southwest. Recordings made in 2018 used in 2019 classes generated 314 CEUs associated with Venomous Arthropods of the Desert Southwest and 244 CEUs associated with Honey Bees.
- March 27, 2019. Who's in control? You or the cockroach? AZPPO Great Western Conference. Mesa, AZ. 101 participants/101CEs. Invited
- April 10-11, 2019. Bed Bugs Biology and Management & Health Impacts of Pesticide Exposure. Tohono O'odham Ki:Ki Association Healthy Homes Workshop. Sells, AZ. 47 participants. Instructor
- April 24, 2019. Climate change - expanding pest ranges and emerging issues. 2nd Arizona School IPM Conference. Phoenix, AZ. 51 participants/29CEs. Invited
- April 29, 2019. Mosquito Biology & Ecology in the Desert Environment. Northwest Exterminating Summit. Tucson, AZ. 93 participants/93 CEUs. Invited

- August 7, 2019. Integrated Pest Management-A Simple Solution to Problem Pests in Elderly and Disabled Public Housing. 5th Annual Tennessee Bed Bug and Cockroach Management Meeting. Knoxville, TN. 138 participants/138 CEUs. Invited
- September 6, 2019. Bed bugs – in homes, in schools, in childcare facilities, in medical centers, in fire stations! Yavapai Apache Nation Integrated Pest Management Workshop. Camp Verde, AZ. 4 participants. Instructor
- October 23-24, 2019. 1st Southwest Termite Academy. Maricopa, AZ 71 participants/71 CEUs. Instructor & Workshop Coordinator
- November 20, 2019. Bed bugs – in homes, in schools, in childcare facilities, in medical centers, in fire stations! Gila River Indian Community Public Health Integrated Pest Management Workshop. Sacaton, AZ. 33 participants/12 CEUs. Instructor
- December 4-5, 2019. Health Significance of Commensal Rodents. 2nd Southwest Rodent Academy. Maricopa, AZ. 45 participants/45 CEUs. Instructor & Workshop Coordinator
- January 29-30, 2020. Why pest outbreaks occur after disasters; A deeper dive into commensal rodents; A deeper dive into communicable pests – bed bugs, scabies, head lice, body lice; Real-world pest outbreak scenarios. In Tribal Nations Resilience in Arizona Conference, Workshop II Tribal Emergency Preparedness for Pest Outbreaks, with Intertribal Council of Arizona. Phoenix, AZ. 36 participants. Instructor
- February 26, 2020. The Perfect Ectoparasite - Bed Bugs & IPM. Great Plains Diagnostic Network webinar series 2020. Webinar <https://msuextensionconnect.org/pz3olauwwssm/>. 9 participants. Instructor
- March 11, 2020. Bed bug Bedlam. Arizona Environmental Health Association conference, Phoenix, AZ. XX participants/XX CEUs. Instructor Data pending
- April 15, 2020. Arizona Vector Conference 2020.
- April 28, 2020. Common Viral Disease Concerns in Schools, Childcare Facilities, & Homes. 3rd School IPM Conference. University of Arizona Virtual Conference. 78 participants/32 CEUs. Instructor
- May 18-20, 2020. Mosquitoes - Stealthy Bloodsuckers That Stalk Our Cities. 29th Urban Pest Management Conference. University of California Riverside Virtual Conference. XX participants/XX CEUs. Instructor Data pending

Awarded Grants and Contracts (During Associate and Full Rank)

Federal

- Gouge, D. H., A. Fournier, J. L. Snyder, P. Baker, C. Foss, T. Stock, W. Lanier. January 2007-December 2007. Western Region School IPM. Implementation and Assessment Work Group. \$10,000. Western Region IPM Center, USDA, NIFA. 60%, PI
- Gouge, D. H., and W. Jacox. April 2007-March 2010. Implementation of an IPM Program in Border Schools and Child Care Facilities. \$80,000. Environmental Protection Agency, Region IX. 95%, PI
- Gouge, D. H., A. Fournier, A. Latchininsky, A. Gebra-Amlak, C. Foss, T. Stock, W. Lanier. December 2007-November 2009. Western Region School IPM. Implementation and Assessment Work Group. \$20,000. Western Region IPM Center, USDA, NIFA. 70%, PI
- Green, T., D. H. Gouge, T. Stock, J. Hurley, C. Foss, L. Graham, K. Murray. October 2008-September 2011. Integrated Pest Management in All U.S. Schools by 2015. \$250,000. EPA-PRIA. 40%, Co-PI
- Ellsworth, P. C. and A. Fournier. [Gouge, Community IPM Team Leader]. 2009. The Arizona Pest Management Center: Implementing IPM in Diverse Environments in Arizona. \$181,000. USDA-NIFA Extension Integrated Pest Management Coordination and Support Program. 9%
- Gouge, D. H. July 2010-June 2011. Advanced IPM Service Providers for Green Communities. \$4,200. NIFA, Pesticide Safety Education Program. 100%, PI
- Ellsworth, P., A. Fournier, P. Baker, D. H. Gouge, A. Mostafa, S. Bealmear, U. Schuch, and W. McCloskey. 2010-2013. The Arizona Pest Management Center: Enhancing Capacity for IPM Practice in Diverse Environments. \$525,000. USDA-NIFA, Extension IPM Coordination Grant. 20%, Co-PI
- Stock, T., D. H. Gouge, C. Foss, T. Grasswitz. January 2011-December 2011. Western Region School IPM Implementation and Assessment Work Group. \$10,000. Western Region IPM Center, USDA, NIFA. 50%, Co-PI

- Gouge, D. H., T. Stock, A. Code. January 2011-December 2011. Western Region School IPM Implementation and Assessment Work Group. \$20,000. Western Region IPM Center, USDA, NIFA. 60%, PI
- Gouge, D. H. and G. W. Gigstad. January 2011-December 2011. Video production “An Introduction to IPM”, and “The City of Phoenix IPM Program” \$2,500. Western Region IPM Center, USDA, NIFA. 30%, PI
- Green, T., T. Stock, D. H. Gouge, J. Hurley, C. Foss, L. Graham, K. Murray. October 2010-September 2012. Healthy School Communities through IPM and Expanded Partnerships: Reducing Pest and Pesticide Risks, Improving Asthma Outcomes and Furthering Environmental Justice. \$250,000. EPA-PRIA. 30%, Co-PI
- Gouge, D. H., B. K. Stevens, A. Fournier. August 2012-July 2013. Pesticide Project for Tribes: Training on Integrated Pest Management (IPM) For Schools Developing and Implementing IPM-In-Schools Plans for Tribes. \$24,925. US-EPA – IX contract. 95%, PI
- Ellsworth, P. and A. Fournier. [Gouge, Community IPM Team Leader]. 2013. The Arizona Pest Management Center: Developing, Disseminating & Delivering High-Impact IPM Programs. \$250,000. USDA-NIFA, Extension IPM Coordination Grant. 16%
- Gouge, D. H., T. Green, A. Fournier, S. Li, S. Nair, D. Kopec, P. Baker, K. Umeda, C. Foss, T. Stock, S. T. Ratcliffe. February 2014-August 2016. Building sustainable school IPM inside and out: Developing and implementing standardized training materials and IPM proficiency exams for certification, \$250,000. US-EPA. 60%, PI
- Nair, S., D. H. Gouge, S. Li, A. Fournier, K. Umeda, D. Kopec, U. Schuch, P. Baker, L. Brown, M. Rust, A. O’Callaghan, M. L. Robinson, N. Duggal. March 2014-February 2015. Handbook of Pests in Community Environments in the Desert Southwestern United States, \$30,000-Western IPM Center. USDA-NIFA-Western IPM Center. 20%, Co-PI
- Gouge, D. H., S. Li, A. Fournier. September 2014-August 2017. National assessment of bed bug impacts and demonstration of IPM in high-risk elder/disabled housing facility, \$124,999-NIFA Applied Research and Development Program (ARDP). 90%, PI
- Ellsworth, P. and A. Fournier. [Gouge, Community IPM Team Leader]. 2014-2017. The Arizona Pest Management Center: Developing, Disseminating & Delivering High-Impact IPM Programs. \$858,000. USDA-NIFA, Crop Protection / Pest Management, Extension Implementation Program. 18%

- Gouge, D. H. 2017. StopPests in Housing. \$17,500. Housing and Urban Development. 90%
- Sutherland, A., D-H. Chow, C. Foss, D. H. Gouge, S. Li, S. Nair, A. Romero, H. Spafford. 2017-2018. Work Group: Developing effective bed bug outreach programs for diverse clientele in the West. \$30,000. Western Region IPM Center, USDA, NIFA. 10%
- Walker, K., M. Riehle, K. Ernst, D. H. Gouge. 2017-2021. Impact of ULV adulticiding on the vectorial capacity of the Zika vector, *Aedes aegypti*. \$1,250,000. Centers for Disease Control and Prevention. 25%
- Walker, K., M. Riehle, M. Hunter, K. Ernst, D. Gouge. 2017-2018. Genetic variation and endosymbiont diversity of *Rhipicephalus sanguineus* populations across Arizona. Center for Insect Science Seed Grant, \$8,000.
- Walker, K., M. Riehle, M. Hunter, K. Ernst, D. Gouge. 2018-2019. Genetic variation and endosymbiont diversity of *Rhipicephalus sanguineus* populations across Arizona. Pacific Southwest Regional Center of Excellence in Vector-borne Diseases Training Grant Program, \$25,000.
- Ernst, K. K. Walker, D. Gouge, K. Prudic. 2018-2019. Engaging community health workers for vector control and surveillance. Pacific Southwest Regional Center of Excellence in Vector-borne Diseases Training Grant Program, \$25,000.
- Li, S., D H. Gouge. Stop Pests in Housing Publications for Facility Managers. \$6,000. Housing and Urban Development.
- Li, S., D H. Gouge, K. Walker, A. J. Fournier, S. Nair, M. Brophy, J. Weber. 03/01/2020 – 08/31/2021. Pollution Prevention and Emergency Preparedness through Tribal Partnerships. EPA Border 2020 Program. \$99,974.

State & Intramural

- Gouge, D. H. and J. L. Snyder. July 2006-June 2007. Arizona Urban IPM Working Group. \$1,500. University of Arizona – Extension Working Group Grant. 100%, PI
- Gouge, D. H., and A. Fournier. July 2006-June 2007. Pest Management Strategic Plan for School IPM. \$10,000. Cooperative State Research, Education, and Extension Service, Hatch Funds. 90%, PI

- Gouge, D. H., A. Fournier, P. Baker, D. Kopec, U. Schuch, K. Umeda, T. DeGomez, S. Bealmear, J. Schalau. January 2013-June 2014. Reducing Risks from Pests and Pest Management Practices in Public Schools – a Statewide Initiative, \$6,671-State Signature Program Initiative. 50%, PI
- Nair, S., D. H. Gouge, S. Li, A. Fournier, D. Kopec, U. Schuch, K. Umeda, R. Gibson, P. Warren, E. Alden. January 2015-June 2016. Enabling Schools to Practice and Implement Integrated Pest Management-Expansion of IPM in a Child’s World, \$14,093-State Signature Program Initiative. 50%, Co-PI
- Walker, K., M. Riehle, M. Hunter, K. Ernst, D. Gouge. 2017-2018. Genetic variation and endosymbiont diversity of *Rhipicephalus sanguineus* populations across Arizona. Center for Insect Science Seed Grant, \$8,000.
- Gouge, D. H., S. Li, S. Nair. January 2019-December 2019. Reducing Pests and Pest Management Related Hazards in Low-income Multiunit Public Housing. Extension Strategic Initiative Program \$18,658, PI.
- Schuch, U., D. H. Gouge, S. Nair, S. Li, K. Umeda. January 2019-December 2019. IPM and Strategic Plant Use for Human Health in Health Care Facilities. Extension Strategic Initiative Program \$18,172, Co-PI.
- Li, S., D. H. Gouge, K. R. Walker, K. C. Ernst, P. Rivadeneira, P. C. Ellsworth. January 2019-December 2019. Public Health IPM Education in American Indian Communities. Extension Strategic Initiative Program \$31,895, Co-PI.

Industry & Nonprofit

- 2012. Pesticide Project for Tribes: Bark Scorpion Research. \$10,000 (gift). Rare Disease Therapeutics, Inc. 50%, Co-PI
- 2016. Bed Bug Remediation. \$2,000 (gift). Decon 7 Systems.
- 2018. Rodent Academy. \$6,000. Target Specialty Products.
- 2019. Stop Pests in Housing Publications. \$6,000. Housing and Urban Development.
- 2019. Termite Academy. \$9,000. Target Specialty Products.
- 2019. Rodent Academy. \$5,000. Target Specialty Products

Expert Witness

I have served as an expert witness on select litigation cases involving public health pest injury and pesticide safety. Cases have included expert testimony for defense and prosecution litigators. Cases in which I was retained as an expert witness are listed below:

- CV2015-008363, King v. HSL Properties, L.L.C.; HSL Asset Management, L.L.C.; HSL Encantada Apartments, L.L.C.; HSL Properties Management, INC.; HSL Properties Financial Corporation, INC.; Black Entities; John and Jane DOE, 1-5.
Retained by defending attorney Robert Grasso, Jr. Grasso Law Firm, 2121 W. Chandler Blvd, #100, Chandler, AZ 85224. Submitted Expert Report July 16th, 2016.
- CR2004-124662-001 SE, Arizona State v. Martinson.
Retained by defending attorney Michael Terribile, 3839 North 3rd Street, Suite 400, Phoenix, Arizona 85012. Testified in trial Dec 13th, 2011; Testified in trial Dec 14th, 2011.
- District Court Case A572550, Ymyi Rosales, individually and as Guardian of Ethan Vera, a minor child v. Camden Development, INC., and DOES I through X, inclusive.
Retained by defending attorney Richard B. Parnell, Law Office of James J. Ream, 333 North Rancho Drive, Suite 530, Las Vegas, Nevada 89106. Submitted Expert Report May 10th, 2010.
- CV2006-008663, Superior Court of Arizona Maricopa County, Edwin J. Vigil and Denise Salazar Vigil, husband and wife, individually and on behalf of Alexis K. Vigil (Plaintiffs) v. Starwood Hotels & Resort, Worldwide, Inc. a Maryland Corporation.
Retained by defending attorney Jack Storer, Swenson, Storer, Andrews, Frazelle & Sayre, P.C., 40 North Central Avenue, Suite 1050, Phoenix, AZ 85004-4401. The plaintiffs were represented by David Catanese, (Catanese Law Firm, P.C.). Deposed by Jack Storer June 6th, 2008; Deposed by David Catanese June 10th, 2008; testified in trial Jan 21, 2009.
- CV2002-020198 (Consolidated with CV 2002-020296), Denise P Dean v. Foothills Shopping Center L.L.C. & Zell Commercial Real Estate Services Inc.
Retained by prosecuting attorney Mr. S.H. Schneider, 2700 North Central Avenue, Suite 890, Phoenix, AZ 85004. Expert Report October 20th, 2003; Expert Report October 26th, 2005.

References

Dr. Bruce E. Tabashnik

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brucet@ag.arizona.edu, 520-621-1141, 520-621-4081 (lab).

Dr. Peter Ellsworth

Specialist and Professor, University of Arizona, Department of Entomology.

Physical address: Maricopa Agricultural Center, 37860 West Smith-Enke Road, Maricopa, AZ

85138, peterell@ag.arizona.edu, 520-374-6225, 480-363-7185 (cell).

Dr. Randy R. Gaugler

Distinguished Professor, Department of Entomology, Center for Vector Biology.

Physical address: 180 Jones Avenue, Rutgers University, New Brunswick, NJ 08901-8536,

gaugler@sebs.rutgers.edu, 848-932-9341.

Dr. Michael Klein

Scientist (retired), USDA/ARS, & Associated Faculty, Ohio State University, Department of Entomology.

Physical address: 13416 Claremont Ave, Middleburg Heights, OH 44130, pestscarabs@aol.com, 330-465-6210 (cell).