

CURRICULUM VITAE

Gadi V. P. Reddy

Research Leader

USDA-ARS-Southern Insect Management Research Unit

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Personal History and Professional Experience

Educational background

Postdoctoral Fellow (1996), IACR-Rothamsted, Harpenden, United Kingdom. Dissertation title: Integration of sex pheromones and entomopathogenic fungi *Zoophthora radicans* for the control of diamondback moth, *Plutella xylostella*.

Ph.D. Agricultural Entomology (1991), Department of Entomology, University of Agricultural Sciences, Bangalore, India. Dissertation title: Studies with sex pheromones in the management of diamondback moth, *Plutella xylostella*.

M.S. Agricultural Entomology (1985), Department of Entomology, Annamalai University, Tamilnadu, India. Thesis title: Biology, damage potential and chemical control of the mite *Tetranychus ludeni* on four varieties of eggplant.

B.S. Agriculture (1982), College of Agriculture, Meerut University, Meerut, India.

Citizenship

United States of America

Professional and Leadership Development Training:

Graduate, Leadership for the 21st Century (LEAD21) Professional Development Program (University of Georgia Fanning Institute), Class X; 2014–15. LEAD21 is intended to meet the future needs for leadership development of team leaders, research station and center directors, district and regional directors, department heads and chairs, and others in land grant universities colleges of agricultural, environmental, and human sciences and USDA/NIFA. The primary purpose for LEAD21 is to develop leaders in land grant institutions and their strategic partners who link research, academics, and extension in order to lead more effectively in an increasingly complex environment, either in their current position or as they aspire to other positions.

Current interests

Administration: US Federal and Land-grant university governmental policy and programs affecting higher education, research and the public interest; higher education administration and leadership.

Research: Development of pest-management strategies, particularly synthetic pheromones and host volatiles for use in integrated pest management (IPM); behavioral and chemical ecology of multitrophic interactions (plant-insect/predatory-prey/host-parasitoid); management of invasive species; insecticide evaluation and its use in pest-management programs.

Teaching: Insect Pest management, biological control, behavioral and chemical ecology.

Extension: Assistance to agricultural producers in identifying pest problems and recommendation of environmentally sound, sustainable solutions. Close association with agricultural growers in the field also affords me the opportunity to identify and respond to research needs in my areas of expertise.

List of academic positions since final degree

- Research Leader (GS 15-8), USDA-ARS-Southern Insect Management Research Unit, Stoneville, MS (September 2019–present). Serves as Research Leader of the Southern Insect Management Unit (SIMRU) and is responsible for: 1) overall planning, leadership, and coordination of personnel and the diverse and complex research programs of the Unit; 2) management of assigned facilities; 3) communication of rules, regulations and policies to subordinates; 4) serving as spokesperson and primary contact for the Unit; and 5) conducting personal and team research in developing eco-friendly methods for insect pests in row crops.
- Professor [Tenured/promoted] – Head of Entomology/Ecology Program Unit, (65% research, 25% extension/outreach, 10% Service) (March 2017– August 2019). Western Triangle Ag Research Center, Montana State University, USA. Enhanced research and outreach activities on developing management practices for the insect pests of cereal, forage, pulse and oilseed crops and mentoring masters and doctoral students.
- Associate Professor (Entomology/Ecology) and Superintendent (65% research, 25% administration, 10% outreach/Service) (June 2012–March 2017), Administration including advocate for the research center and research and outreach programs on developing management practices for insect pests of cereal, forage, pulse and oilseed crops. Western Triangle Ag Research Center, Montana State University, USA.
- Associate Professor (Chemical Ecologist/Entomologist) (August 2011–May 2012), Western Pacific Tropical Research Center, University of Guam, USA. Developing chemical ecology methods for sweet potato weevil, biological control of invasive weeds and teaching “General Entomology” and “Ecology” courses to the undergraduate and graduate students.
- Assistant Professor (Chemical Ecologist/Entomologist) (July 2007–July 2011), Western Pacific Tropical Research Center, University of Guam, USA. Research focused on USDA and USEPA funded projects on the developing IPM programs for cabbage and eggplant. Program also incorporated identification of pest problems in farmers’ fields and providing suggestions for control methods.
- Research Scientist (contractual) (July 2002–June 2007), Western Pacific Tropical Research Center, University of Guam, USA. Research focused on USDA funded projects dealing with semiochemical-based pheromone trapping of the sugarcane weevil, banana borer, and household pests and biological control of insect pests (papaya and hibiscus mealy bugs, scales) and weeds, in addition to control of the ivy gourd and Siam weed.
- Visiting Scientist/Lise Meitner Scientist (April 2002–June 2002), Department of Evolutionary Biology, Institute of Zoology, University of Vienna, Vienna, Austria, under the Austrian Science Fund (FWF). Identified primer pheromones with a function in the regulation of reproduction in the primitively eusocial bumblebees.
- Visiting Scientist (July 2001–March 2002), Department of Ecology and Environmental Science, University of Kuopio, Finland, under special from the Academy of Finland. Evaluated the alterations of tritrophic signaling between cruciferous crop plants, insect herbivores (*P. xylostella* and *Spodoptera littoralis*), and their natural enemies (parasitoid *Cotesia plutellae* and spined soldier bug *Podisus maculiventris*) under stress caused by elevated atmospheric carbon dioxide concentrations.
- Visiting Scientist (July 1999–June 2001), Institute of Chemical and Environmental Research-CSIC, Barcelona, Spain. Research dealt with the inhibition of pheromone behavioral

responses in economically important maize borers, *Sesamia nonagrioides*, as well as in the polyphagous pest *S. littoralis* by trifluoromethyl ketones.

Humboldt Research Fellow (January 1998–June 1999), Institute of Animal Ecology-II, University of Bayreuth, Bayreuth, Germany, under the Alexander von Humboldt Fellowship. Work based on the chemical ecology of longhorned beetle, *Hylotrupes bajulus*.

Associate Professor of Entomology (October 1997–December 1997), Haramaya University (formerly Alemaya Agricultural University), Ethiopia, East Africa. Taught insect toxicology and pest management to graduate students under the UNDP program.

Assistant Professor of Entomology (April 1996–September 1997) (60% research, 10% teaching, 30% extension) and Acting Farm Superintendent and Campus Head (Administration), University of Agricultural Sciences, Hagari, India. Developed an IPM package for mites on eggplant.

Postdoctoral Investigator (March 1995–March 1996), Rothamsted Experimental Station, Harpenden, United Kingdom. Investigated the impact of infection by a fungal entomopathogen (*Zoophthora radicans*) on the behavioral responses associated with pheromone production and reception by the diamondback moth.

Assistant Professor of Entomology (February 1992–February 1995; 60% research, 10% teaching, 30% extension) and Acting Farm Superintendent and Campus Head (Administration), University of Agricultural Sciences, Hagari, India. Development of an IPM program for bollworms on cotton and diamondback moth on cabbage.

Other professional employment/training

Adjunct and Affiliate Professor, Department of Entomology, Louisiana State University, January 2020–present.

USAID/Winrock Farmer-to-Farmer Program (Assignment#NEP177), Use of Entomopathogens in Insect Pest Management, Entomology Division, National Agricultural Research Institute, Khumaltar, Lalitpur, NEPAL, October 25th – November 13th, 2014.

Certificate of Training, Excelling as a Manager or Supervisor, SkillsPath's Seminars, August 2013

Affiliate Associate Professor, Department of Land Resources and Environmental Sciences (LRES), Montana State University, February 2013–August 2019.

Technical Advisory Member, Shenzhen Bioglobal Agricultural Sciences Co. Ltd (China), September 2012–2019.

Director for the Western Pacific Biocontrol Quarantine Laboratory (WPBQL) at the University of Guam and interact with commodity producers and regulatory agency personnel in all import permits related issues, June 2006–May 2012.

Consultant to Guam's Department of Agriculture Forestry Protection Group. Advised on methods for maintaining healthy forest trees and established biocontrol agents for invasive plant species that suppress native plants, 2003–May 2012.

Technical Advisory Panel Member, BioGlobal Limited, Wacol, Qld 4076 (Australia), January 2010–May 2012.

Certified Senior Ecologist, Ecological Society of America, Washington, DC 20036, June, 2010–present.

Technical Advisor to Mr. Francisco Atalig, producer and project coordinator for the project "Neem Tree Production for Alternative Pesticides, Nematode Control and Fertilizers," Rota, Northern Mariana Islands. Farmer/Rancher Grant: FW07-001 was funded by Western SARE, 2007–2009.

Technical Skills

Collection of volatile compounds from plants and insects, Extraction and evaluation of the pheromone glands, Gas Chromatography-Mass Spectrometry, Gas Chromatograph - Flame Ionization Detector, Gas Chromatography - Electro-Antennographic Detection, High Performance Liquid Chromatography, solid-phase extraction, Electroantennogram, olfactometry, wind tunnel, insecticide testing, SPSS, SAS, NCSS, Statistica, programming, Microsoft Office, Adobe, Macromedia Fireworks, and Corel.

Honors, Recognitions, and Outstanding Achievements

2018 Entomological Society of America – Appreciation letter received from President for exemplary contributions to ESA.

2018 Outstanding Scientist Award by the Doctors Agricultural and Horticultural Development Society, Lucknow, India.

2014 The President's Volunteer Service Award by The Corporation for National and Community Service, Washington DC for recognition and appreciation to strengthen the nation and communities through volunteer service (given a number of scientific training programs in Nepal sponsored by USAID/Winrock International).

2010 Award for Excellence in Research by Western Association of Agricultural Experiment Station Directors, in recognition of Outstanding Contributions to Western Region Multistate Research.

Lise Meitner Fellowship (Austrian Science Fund, FWF) for 2002–03.

Competitive grants from the Academy of Finland for 2001–02.

Spanish International Fellowship for 1999–01.

Alexander von Humboldt Fellowship for 1998–99.

Rothamsted International Fellowship for 1995–96.

National "Crop Research Award-1997" for outstanding contributions in the field of vegetable entomology, by the National Agricultural Information Center.

List of Scientists ranked as excellent at the University of Guam for outstanding contributions.

Biological control program on ivy gourd; G. V. P. Reddy; cited at

<http://www.wptrc.org/article.asp?artID=35>.

University Merit Scholarship during doctoral study.

Grant Support

Extramural (As PI/Co-PI: \$4,760,626)

Busch Agricultural Resources, LLC, Low energy spray application irrigation system in Montana barley; FY 2019 \$50,000.

Montana Wheat & Barley Committee, Evaluation of the effectiveness of entomopathogens (fungus and nematodes), and trap crops for the management of wireworms on spring wheat, FY 2019; \$90,000.

Montana Wheat & Barley Committee, Wheat midge management, FY 2019; \$48,440.

Montana Wheat & Barley Committee Assessing agronomic practices to advance cereal production in Montana, FY 2019; \$35,000.

USDA-NIFA/Montana Specialty Crop Block Grant, G. V. P. Reddy (PI), Developing management strategies for pulse insect pest complex in Montana, 2018–2021; Award# 19SCG04712; \$106,662.

Busch Agricultural Resources, LLC, Low energy spray application irrigation system in Montana barley; FY 2018 \$22,640.

- Western Region SARE-USDA-NIFA, Professional Development Program (PDP). G. V. P. Reddy (PI), Pheromones as tools for monitoring the insect pests in the Northern Plains Instructive Tools for Agricultural Professional, 2018–2020; Award#2017-38640-26913; \$73,510. This was the highest rated excellent proposal received by the SARE administrative council for the year and funded at the full amount requested.
- Montana Wheat & Barley Committee, IPM of wheat stem sawfly and other insect pests of wheat, FY 2018; \$15,000 (As Co-PI \$15,000 received).
- Montana Wheat & Barley Committee, Evaluation of effectiveness of entomopathogens, reduced risk chemicals and trap crops for the management of wireworms on spring wheat, FY 2018; \$90,000.
- Montana Wheat & Barley Committee, Orange wheat blossom midge management, FY 2018; \$65,968 (As Co-PI \$32,984 received).
- Montana Wheat & Barley Committee, Assessing agronomic practices to advance cereal production in Montana, FY 2018; \$35,000.
- Busch Agricultural Resources, LLC, Low energy spray application irrigation system in Montana barley; FY 2017 \$34,778.
- Montana Wheat & Barley Committee, Orange wheat blossom midge management, FY 2017; \$100,000 (As Co-PI \$50,000 received).
- Montana Wheat & Barley Committee, IPM of wheat stem sawfly, FY 2017; \$278,000 (As Co-PI \$44,445 received).
- Montana Wheat & Barley Committee, Evaluation of effectiveness of entomopathogens, reduced risk chemicals and trap crops for the management of wireworms on spring wheat, FY 2017; \$90,000.
- Montana Wheat & Barley Committee, Assessing agronomic practices to advance cereal production in Montana, FY 2017; \$35,000.
- USDA- National Institute of Food and Agriculture (NIFA). G. V. P. Reddy (Co-PD), Montana State University's extension implementation plan for integrated pest management, 2016–2017; FY14 Crop protection and management, Award# 2014-70006-22554, \$8,910.
- USA Dry Pea and Lentil Council, New pest in Montana-Pea weevil: Determining weevil population distribution, abundance, and pea damage assessments, FY 2016-2017; \$26,183.
- Montana Wheat & Barley Committee, Evaluation of effectiveness of entomopathogens and trap crops for the management of wireworms (Coleoptera: Elateridae), FY 2016; \$45,201.
- Montana Wheat & Barley Committee, Implement wheat stem sawfly integrated pest management (IPM) strategies, FY 2016; \$164,128 (As Co-PI \$33,002 received).
- Montana Wheat & Barley Committee, Orange wheat blossom midge management, FY 2016; \$95,497 (As Co-PI \$41,352 received).
- Montana Wheat & Barley Committee, Assessing agronomic practices to advance cereal production in Montana, FY 2016; \$17,500.
- USDA-NIFA/Montana Specialty Crop Block Grant, G. V. P. Reddy (PI), Development of pheromone-based monitoring and mass trapping for pea leaf weevil in pulse crops, 2015–2018; Award#15SCBGPM0005; \$91,787.
- Western Region SARE-USDA-NIFA, Professional Development Program (PDP). G. V. P. Reddy (PI), Conservation and augmentative biological control in the northern plains-providing tools for agricultural professionals, 2015–2017; Award#2014-38640-22175; \$68,182.

- Montana Wheat & Barley Committee, Evaluation of effectiveness of entomopathogens and trap crops for the management of wireworms (Coleoptera: Elateridae), FY 2015-2016; \$60,000.
- Montana Wheat & Barley Committee, Integrated pest management of wheat stem sawfly, FY 2015-2016; \$292,796 (As Co-PI \$66,128 received).
- Montana Wheat & Barley Committee, Improving performance of wheat stem sawfly parasitoids, FY 2015-2016; \$61,037 (As Co-PI \$11,002 received).
- Montana Wheat & Barley Committee, Orange wheat blossom midge management, FY 2015-2016; \$98,374 (As co-PI \$15,329 received).
- Montana Wheat & Barley Committee, Biological control of orange wheat blossom midge, *Sitodiplosis mosellana* (Diptera: Cecidomyiidae), FY 2015-2016; \$40,000.
- Montana Wheat & Barley Committee, Determining the prevalence of the entomopathogenic fungus, *Beauveria* spp., in diapausing wheat stem sawfly (Second year), FY 2015-2016; \$40,994.
- Montana Wheat & Barley Committee, Assessing agronomic practices to advance cereal production in Montana, FY 2015-2016; \$35,000.
- Montana Wheat & Barley Committee, Trapping click beetles with pheromone traps (Coleoptera: Elateridae)-Second year, FY 2014-2015; \$64,900.
- Montana Wheat & Barley Committee, Implementation of wheat stem sawfly IPM, FY 2014-2015; \$272,581 (As Co-PI \$53,940 received).
- Montana Wheat & Barley Committee, Orange wheat blossom midge, FY 2014-2015, \$64,504 (As Co-PI \$15,204 received)
- Montana Wheat & Barley Committee, Determining the prevalence of the entomopathogenic fungus, *Beauveria* spp., in diapausing wheat stem sawfly, FY 2014-2015; \$40,994.
- Montana Wheat & Barley Committee, Parasitoids of the wheat stem sawfly: Augmentation, Impact & Education, FY 2014-2015; \$37,930 (As Co-PI \$2,600 received).
- Montana Wheat & Barley Committee, Evaluation of effectiveness of entomopathogens for the management of wireworms (Coleoptera: Elateridae) on spring wheat, FY 2014-2015; \$30,452.
- Montana Wheat & Barley Committee, Assessing agronomic practices to advance cereal production in Montana, FY 2014-2015; \$30,000.
- Montana Wheat & Barley Committee, Trapping click beetles with pheromone traps (Coleoptera: Elateridae)-First year, Award#W4604, FY 2013-2014; \$64,900.
- Montana Wheat & Barley Committee, Obtaining diesel pick-up for the survey work at the Triangle areas of Montana, Award#W4618, FY 2013-2014; \$35,000.
- Montana Wheat & Barley Committee, Evaluation of materials practices contributing to economic crop production in Montana, Award#4638, FY 2013-2014; \$30,000.
- Montana Wheat & Barley Committee, Expanded implantation of wheat stem sawfly IPM, Award# W4599, FY 2013-2014; \$210,000 (As Co-PI \$20,530 received).
- Montana Wheat & Barley Committee, Parasitoids of the wheat stem sawfly: Augmentation, Impact & Education, Award# W4616, FY 2013-2014; \$38,000 (As Co-PI \$2,600 received).
- Montana Wheat & Barley Committee, Orange wheat blossom midge management, Award#W4609, FY 2013-2014; \$50,604 (As Co-PI \$1,540 received).
- Montana Wheat & Barley Committee, Integrating multiple agronomic tactics for suppression of severe wheat stem sawfly infestations, Award#W4608, FY 2013-2014; \$52,500 (As Co-PI \$6,000 received).
- Montana Wheat & Barley Committee, Evaluation of various materials and practices contributing toward economic crop production, Award# W4146, 2012-2013; \$30,000.

- USDA- National Institute of Food and Agriculture (NIFA). G. V. P. Reddy (PD), Economic evaluation of sustainable mite and fruit borer management practices on tomato, 2012–2014; FY12 Pest Management Alternatives Program (PMAP), Award# 2012-34381-30732, \$187,920.
- USDA-Animal and Plant Health Inspection Service (APHIS). G. V. P. Reddy (PI), Biological control of Mile-a-minute (*Mikania micrantha*) in Guam, 2012–2013; FY12 CAPS Agreement# 12-8515-1537-CA; \$33,151.
- USDA-NRCS. G. V. P. Reddy (PD), Integration of pheromones and the fungal entomopathogens for the control of the sweetpotato weevil, *Cylas formicarius*, 2011–2014; CIG FY11 Agreement# 69-9251-11-902; \$75,000.
- USDA-Animal and Plant Health Inspection Service (APHIS). G. V. P. Reddy (PI), Introducing the predatory mite *Neoseiulus californicus* (Acari: Phytoseiidae) for the control of the phytophagous mites on Guam, 2011–2012; FY11 CAPS Agreement#11-8510-1302-CA; \$25,495.
- USDA-Western IPM Center. G. V. P. Reddy (PD), Developing an educational program on semiochemical-based IPM methods for weevil pests on Guam, 2011–2012; Award#51120-03885, \$10,000.
- USDA-NRCS. G. V. P. Reddy (PD), Development, implementation and economic evaluation of sustainable insect management approaches to control the mites on eggplant, 2010–2013; CIG FY10 Agreement#69-9251-10-880; \$75,000.
- USDA Forest Service. G. V. P. Reddy (PI), Development of monitoring tools for the cycad stem borer, *Dihammus marianarum* (Aurivillus) (Coleoptera: Cerambycidae), 2010–2011; Agreement #10-DG-11052021-246; \$20,000.
- USDA-Animal and Plant Health Inspection Service (APHIS). G. V. P. Reddy (PI), Surveillance of exotic phytophagous mites in Guam, 2010–2011; FY10 CAPS Agreement# 10-8510-1302-CA; \$11,730.
- USDA-Animal and Plant Health Inspection Service (APHIS). G. V. P. Reddy (PI), Introducing the biocontrol agent spined soldier bug (*Podisus maculiventris*) for the control of the cabbage cluster caterpillar (*Crociodolomia binotalis*), 2010–2011; FY10 CAPS Agreement# 10-8510-1353-CA; \$10,000.
- United States Environmental Protection Agency, 2009 Strategic Agriculture Initiative Food Quality Protection Act Grant Program, G. V. P. Reddy (PI); Studies on the interaction between the predatory mite and petroleum spray oil, and threshold levels for the control of invasive mites on eggplant, 2010–2011; FY09 Agreement#X8-00T32301; \$50,000.
- USDA-NRCS. G. V. P. Reddy (PD), Integrated control tactics for the New Guinea sugarcane weevil, 2009–2012; CIG FY09 Agreement#69-9251-9-822; \$75,000.
- Western Region SARE-USDA, Professional Development Program (PDP). G. V. P. Reddy (PI), Increasing ecological insect pest management on Guam through building agriculture professionals' understanding of semiochemicals, 2009–2011; Project #09-012; \$60,000. This was the highest rated proposal received by the SARE administrative council for the year and funded at the full amount requested.
- USDA Forest Service. G. V. P. Reddy (PI), Population assessment of *Chromolaena odorata* and evaluation of its natural enemies in Guam, 2009–2010; Agreement #09-DG-11052021-109; \$20,000.

- USDA-NRCS. G. V. P. Reddy (PD), Comparative effectiveness of an integrated pest management system for managing the insect pests on cabbage in Guam, 2008–2010; CIG FY 08 Agreement 69-9251-8-793; \$75,000.
- USDA Forest Service. G. V. P. Reddy (PI), Survey of invasive plant species in Guam, 2008–2011; Agreement #08-DG-11052021-315; \$20,000.
- USDA-Animal and Plant Health Inspection Service (APHIS). G. V. P. Reddy (PI), Biological control of *Mimosa (invisa) diplotricha*, 2007–2008; Agreement #07-08510-1053-CA; \$33,770.
- USDA Forest Service. G. V. P. Reddy (PI), Population assessment of *Lantana camara* and evaluation of its natural enemies in Guam, 2006–2007; Agreement #07-DG-11052021-219; \$25,000.
- USDA Tropical and Subtropical Agricultural Research. G. V. P. Reddy (PI) & R. Muniappan, Biological control of cycad aulacaspis scale in Guam, 2006–2009, Agreement #06-341356786; \$175,067.
- USDA-Animal and Plant Health Inspection Service (APHIS). G. V. P. Reddy (PI), Biological control of the sago palm scale, *Aulacaspis yasumatsui*, (this project was transferred from another individual who moved to different institution), 2006–2007; Agreement #06-08510-0983-CA; \$33,770.
- USDA Forest Service. G. V. P. Reddy (PI), Biological control of ivy gourd on Guam, 2005–2006; Agreement #06-DG-11052021-214; \$20,000.
- USDA Tropical and Subtropical Agricultural Research. G. V. P. Reddy (PI) & R. Muniappan, Bionomics of the chromolaena gallfly, *Cecidochoares connexa*, 2005–2008; Agreement #06-341356786; \$186,442.
- USDA Tropical and Subtropical Agricultural Research. G. V. P. Reddy (PI) & R. Muniappan, Biological control of pink hibiscus mealybug in the Mariana Islands, 2004–2007; Agreement #04-341356786; \$149,000.
- Cotton Corporation of India. G. V. P. Reddy (PI), Integrated pest management of cotton bollworms, 1992–1993; \$6000.
Intramural (\$477,642)
- Montana Agricultural Experiment Station (MAES) equipment grants, Flote-Tech organic particle soil flotation machine, \$5,800, FY-2014.
- Montana Agricultural Experiment Station (MAES) equipment grants, No-till research plot drill, \$40,000, FY-2013
- Montana Agricultural Experiment Station (MAES) equipment grants, Installation of A/C for the seed lab at WTARC, FY-2013 \$6,350
- Montana Agricultural Experiment Station (MAES) equipment grants, Wintersteiger classic (with equipment for harvesting cereal & rape seed, equipment proposals, \$98,292, FY-2012.
- Montana Agricultural Experiment Station (MAES) equipment grants, Harvest master grain gage monitor system, \$40,000, FY-2013
- Montana Agricultural Experiment Station (MAES) equipment grants, Autoclave and a plant growth chamber, \$26,200, FY-2013
- Hatch Project (USDA), Developing integrated pest management programs for insects in the western triangle agricultural area of Montana, \$7,000, FY2013–2016.
- Multistate-USDA (W3185) Project, Biocontrol of wheat stem saw fly *Cephus cinctus* (Hymenoptera: Cephidae), USDA- Multistate (W3185), \$22,000, FY2013–2017.

- Multistate-USDA (S1052) Project, Biological control of wheat stem saw fly *Cephus cinctus* (Hymenoptera: Cephidae) using entomopathogens, \$22,000, FY2013–2017.
University of Guam Agricultural Experiment Station (Hatch funds). G. V. P. Reddy,
Development of chemical ecology laboratory (GC-MS and GC-FID) at the University of
Guam, 2007, \$90,000.
- McIntire-Stennis, Survey and develop management practices for invasive plant species in Guam,
\$40,000, FY2009–2012.
- Hatch Project, Development of efficient semiochemical-based control methods for weevil pests
on Guam, \$40,000, FY2008–2012.
- Multistate (Regional) Project, Biological control in pest management systems of plants: W2185,
\$40,000, FY2009-2012.

PATENTS

- Jaronski, S. and **G.V.P. Reddy**. 2020. Compositions and Methods to Reduce the Population of
Wheat Stem Sawfly and Hessian Fly, US Patent No.10,531,666 B2, Date of Patent: January
14, 2020.

PUBLICATIONS

Journal Articles=182; *Edited Books/Proceedings/Special Issues*=5; *Chapters in
Books/Proceedings* =26; *Extension Brochures/Technical Reports*=20: **TOTAL=233**

Journal Articles:

2020

- (1) Zhao, Z., **G.V.P. Reddy**, L. Chen, Y. Qin, and Z. Li. 2020. The synergy between climate change and transportation activities drives the propagation of an invasive fruit fly in California. *Journal of Pest Science* 93: 615–625.
- (2) Gharaei, A.M., M. Ziaaddini, B. Frérot, S.N. Ebrahimi, M.A. Jalali, and **G.V.P. Reddy**. 2020. Identification and evaluation of four cucurbitaceous host plant volatiles attractive to *Diaphania indica* (Saunders) (Lep.: Pyralidae). *Chemoecology* 30: <https://doi.org/10.1007/s00049-020-00308-2>
- (3) Sandhi, R.K., R. Pothula, S.K. Pothula, B.J. Adams, and **G.V.P. Reddy**. 2020. First record of native entomopathogenic nematodes from Montana agroecosystems. *Journal of Nematology*, <https://doi.org/10.21307/j0fnem-2020-060>.
- (4) Zhu, Y.C., J. Caren, **G.V.P. Reddy**, W. Li, and J. Yao. 2020. Effect of age on insecticide susceptibility and enzymatic activities of three detoxification enzymes and one invertase in honey bee workers (*Apis mellifera*). *Comparative Biochemistry and Physiology, Part C*, in press.
- (5) Sandhi, R.K., D. Shapiro-Ilan, and **G.V.P. Reddy**. 2020. Montana Native Entomopathogenic Nematode Species against *Limonius californicus* (Coleoptera: Elateridae). *Journal of Economic Entomology*, in press.

- (6) He, J., **G.V.P. Reddy**, M. Liu, and P. Shi. 2020. A general formula for calculating surface area of the similarly shaped leaves: Evidence from six Magnoliaceae species. *Global Ecology and Conservation* 23, e01129.
- (7) Rezaei, M., A.A. Talebi, Y. Fathipour, J. Karimzadeh, M. Mehrabadi and **G.V.P. Reddy**. 2020. Effects of cold storage on the life history traits of *Aphidius matricariae* (Hymenoptera: Braconidae). *Entomologia Experimentalis et Applicata* 168: in press.
- (8) Guo, X., **G.V.P. Reddy**, J. He, J. Li, and P. Shi. 2020. Mean-variance relationships of leaf bilateral asymmetry for 35 species of plants and their implications. *Global Ecology and Conservation* 23: e01152.
- (9) Hiroyoshi, S., T. Mitsunaga, and **G.V.P. Reddy**. 2020. Temporal shift between daily sperm movement and mating (sperm reflux) in the Asian comma butterfly, *Polygonia c-aureum* L. (Lepidoptera: Nymphalidae). *Entomologia Experimentalis et Applicata* 168: in press.
- (10) Hiroyoshi, S., **G.V.P. Reddy**, and T. Mitsunaga. 2020. Effects of photoperiod and aging on the adult spermatogenesis of *Polygonia c-aureum* (Lepidoptera: Nymphalidae), in relation to adult diapause. *Journal of Comparative Physiology A* 206: 467–475.
- (11) Achhami, B.B., **G.V.P. Reddy**, J.D. Sherman, R.K.D. Peterson, and D.K. Weaver. 2020. Effect of precipitation and temperature on larval survival of *Cephus cinctus* (Hymenoptera: Cephidae) in barley cultivar. *Journal of Economic Entomology*, doi: 10.1093/jee/toaa097.
- (12) Wang, L., F. Gao, **G.V.P. Reddy**, Z. Zhao. 2020. Optimization of nitrogen fertilizer application enhances biocontrol function and net income. *Journal of Economic Entomology* 113: doi: 10.1093/jee/toaa112.
- (13) Fathipour, Y., B. Maleknia, A. Bagheri, M. Soufba, and **G.V.P. Reddy**. 2020. Functional and numerical responses, mutual interference, and resource switching of *Amblyseius swirskii* on two-spotted spider. *Biological Control* 146: 104266.
- (14) Kuriwada, T., R. Kawasaki, A. Kuwano and **G.V.P. Reddy**. 2020. Mate choice behavior of female field crickets is not affected by exposure to heterospecific calling songs. *Environmental Entomology* 49: 561–565.
- (15) Ghaemmaghani, E., Y. Fathipour, A. Bagheri, A.A. Talebi, and **G.V.P. Reddy**. 2020. Quality control of the parasitoid wasp *Trichogramma brassicae* (Hymenoptera: Trichogrammatidae) over 45 generations of rearing on *Sitotroga cerealella*. *Insect Science*, doi:10.1111/1744-7917.12757
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(20) Muniappan, R., K. Englberger, and **G.V.P. Reddy**. 2007. Biological control of *Chromolaena odorata* in the American Pacific Micronesian Islands. *In*: Proceedings of the Seventh International Workshop on Biological Control and Management of *Chromolaena odorata* and *Mikania micrantha* (eds. Lai, P.-Y., Reddy, G. V. P., and Muniappan, R.). National Pingtung University of Science and Technology, Taiwan, pp. 49–52.

(21) Muniappan, R., **G.V.P. Reddy**, and P.-Y. Lai. 2005. Distribution and biological control of *Chromolaena odorata*. *In*: Invasive Plants: Ecological and Agricultural Aspects (Editor: Inderjit, S.). Birkhäuser Verlag, Basel, Switzerland, pp. 223–233.

(22) Muniappan, R., K. Englberger, J. Bamba, and **G.V.P. Reddy**. 2004. Biological control of chromolaena in Micronesia. *In*: Chromolaena in the Asia-Pacific Region, Proceedings of the 6th International Workshop on Biological Control and Management of Chromolaena (eds. Day, M. D., and McFadyen, R. E.). ACIAR, Canberra, Australia, 55: 11–12.

(23) Urs, K. C. D., and **G.V.P. Reddy**. 1991. Mass trapping of American cockroach, *Periplaneta americana* L. (Blattidae: Dictyoptera) in synthetic pheromone trap. *In*: Biodeterioration of Cultural Property (Proceedings of the International Conference). Macmillan Publications, pp. 478–483.

(24) **Reddy, G. V. P.**, and K.C.D. Urs. 1991. Antifeedant and repellent activity of some indigenous plant extracts against the furniture beetle, *Sinoxylon sudanicum* Lesne (Coleoptera: Bostrychidae). *In*: Biodeterioration of Cultural Property (Proceedings of the International Conference). Macmillan Publications, pp. 173–185.

(25) Urs, K. C. D., and **G.V.P. Reddy**. 1990. Pesticide residues in food products and their control. *In: Progress in Pollution Research (Proceedings of the National Young Scientists Seminar on Environmental Pollution)*. University of Agricultural Sciences, Bangalore, pp. 272–276.

(26) **Reddy, G. V. P.**, G.M. Srilatha, and K.C.D. Urs. 1988. Toxic effects of certain plant products to the cotton aphid, *Aphis gossypii* Glover (Homoptera: Aphididae). *Bicovas (Proceedings of International Conference on Biological Control of Vectors with Predaceous Arthropods) 2*: 157–162.

Extension brochures/Technical Reports

(1) **Reddy, G.V.P.** 2019. Management of wireworms: present status. *In: Montana IPM Bulletin*, Spring 2019.

(2) Giroux, M., A. Hogg, P. Carr, J. Eberly, C. Chen, C. Kowatch, D. Boss, P. Lamb, K.D. Kephart, V. Smith, **G.V.P. Reddy**, J.H. Miller, and L. Dykes. 2019. 2018 Statewide Durum Variety Trials. *Montana Agric. Exper. Station Bul.*, 40p.

(3) Beauzay, P.B., S.D. Eigenbride, J.J. Knodel, T. J. Prochaska, **G.V.P. Reddy**, A.J. Varenhorst, O.M. Wagner and K.W. Wanner. 2018. Pulse Crop Insect Diagnostic Series: Field Pea, Lentil and Chickpea. NDSU Extension Service, 13 cards.

(4) Heo, H.Y., N. Blake, R.N. Stougaard, K.D. Kephart, J. Eberly, P. Carr, S. Briar, J. H. Miller, **G.V.P. Reddy**, P. Lamb, C. Chen, D. Nash, and L.E. Talbert. 2018. 2017 Spring Wheat Variety Performance Summary in Montana (2017 data). *Montana Agric. Exper. Station Bul. Jan. 2018*. (accessed 8 Jan 2018), 16p.

(5) Giroux, M., A. Hogg, P. Carr, J. Eberly, C. Chen, D. Boss, P. Lamb, K.D. Kephart, **G.V.P. Reddy**, J.H. Miller, C. Cook, and L. Dykes. 2018. 2017 Statewide Durum Variety Trials. *Montana Agric. Exper. Station Bul. Jan. 2017*. (accessed 22 Jan 2018), 41p.

(6) Sherman, J., L. Elmore, H. Turner, P. Carr, J. Eberly, R. Stougaard, C. Chen, D. Gettel, K. Kephart, D. Boss, P. Lamb, Z. Miller, M. Knox, H. David, **G.V.P. Reddy**, J.H. Miller. 2017. Spring Barley Variety Performance. *Montana Agric. Exper. Station Bul. Jan. 2017*. (accessed 10 Jan, 2018), 30p.

(7) Berg, J. E., P. L. Bruckner, B. Bohannon, S. Briar, P. Carr, C. Chen, D. Boss, P. Lamb, K. D. Kephart, P. Lamb, A. T. Link, J. H. Miller, G. Pradhan, **G.V.P. Reddy**, R.N. Stougaard, D.M. Wichman, A. Dyer, D. Holen, D. Nash, and H. Rimel. 2017. 2017 Winter Wheat Varieties. Performance evaluation and recommendations. (2016 data). *Montana Agric. Exper. Station Bul. 2B-1093 rev. Jan. 2017*. (accessed 10 Feb 2017), 30p.

(8) Heo, H.Y., N. Blake, R.N. Stougaard, K.D. Kephart, D.M. Wichman, P. Carr, S. Briar, J. Miller, **G.V.P. Reddy**, P. Lamb, J. Eckhoff, C. Chen, D. Nash, and L.E. Talbert. 2017. 2017

Spring Wheat Variety Performance Summary in Montana (2016 data). Montana Agric. Exper. Station Bul. Jan. 2017. (accessed 8 Jan 2017), 15p.

(9) Giroux, M., A. Hogg, D. Wichman, C. Chen, P. Lamb, **G.V.P. Reddy**, C. Cook, G. Pradhan, A. Link, and L. Dykes. 2017. 2016 Statewide Durum Variety Trials. Montana Agric. Exper. Station Bul. Jan. 2017. (accessed 22 Jan 2017), 41p.

(10) Bohannon, B., R.N. Stougaard, C. Chen, Y. Mohammed, P. Lamb, A. Sebelius, K. Kephart, K. Maxwell, **G.V.P. Reddy**, J.H. Miller. 2017. Montana Statewide Spring Canola Variety Trial, 2016. Montana Agric. Exper. Station Bul. Jan. 2017., 18p.

(11) Berg, J. E., P. L. Bruckner, G.W. Bergman, B. Bohannon, S. Briar, C. Chen, K. D. Kephart, P. Lamb, J. H. Miller, G. Pradhan, **G.V.P. Reddy**, A. Sebelius, R.N. Stougaard, D.M. Wichman, A. Dyer, W. Grey, D. Nash, and R. Larson. 2016. 2016 Winter Wheat Varieties. Performance evaluation and recommendations. (2015 data). Montana Agric. Exper. Station Bul. 2B-1093 rev. Jan. 2016. <http://plantsciences.montana.edu/crops/> (accessed 8 Jan 2016).

(12) Bohannon, B., R.N. Stougaard, C. Chen, Y. Mohammed, P. Lamb, A. Sebelius, K. Kephart, K. Maxwell, **G.V.P. Reddy**, J.H. Miller. 2015. Montana Statewide Spring Canola Variety Trial, Montana State University, Montana Agricultural Experiment Station, 18p.

(13) **Reddy, G.V.P.** 2015. Sustainable management strategies for control of flea beetles. In: *Montana IPM Bulletin*, Spring 2015.

(14) Berg J. E., P. L. Bruckner, G.W. Bergman, B. Bohannon, J. Eckhoff, K. D. Kephart, P. Lamb, K. Maxwell, J. H. Miller, G. Pradhan, **G.V.P. Reddy**, A. Sebelius, R.N. Stougaard, D.M. Wichman, A. Dyer, W. Grey, D. Nash, and R. Larson. 2015. 2015 Winter Wheat Varieties. Performance evaluation and recommendations. (2014 data). Montana Agric. Exper. Station Bul. 2B-1093 rev. Feb. 2015. <http://plantsciences.montana.edu/cqlab/crops/index.html> (accessed 26 Feb, 2015).

(15) Bohannon, B., R.N. Stougaard, Y. Mohammed, J. Eckhoff, B. Garza, P. Lamb, A. Sebelius, K. Kephart, K. Maxwell, **G.V.P. Reddy**, and J.H. Miller. 2014. Montana Statewide Spring Canola Variety Trial, Montana State University, Montana Agricultural Experiment Station, 24p.

(16) Talbert, L., H.-Y. Heo, N. Blake, D. Wichman, J. Eckhoff, K. Kephart, A. Dyer, R. Stougaard, D. Nash, J. Miller, P. Lamb, B. Grey, R. Larson, and **G.V.P. Reddy**. 2014. Performance evaluation and recommendations for spring wheat. Montana Agric. Experimental Station Bulletin, 2B-1093, <http://plantsciences.montana.edu/crops/>, DOI: 10.13140/2.1.3806.1441.

(17) Berg, J. E., P. L. Bruckner, G.W. Bergman, B. Bohannon, B. Deanon, J. Eckhoff, K. D. Kephart, P. Lamb, J. H. Miller, C. Penuel, M. Peterson-Walter, **G.V.P. Reddy**, R.N. Stougaard, D.M. Wichman, A. Dyer, W. Grey, D. Nash, and R. Larson. 2014. Winter Wheat Varieties. Performance evaluation and recommendations. Montana Agric. Experimental Station Bulletin, 2B-1093, <http://plantsciences.montana.edu/crops/>, DOI: 10.13140/2.1.3544.0001

- (18) Stougaard, R., B. Bohannon, D. Picard, **G.V.P. Reddy**, L. Talbert, K. Wanner, and D. K. Weaver. 2014. Orange Wheat Blossom Midge, MontGuide, Montana State University, 8p.
- (19) **Reddy, G. V. P.** 2011. Semiochemical-based Trapping Methods for Weevil Pests on Guam, Western Pacific Tropical Research Center, University of Guam, 19p.
- (20) **Reddy, G. V. P.** 2009. Integrated Pest Management VS Traditional Spraying for Managing the Insect Pests on Cabbage, Western Pacific Tropical Research Center, University of Guam, 2p.

Most Important Scholarly Accomplishments

1. Successful biological control of the papaya mealybug *Paracoccus marginatus* (Homoptera: Pseudococcidae) was achieved in Guam, the Republic of Palau, and CNMI by introduction of three biocontrol agents from Puerto Rico, 2003–2007.
2. Successfully obtained USDA-APHIS import permits after conducting host specificity tests, EA, and FONSI to import *Cecidochares connexa* from Indonesia into Guam and the Northern Mariana Islands for biological control of the invasive weed *Chromolaena odorata*, 2002–2004.
3. Successfully obtained USDA-APHIS permit to import *Coccobius fulvus* from Florida into Guam for the biological control of *Aulacaspis yasumatsui*, 2005.
4. Successfully obtained USDA-APHIS import permits after conducting host specificity tests, EA, and FONSI to import three agents—*Acythopeus cocciniae*, *Acythopeus burkhartorum*, and *Melittia oedipus*, in that order—from Hawaii into Guam and the Northern Mariana Islands for biological control of the invasive weed *Coccinia grandis* in 2003. Establishment of *A. cocciniae* and *M. oedipus* was achieved at both locations, in 2003–2004 and 2006–2007.
5. Efficiently obtained USDA-APHIS import permit, after preparing EA and FONSI to import *Heteropsylla spinulosa* from Pohnpei and Palau into Guam and Northern Marianas Islands for biological control of the invasive weed *Mimosa (invisa) diplotricha*, in 2007–2008. *H. spinulosa* was successfully released into the field on Guam and Saipan and is being maintained in laboratory culture at the University of Guam (WPBQL) and Northern Marianas College, Saipan, May 2008.
6. Developed semiochemical-based trapping methods for *Rhabdoscelus obscurus* (Coleoptera: Curculionidae) and *Cosmopolites sordidus* (Coleoptera: Curculionidae), 2007–2011.
7. Was responsible for garnering new money (\$90,000) to purchase Gas Chromatography-Mass Spectrometry and Gas Chromatograph - Flame Ionization Detector, which have been badly needed for the college and ongoing research projects at the University of Guam. The equipment has already been installed and is in operation, 2008.
8. Identified for the first time the top 20 invasive weeds in Guam and developed management practices for them.
9. Optimized and implemented an integrated pest management program for cabbage on Guam.
10. Edited and published a multi-authored book in 2009 “*Biological Control of Tropical Weeds using Arthropods*” Cambridge University Press, Cambridge, UK.
11. Acquired USDA-APHIS import permit, after preparing EA and FONSI to import rust fungus *Puccinia spegazzinii* De Toni (Basidiomycetes: Uredinales) from Fiji and Papua New Guinea into Guam and Northern Marianas Islands for biological control of the invasive weed *Mikania micrantha* (mile-a-minute, bittervine), in 2010–2012.

12. Attained USDA-APHIS international permit to import the parasitoid *Macroglenes penetrans* from Alberta (Canada) for the control orange wheat blossom midge (*Sitodiplosis mosellana*), 2014–2017.
13. Obtained USDA-APHIS international permit to import the parasitoids *Euxestonotus error* and *Platygaster tuberosula* from Saskatchewan (Canada) to Montana, USA for the control orange wheat blossom midge (*Sitodiplosis mosellana*), 2015–2018.
14. Edited and published a multi-authored book in 2017 “Integrated Management of Insect Pests on Canola and Other *Brassica* Oilseed Crops. CAB International, Wallingford, UK, 408p. This is the first compiled book on Insect Management of *Brassica* oilseed crops.
15. Edited a Special Issue on “Pulse Insect Pests and Their Management for *Annals of the ESA*; nine chapters, Issue 4 (July), 2018. Received an appreciation letter from the President, ESA and Editor-in-Chief for leadership, determination and exemplary contributions to ESA.

Meetings Organized (20)

1. The Professional Development Program (PDP) of the USDA-Western SARE workshop on Pheromones as Tools for Monitoring Crop Insect Pests in the Northern Plains - Instructive Tools for Agricultural Professionals, (35 participants attended), Holiday Inn, Great Falls, MT, March 07–08, 2019.
2. Chair and Organizer, W4185: 2018 Annual Meeting, Biological Control in Pest Management Systems of Plants, (attended 60 participants), Whitefish, MT, October 10–12, 2018.
3. Co-organizer, UArctic Congress: on the “Agricultural structures in Arctic regions: present functions, limitations and solutions for future sustainable connectivity in Arctic regions”, (attended 40 participants), Helsinki, Finland, September 07, 2018.
4. Field Day (attended more than 150 participants) and Summer Conference, MSU Western Triangle Ag Research Center, Conrad, MT, June 26-27, 2018.
5. Organizer, Symposium on the “Role of Trap and Cover Crops in IPM”, (60 participants), Ninth International IPM Symposium, Baltimore, MD, March 19–22, 2018.
6. Organizer, Member symposium on the “Pulse Insect Pests and Their Management”, (40 participants), Annual meeting of the Entomological Society of America, Denver, CO, November 05–08, 2017.
7. Field Day (attended 150 participants), MSU Western Triangle Ag Research Center, Conrad, MT, June 23, 2016.
8. The Professional Development Program (PDP) of the USDA-Western SARE workshop on biological control in the northern plains: providing tools for agriculture professionals, (50 participants attended), Best Western Plus Heritage Inn, Great Falls, MT, March 01–02, 2016.
9. Field Day (attended 110 participants), MSU Western Triangle Ag Research Center, Conrad, MT, July 17, 2015.
10. Chair, Symposium on the application of entomopathogenic nematodes in IPM, Eighth International Integrated Pest Management Symposium, Salt Lake City, Utah, USA, March 23–26, 2015.
11. Coordinator, Agronomy College-Basic Entomology Course (20 participants), MSU-Western Triangle Ag Research Center, Conrad, MT, February 04, 2015.
12. Organizer, Training Program (16 participants) Life tables: Theory, data analysis and application, MSU-Western Triangle Ag Research Center, Conrad, MT, November 21–23, 2014.

13. Organizer, a barbeque field day (attended 50 participants) at the Western Triangle Ag Research Center, Conrad, MT. Effectively interacted with Montana State Legislatures, Mr. Roy Hollingsworth, Mr. Llew Jones, Mr. Robert Laas, Mr. David Brownell, Mr. Kurt Dyer and Mr. Rob Cook regarding the long range building plans at the research center, September 16, 2014.
14. Organizer, Member symposium on the canola insect pests and their management, 61st Annual meeting of the Entomological Society of America, Austin, TX, November 10–13, 2013.
15. Field Day (attended 170 participants), MSU Western Triangle Ag Research Center, Conrad, MT, July 10, 2013.
16. Chair, Symposium on the semiochemicals in IPM, Seventh International Integrated Pest Management Symposium, Memphis, Tennessee, March 27–29, 2012.
17. Presider for the “Behavior” session, Ecological Society of America Meeting, Austin, TX, August 7–12, 2011.
18. The Professional Development Program (PDP) of the USDA-WSARE workshop on “Semiochemicals”, (30 participants), Western Pacific Tropical Research Center, University of Guam, February 16, 2011.
19. The Seventh International Workshop entitled “Biological control and management of *Chromolaena odorata* and *Mikania micrantha*,” National Pintung University of Science and Technology, Taiwan, September 12–15, 2006.
20. Organizing Secretary for the "National Young Scientists' Seminar on Environmental Pollution," held at the University of Agricultural Sciences, Bangalore, India, August 1989.

Courses/Chapters Taught and Students Advised

<i>Year</i>	<i>Fall</i>	<i>Spring</i>
1996–1997	Insect Pest Management	
1997–1998	Insect Toxicology	
2001–2002	Chemical Ecology of Wood Borers	Behavioral and Chemical Ecology
2002–2003	Insect Pest Management	Behavioral and Chemical Ecology
2004–2005	Behavioral and Chemical Ecology	
2005–2006	Insect Pest Management	
2006–2007	Behavior and Chemical Ecology	
2007–2008	Insect Pest Management	
2009–2010	Insect Pest Management	
2011–2012	General Entomology (AG/BI 345)	
2011–2012	Ecology (EV510)	
Sept–2018	Pollinators within IPM Strategies for Agriculture (Lectured for Ph.D students under The Nordic Forestry, Veterinary and Agricultural University Network (NOVA) program in Finland). The course included pre-course assignments for one month prior to the course. Student credits for the course amount to 3 European Credit Transfer System (ECTS), comprising of 22 hours of lectures, 15 hours of lab and field work, 8 hours of seminars, and 45 hours of independent work	

Personnel Supervision

MSU-WTARC, Thirteen personnel and 13–15/year summer interns (06/01/2012– present)
 USDA-ARS, Two personnel summer interns (2020– present)

Kelnisha Westbrook (01/2020– present)
 Chris Johnson, Biological Science Technician (01/2020– present)
 Ms. Rama Gadi, Research Associate (09/2016– present)
 Ms. Debra Miller, Research Assistant-III (12/2015– present)
 Ms. Amber Ferda, Research Associate (01/2015–12/2016)
 Robert Camat Mendi, Research Assistant-I (01/2012–05/2012)
 Christopher Roger Mann, Research Associate-I (11/2011–05/2012)
 David M.H. Mantanona, Research Associate-I (10/2011–05/2012)
 Jenelyn E. Remolona, Research Assistant-II (09/2009–05/2012)
 Raymond Gumataotao, Field Technician (06/2002–05/2012)
 Gabriel McNassar, Research Assistant-III (01/2011–02/2012)
 Chandra Legdesog, Research Associate-I (08/2011–12/2011)
 Jae Heung Abando, Research Assistant-I (07/2011–12/2011)
 LouAnna Manibusan, Research Assistant-II (11/2010–09/2011)
 Ashley X. Thundiyl, Research Aide (07/2011–08/2011)
 Rosalie Kikuchi, Research Assistant-III (09/2009–06/2011)
 Nicole Kim Reyes (09/2010–12/01/2011)
 Mary Rose Canlas (06/2010–01/2011)
 Nakita Braganza, Research Assistant-I (05/2005–07/2010)
 Fritz M. Naz, Research Assistant-II (04/2008–08/2009)
 Zerlene T. Cruz, Research Assistant-III (06/2002–06/2009)
 Jesse P. Bamba, Research Assistant-III (06/2002–02/2005)

Graduate students mentored

Pragma Kiju, M.S. Student (2019–present): Developing management strategies for pulse insect pest complex in Montana.
 Ramandeep Kaur Sandhi, Ph. D. student (2017–present): Use of entomopathogenic nematodes for the management of wireworms.
 Miriel Otero, Ph. D. student (2017–present): Studies on the pheromones of click beetles.
 Buddhi Achhami, Ph. D. student (2016–present): Assess the variation in resistance of wheat stem sawfly to barley cultivars.
 Ramawatar Yadav, Ph.D. student (2016–present): Integrated strategies for herbicide resistance management in dryland and irrigated cropping systems of Montana.
 Ashish Adhikari, M.S. student (2015–2016): Trap crops for the management of wireworms on spring wheat.
 Zerlene T. Cruz, M.S. Student (2005–2007): Biology and ecology of the gall fly, *Cecidochoares connexa* (Diptera: Tephritidae)
 Jesse P. Bamba, M.S. Student (2006–2008): Studies on the biology and host range of *Acythopeus cocciniae*, a biocontrol agent for *Coccinia grandis*.

Supervision of Postdoctoral Fellows

Dr. Olabimpe Okosun (2020–present): Pollinators on row crops.
 Dr. Moukaram Tertuliano (2020–present): IPM of row crops.
 Dr. Anamika Sharma (2017–present): Biological control of wireworms.
 Dr. Shabeg Briar (2017–2018): IPM of canola insect pests.
 Dr. Govinda Shrestha (2016–2018): Biological control of wheat midge.
 Dr. Scott L. Portman (2015–2016): Entomopathogens on wheat stem sawfly.
 Dr. Frank Antwi (2015–2017): Canola insect pests/wireworm entomopathogens.

- Dr. Sindhu Krishnankutty (2014–2015): Entomopathogens on wheat stem sawfly.
- Dr. Brian Thompson (2014–2015): Development of pest management programs for wireworms, wheat stem sawfly and flea beetles.
- Dr. Shaohui Wu (2013–2014): Entomopathogenic fungi and nematodes for wheat stem sawfly and wireworm research.
- Dr. Khanobporn Tangtrakulwanich (2013–2014): Wheat stem sawfly and wireworm research.
- Dr. Christy J. Leppanen (2012–2013): Biological control of weeds–*Mikania micrantha*.
- Dr. Carsten Thoms (2004–2007): Chemical ecology research. (Feodor Lynen Fellowship (Alexander von Humboldt-Stiftung), Germany).

Committee Membership

- Member, Department of Research Centers Promotion & Tenure Committee, Montana State University (2017–present).
- Working Group Member, Pest Management Strategic Plan (PMSP) for Pulse Crops, 2016–present.
- Member, Research and Competitive Grants Committee, Weed Science Society of America, 2012–present.
- Member, International Steering Committee, International Conference on Biotechnology, Food and Bioengineering -Emerging Trends and Future Prospects (ICBFBE), February 26–27, 2010, Indian Institute of Crop Processing Technology (IICPT).
- Member of the Technical Committee for W-2185 Biological Control in Pest Management Systems of Plants
- State Technical Committee Member, USDA-Natural Resources Conservation Service-Pacific Islands Area

Other Contributions to Instructional Programs

- Weed Science Society of America’s Research and Competitive Grants committee, 2013–2016.
- Mentor to Mason Kearny, North Toole County High School, Sunburst, MT, research on “The Attractant of *Tribolium confusum* to Pheromones and Colors” Ecology Project with an International Award, July 2012–March 2013.
- Member, Undergraduate Curriculum Review Committee (UCRC), University of Guam, April 2011–May 2012.
- Associate Member of the Environmental Science Program, University of Guam, January 2011–May 2012.
- Senate Appointed Member to the BA Chemistry Program Review Team, University of Guam, February 2011–present.
- Mentor (NIH/NIDDK Summer Mentorship Program) to Anthony J. Taianao, Southern High School, Santa Rita, Guam, June –August 2011.
- Mentor to Peter Leng, St. John’s School, Guam, Guam, research on “Evaluation of essential oils against sweet potato weevil,” Agricultural Development in the American Pacific (ADAP) 2009 summer Research Apprenticeship Program, July–August 2011.
- Mentor to Daniel Creppel, St. Thomas Catholic High School, Guam, research on “Use of the fungal pathogen *Beauveria bassiana* against New Guinea Sugarcane weevil,” Ritsumeikan Super Science fair in Kyoto, Japan, April–August 2011.
- Mentor to Anran Li, St. John’s School, Guam, research on “Developing an attractant for mass trapping the invasive coconut Rhinoceros beetle.” Third place grand award winner under “Environment Management” at the International Science and Engineering Fair, San Jose, CA, May 2010.

- Mentor to Justine Denusta, Ryan Raguidin, Melody Kamigaki, St. Thomas Catholic High School, Guam, research work on “The development of environmental friendly control methods for boring bug” presented at the Japan Science Fair, 2009.
- Mentor to Stephanie Balakrishnan, Harvest Christian Academy, Guam, research on “The interaction of visual and olfactory cues in New Guinea Sugarcane weevil,” Agricultural Development in the American Pacific (ADAP) Summer Research Apprenticeship Program, 2009.
- Mentor to High School student and National Society of High School Scholars member, Shruti Nagarajan, research on “Integrated control of the banana root borer,” Summer High School Apprentice, 2008.
- Mentor to Ryan Santos, Southern High School, Guam, research work on “Biological control of ivy gourd,” Agricultural Development in the American Pacific (ADAP) Summer Research Apprenticeship Program, 2007.
- Mentor to Intel High School student and National Society of High School Scholars member Neeraj Nagarajan, research on “Integrated pest management system to control the New Guinea sugarcane weevil.” 4th place grand award winner at the International Science and Engineering Fair and NASA Summer High School Apprentice, May 2005.
- Lecturer, Insect Chemical Ecology, Fall 2005, 2007.
- Lecturer, Biological Control of Insect and Plant Pests, Spring 2005.
- Lab presentation, Chemical Ecology of Wood Borers, Spring 2002.

Professional Service

Editorships

- Editorial Board Member, *Nature Scientific Reports*, 2017–present
- Academic Editor, *PLoS ONE*, 2015–present
- Special Features Editor, *Annals of the Entomological Society of America*, June 2017–present
- Editorial Board Member, *Journal of Farm Science*, May 2019–present
- Subject Editor, *Annals of the Entomological Society of America*, January 2008–May 2017
- Associate Editor, *Florida Entomologist*, 2005–June 2016
- Co-Editor, *Florida Entomologist*, July 2016–present
- Subject Editor, *Environmental Entomology*, 2008–2017
- Editorial Member, *Journal of Biofertilizers & Biopesticides*, 2011–2013

Memberships

- American Association for the Advancement of Science, 2020–present
- Asia-Pacific Association of Chemical Ecologists, 2009–present
- Biological Control in Pest Management Systems of Plants: W3185, 2009–present
- Ecological Society of America, 2009–present
- Entomological Society of America, 2005–present
- Florida Entomological Society, 2006–present
- International Association for the Plant Protection Sciences, 2006–present
- International Organization for Biological Control of Noxious Animals and Plants, 2012–present
- International Society of Chemical Ecology, 2005–present
- International Working Group for Diamondback Moth, 2000–present
- Sigma Xi, The Scientific Research Society, 2010–present
- Systematic and Applied Acarology Society, 2002–present
- The Weed Science Society of Japan (WSSJ), 2010–present

Weed Science Society of America (WSSA), 2010–present

Service to Disciplinary and Professional Societies or Associations

Convener, Food Chain Entomology Section, XXVI International Congress of Entomology, Helsinki, Finland, July 19–24, 2020.

Invited Advice-giver to the Entomology program at University of Guam, Guam, July 21–August 03, 2013.

Invited Expert to the Plant Protection Institute, Guangxi Academy of Agricultural Sciences, Guangxi and Shenzhen Bioglobal Agricultural Sciences (China), April 04–17, 2013.

Invited Advisor to review the Entomology work at University of Guam, Guam, February 25–March 01, 2013.

Invited Expert to the Chemical Ecology and Pest Management Group at Guangdong Academy of Agricultural Sciences, Guangzhou (China), October 07–10, 2012.

Judge for the Science Fair, St. Thomas Aquinas Catholic High School, Guam, January 26, 2012.

Judge for the three oral and two posters presentations at Ecological Society of America, Austin, TX, August 07–12, 2011.

Judge for the Science Fair, F.B. Leon Guerrero Middle School, Guam, April 07, 2011.

Judge for the Science Fair, St. Thomas Aquinas Catholic High School, Guam, January 21, 2011.

Judge for the Science Fair, F.B. Leon Guerrero Middle School, Guam, April 16, 2009.

Judge for the Science Fair, St. John's School, Tumon Bay, Guam, February 19, 2009.

Judge for Science Fair, St. Thomas Aquinas Catholic High School, Ordot, Guam, December 18, 2008.

Judge for Science Fair, St. John's School, Tumon Bay, Guam, February 14, 2008.

Judge for Science Fair (Career Day), George Washington High School, Mangilao, Guam, May 2006.

Judge for Science Fair, Ocean View Middle School, Agat, Guam, April 2005.

Judge for Science Fair, Harvest Christian Academy, Barrigada, Guam, May 2004.

Reviews

Journal manuscripts (N = 40): *African Entomologist, Agriculturae Conspectus Scientificus, Agricultural and Forest Entomology, Annals of the Entomological Society of America, Arthropod-Plant Interactions, Biocontrol Science and Technology, Biological Invasions, Crop Protection, Entomologia Experimentalis et Applicata, Environmental Entomology, Florida Entomologist, Entomological News, Flavour and Fragrance Journal, Fruits, International Journal of Pest Management, Journal of Entomological and Acarological Research, Journal of Apicultural Research, Journal of Chemical Ecology, Journal of Economic Entomology, Journal of Evolutionary Biology, Journal of Insect Science, Journal of Pest Science, Physiological Entomology, Micronesica, Microscopy Research and Technique, Naturwissenschaften, Pan-Pacific Entomology, Pest Management Science, Phytochemistry, Phytoparasitica, Plant Protection Quarterly, Scientia Horticulturae and The Scientific World.*

Grant/Book proposals Reviewed

Reviewer, Borlaug fellowships, Office of International Research Programs. USDA-ARS, April 2020.

Site Visit Committee Member, Industrial Research Chair position, The Natural Sciences and Engineering Research Council of Canada, University of Alberta, December 08–09, 2019.

Reviewer for the book proposal on Advances in Bio-inoculant Sciences (Biopesticides), Elsevier, November 2019.

- External Reviewer, Alberta Agriculture and Forestry, Canada, Biological control of lygus plant bugs in established and emerging crops, September 2019.
- Internal Reviewer, Promotion and Tenure, Department of Research Centers, Montana State University, August 2019.
- External Reviewer, Promotion and Tenure, Department of Entomology, University of Georgia, April 2019.
- External Reviewer, Israel Ministry of Science and Technology, Israel-Italy Program, Robotic platform for ecological monitoring of insect population, March 2019.
- Reviewer, Hatch proposal on the Determining ecological interactions influencing effective management of critical pest conditions in Idaho cereals and potato, Idaho Agricultural Research Station (IAES), University of Idaho, February 2019.
- Reviewer, MAES Hatch proposal on the Using research to facilitate production of anti-oxidant rich berries and small fruits in the northern Rockies, Western Agricultural Research Center, Montana State University, February 2019.
- Reviewer, MAES Hatch proposal on the Microbial solutions for sustainable agroecosystems, Central Agricultural Research Center, Montana State University, January 2018.
- Reviewer for the book proposal on Field Crop Arthropod Pests of Economic Importance from P.A. Edde published by Elsevier, October 2019.
- External Reviewer, Alberta Wheat and Barley Commission, Calgary (Canada), Beneficial insects in Prairie Crops: quantifying the value and vulnerability of biological pest control, September 2018.
- External Reviewer, Promotion and Tenure, Department of Entomology, University of Florida, May 2018.
- Reviewer for the book proposal on Insect Pest Management (Third edition) from D. Dent and R. Binks” published by CABI, United Kingdom, May 2018.
- External Reviewer, Promotion and Tenure, Tropical Research and Education Center, University of Florida, May 2018.
- Ad-hoc Reviewer, USDA-NIFA-Small Business Innovation Research (SBIR) program, Phase II, March, 2018.
- External Reviewer, Agriculture and Agri-Food Canada, Integrating multiple beneficial management practices (BMPs) in an organic cropping system: Soil health, weed and insect interactions, February 6, 2018.
- Reviewer, MAES Hatch proposal on the Microbial solutions for sustainable agroecosystems, Central Agricultural Research Center, Montana State University, January 2018.
- Panel Member, 2017-USDA-NIFA-Pest and Beneficial Species (ECO) in Ag Production Systems, December 04–07, 2017.
- External Reviewer, Promotion and Tenure, Department of Entomology, Plant Pathology and Nematology, University of Idaho, June 2018.
- External Reviewer, Promotion and Tenure, Department of Plant Pathology, North Dakota State University, September 2017.
- Reviewer, MAES Hatch proposal on the Application of molecular tools for IPM of insect pests, Plant Science and Plant Pathology, Montana State University, August 2017.
- External Reviewer, The Canadian Horticultural Council/Potato Industry Coordination, Generate and evaluate IPM tools for wireworm control in Canada, August 2017.
- Internal Reviewer, Promotion and Tenure, Department of Plant Science and Plant Pathology, Montana State University, August 2017.

External Reviewer, Canola Council of Canada, Biological control of cabbage seedpod weevil in the prairies, June 2017.

External Reviewer, Promotion and Tenure, Department of Horticulture, Oregon State University, July 2016.

Reviewer, Pest Management Strategic Plan for Pulse Crops (Chickpeas, Lentils, and Dry Peas) in the United States, 91p.

External Reviewer, Agriculture and Agri-Food Canada, New Tools for Integrated Pest Management of Orange Wheat Blossom Midge, January 28, 2016.

Reviewer for the book proposal on “The World of Mealybugs” by Springer Science Business Media, January 2015.

International Cooperation Panel Member, project titled “Host adaption in the *Trips tabaci* species complex”, The National Innovation Office (NKFIH) - Hungary, November 09, 2015.

Specialty Crop Block Grant proposals, Montana Department of Agriculture, 6 proposals reviewed, May 2015.

Specialty Crop Block Grant proposals, Montana Department of Agriculture, 6 proposals reviewed, June 2014.

Strategic Environmental Research and Development Program (SERDP), 2014.

Western Region SARE-Research and Education Grant proposals, 2010.

California Department of Food and Agriculture, and University of California Pierce’s Disease Research Grant program, 2009.

Thesis Evaluation:

- 1) External Examiner for the Ph.D. thesis titled “Agro-ecological management of the wheat bug, *Nysius huttoni* (Hemiptera: Lygaeidae) and other pests in brassicas”, submitted by S. Tiwari to the Lincoln University, New Zealand, July 2019.
- 2) External Examiner for the Ph.D. thesis titled “Ethology, biology and diversity of lycaenid (Lepidoptera: Glossata) butterflies of Tamil Nadu”, submitted by B. Kanagaraj to The Annamalai University, Tamil Nadu, India, June 2019.
- 3) External Examiner for the Ph.D. thesis titled “Studies on the bioefficacy of *Pseudomonas fluorescens* against key insect pests on cotton, *Gossypium* spp”, submitted by T.R. Manjula to The Gandhigram Rural Institute, Tamilnadu, India, May 2019.
- 4) External Examiner for the Ph.D. thesis titled “Survival of diamondback moth eggs and neonates: the effects of rainfall”, submitted by M. M. Rahman to the The University of Queensland, Australia, April 2019.
- 5) External Examiner for the Ph.D. thesis titled “Biological Activity of Secondary metabolites of *Alpinia galanga* against *Spodoptera litura*”, submitted by Rahul Dutta to the Guru Nanak Dev University, India, October 2018.
- 6) External Examiner for the Ph.D. thesis titled “Exploration of *Tetrastigma sulcatum* for anti-fungal properties”, submitted by R.J. Waghole to the University of Pune, India, March 2016.
- 7) External Examiner for the M.S., Thesis titled “Developing an attractant for monitoring fruit-feeding moths in citrus orchards”, submitted by Mathew Keith Goddard to the Rhodes University, South Africa, February 2016;
- 8) External Examiner for the Ph.D. thesis titled “Polymorphism and ecotype variation in Indian honeybee species *Apis cerana*”, submitted by R.R. Gaikwad to the University of Pune, India, January 2015.

- 9) Examiner for the Ph.D. dissertation titled “Biology and ecology of *Nisotra basselae* (Bryant) on *Abelmoschus manihot* Medicus in Solomon Islands”, submitted by Mr. Maclean Vaqalo to the University of Queensland, Australia, June 2014.
- 10) External Examiner for the Ph.D. thesis titled “Aspects of the biology, thermal physiology and nutritional ecology of *Pareuchaetes insulata* (Lepidoptera: Arctiidae), a specialist herbivore introduced into South Africa for the biological control of *Chromolaena odorata* (Asteracea)”, submitted by Osariyekemwen Uyi to the Rhodes University, South Africa, December 2014.
- 11) External Examiner for the Ph.D. dissertation titled “Investigations on the status of some phytochemicals in *Saccarum* spp. and allied genera showing resistance/ susceptibility to the sugarcane internode borer, *Chilo sacchariphagus indicus*”, submitted by Mr. J. Karthikeyan to the Bharathiar University, India, June 2007.

Public Service (137)

1. Presenter, Mississippi Agricultural Consultants Association, Delta Research and Extension Center, Stoneville, MS, 30 participants attended, September 27, 2019.
2. Speaker, given talk on wireworms and wheat midge research information to the Glacier County Growers Field Day, Glacier County Conservation District, Cut Bank, MT, 15 participants attended, July 17, 2019.
3. Speaker, Research work done on wheat stem sawfly, wheat midge and wireworms, 20 participants attended, Field Day, Knees, MT, June 09, 2019.
4. Presenter, Bugs of Montana, STEAM Challenge program, Youth Services at the Great Falls Public Library, 25 students attended, June 21, 2019.
5. Presenter, Havre Middle School Seventh Grade STEM day, MSU-Northern Agricultural Research Center, Havre. 120 members attended, May 29, 2019.
6. Speaker, Annual Crop and Pest Management School, Bozeman, MT - Small grains crops. 70 attendees attended, January 14-16, 2019.
7. Presenter, Pulse insect pests, Members of the Agricultural Advisory Council Meeting, Fort Benton, MT, 15 attendees attended, November 05, 2018.
8. Presenter, Bugs of Montana, STEAM Challenge program, Youth Services at the Great Falls Public Library, 20 students attended, June 14, 2018.
9. Speaker, Research work done on wheat stem sawfly and wheat midge, 23 participants attended, Field Day, Knees, MT, June 06, 2018.
10. Presenter, Annual STEM Field Day, Bio-control of Montana Pests, Northern Agricultural Research Center, Havre, MT, 140 participants attended, May 01, 2018.
11. Presenter, Toole County Extension, Shelby, MT, 15 participants attended, February 12, 2018.
12. Speaker, Association of Montana Aerial Applicators, AMAA Convention, January 23, 2018.
13. Judge, Sigma Xi, Students Research Conference, The Scientific Research Honor Society, Raleigh Convention Center, Raleigh, NC, November 11, 2017.
14. Montana Ag Alerts, High level of cereal leaf beetle incidence in Choteau, MT, June 12, 2017, <http://www.mtagalert.org/>
15. Speaker, Wheat stem sawfly. Knees Area Field Day, 23 participants attended, June 07, 2017.
16. Speaker, Biological Control of Montana Pests, Northern Ag Research Center Ag Technology and Science Tour, Havre, MT, 140 students attended, May 26, 2017.
17. Presenter, Good and Bad Bugs, Elementary School Children, Youth Services at the Great Falls Public Library, 30 students attended, May 24, 2017.
18. Speaker, 2017 Spring Pest Update, Broadwater County Extension, April 06, 2017.

19. Speaker, Pulse Insect Pests and Their Management, 120 participants attended, Hill County Pulse Meeting, Havre, MT, January 13, 2017.
20. Speaker, Cropping seminars, Shelby, MT, Integrated Pest Management Updates in the Golden Triangle Areas of Montana, 40 participants attended, January 10, 2017.
21. Attended and given feedback during the Pulse Crop Pest Management Strategic Planning Workshop, Bozeman, MT, 35 participants attended, November 09–10, 2016.
22. Presenter, Western Triangle Ag Research Center-Insect and crop updates, (organized by Harvey Hollandsworth Enterprises), Knees School, 25 participants attended, Montana, March 10, 2016.
23. Given talk on the entomology research work at Western Triangle Ag Research Center to the Glacier County Growers Field Day, Glacier County Conservation District, Cut Bank, MT, 30 participants attended, July 28, 2015.
24. Presenter, Knees area field day, 25 participants attended, June 25, 2015.
25. Presenter, Alternative Crop Entomology Program, Kremlin, MT, 35 participants attended, June 23, 2015.
26. Montana Ag Alerts, Canola Flea Beetle Damaging Canola, June 10, 2015, <http://www.mtagalert.org/>
27. Given talks on Developing Integrated Pest Management Program for insect in the Golden Triangle Agricultural Areas of Montana during “2015 Golden Triangle Cropping Seminars” at different locations in Montana (Fort Benton, Chester, Shelby, Cut Bank, Conrad, Chouteau, Great Falls, and Stanford) January 12–15, 2015.
28. Exhibitor (MSU), MGGGA Annual Convention and Trade Show, Great Falls, MT, December 02–04, 2014
29. Speaker, Insect pest problems on cereal and canola crops, Growers meeting, Cut Bank, MT, July 01, 2014
30. Speaker (Orange wheat blossom midge biological control update) at the Solo Grower meeting, Valier, MT, March 27, 2014.
31. Speaker (Integrated control methods for wheat stem sawfly and wireworms) at the Crop and Pest Management School, Montana State University, January 03, 2014.
32. Radio interview with Dan Picard given on the Updates on WTARC, KSEN Radio, September 27, 2013.
33. Consulting provided to Mr. Bob Hurley, Liberty County, MT, regarding Wheat stem sawfly and Hessian fly, August 14, 2013.
34. Speaker at the Bjelland cover crop/WTARC site, Conrad, MT, August 13, 2013.
35. Montana Ag Alerts, Added Insect Pest on Canola in Montana? July 07, 2013, <http://www.mtagalert.org/>
36. Speaker (Wireworm Worries in Wheat and Pea Production Problems-The Pea Leaf Weevil) at the Northwest Agricultural Research Center Field Day, July 11, 2013.
37. Organized Pesticide Recertification Applicator Course, Montana Dept. of Ag training course (#13-410), 2013 Western Triangle Ag Res Center Field Day, July 10, 2013.
38. Montana Ag Alerts, High Incidence of Orange Wheat Blossom Midge in Pondera and Flathead Counties, MT, July 01, 2013, <http://www.mtagalert.org/>
39. Presenter, Midge problem in Pondera country, sponsored by Solo-Air, Valier, MT, July 02, 2013.
40. Advisor, Scouting Crops for Insects and Disease, Agriculture Agent Update, Northern Agricultural Research Center, Havre, Montana, June 27, 2013.

41. Speaker at the Sheridan County Crop Counting Field Day, Plentywood, MT, June 12, 2013.
42. Presenter to the 7–12th graders at The Career Day in the Dutton/Brady School and Lincoln School, April 25, 2013.
43. Invited guest lecture during the 2013 Triangle Cropping Seminar, Pondera Shooting Sports Club, Conrad, MT, January 16, 2013.
44. Invited Speaker, Brown Bag Seminar, USDA-ARS, Sidney, December 15, 2012.
45. Speaker at the Lethbridge Research Center, Canada, November 28, 2012.
46. Speaker at the Conrad Area of Commerce, Conrad, Montana, July 11, 2012.
47. Presenter to the Upward Bound's Summer School Program on Guam Invasive Insect Pests and Their Management, Upward Bound Program, University of Guam, June 27, 2011.
48. Presenter to the Sixth Graders on Guam Invasive Insect Pests, Harvest Christian Academy, Barrigada, Guam, March 14, 2011.
49. Presenter to High School Students on How to Accomplish Successful Science Projects, Saint Francis Catholic School, Yona, Guam, February 24, 2011.
50. Presenter on the major invasive weeds in Guam and its control methods, Guam Department of Agriculture, Mangilao, GU, February 16, 2010.
51. Organized a field day and presentation on IPM vs. traditional insecticidal sprays on cabbage to farmers from Guam and CNMI, University of Guam's Agricultural Experiment Station, November 25, 2009.
52. Presentation on current NRCS projects and its impact on the farming community, USDA-NRCS Field House, Barrigada, Guam, November 05, 2009.
53. Presentation on the control of cabbage pests using neem-based pesticides for the Farmer Rancher Program, Northern Marianas College, Rota, March 17, 2009.
54. Presentation on spider and broad mites problem on eggplant and tomato, Northern Marianas College, Saipan, MP, November 12, 2008.
55. Presentation on Monitoring and Identification of Key Pests found in Guam, Farmer's day, Mangilao, Guam, June 2008.
56. Provision of a workshop and presentation on neem tree production for alternative pesticides, nematode control, and use of fertilizers to farmers, growers, and extension personnel at the Northern Marianas College in Rota, CNMI, in collaboration with the Northern Marianas, Saipan, Mr. Frank Atalig (Rota) and Dr. Jack Tenorio (Saipan), May 2008.
57. Presentation on release of *Melittia oedipus* for biocontrol of ivy gourd in Guam to the farmers and extension personnel at the Guam Department of Agriculture, Mangilao, GU, August 2007.
58. Presentation on release of *Melittia oedipus* for the control of ivy gourd in Saipan, Extension Personnel, Northern Marianas College, Saipan, CNMI, June 2007.
59. Presentation on development of mite IPM on eggplant in Mariana Islands, Guam Department of Agriculture, Mangilao, GU, April 2007.
60. Presentation on biological control of papaya mealybugs, Farmer's day, Agricultural Experiment Station, University of Guam, Mangilao, GU, February 2007.
61. Presentation on neem pesticide as a potential alternative to chemical-based pesticides, Cooperative Extension Service, University of Guam, Mangilao, GU, 2007.
62. Presentation on invasive exotic wood-boring insects, Guam Department of Agriculture, Mangilao, GU, January 2007.
63. Demonstration of release methods for biocontrol agents of the pink hibiscus mealybug to the Guam Department of Agriculture and local farmers, Mangilao, GU, November 2006.

64. Presentation on the management of insect pests attacking cruciferous crops, Extension Unit Northern Marianas College, Rota, CNMI, September 2006.
65. Presentation on the role of neem-based pesticides for the control of insect pests on vegetable crops, Extension Unit, Northern Marianas College, Tinian, CNMI, August 2006.
66. Presentation on attract-and-kill method for the fruit-piercing moths, Guam Department of Agriculture, Mangilao, GU, May 2006.
67. Presentation on fruit-piercing moths and their management in the Pacific, Farmers in Rota, Tinian, and Saipan, CNMI, March 2006.
68. Presentation on stored-product pests and their management in Guam, Guam Community College, Mangilao, GU, April 2006.
69. Presentation on mites as pests on vegetable and fruit crops, Northern Marianas College, Saipan, CNMI, February 2006.
70. Presentation on important invasive arthropods pests occurring in Guam and their management, Guam Department of Agriculture, Mangilao, GU, January 2006.
71. Collaboration with Mr. Frank Atalig, local farmer of Rota, CNMI, regarding identification of pest problems occurring in cabbage fields. Identification of pest as diamondback moth and suggestion of neem-based chemical spray followed by Dipel, December 2005.
72. Exploration trip to Kona, Hawaii, for collection of biocontrol agent *Melittia oedipus* to develop cultures and make releases in Guam for control of ivy gourd; collaboration with officials from Hawaii Department of Agriculture, Kona, HI, September 2005.
73. Survey for pink hibiscus mealybug in Rota, Tinian, and Saipan (CNMI); collaboration with Northern Marianas College personnel to identify the mealybug problems and discussion of possibilities for future importation of parasitoids from Puerto Rico, June 2005.
74. Monitoring for pest problems on ornamentals at the Leo Palace Resort (Guam); identification of heavy infestation of aphids and mealybugs on certain ornamental plants and provision of suggestions for possible control methods to nursery staff and management, June 2005.
75. Consultation for Mr. Gaby Guerrero (Dededo, GU), Mr. Bernard Watson, and Mr. Ernie Wusstig (Yigo, GU) regarding pest surveys on Guam farmlands; surveys included collection of insects on bittermelon, eggplant, cucumber, tomato, corn, papaya, bananas, and beans; periodic surveys conducted to assist local farmers with pest management programs, April 2005.
76. Presentation on insect vectors and their management in Micronesia made to local farmers, Cooperative Extension Service, University of Guam, Mangilao, GU, March 2005.
77. Survey for sugarcane weevil damage in Hawaii (Honolulu, Maui, Hilo, and Kona) and collection of biocontrol agents of *Lixophaga spenophori* and *Melittia oedipus* to develop cultures for release on Guam; interaction with plant growers on the problems associated with damage caused by sugarcane weevil, November 2004.
78. Survey for insect pests on various ornamental plants at ISLA Garden, Tamuning, Guam; provision of plant-protection guidelines to Mr. Mike Gonzales, site manager, and Mr. Philip Hill, assistant manager, discussion of programs to include weekly visits and suggestion to monitor and combat pest problems, August 2004.
79. Consultant to Mr. and Mrs. Joe Okada from Yigo, Guam, upon request to identify pests occurring on their ornamental plants; recommendation to use bio-pesticide spray NeemAzal EC (1.2% Azadirachtin) on crops to control insect damage; follow-up visits showed improvement in overall plant health and growth, July 2004.

80. Consultation for Mr. Villoria (cattle farmer from Toto, GU) upon request to suppress the invasive weed *Chromolaena odorata*; provision of two selective herbivorous insects, *Cecidochares connexa* and *Pareuchaetes pseudoinsulata*, to the farmer for culture and release at the farm site as biocontrol agents, May 2004.
81. Consultation for Mr. Joe Barcinas (Malessa, GU) concerning the high mortality of mature beetle nut palms; diagnosis indicating that the trees were infected with the fungus *Phytophthora palmivora*; treatment program set up by Guam's Plant Protection Quarantine (PPQ) service to help in eradication of the fungus-infected plants, May 2004.
82. Consultation for Mr. Felix Quan (commercial farmer from Yigo, GU) upon request to assess problems occurring on copra/coconut trees; demonstration of and encouragement to use semiochemical-based trapping method for the sugarcane weevil, *Rhabdocelus obscurus*, on his farm to help eradicate weevil population, March 2004.
83. Collaboration with Mangilao Golf Course staff and management regarding the biological control of fruit-piercing moth; presentation of research results from this project to local farmers, December 2003.
84. Provision of technical expertise regarding practice of semiochemical trap method for the sugarcane weevil to Guam commercial businesses, viz., Landscape Management Services (LMS) (Tumon), Hamamoto Fruit World (Yona), and Bob's Nursery (Dededo), to collaborate with farmers and homeowners of Guam, August 2003.
85. Collaboration with the local farmers of Palau, plant protection officer Mr. Fred. Sengebau (Bureau of Agriculture, Palau), and Mr. Konrad Englberger (Secretariat of the South Pacific Community) to help control the papaya mealybug population by means of biocontrol agents, March 2003.
86. Consultation for to Mr. and Mrs. Torres of Yigo, GU, upon their request to identify pest problems occurring on various crops; identification of pests as shoot and fruit borer on eggplant and spider mites on pepper and eggplant; recommendations to spray malathion on eggplant and dicofol (Kelthane) for control of spider mites, January 2003.
87. Presentation on the importance of bees for the pollination of natural flora and the management of natural floral resources to students/staff, University of Vienna, Austria, December 2002.
88. Consultation for local farmers regarding biological control of papaya mealybugs in Guam; work with Mr. Gaby Guerrero, Mr. Frank Cruz, and Mr. Bernard Watson to assess the damage caused by papaya mealybugs on their farms; release of parasitoids, *Anagyrus loeckii*, *Pseudleptomastix mexicana*, and *Acerophagous papayae*, to control the mealybugs. This work was done in collaboration with Dr. Dale Meyerdirk and Mr. Richard Workentin from USDA-APHIS, June 2002.
89. Visit to commercial business owner Edward Pangelinan (Ipan, GU) to make him aware of the alien invasive weed *Coccinia grandis* spreading throughout most of his cultivated land; notification to him that biocontrol agents such as *Melittia oedipus*, *Acythopeus cocciniae*, and *A. burkhartorum* would be released on Guam to help alleviate the problem, February 2002.
90. Presentation on pheromone glands and pheromone production in insects made to students, University of Kuopio, Finland. August 2001.
91. Presentation on pheromone communication in woodborers and how to control them made to staff members, University of Kuopio, Finland, November 2001.
92. Presentation on indoor pests and their control made to technical staff, University of Kuopio, Finland, December, 2001.

93. Presentation on how host plants affect the behavior of the natural enemies of insect herbivores made to technical staff, University of Kuopio, Finland, December 2001.
94. Presentation on pheromone trap designs and their use in IPM made to technical staff, Institute of Chemical and Environmental Research (CSIC), Barcelona, Spain, September 2000.
95. Presentation on control of woodborers in houses by means of pheromone traps and semiochemical-based control methods, University of Bayreuth, Germany, July 1999.
96. Presentation on management of borer pests on corn/maize made to technical staff, Institute of Chemical and Environmental Research (CSIC), Barcelona, Spain, February 1999.
97. Presentation on use of pheromone traps in integrated pest management made to technical staff, Institute of Animal Ecology-II, University of Bayreuth, Germany, October 1998.
98. Presentation on managing pest problems on cruciferous crops made to technical staff, Institute of Animal Ecology, University of Bayreuth, Germany, March 1998.
99. Presentation on inundative release of a predator, *Chrysoperla carnea*, to suppress diamondback moth population in cole crops made to technical staff, Department of Agriculture, Karnataka State, India, August 1997.
100. Inoculative releases of *Trichogramma chilonis* and *T. achaea* for suppression of lepidopterous pests in vegetable crops, Growers Day, Agricultural Research Station, Hagari, October 1997.
101. Presentation on sorghum insect management made to farmers, hosted by Rallies Pesticides Ltd, Agricultural Research Station, Hagari, September 1997.
102. Presentation on protecting crops and homes against termites made to farmers, ARS/KVK training course, Agricultural Research Station, Hagari, April 1997.
103. Presentation on mass trapping technique for diamondback moth, Sandoz Research Group, Agricultural Research Station, Hagari, December 1996.
104. Presentation on field corn/maize integrated pest management, ARS/KVK farmers training program, Agricultural Research Station, Hagari, September 1996.
105. Presentation on managing thrips and viruses on tomatoes made to farmers, hosted by Bayer AG Ltd., August 1996.
106. Presentation on understanding insect ecology and improving pest management, ARS/KVK farmers training program, Agricultural Research Station, Hagari, June 1996.
107. Presentation on managing pests on cucurbit crops, farmers' training course, Karnataka State Department of Agriculture, March 1996.
108. Presentation on low-input production of broccoli, Cruciferous Growers Association, India, September 1995.
109. Presentation on insect pest management on vegetable crops (three day course), agricultural extension officers, Karnataka, India, August 1995.
110. Presentation on controlling leaf miners in peas made to local farmers, Farmers' Day, Karnataka, India, July 1995.
111. Presentation on soybean insect management made to farming community, sponsored by Bayer AG Ltd., Agricultural Research Station, Hagari, April 1995.
112. Presentation on integrated pest management of spider mites on eggplant, Farmers' Information Day, Agricultural Research Station, Hagari, December 1994.
113. Presentation on insect and mite management in vegetable crops (tomato, okra, and pepper), farmers' training course, Agricultural Research Station, Hagari, October 1994.

114. Presentation on postharvest technology made to greenhouse producers, hosted by National Organics Chemicals Industries Limited (NOCIL), September 1994.
115. Presentation on controlling major stem and bud borers in Karnataka, Farmers' Day, Karnataka, India, August 1994.
116. Presentation on insect recognition and management (how to save crops from pests), hosted by Bayer AG Ltd., Farmers' Day, Agricultural Research Station, Hagari, July 1994.
117. Presentation on farm-laborer IPM scout training program, Growers Association Committee Members, Agricultural Research Station, Hagari, April 1994.
118. Presentation on management of shoot fly on sorghum made to sorghum growers, Bellary, Karnataka, India, February 1994.
119. Presentation on managing potato tuber moth on potato, farmers' training course, hosted by Gharuda Chemicals, Agricultural Research Station, Hagari, January 1994.
120. Presentation on use of pheromone traps to control diamondback moth, Cabbage Cooperative Growers, Agricultural Research Station, Hagari, December 1993.
121. Provision of posters on using Vegetable Environmental Guide (VEG) to reduce impacts of insecticide and fungicide applications, Agrochemical Company Representative Group for Environmental Coding of Pesticides, September 1993.
122. Presentation on integrated pest management of bollworms in cotton based on pheromone trap catch threshold level, Cotton Growers Association, August 1993.
123. Presentation on thresholds for cruciferous crops: when do I need to spray? Table Top Growers, August 1993.
124. Presentation on thrips, aphids, and diamondback moth on cruciferous crops, Table Top Growers presentation, Agricultural Research Station, Hagari, July 1993.
125. Preparation and dissemination of an IPM newsletter, for monthly circulation to vegetable growers, April 1993.
126. Presentation on using IPM in high-quality vegetable production-green peas, tomatoes, eggplant, and sweet potatoes-pest and disease management training course provided to technical staff, Department of Agriculture, February 1993.
127. Presentation on controlling pests (basic recognition and what to do) to farming community, Ciba-Geigy Research Group, January 1993.
128. Provision of training on and demonstrations of termite control to farmers, ARS training course, January 1993.
129. Presentation on integrated control of aphids on wheat made to farmers, hosted by Ciba-Geigy, Agricultural Research Station, Hagari, December 1992.
130. Presentation on integrated pest management for cabbage, Cruciferous Growers Association Day, September 1992.
131. Provision of general recommendations for controlling insects in Karnataka, radio talk show (two), Calling All Farmers Broadcast, August 1992.
132. Presentation on fumigation methods to control storage insect pests made to farming community, Farmers' Day, Agricultural Research Station, Hagari, July 1992.
133. Presentation on insecticide resistance in cotton bollworms (future problems and plans), Cotton bollworm management meeting, June 1992.
134. Presentation on using scouting and thresholds to reduce insecticide use in vegetables, Table Top Growers, April 1992.

135. Presentation on increase of trap catches by a combination of pheromone lure and plant volatile in diamondback moth made to technical staff and farmers, farmers training center, Agricultural Research Station, Hagari, March 1992.
136. Presentation on how to use insecticides safely, ARS Farmers training course, University of Agricultural Sciences, February 1992.
137. Presentation on integrated pest management for tomatoes, Tomato Growers Association Information Day, Agricultural Research Station, Hagari, February 1992.

Media coverage of research (140)

1. New Ag International: Pest-fighting fungi granted patent for biocontrol. June/July 2020.
2. The Prairie Star: Former MSU researchers discover biocontrol agent. March 27, 2020.
3. Independent Observer: MSU's Conrad Research Center discovers unique fungi that may combat wheat stem sawfly and hessian fly. March 12, 2020.
4. MSU News Service: MSU research on pest-fighting fungi granted patent for biocontrol. March 02, 2020.
5. ARS in the News: New Stoneville Research Leader is now patent holder, January 2020.
6. Traders Dispatch: A potential tool to manage wireworms in wheat and barley. August 2019.
7. Traders Dispatch: Tackling issues of the pulse insect pest complex in the Golden Triangle Region. June 2019.
8. The Prairie Star: Tools for monitoring: Pheromones improve efficiency of pest traps. May 06, 2019.
9. The Prairie Star: Solar, pitfall traps capture pests in fields. May 06, 2019.
10. Traders Dispatch: Fungus for managing wireworms on spring wheat in Golden Triangle region of Montana. May 2019.
11. Montana Ag Network: Agricultural benefits of the snow and cold. April 15, 2019.
12. Traders Dispatch: Montana Agricultural professionals receive training. April 2019.
13. KR TV: Face the State recaps just how brutal this winter was, March 31, 2019.
14. Traders Dispatch: Trap and cover cropping role in pest management. March 2019.
15. Traders Dispatch: 2018 Montana durum variety trials. March 2019.
16. The Prairie Star: Grant: Developing management strategies for pulse insect pests. February 14, 2019.
17. The Prairie Star: Pulse Pests: Southern cowpea weevil new pest on pulse crops. February 14, 2019.
18. Traders Dispatch: Efficacy of bio-pesticides for managing flea beetles on canola. February 2019.
19. Traders Dispatch: Grant awarded to develop management strategies for pulse insect pest complex. January 2019.
20. Traders Dispatch: Survey and monitoring of wheat head armyworm by using pheromone traps. December 2018.
21. Traders Dispatch: Valuable information shared at regional biological control meeting held in Montana. November 2018.
22. Traders Dispatch: Trap crops for cereal crops in Montana: where are we heading? November 2018.
23. Independent Observer: Biological control in plant pest management systems annual meeting. November 01, 2018.
24. Traders Dispatch: Southern cowpea weevil appears as new pest on pulse crops. October 2018.

25. Traders Dispatch: Can we immunize the plants for defense against wheat stem sawfly attack? September 2018.
26. Traders Dispatch: WTARC Farmers Field Day. August 2018.
27. Prairie Star: Western Triangle hosts several MSU breeders, crop researchers at field days. July 26, 2018.
28. EurekaAlert: New research collection targets insect pests of pulse crops. July 24, 2018.
29. Traders Dispatch: A focused effort to manage wireworms in the Golden Triangle Area of Montana. July 2018.
30. Glacier County Conservation District: Annual Crop Tour. July 11, 2018.
31. Traders Dispatch: Tips to protect wheat midge parasitic wasps from insecticide spray. June 2018.
32. The Prairie Star: What treatments best control economically-damaging canola insect pests? June 8, 2018.
33. Independent Observer: "The Montana Department of Natural Resources and Conservation staff visits WTARC". May 17, 2018.
34. Traders Dispatch: Alfalfa blotch leafminer: A new serious threat to alfalfa crop in Montana? May 2018.
35. Traders Dispatch: Pea weevil. May 2018.
36. Traders Dispatch: 2018 Knees area field day. May 2018.
37. Traders Dispatch: Reoccurrence of new pest - pea weevil in Montana. April 2018.
38. Traders Dispatch: Grant awarded to implement professional development program in pheromones. April 2018.
39. Traders Dispatch: Impact of herbicide overuse on insect pests and their natural enemies in no-till farming. March 2018.
40. Traders Dispatch: Irrigated spring wheat fields favor wheat midge and its parasitic wasp. March 2018.
41. Traders Dispatch: Plant parasitic nematodes: A threat to crop production in Montana. March 2018.
42. Traders Dispatch: Spring wheat variety performance summary in Montana. March 2018.
43. Montana Ag Alerts: Reoccurrence of new pest - pea weevil in Montana. January 16, 2018.
44. Traders Dispatch: Crucifer flea beetle and cabbage seedpod weevil incidence affected canola grain yield and quality. January 2018.
45. Traders Dispatch: Insect pathogenic (Insect killing) nematodes for the management of wireworms. January 2018.
46. Traders Dispatch: Pulse entomology experts exchange ideas. December 2017.
47. Traders Dispatch: Biological control in pest management systems of plants meeting, November 2017.
48. Current Science: Integrated management of insect pests on canola and other *Brassica* oilseed crops, Gadi V. P. Reddy (ed.)", September 25, 2017.
49. Traders Dispatch: Pheromone lures as monitoring tools for wheat head armyworm. September 2017.
50. Independent Observer: Conrad ARC to host 2018 Western Regional meeting. August 24, 2017.
51. Independent Observer: Professors from Finland visit MSU research center in Conrad. July 20, 2017.
52. Traders Dispatch: Developing management strategies for the pulse insect pest. July 2017.

53. Montana Ag Alerts: Wheat head armyworm damage predicted in Golden Triangle areas. June 27, 2017.
54. Farm & Ranch Guide: Cooperators join WTARC in fighting canola pests, saving pollinators. June 22, 2017.
55. The Prairie Star: Canola pest management project starts with optimizing N. June 22, 2017.
56. Montana Ag Alerts: Flea beetles and diamondback moth incidence reported on mustard. June 22, 2017.
57. Independent Observer: Research center providing employment opportunities for high school students. June 15, 2017.
58. Traders Dispatch: Training program on biological control. June 2017.
59. Traders Dispatch: Management of wireworms using new insect pathogenic strains. June 2017.
60. The Prairie Star: Helping the plant help itself resist the sawfly. May 26, 2017.
61. Montana Ag Alerts: Cutworm incidence and damage on peas. May 23, 2017.
62. Montana Ag Alerts: Pea leaf weevil on chickpea. May 22, 2017.
63. Traders Dispatch: Research and extension activities for wheat midge management in Montana. May, 2017.
64. Traders Dispatch: MSU Western Triangle Ag Research Center develops trap crops for wireworms. May, 2017.
65. Farm & Ranch Guide: Quinoa – An alternative crop for small grain producers? April 30, 2017.
66. The Prairie Star: Montana entomologist edits all-inclusive book on oilseed crop pest management. April 11, 2017.
67. Independent Observer: Looking for wireworm infested fields. April 06, 2017.
68. Progressive Forage: New biological tool for managing alfalfa weevil. March 29, 2017.
69. Montana Ag Alerts: Insecticides for pulse crops (Cropland Insects). March 08, 2017.
70. Traders Dispatch: MSU scientist publishes a book on canola. February, 2017.
71. The Prairie Star: Ground-breaking pheromone research at WTARC 'catches' pea leaf weevil, February 03, 2017.
72. Farm & Ranch Guide: New damaging pest in Montana: Pea weevil actually a beetle, February 03, 2017.
73. Traders Dispatch, Watch out for a new pest in Montana – pea weevil, September 2016.
74. Entomology Today, Ten Habits of Highly Successful Entomologists, August 03, 2016, <https://entomologytoday.org/2016/08/03/ten-habits-of-highly-successful-entomologists/>
75. Traders Dispatch, Parasitoids to manage wheat midge continues in Montana during 2016, July 2016.
76. Traders Dispatch, WTARC Field Day, July 2016.
77. Shelby Promoter, WTARC Field Day offers areas producer's immersive experience, June 29, 2016.
78. Traders Dispatch, Montana Statewide wheat midge monitoring continues, May 2016.
79. KRTV News, Agricultural professionals learning about biological controls, March 01, 2016.
80. Prairie Star (Interviewed by Sue Roesler, Writer for The Prairie Star), Bioinsecticides, drought, drowning all could attack wheat stem sawfly, February 05, 2016.
81. Traders Dispatch, Grant obtained to conduct research on pea leaf weevil, January, 2016, Page C59.

82. Prairie Star (Interviewed by Sue Roesler, Writer for The Prairie Star), Winter doesn't stop WTARC fight against sawfly, December 11, 2015.
83. Independent Observer, Research efforts to control insect pests after harvest, October 29, 2015.
84. Great Falls Tribune, Montana wheat crop a mixed bag, June 15, 2015.
85. The Western Producer, Wheat midge predators find new home in Montana (U.S. researchers collect parasitoid wasps during Sask. Field trip), August 07, 2015, 4p.
86. Prairie Star (Interviewed by Sue Roesler, Writer for The Prairie Star), North Dakota, Montana producers report canola flea beetles emerging, June 26, 2015, page 32.
87. Traders Dispatch, Natural enemy for Orange Wheat Blossom Midge introduced in Montana, August 2014, pp. C36 & C38.
88. Prairie Star, Use of reduced-risk insecticides to control insects to safeguard our environment, August 30, 2014
89. Traders Dispatch, Role of low-risk insecticides to control insect pests, August, 2014, pp. C5.
90. Independent Observer, Use of reduced-risk insecticides to control insects to safeguard our environment, July 31, 2014, 12p.
91. Independent Observer, Insect-killing pathogenic fungi, June 26, 2014, p6.
92. Traders Dispatch, Entomopathogenic Nematodes (EPNs) for Management of Insect Pests in Montana, June 2014, 2 pages, 112&120p
93. Independent Observer, How the EPNs will be Used to Control Insect Pests, May 29, 2014, p9.
94. Bozeman Daily Chronicle, Trapping Insects by Color: Will it work in Montana, January 03, 2014; Eureka Alert, January 02, 2014 and several other web sites.
95. Traders Dispatch, The Life Cycle of the Wireworm, August 2013.
96. Traders Dispatch, Another Potential Pest in Montana, July 2013.
97. Independent Observer, Color is Important to Insects, June 27, 2013.
98. Independent Observer, Potential Pest in Montana, June 13, 2013.
99. Independent Observer, Research Center Acquires New Crop Harvest Combine, May 16, 2013.
100. Independent Observer, Working to Control Wireworms, May 08, 2013
101. Traders Dispatch, Entomology/Ecology and Soil Nutrient Management Research at WTARC, April 2013.
102. Traders Dispatch, WTARC Advisory Committee Annual Meeting Notes with a Picture, February 2013.
103. Western Farmer-Stockman, Sawfly Pricey Pest for Montana, October, 2012.
104. Traders Dispatch, New Super at WTARC, September 2012
105. University of Guam, WPTRC Impact Report 2012, Perfect Timing for Produce, pp. 12–13; Spray Oils and Predatory Mites Make a Killer Combo, pp. 15–16.
106. University of Guam WPTRC Impact Report 2011, Weeding out Invasive Species with Classical Biological Control, pp. 7–8; “Protecting Fruit Crops with Pheromones”, pp. 21–22.
107. Pacific News Centre: UOG'S Dr. Reddy to Give Keynote Address at Okinawa Ag Research Center, December 07, 2011.
108. Saipan Tribune: Important int'l collaboration with UOG researcher, December 08, 2011.
109. Eurekaalert: Biocontrol of sweetpotato weevils, http://www.eurekaalert.org/pub_releases/2011-08/uog-bos080311.php.

110. Pacific News Center: UOG's Dr. Gadi Reddy gets grant to control sweetpotato weevil, August 04, 2011.
111. Eurekalert: UOG scientist wins USDA competitive funding, Tomato farmers benefit, http://www.eurekalert.org/pub_releases/2011-06/uog-usw062311.php, 2011.
112. Pacific Daily News: UPDATE: Scientist gets grant to release predatory mite, May 31, 2011.
113. Saipan Tribune: Predatory mite will help save agricultural crops in Guam, newsflash appeared in June 01, 2011
114. Pacific Daily News: News on Grant will help farmers fight pests and also update on Farmers to get help from scientist appeared in Marianas Variety (Guam edition) on August 25, 2010.
115. Marianas Variety: News on Scarlet gourd going, going... (Saipan edition) on July 13, 2010.
116. Pacific Daily News: News on "UOG may host entomologists' meeting", appeared on May 16, 2010. In addition, the newspaper emphasized highly about the work being done on cabbage IPM funded by USDA-NRCS.
117. University of Guam Magazine Fall 2009: Article on UOG Researcher Helps Local Farmers and protects the Environment appeared.
118. Micronesian Palms Face New Threats; Article appeared in Marianas Variety, August 18, 2009, (<http://guam.mvarietynews.com>).
119. University of Guam Scientist Mite Study (http://www.eurekalert.org/pub_releases/2009-07/uog-uog071609.php).
120. UOG Scientists Successfully Compete for Research Grants (http://www.eurekalert.org/pub_releases/2009-08/uog-uss081309.php).
121. Public radio-show news broadcast on KPRG-FM 89.3 News Talk Radio regarding "Biological control of tropical weeds (26 minutes), May 18, 2009.
122. Ecological pest management for Guam and Western SARE PDP grant receipt was highlighted in EurekaAlert on March 18, 2009 (http://www.eurekalert.org/pub_releases/2009-03/uog-eip031809.php).
123. Biological Control: Insects vs. Plants Article appeared in WPTRC 2008 Impact report published by the University of Guam, pp. 9–11.
124. The research work on the invasive plants and about the multi-author edited book *Biological control of Tropical Weeds using Arthropods* published by Cambridge University Press was highlighted in EurekaAlert on Feb 24, 2009 (http://www.eurekalert.org/pub_releases/2009-02/uog-bco022409.php).
125. Pacific News Center, television interview, channel 6 (10 minutes), Banana borer problem in Guam, January 09, 2009.
126. The IPM Practitioner, Volume XXX, Number 7/8: page 13, Banana Weevil Pheromone Traps, July/August 2008.
127. Pacific Home Garden, Television interview, channel 6 (15 minutes), Control of Invasive Plants in Guam, February 07, 2008.
128. Laudable Research Highlights regarding chemical ecology laboratory and biological control of *Mimosa diplotricha* and *Coccinia grandis* appeared in University Magazine, Fall 2008 Issue, published by the University of Guam, pp. 10.
129. Pacific Daily News, Sensitive plant (*Mimosa diplotricha*) colonizes Guam, January 21, 2008.
130. Biological Control in the Region Article appeared in WPTRC 2007 Impact report published by the University of Guam, pp. 10.

131. Commendable Research Highlights appeared in University Magazine, Fall 2007 Issue, published by the University of Guam, pp. 5.
132. Public radio-show news broadcast on KPRG-FM 89.3 News Talk Radio regarding control of invasive species using chemical ecology and biocontrol methods on Guam (30 minutes), September 05, 2007.
133. Marianas Variety, Biological control for ivy gourd infestation introduced, October 30, 2007.
134. Pacific Daily News, Larvae released to kill vines, July 25, 2007
135. Public radio-show news broadcast on K-57 News Talk Radio entitled Invasive species on Guam (25 minutes), August 13, 2007.
136. Saipan Tribune, New insect species released to fight Kagman ivy gourd, August 23, 2007.
137. Guam Public Radio, special program on wood borers with special reference to longhorned beetle and their control, July 21, 2006.
138. WPTRC NEWS, Invasive Plant under Attack by UOG Scientist, <http://www.wptrc.org/article.asp?artID=35>
139. Public radio-show news broadcast on K-57 News, Semiochemical-based control method for the New Guinea Sugarcane weevil, April 2005.
140. Public radio-show news broadcast on K-57 News Talk Radio, Banana borers and their control (30 minutes), April 02, 2004.

Invited Lectures and Conference Presentations (85)

1. Reddy, G.V.P. 2019. Ninth Annual Mississippi Entomological Association Meeting, Mississippi State University, Starkville, MS, October 21–22, 2019.
2. Reddy, G.V.P. 2019. Mid-South Entomology Meeting, Prairie Wildlife (West Point, MS), September 24–25, 2019.
3. Reddy, G.V.P. 2018. International Conference on Sustainable Organic Agri-Hort System, Lucknow, INDIA, November 28–30, 2018.
4. Reddy, G.V.P. 2018. ESA, ESC and ESBC Joint Annual Meeting, Vancouver, BC, CANADA, November 11-14, 2018.
5. Reddy, G.V.P. 2018. W4185: 2018 Annual Meeting, Biological Control in Pest Management Systems of Plants, Whitefish, MT, October 10–12, 2018.
6. Reddy, G.V.P. 2018. UArctic Congress: on the “Agricultural structures in Arctic regions: present functions, limitations and solutions for future sustainable connectivity in Arctic regions”, Helsinki, Finland, September 07, 2018.
7. Reddy, G.V.P. 2018. IV International Pheromones Conferences, Almería, SPAIN, April 05–06, 2018, Invited.
8. Reddy, G.V.P. 2018. Ninth International IPM Symposium, Baltimore, MD, March 19–22, 2018.
9. Reddy, G.V.P. 2017. 68th Annual meeting of the Entomological Society of America, Denver, CO, November 05–08, 2017.
10. Reddy, G.V.P. 2017. W4185: 2017 Annual Meeting, Biological Control in Pest Management Systems of Plants, Borrego Springs, CA, October 03–05, 2017.
11. Reddy, G.V.P. 2017. 50th Annual Meeting of the Society for Invertebrate Pathology, San Diego, California, August 13–17, 2017.
12. Reddy, G.V.P. 2017. 57th Annual Meeting of the Weed Science Society of America, Tucson, Arizona, February 06–09, 2017.

13. Reddy, G.V.P. 2016. W3185: 2016 Annual Meeting, Biological Control in Pest Management Systems of Plants, Glenwood Springs, CO, October 05–07, 2016
14. Reddy, G.V.P. 2016. XXV International Congress of Entomology/67th Annual Meeting of the Entomological Society of America, Orlando, FL, September 25–30, 2016.
15. Reddy, G.V.P. 2016. Annual Meeting of the Microbial Control of Insect Pests (S1052), Orlando, FL, September 24, 2016.
16. Reddy, G.V.P. 2016. 56th Annual Meeting of the Weed Science Society of America, San Juan, Puerto Rico, February 08–11, 2016.
17. Reddy, G.V.P. 2015. 66 Annual Meeting of the Entomological Society of America, Minneapolis, MN, November 15–18, 2015.
18. Reddy, G.V.P. 2015. Annual Meeting of the Microbial Control of Insect Pests (S1052), Minneapolis, MN, November 14, 2015.
19. Reddy, G.V.P. 2015. W3185: 2015 Annual Meeting, Biological Control in Pest Management Systems of Plants, Chico Hot Springs, October 26–28, 2015.
20. Reddy, G.V.P. 2015. Eighth International Integrated Pest Management Symposium, Salt Lake City, Utah, USA, March 23–26, 2015.
21. Reddy, G.V.P. 2015. 55nd Annual Meeting of the Weed Science Society of America, Lexington, KY, February 09–12, 2015.
22. Reddy, G.V.P. 2014. 62th Annual Meeting of the Entomological Society of America, Portland, OR, November 16–19, 2014.
23. Reddy, G.V.P. 2014. Given series of lectures on “Use of entomopathogens in insect pest management” a part of the training program at Entomology Division, Nepal Agricultural Research Council, Kathmandu (NEPAL), NEPAL under USAID-Funded Asia Farmer-to-Farmer (F2F) Program/Winrock International (40 scientists attended), October 25–November 13, 2014.
24. Reddy, G.V.P. 2014. “Advances in Insect Pest Management: Global Trend” to the students and faculty at Himalayan College & Technology (Affiliated to Purbanchal University), Kathmandu, NEPAL on November 08, 2014.
25. Reddy, G.V.P. 2014. Invited Talk on the “New Insect Control Strategies on Wheat, Barley and Canola”, Agharkar Research Institute, Pune, INDIA, February 19, 2014.
26. Reddy, G.V.P. 2014. Invited Lecture on the “Integrated Control Tactics of Insect Pests in Tropical and Subtropical Crops”, Department of Zoology, University of Pune, INDIA, February 20, 2014.
27. Reddy, G.V.P. 2014. Invited Plenary Lecture on the “Semiochemicals: Application in Agriculture”, International Conference on Science and Technology (ICST-2K14), College of Engineering, Indapur, Maharashtra state, INDIA, February 21–22, 2014.
28. Reddy, G.V.P. 2013. Invited Talk on the “New Trends in Invasive Insects and Plant Control Strategies”, South China Agricultural University, November 27, 2013
29. Reddy, G.V.P. 2013. 61th Annual Meeting of the Entomological Society of America, Austin, TX, November 10–13, 2013.
30. Reddy, G.V.P. 2013. W-3185 Biological Control in Pest Management Systems of Plants Meeting, Jackson, WY, Oct 01–03, 2013.
31. Reddy, G.V.P. 2013. Brown Bag Seminar Series, USDA-ARS, Sidney, “Integrated Control Tactics of Insect Pests in Tropical and Subtropical Crops” (Invited Lecture), Feb 15, 2013
32. Reddy, G.V.P. 2013. 53rd Annual Meeting of the Weed Science Society of America, Baltimore, Maryland, February 04–07, 2013.

33. Reddy, G.V.P. 2013. MABA-MGEA Convention, Best Western Heritage Inn, Great Falls, “New Insect Control Strategies on Wheat, Barley, and Canola, (Invited Lecture), January 30–Feb 01, 2013.
34. Reddy, G.V.P. 2012. 60th Annual Meeting of the Entomological Society of America, Knoxville, TN, November 11–14, 2012.
35. Reddy, G.V.P. 2012. XXIV International Congress of Entomology, Daegu, South Korea, August 17–25, 2012, Invited.
36. Reddy, G.V.P. 2012. Seventh International Integrated Pest Management Symposium, Memphis, Tennessee, March 27–29, 2012.
37. Reddy, G.V.P. 2012. 52nd Annual Meeting of the Weed Science Society of America, Waikoloa, Hawaii, February 6–9, 2012.
38. Reddy, G.V.P. 2011. International Symposium on the Two Weevil Pests of Sweet potato: Strategic Studies for the Eradication of These Pests, Okinawa Prefectural Agricultural Research Center, Okinawa, Japan, November 30–December 01, 2011 (Plenary Lectured).
39. Reddy, G.V.P. 2011. 59th Annual Meeting of the Entomological Society of America, Reno, NV, November 13–16, 2011.
40. Reddy, G.V.P. 2011. The 13th International Symposium on Biological Control of Weeds (ISBCW 2011), Waikoloa, Hawaii, September 11–16, 2011.
41. Reddy, G.V.P. 2011. The 96th Ecological Society of America Annual Meeting, Austin, TX, August 07–12, 2011.
42. Reddy, G.V.P. 2011. Meeting on Cultural Heritage Pests, Università Cattolica del Sacro Cuore, Piacenza (Italy), June 07–09, 2011, Invited.
43. Reddy, G.V.P. 2011. The Sixth International Workshop on Management of the Diamondback Moth and Other Crucifer Insect Pests, Kasetsart University, Nakhon Pathom, Thailand , March 21–25, 2011.
44. Reddy, G.V.P. 2011. 51st Annual Meeting of the Weed Science Society of America, Portland, OR, February 07–10, 2011.
45. Reddy, G.V.P. 2010. 58th Annual Meeting of the Entomological Society of America, San Diego, CA, December 12–15, 2010.
46. Reddy, G.V.P. 2010. The 95th Ecological Society of America Annual Meeting, Pittsburgh, PA, August 01–06, 2010.
47. Reddy, G.V.P. 2010. Pacific Branch Entomological Society of America's meeting, Boise, Idaho, April 11–14, 2010.
48. Reddy, G.V.P. 2010. Gordon Research Conference on Plant Herbivore Interactions, Galveston, TX, February 21–26, 2010.
49. Reddy, G.V.P. 2010. The CNAS Research Conference, University of Guam, January 13, 2010.
50. Reddy, G.V.P. 2009. The 57th Annual Meeting of the Entomological Society of America, Indianapolis, Indiana, December 13–16, 2009.
51. Reddy, G.V.P. 2009. Pacific Biocontrol Strategy Workshop, Auckland, New Zealand, November 14–18, 2009.
52. Reddy, G.V.P. 2009. Fifth Asia-Pacific Conference on Chemical Ecology, Honolulu, Hawaii, October 26–30, 2009.
53. Reddy, G.V.P., Z. T. Cruz and F. Naz. The 94th Ecological Society of America Annual Meeting, Albuquerque, New Mexico, August 02–07, 2009.

54. Reddy, G. V. P., Z.T. Cruz, and R. Muniappan. The 56th Annual Meeting of the Entomological Society of America, Reno, Nevada, USA, November 16–19, 2008.
55. Reddy, G. V. P., Z.T. Cruz, and A. Guerrero. International Society of Chemical Ecology 25th Anniversary Meeting, Penn State, State College, Pennsylvania, USA, August 17–22, 2008.
56. Reddy, G. V. P., and Z.T. Cruz. The 55th Annual Meeting of the Entomological Society of America, San Diego, California, USA, December 08–14, 2007.
57. Reddy, G. V. P. Biological Control in the Western USA-W 2 1 8 5 Biological Control in Pest Management Systems of Plants, Kona, Hawaii, October 16–18, 2007.
58. Reddy, G. V. P. College of Natural and Applied Sciences, University of Guam, Mangilao, Guam, August 2007.
59. Reddy, G. V. P., and R. Muniappan. The XIIth International Symposium entitled “Biological Control of Weeds,” La Grande Motte, France, April 22–27, 2007.
60. Reddy, G. V. P., and R. Muniappan. The Seventh International Workshop entitled “Biological Control and Management of *Chromolaena odorata* and *Mikania micrantha*,” National Pintung University of Science and Technology, Taiwan, September 12–15, 2006.
61. Reddy, G. V. P., and R. Muniappan. The 53rd Annual Meeting of the Entomological Society of America, Fort Lauderdale, Florida, USA, December 15–18, 2005.
62. Reddy, G. V. P. College of Natural and Applied Sciences, University of Guam, Mangilao, Guam April 2005.
63. Reddy, G. V. P., and R. Muniappan. International Symposium entitled “Biological Control of Aphids and Coccids,” Tsuruoka, Japan, September 25–29, 2005.
64. Reddy, G. V. P., R. Muniappan, and J. Bamba. International Workshop entitled “Biological Control and Management of *Chromolaena*,” Cairns, Australia, May 07–09, 2003.
65. Reddy, G. V. P. Agricultural Experiment Station, University of Guam, Mangilao, Guam, May 2003.
66. Reddy, G. V. P., and R. Muniappan. International Symposium on Biological Control of Weeds, Canberra, Australia, April 27–May 02, 2003.
67. Reddy, G. V. P. Institute of Zoology, University of Vienna, Austria, April 2002.
68. Reddy, G. V. P., C. Quero, and A. Guerrero. Nineteenth Annual Meeting of the International Society of Chemical Ecology, Hamburg, Germany, August 03–08, 2002.
69. Reddy, G. V. P., P. Tossavainen, A.-M. Nerg, and J.K. Holopainen. Fourth International Workshop on the Management of Diamondback Moth and Other Crucifer Pests, Melbourne, Australia, November 26–29, 2001.
70. Reddy, G. V. P. Department of Ecology and Environmental Science, University of Kuopio, Finland, May 2001.
71. Reddy, G. V. P. Department of Biological Organic Chemistry, IIQAB, CSIC, Spain, March 2001.
72. Reddy, G. V. P. Department of Biological Organic Chemistry, IIQAB, CSIC, Spain, January 2000.
73. Reddy, G. V. P. Department of Biological Organic Chemistry, IIQAB, CSIC, Spain, October 1999.
74. Reddy, G. V. P., Fettköther, R., Noldt, U., and Dettner, K. Conference entitled “Chemical Ecology in the Molecular Age,” held at the Max-Planck-Institute for Chemical Ecology, Jena, Germany, April 05–07, 1998.
75. Reddy, G. V. P. Lehrstuhl für Tierökologie II, Universität Bayreuth, Germany, February 1999.

76. Reddy, G. V. P. Lehrstuhl für Tierökologie-II, Universität Bayreuth, Germany, April 1998.
77. Reddy, G. V. P. Alemaya University of Agriculture, Alemaya, Ethiopia, November 1997.
78. Pell, J. K., M.J. Furlong, G.V.P. Reddy, G.M. Poppy, and H.E. Roy. Twenty Ninth Annual Meeting of the Society for Invertebrate Pathology and Third International Colloquium on *Bacillus thuringiensis*, Cordoba, Spain, September 01–07, 1996.
79. Reddy, G. V. P., M.J. Furlong, and J.K. Pell. Third International Workshop entitled “Diamondback Moth and Other Crucifer Pests,” Kuala Lumpur, Malaysia, November 1996.
80. Reddy, G. V. P., M.J. Furlong, and J.K. Pell. Seventh Meeting of British Invertebrate Mycopathologists, held at the Biotechnology Center, Cranfield University, UK, September 27, 1995.
81. Reddy, G. V. P., and K.C.D. Urs. National Seminar entitled “Role of Young Scientists in National Development,” held at M.M. Post-Graduate College, Modinagar, India, September 14–18, 1989.
82. Reddy, G. V. P., and K.C.D. Urs. International Conference entitled “Biodeterioration of Cultural Property,” held at the National Research Laboratory for Conservation of Cultural Property, Lucknow, India, February 20–25, 1989.
83. Reddy, G. V. P., and K.C.D. Urs. National Symposium on Ecotoxicology, held at the Department of Zoology, Annamalai University, Tamilnadu, India, June 09–11, 1988.
84. Reddy, G. V. P., and K.C.D. Urs. International Conference entitled “Research in Plant Sciences and Its Relevance to Future,” held at the Department of Botany, University of Delhi, Delhi, India, March 07–11, 1988.
85. Reddy, G. V. P., and K.C.D. Urs. International Conference entitled “Biological Control of Vectors with Predacious Arthropods,” held at the Loyola College, Madras, India, January 07–10, 1988.
86. Reddy, G. V. P. Young scientists’ brainstorm session entitled “Man-Environment Interaction,” held at S. V. University, Tirupati, India, October 29–30, 1987.