

Brian J. Schutte, Ph.D.  
Associate Professor of Weed Science  
Dept. Entomology, Plant Pathology and Weed Science  
New Mexico State University  
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Las Cruces, NM 88003  
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## EDUCATION

Ph.D., Horticulture and Crop Science, Ohio State University, 2007

M.S., Horticulture and Crop Science, Ohio State University, 2002

B.A., Botany and Political Science, Miami University, 1999

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## EMPLOYMENT

2018 – current Associate Professor, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM

2011 – 2018 Assistant Professor, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM

2007 – 2011 Post-doctoral Research Ecologist, USDA-ARS Global Change and Photosynthesis Research Unit, Urbana, IL

2007 Post-doctoral Research Associate, Ohio State University Weed Ecology Laboratory, Columbus, OH

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## RECENT JOURNAL ARTICLES \* denotes graduate student author

**Schutte, B. J.**, E. A. Lehnhoff, L. L. Beck. Evaluation of Flumioxazin for Chile Pepper in New Mexico. *Weed Technology* in press

Schroeder, J., M. Barrett, D. R. Shaw, A. R. Asmus, H. Coble, D. Ervin, R. A. Jussaume, M. D. K. Owen, I. Burke, C. F. Creech, A. S. Culpepper, W. S. Curran, D. M. Dodds, T. A. Gaines, J. L. Gunsolus, B. D. Hanson, P. Jha, A. E. Klodd, A. R. Kniss, R. G. Leon, S. McDonald, D. W. Morishita, **B. J. Schutte**, C. L. Sprague, P. W. Stahlman, L. E. Steckel, M. J. VanGessel. 2018. Managing wicked herbicide-resistance: lessons from the field. *Weed Technology* 32:475-488.

Schroeder, J., M. Barrett, D. R. Shaw, A. R. Asmus, H. Coble, D. Ervin, R. A. Jussaume, M. D. K. Owen, I. Burke, C. F. Creech, A. S. Culpepper, W. S. Curran, D. M. Dodds, T. A. Gaines, J. L. Gunsolus, B. D. Hanson, P. Jha, A. E. Klodd, A. R. Kniss, R. G. Leon, S. McDonald, D. W. Morishita, **B. J. Schutte**, C. L. Sprague, P. W. Stahlman, L. E. Steckel, M. J. VanGessel. 2018. Managing herbicide-resistance: listening to the perspectives of practitioners. Procedures for Conducting Listening Sessions and an Evaluation of the Process. *Weed Technology* 32:489-497.

- Hooks, T. N.\*, G. A. Picchioni, **B. J. Schutte**, M. K. Shukla, D. L. Daniel. 2018. Sodium chloride effects on seed germination, growth, and water use of *Lepidium alyssoides*, *L. draba*, and *L. latifolium*: traits of resistance and implications for invasiveness on saline soils. *Rangeland Ecology and Management* 71:433-442
- Hooks, T. N.\*, G. A. Picchioni, **B. J. Schutte**, M. K. Shukla, D. L. Daniel, J. Ashigh. 2018. Salinity an environmental “filter” selecting for plant invasiveness? Evidence from the indigenous *Lepidium alyssoides* on Chihuahuan desert shrublands. *Rangeland Ecology and Management* 71:106-114
- Gonzalez-Delgado, A., M. K. Shukla, **B. J. Schutte**. 2017. Effects of indaziflam application and soil manipulation on pecan evapotranspiration and gas exchange parameters. *HortScience* 52:910-915
- Klypina, N., M. Pinch, **B. J. Schutte**, J. Maruthavanan, T. M. Sterling. 2017. Water-deficit stress tolerance differs between two locoweed genera (*Astragalus* and *Oxytropis*) with fungal endophytes. *Weed Science* 65:626-638
- Landau, C. A.\*, **B. J. Schutte**, A. O. Mesbah, S. V. Angadi. 2017. Flixweed (*Descurainia sophia*) shade tolerance and possibilities for flixweed management using rapeseed seeding rate. *Weed Technology* 31:477-486
- Flores, A. M.\*, M. K. Shukla, **B. J. Schutte**, G. A. Picchioni, D. L. Daniel. 2017. Physiologic response of six plant species grown in two contrasting soils and irrigated brackish groundwater and RO concentrate. *Arid Land Research and Management* 31:182-203
- Schutte, B. J.** 2017. Measuring interference from mid-season tall morningglory to develop a model for teaching weed seedbank effects on chile pepper. *Weed Technology* 31:155-164
- Singla, S.\*, K. Grover, S. V. Angadi, **B. J. Schutte**, D. VanLeeuwen. 2016. Guar stand establishment, physiology, and yield responses to planting date in southern New Mexico. *Agronomy Journal* 108:2289-2300
- Davis, A. S., X. Fu, **B. J. Schutte**, M. A. Berhow, J. W. Dalling. 2016. Interspecific variation in persistence of buried weed seeds follows trade-offs among physiological, chemical and physical seed defences. *Journal of Applied Ecology* 6:6836-6845
- Schutte, B. J.**, N. Klypin, M. K. Shukla. 2016. Influence of irrigation timing on disturbance-induced reductions in soil seedbank density. *Weed Science* 64:613-623
- Flores, A. M.\*, M. K. Shukla, D. Daniel, A. L. Ulery, **B. J. Schutte**, G. A. Picchioni, S. Fernald. 2016. Evapotranspiration changes with irrigation using saline groundwater and RO concentrate. *Journal of Arid Environments* 131:35-45
- Regnier, E. E., S. K. Harrison, M. M. Loux, C. Holloman, R. Venkatesh, F. Diekman, R. Taylor, R. A. Ford, D. E. Stoltenberg, R. G. Hartzler, A. S. Davis, **B. J. Schutte**, J. Cardina, K. J. Mahoney, W. G. Johnson. 2016. Certified crop advisors’ perceptions of giant ragweed (*Ambrosia trifida*) distribution, herbicide resistance and management in the Corn Belt. *Weed Science* 64:361-377

- Evans, J. A., P. J. Tranel, A. G. Hager, **B. J. Schutte**, C. Wu, L. A. Chatham, A. S. Davis. 2016. Managing the evolution of herbicide resistance. *Pest Management Science* 72:74-80
- Flores, A. M.\*, **B. J. Schutte**, M. K. Shukla, G. A. Picchioni, A. L. Ulery. 2015. Time-integrated measurements of seed germination for salt-tolerant plant species. *Seed Science and Technology* 43: 541-547
- Schutte B. J.**, A. E. Cunningham\*. 2015. Tall morningglory (*Ipomoea purpurea*) seedbank density effects on pendimethalin control outcomes. *Weed Technology* 29:844-853
- Davis, A. S., **B. J. Schutte**, A. G. Hager, B. G. Young. 2015. Palmer amaranth (*Amaranthus palmeri*) damage niche in Illinois soybean is seed-limited. *Weed Science* 63:658-668
- Schutte, B. J.**, L. Lauriault. 2015. Nutritive value of field bindweed (*Convolvulus arvensis*) roots as a potential livestock feed and the effect of *Aceria malherbae* on root components. *Weed Technology* 29:329-334
- Schutte, B. J.**, A. S. Davis, S. A. Peinado, J. Ashigh. 2014. Seed coat thickness data clarifies seed size-seedbank persistence trade-offs in *Abutilon theophrasti* (Malvaceae). *Seed Science Research* 24:119-131
- Schutte, B. J.**, A. S. Davis. 2014. Do common waterhemp (*Amaranthus rudis*) seedling emergence patterns meet criteria for herbicide resistance simulation modeling? *Weed Technology* 28:408-417
- Schutte, B. J.**, B. J. Tomasek, A. S. Davis, L. Andersson, D. L. Benoit, A. Cirujeda, J. Dekker, F. Forcella, J. L. Gonzalez-Andujar, F. Graziani, A. J. Murdoch, P. Neve, I. A. Rasmussen, B. Sera, J. Salonen, F. Tei, K. S. Torresen, J. M. Urbano. 2014. An investigation to enhance understanding of the stimulation of weed seedling emergence by soil disturbance. *Weed Research* 54:1-12
- Schutte, B. J.**, S.E. Wortman, J. L. Lindquist, A. S. Davis. 2013. Maternal environment effects on phenolic defenses in *Abutilon theophrasti* seeds. *American Journal of Plant Sciences* 4:1127-1133
- Wortman, S. E., A. S. Davis, **B. J. Schutte**, J. L. Lindquist, J. Cardina, J. Felix, C. Sprague, A. Dille, A., Ramirez, G. Reicks, S. A. Clay. 2012. Local conditions, not spatial gradients, drive demographic variation of *Ambrosia trifida* and *Helianthus annuus* across northern U.S. maize belt. *Weed Science* 60:440-450
- Matlaga, D. P., **B. J. Schutte**, A. S. Davis. 2012. Age-dependent vital rates of the bioenergy crop *Miscanthus x giganteus* in Illinois. *Invasive Plant Science & Management* 5:238-248
- Williams II, M. M., **B. J. Schutte**, Y. So. 2012. Maternal corn environment influences wild proso millet (*Panicum miliaceum*) seed characteristics. *Weed Science* 60:69-74
- Schutte, B. J.**, E. E. Regnier, S. K. Harrison. 2012. Seed dormancy and adaptive seedling emergence timing in giant ragweed (*Ambrosia trifida*). *Weed Science* 60:19-26
- Wortman, S. E., A. S. Davis, **B. J. Schutte**, J. L. Lindquist. 2011. Integrating management of soil nitrogen and weeds. *Weed Science* 59:162-170

- Dalling, J. W., A. S. Davis, **B. J. Schutte**, A. E. Arnold. 2011. A framework for a seed defence theory: integrating predation, dormancy and the soil microbial community. *Journal of Ecology* 99:89-95
- Davis, A. S., D. Daedlow, **B. J. Schutte**, P. R. Westerman. 2011. Temporal scaling of episodic point estimates of weed seed predation to long-term predation rates. *Methods in Ecology and Evolution* 2:682-690
- Schutte, B. J.**, A. G. Hager, A. S. Davis. 2010. Respray requests on custom-applied, glyphosate-resistant soybeans in Illinois: how many and why. *Weed Technology* 24:590-598
- Schutte, B. J.**, E. R. Haramoto, A. S. Davis. 2010. Methods for optimizing seed mortality experiments. *Weed Technology* 24:599-606
- Schutte, B. J.**, J. Liu, A. S. Davis, S. K. Harrison, E. E. Regnier. 2010. Environmental factors that influence the association of an earthworm (*Lumbricus terrestris* L.) and an annual weed (*Ambrosia trifida* L.) in no-till agricultural fields across the eastern U.S. Corn Belt. *Agriculture, Ecosystems and Environment* 138:197-205
- Schutte, B. J.**, A. S. Davis, K. A. Renner, J. Cardina. 2008. Maternal and burial environment effects on seed mortality of velvetleaf (*Abutilon theophrasti*) and giant foxtail (*Setaria faberi*). *Weed Science* 56:834-840
- Schutte, B. J.**, E. E. Regnier, S. K. Harrison. 2008. The association between seed size and seed longevity among maternal families in *Ambrosia trifida* L. populations. *Seed Science Research* 18:201-211
- Davis, A. S., **B. J. Schutte**, J. Iannuzzi, K. A. Renner. 2008. Chemical and physical defenses of weed seeds in relation to soil seedbank persistence. *Weed Science* 56:676-684
- Schutte, B. J.**, E. E. Regnier, S. K. Harrison, J. T. Schmoll, K. Spokas, F. Forcella. 2008. A hydrothermal seedling emergence model for giant ragweed (*Ambrosia trifida*). *Weed Science* 56:555-560
- Schutte, B.**, M. Knee. 2005. The effects of rudimentary embryos and elevated oxygen on seed dormancy of *Eryngium yuccifolium* Michx. (Apiaceae). *Seed Science and Technology* 33:53-62

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#### JOURNAL ARTICLES UNDER REVIEW

- Elias, E. H., R. Flynn, J. Idowu, A. Rango, S. Sanogo, **B. J. Schutte**, C. Steele, C. Sutherland, R. Smith. Agricultural vulnerability to climate risks: place-based analysis of interacting systems to build climate resilience. *International Journal of Agricultural Sustainability*

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#### PEER-REVIEWED TECHNICAL PUBLICATIONS \* denotes graduate student author

- Landau, C. A.\*, **B. J. Schutte**, A. O. Mesbah, S. V. Angadi. 2017. Late-Season Weed Management in Conventional Canola Using Sethoxydim and Clopyralid. New Mexico State University, Agricultural Experiment Station Research Report. RR-791

Picchioni, G. A., T. N. Hooks, **B. J. Schutte**, D. L. Daniel. 2015. Drought, Salinity, and Invasive Plants: A New Model for Sustainable Water Management. Technical Report 368. New Mexico Water Resources Research Institute, Las Cruces, NM.

Ashigh, J., L. Lauriault, M. Marsalis, **B. J. Schutte**, C. Hamilton. 2014. Integrated Weed Management in Irrigated Permanent Grass Pastures and Hayfields in New Mexico. New Mexico State University Cooperative Extension Service. Guide A-340

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## ACTIVE FUNDING

**Ensuring Safe and Sustainable Use of a New Soil-Applied Herbicide for Chile Pepper Production.** USDA Specialty Crop Block Grant, September 2018-September 2021, \$36,177. B. Schutte (PI)

**Cover crops in the southwest: obtaining ecosystem services while minimizing water use.** USDA NIFA, Agriculture and Food Research Initiative, Foundational Knowledge of Agricultural Production Systems, \$149,601. July 2018-June 2020. E. Lehnhoff (PI), O. Idowu, B. Schutte, J. Libbin, S. Sanogo, S. Thomas, N. Pietrasiak

**Evaluating New Pre-Emergent Herbicides for Chile Produced with Subsurface Drip Irrigation.** New Mexico Chile Commission, April 2018-March 2019, \$5,693. B. Schutte (PI)

**On-farm investigation of stale seedbeds with biofumigation for improved management of weeds and soil-borne disease.** USDA NIFA, Western SARE, April 2018-March 2020 \$131,459. B. Schutte (PI), S. Sanogo, O. Idowu

**Integrating stale seedbeds with mustard seed meal to manage soil-borne pests in chile.** New Mexico Agricultural Experiment Station and the New Mexico Chile Association, July 2017-June 2019, \$60,366. B. Schutte (PI), S. Sanogo

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## PREVIOUS FUNDING

**Irrigation with brackish groundwater and desalination concentrate: effect on soil microbial properties, plant uptake and ion deposition in soil.** New Mexico Water Resources Research Institute, May 2017-April 2018, \$81,128. M. Shukla (PI), G. Picchioni, B. Schutte, C. Gard

**Evaluation of flumioxazin + pyroxasulfone for pre-emergence control of mid-season weeds in chile.** New Mexico Chile Commission, April 2017-April 2018, \$8,033. B. Schutte (PI), E. Lehnhoff, L. Beck

**Herbicide testing for agricultural weeds in New Mexico.** *Industry Support.* May 2016-May 2017, \$4,937; May 2017-May 2018, \$10,769. B. Schutte (PI), E. Lehnhoff (PI), E. Morris

**Integrating mechanical or chemical control with biological control for improved saltcedar management at southwestern reservoirs**  
USDA Western IPM Center. March 2016-February 2017, \$29,984. E. Lehnhoff (PI), L. Beck, B. Schutte & C. Sutherland

**Improving herbicide programs for mid-to-late season weeds in chile pepper.** New Mexico Chile Commission, April 2016-April 2017, \$9,244. B. Schutte (PI), E. Lehnhoff, E. Morris

**Developing an IPM method for controlling weeds in chile pepper.** New Mexico Agricultural Experiment Station and the New Mexico Chile Association, July 2015-June 2017, \$56,896. B. Schutte (PI), O. Idowu, L. Beck

**Improving guidelines for controlling mid-to-late season weeds in chile.** New Mexico Chile Commission, June 2015-June 2016, \$8,000. B. Schutte (PI)

**Expanding herbicide options for chile pepper production in New Mexico.** USDA Specialty Crop Block Grant, September 2014-September 2017, \$30,000. B. Schutte (PI)

**Chemical and cultural techniques for improved weed management in winter canola production in New Mexico.** New Mexico Agricultural Experiment Station at Clovis, May 2014-December 2017, \$13,748. B. Schutte (PI), S. Angadi; New Mexico State University Agricultural Experiment Station, Graduate Research Award, July 2014-December 2017; \$58,000. B. Schutte (PI), S. Angadi, A. Mesbah

**Development of a bioeconomic model for an IPM tactic for weeds in chile pepper.** USDA Western IPM Center, March 2014-September 2015, \$29,008. B. Schutte (PI), R. Acharya, J. Ashigh, B. McCloskey

**Clarifying causal factors for invasions of specific Brassicaceae plants on wastewater-treated rangelands in New Mexico.** New Mexico Agricultural Experiment Station, July 2012-June 2013, \$19,000. G. Picchioni (PI), B. Schutte, J. Ashigh, L. Lauriault  
New Mexico Water Resource Research Institute, July 2014-June 2015, \$29,070. G. Picchioni (PI), B. Schutte

**Low-cost irrigation technologies for improved woody plant establishment in riparian environment restorations.** New Mexico Agricultural Experiment Station, July 2014-June 2015, \$22,000. A. Ganguli (PI), B. Schutte

**Functional plasticity of soil and plant endophytic microbial consortia: plant/microorganism co-evolutionary mechanisms relevant for weed seed viability and emergence potential.** International Arid Lands Consortium, January 2013-August 2013, \$7,500. A. Unc (PI), B. Schutte, Y. Steinberger

**Desalination concentrate management for sustainable agriculture: a preliminary study on transport behavior and plant viability at the Brackish Groundwater National Desalination Research Facility (BGNDRF) in Alamogordo, NM**  
BGNDRF, July 2013-June 2014, \$49,875. M. Shukla (PI), G. Picchioni, A. Ulery, B. Schutte

**Impact of environmental conditions on the symbiotic relationship of a locoweed species and the swainsonine producing fungal endophyte.**  
New Mexico Agricultural Experiment Station, July 2012-June 2013, \$9,000. B. Schutte (PI), N. Klypin & J. Ashigh

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**RECENT ABSTRACTS AND PROCEEDINGS** \* denotes graduate student author; \*\* denotes undergraduate student author

Lehnhoff, E. A., L. M. Murray\*, **B. J. Schutte**. 2018. Integrating herbicide or mowing with biological control for improved tamarisk control. Proceedings of the 71<sup>st</sup> Annual Meeting of the Western Society of Weed Science 71:4

Sanchez, A.\*, **B. J. Schutte**, L. Beck, O. J. Idowu, J. Libbin. 2018. Stale seedbed for summer annual weeds in chile pepper. Proceedings of the 71<sup>st</sup> Annual Meeting of the Western Society of Weed Science 71:12

**Schutte, B. J.** 2018. Flumioxazin for postemergence-directed applications in chile pepper. Proceedings of the 71<sup>st</sup> Annual Meeting of the Western Society of Weed Science 71:137

Murray, L. M.\*, E. A. Lehnhoff, **B. J. Schutte**, C. A. Sutherland. 2017. Integrating biological control with conventional methods for enhanced *Tamarix* management. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:7

Sanchez, A.\*, **B. J. Schutte**, L. Beck, O. J. Idowu. 2017. Stale seedbed for summer annual weeds in New Mexico chile. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:9

**Schutte, B. J.**, E. Morris. 2017. Field assessments of flumioxazin for postemergence-directed applications in chile pepper. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:70

Wood J.\*\*, Marquez, I.\*\*, **B. J. Schutte**. 2017. A non-destructive assay for determining viability of weed seeds. Proceedings of the 57<sup>th</sup> Annual Meeting of the Weed Science Society of America 57:94

**Schutte, B. J.** 2016. Model-based software for teaching tall morningglory seedbank density effects on chile pepper production. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:55

Landau, C. A.\*, **B. J. Schutte**, S. Angadi, A. Mesbah. 2016. Integrated weed management for conventional canola (*Brassica rapa*) in eastern New Mexico. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:51

Mesman, T.\*\*, **B. J. Schutte**, E. Morris. 2016. Greenhouse evaluation of chemical control for mid-season weeds in chile peppers. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:49

**Schutte, B.J.**, E. Morris. 2016. Evaluating postemergence-directed applications of flumioxazin in chile pepper. Proceedings of the 69<sup>th</sup> Annual Meeting of the Western Society of Weed Science 69:28

**Schutte, B.J.** 2016. Seed production and interference from late-season tall morningglory in chile pepper. Proceedings of the 56<sup>th</sup> Annual Meeting of the Weed Science Society of America 56:152

- Schutte, B.J.**, N. Klypina. 2015. Influence of irrigation timing on disturbance-induced reductions in soil seedbank density. Proceedings of the 68<sup>th</sup> Annual Meeting of the Western Society of Weed Science 68:129
- Schutte, B. J.**, A. E. Cunningham. 2015. Quantifying weed seedbank density effects on pendimethalin control outcomes. Proceedings of the 55<sup>th</sup> Annual Meeting of the Weed Science Society of America 55:258
- Schutte, B. J.** 2015. Impacts of late-season tall morningglory infestations in chile pepper production. Proceedings of the 55<sup>th</sup> Annual Meeting of the Weed Science Society of America 55:36
- Ashigh, J, M. Mohseni-Moghadam, **B. J. Schutte**, A. Shrestha. 2014. Using an in vivo shikimate accumulation assay to determine glyphosate sequestration in glyphosate-resistant plants. Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:122
- Schutte. B. J.**, N. Klypina. 2014. The effects of decreasing soil moisture on seed mortality of Palmer amaranth (*Amaranthus palmeri*), junglerice (*Echinochloa colona*) and yellow foxtail (*Setaria pumila*). Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:47
- Schutte, B. J.**, N. Klypina, J. Ashigh. 2014. Endophyte effects on locoweed (*Astragalus mollissimus*) growth responses to increasing temperature and intraspecific competition. Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:45
- Cunningham, A. E.\* , **B. J. Schutte**. 2014. Weed seedbank density effects on pendimethalin control outcomes. Proceedings of the 67<sup>th</sup> Annual Meeting of the Western Society of Weed Science 67:42
- Ashigh, J, M. Mohseni-Moghadam, **B. J. Schutte**, A. Shrestha. 2014. Determination of glyphosate sequestration as the basis of resistance in glyphosate-resistant plants using an *in vivo* shikimate accumulation assay. Proceedings of the 54<sup>th</sup> Annual Meeting of the Weed Science Society of America 54:92
- Schutte, B. J.**, N. Klypina, V. Zamora, A. Cunningham, J. Ashigh. 2014. The effects of delaying irrigation on disturbed soil seedbanks of Palmer amaranth (*Amaranthus palmeri*), yellow foxtail (*Setaria pumila*) and junglerice (*Echinochloa colona*). Proceedings of the 54<sup>th</sup> Annual Meeting of the Weed Science Society of America 54:67
- Schutte, B. J.**, N. Klypina, M. Shukla. 2013. Soil moisture effects on viability of physically dormant weed seeds. Proceedings of the 66<sup>th</sup> Annual Meeting of the Western Society of Weed Science 66:45
- Schutte, B. J.**, S.E. Wortman, J. L. Lindquist, A. S. Davis. 2013. Maternal environment effects on phenolic defenses in *Abutilon theophrasti* seeds. Proceedings of the 53<sup>rd</sup> Annual Meeting of the Weed Science of America 53:84
- Ashigh, J., N. Klypina, **B. J. Schutte**. 2012. Synergistic interaction of flumioxazin and emulsifiable concentrate formulations of pesticides. Proceedings of the 65<sup>th</sup> Annual Meeting of the Western Society of Weed Science 65:52



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**RECENT PRESENTATIONS, INVITED**

- Schutte, B. J.** 2018. Weed Seed Persistence and Management. Southwest Hay and Forage Conference
- Schutte, B. J.** 2017. Herbicide Resistance: What It Is and What Can Be Done About It. U.S. Bureau of Land Management IPM/Pesticide Applicator Certification Training, *also presented at* Southwest Noxious and Invasive Weed Short Course hosted by U.S. Bureau of Land Management *and* 25<sup>th</sup> Annual Conference of the New Mexico Vegetation Management Association
- Schutte, B. J., S. Sanogo, C. Sutherland.** 2016. Pest Management and Climate Change in New Mexico. Presented at the New Mexico Sustainable Agriculture Conference hosted by New Mexico Western SARE (Sustainable Agriculture Research and Extension)
- Schutte, B. J.** 2016. Weed Research Updates for Chile Pepper. Presented at the New Mexico Chile Conference hosted by The Chile Pepper Institute.
- Schutte, B. J.** 2016. Management of Mid-to-Late Season Weeds in Chile Pepper. Presented at the Annual Conference of the New Mexico Crop Production Association.
- Schutte, B. J.** 2015. Revealed! The Secret Life of Weeds. Presented at the New Mexico Organic Farming Conference
- Schutte, B. J.** 2015. Integrated Approaches for Managing Problem Weeds. Presented at the New Mexico Chile Conference hosted by The Chile Pepper Institute
- Schutte, B. J.** 2015, 2014 & 2012. Ecological traits of invasive plants southwestern. Presented at the Southwest Noxious and Invasive Weed Short Course hosted by U.S. Bureau of Land Management.
- Schutte, B. J.** 2014. Ecology and Management of Agricultural Weed Seedbanks. Presented at the Annual Conference of the New Mexico Crop Production Association
- Schutte, B. J.** 2013. Managing Seedbanks of Invasive Plants. Presented at the 21<sup>st</sup> Annual Conference of the New Mexico Vegetation Management Association
- Schutte, B. J.** 2012. Weed Seedbanks and What They Mean to You. Presented at the Sioux Falls Organic Agriculture Conference hosted by South Dakota Cooperative Extension Service, USDA Integrated Pest Management (IPM) Program, Sustainable Agriculture Research and Education (SARE) Program, South Dakota State University IPM Program, Sioux Falls, SD.

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**TEACHING**

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| 2017 – current | New Mexico State University, Co-Instructor, AGRO/HORT/EPWS/SOIL 525; AGRO/HORT/SOIL 625, <i>Scientific Writing</i> |
| 2014 – current | New Mexico State University, Instructor, EPWS 311/511, <i>Introduction to Weed Science</i>                         |

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|----------------|---|
| 2013 – 2014    | New Mexico State University, Instructor, EPWS 100L, <i>Introduction to Pest Management Laboratory</i> |
| 2013           | New Mexico State University, Instructor, EPWS 200, <i>Weeds and Society</i>                           |
| 2012 – current | New Mexico State University, Instructor; BIOL/EPWS 314/514 <i>Plant Physiology</i>                    |
| 2011 – 2013    | NSF Faculty Institute for Reforming Science Teaching, Teaching Fellow                                 |
| 2011           | University of Illinois, Co-Instructor, CPSC 418 <i>Crop Physiology</i>                                |

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#### **AWARDS AND RECOGNITION**

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| 2018 | Western Society of Weed Science, Outstanding Weed Scientist - Early Career   |
| 2018 | New Mexico State University Donald C. Roush Excellence in Teaching Award   |
| 2017 | Teaching Award of Merit from the North American Colleges and Teachers of Agriculture (NACTA) and NMSU College of ACES.                     |
| 2014 | Weed Science Society of America Award of Excellence for co-authorship of an outstanding paper published in <i>Weed Science</i> during 2012 |
| 2011 | Teaching Fellow, Faculty Institute for Reforming Science Teaching, National Science Foundation   |
| 2008 | Outstanding Performance Award, USDA-ARS Midwest Area   |
| 2006 | Outstanding Teaching Assistant in Plant Sciences, Ohio State University  |
| 2005 | Gladys Wittmeyer Knox-Gene Wittmeyer Scholarship   |
| 2004 | Best Student Paper in Weed Ecology and Biology, 59 <sup>th</sup> Annual Meeting of the North Central Weed Science Society                  |

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#### **PROFESSIONAL SOCIETY MEMBERSHIPS**

New Mexico Vegetation Management Association  
Western Society of Weed Science  
Weed Science Society of America

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#### **PROFESSIONAL SOCIETY SERVICE**

|                |  |
|----------------|--|
| 2017 – current | Western Society of Weed Science, Education and Regulatory Committee Chair                |
| 2016 – current | New Mexico advisory committee for Western Sustainable Agriculture Research and Extension |
| 2014 – current | Subject Editor for <i>Weed Research</i>  |

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| 2008 – current | Peer reviews for journals including, but not limited to: <i>Weed Science</i> , <i>Weed Technology</i> and <i>Invasive Plant Science and Management</i> |
| 2016 – 2017    | Weed Science Society of America, co-coordinator for the Southwest Regional Herbicide Resistance Listening Session                                      |
| 2015 – 2017    | Western Society of Weed Science, Local Arrangements Committee, Chair in 2016   |
| 2014           | Western Society of Weed Science, Basic Biology and Ecology Chair   |
| 2013 – 2016    | Weed Science Society of America, Research and Competitive Grants Committee   |