

## Ian Cristofer Burke

### PUBLICATIONS

\* denotes senior author or leadership of team research.

† denotes a publication from Washington State University research.

**TOTAL REFEREED PUBLICATIONS, IN PRINT OR IN PRESS: 65**

**BURKE, I.C. *h*-index = 19**

**Total Refereed Publications, In Print or In Press: 65**

**Burke, I. C. *h*-index = 19**

#### 2015

- Aramrack, A., K. K. Kidwell, C. M. Steber, and **I. C. Burke**. 2015. Molecular and phylogenetic characterization of the homoeologous EPSP Synthase genes of allohexaploid wheat, *Triticum aestivum* (L.). BMC Genomics (10.1186/s12864-015-2084-1).
- Lawrence, N. C., J. L. Bell, and **I. C. Burke**. 2015. Influence of application method and chemical form on the absorption and translocation of aminocyclopyrachlor in *Juglans nigra*. Weed. Sci. (10.1614/WS-D-15-00044.1).
- Young, F. L., D. K. Whaley, N. C. Lawrence, and **I. C. Burke**. 2015. Feral rye (*Secale cereale*) control in winter wheat in the Pacific Northwest. Weed Technol (10.1614/WT-D-015000109.1).
- Park, E. Y. B. K. Baik, P. R. Miller, **I. C. Burke**, E. A. Wegner, N. E. Tautges, C. Morris, and E. P. Fuerst. 2015. Functional and nutritional characteristics of wheat grown in organic and conventional cropping systems. Cereal Chem. 92:504-512.
- Wayman, S., C. Cogger, C. Benedict, D. Collins, I. C. Burke, and A. Bary. 2015. Cover crop effects on light, nitrogen, and weeds in organic reduced tillage. Agroecology and Sust. Food Sys. (10.1080/21683565.2015.10118398).
- Bell, J. A. and **I. C. Burke**. 2015. Genetic and biochemical evaluation of natural rubber from eastern Washington prickly lettuce (*Lactuca serriola* L.). J. Agric. Food Chem. 63:593-602.

#### 2014

- Lawrence, N. and **I. C. Burke**. 2014. Control of raitail fescue with pyroxasulfone and pyroxsulam systems. Weed Technol. (10.1614/WT-D-13-00156.1)
- Borrelli, K., R. Koenig, **I. C. Burke**, R. Gallagher, D. Pittmann, A. Snyder, and E. P. Fuerst. 2014. Transition cropping system impacts on organic wheat yield and quality. Renew. Ag Food Sys. (10.1017/S1742170514000283).
- Wayman, S., C. Cogger, D. Collins, C. Benedict, **I. C. Burke**, and A. Bary. 2014. The influence of cover crop variety, termination timing, and termination method on mulch, weed cover, and soil nitrate in organic reduced-tillage. Ren. Ag. And Food Sys. (10.1017/S1742170514000246).
- Guy, S. O., D. J. Wysocki, W. F. Schillinger, T. G. Chastain, R. S. Karow, K. Garland-Campbell, and **I. C. Burke**. 2014. Camelina: adaptation and performance of genotypes. Field Crops Res. 155:224-232.

#### 2012

- Smitchger, J., **I. C. Burke**, and J. P. Yenish. 2012. The critical period of weed control in chickpea. Weed Sci. 60:81-85.

- Walsh, D. T., E. M. Babiker, **I. C. Burke**, and S. H. Hulbert. 2012. Camelina mutants resistant to acetolactate synthase inhibitor herbicides. *Mol. Breeding* 30:1053-1063.
- Felix, J., R. Boydston, and **I. C. Burke**. 2012. Response of direct-seeded dry bulb onion to simulated glyphosate drift with variable rates. *Weed Technol.* 26:747-756.
- Lee, H., S. E. Ulrich, **I. C. Burke**, J. P. Yenish, and T. C. Paulitz. 2012. Interactions between the root pathogen *Rhizoctonia solani* AG-8 and acetolactate-synthase-inhibiting herbicides in barley. *Pest Manage. Sci.* 68:845-852.

## 2011

- \*†Bell, J. A., **I. C. Burke**, and T. Prather. 2011. Uptake, translocation and metabolism of aminocyclopyrachlor in prickly lettuce, yellow starthistle, and rush skeletonweed. *Pest Manage. Sci.* 67:1338-1348.
- \*†Riar, D. S., **I. C. Burke**, J. P. Yenish, and K. Gill. 2011. Physiological and genetic basis for 2,4-D resistance in prickly lettuce (*Lactuca serriola*). *J. Agric. Food Chem.* 59:9417-9423.
- \*†Smitchger, J., **I. C. Burke**, and J. P. Yenish. 2011. The critical period of weed control in chickpea. *Weed Sci.* DOI 10.1614/WS-D-11-00069.1.
- \*†Riar, D. S., S. Rustgi, **I. C. Burke**, K. S. Gill, and J. P. Yenish. 2011. EST-SSR development from 5 *Lactuca* species and their use in studying genetic diversity among *L. serriola* biotypes. *J. Hered.* 102:17-28.
- †Felix, J., R. Boydston, and **I. C. Burke**. 2011. Potato (*Solanum tuberosum*) response to simulated glyphosate drift. *Weed Technol.* 25:637-644.
- \*†Walsh, D. T., E. M. Babiker, **I. C. Burke**, and S. H. Hulbert. 2011. Camelina mutants resistant to acetolactate synthase inhibitor herbicides. *Mol. Breeding* DOI 10.1007/s11032-011-9689-0.
- †Riar, D. S., J. P. Yenish, D. Ball, and **I. C. Burke**. 2011. Efficacy of postemergence herbicides with a reduced herbicide applicator in fallow. *Weed Technol.* 25:447-453.
- †Lee, H., S. Rustgi, N. Kumar, **I. C. Burke**, J. P. Yenish, K. Gill, D. Von Wettstein, and S. Ulrich. 2011. A single point mutation in the barley acetohydroxy acid synthase (HvAHAS) gene confers resistance to imidazalinone herbicides. *PNAS* 108:11983-11988.
- Krutz, L. J., M. A. Locke, R. W. Steinriede, Jr., K. Reddy, L. Libious-Bailey, and **I. C. Burke**. 2011. Sediment and non-polar, postemergence pesticide transport differences between wide- and narrow row cotton production systems. *J. Soil Water Conserv.* (In Press).
- †Borrelli, K., R. Koenig, R. Gallagher, D. Pittman, A. Snyder, E. P. Fuerst, **I. C. Burke**, and L. Hoagland. 2011. Alternative Strategies for Transitioning to Organic Production in Direct-Seeded Grain Systems in Eastern Washington II: Nitrogen Fertility. *J. Sustain. Agr.* (In Press).

## 2010

- †Gallagher, R. S., D. Pittmann, A. M. Snyder, R. T. Koenig, E. P. Fuerst, **I. C. Burke** and L. Hoagland. 2010. Alternative strategies for transitioning to organic production in direct-seeded grain systems in Eastern Washington I: Crop Agronomy. *J. Sustain. Agr.* 34:483-503.

## 2009

- \*†**Burke, I. C.**, J. P. Yenish, D. Pittmann, and R. S. Gallagher. 2009. Resistance of a prickly lettuce biotype to 2,4-D. *Weed Technol.* 23:586-591.
- \***Burke, I. C.**, K. N. Reddy, and C. T. Bryson. 2009. Pitted and hybrid morningglory accessions have variable tolerance to glyphosate. *Weed Technol.* 23:592-598.
- \*Krutz, L. J., **I. C. Burke**, K. N. Reddy, R. M. Zablotowicz, and A. J. Price. 2009. Enhanced atrazine degradation: evidence for reduced residual weed control and a method for identifying adapted soils and predicting herbicide persistence. *Weed Sci.* 57:427-434.
- Reddy, K. N., **I. C. Burke**, J. C. Boykin, and J. R. Williford. 2009. Narrow-row cotton production under irrigated and non-irrigated environments: plant population and lint yield. *J. Cotton Sci.* 13:48-55.

## 2008

- \***Burke, I. C.**, S. C. Troxler, J. W. Wilcut, and W. D. Smith. 2008. Purple and yellow nutsedge (*Cyperus rotundus* L. and *C. esculentus* L.) response to postemergence herbicides in cotton (*Gossypium hirsutum* L.). *Weed Technol.* 22:615-621.
- \***Burke, I. C.**, W. E. Thomas, J. Allen, J. Collins, and J. W. Wilcut. 2008. A comparison of weed control in herbicide-resistant, herbicide-tolerant, and conventional corn (*Zea mays*). *Weed Technol.* 22:571-579.
- \*Everman, W. J., **I. C. Burke**, S. B. Clewis, W. E. Thomas, and J. W. Wilcut. 2008. Critical period of weed interference in peanut. *Weed Technol.* 22:63-67.
- \*Krutz, L. J., **I. C. Burke**, K. N. Reddy, and R. M. Zablotowicz. 2008. Evidence for cross-adaptation between *s*-triazine herbicides resulting in reduced efficacy under field conditions. *Pest. Manage. Sci.* 64:1024-1030.
- Bryson, C. T., K. N. Reddy, and **I. C. Burke**. 2008. Morphological comparison of morningglory (*Ipomoea* and *Jacquemontia* spp.) populations from the southeastern United States. *Weed Sci.* 56:692-698.
- Everman, W. J., S. B. Clewis, W. E. Thomas, **I. C. Burke**, and J. W. Wilcut. 2008. Critical period of grass vs. broadleaf weed interference in peanut. *Weed Technol.* 22:68-73.

## 2007

- \***Burke, I. C.**, C. H. Koger, K. N. Reddy, and J. W. Wilcut. 2007. Reduced translocation is the cause of antagonism of glyphosate by MSMA in browntop millet (*Brachiaria ramosa*) and Palmer amaranth (*Amaranthus palmerii*). *Weed Technol.* 21:166-170.
- \***Burke, I. C.**, J. B. Holland, J. D. Burton, A. C. York, and J. W. Wilcut. 2007. Johnsongrass (*Sorghum halepense*) pollen expresses ACCase target site resistance. *Weed Technol.* 21:384-388.
- \***Burke, I. C.**, J. W. Wilcut, and N. S. Allen. 2007. Viability and in vitro germination of johnsongrass pollen (*Sorghum halepense*) pollen. *Weed Technol.* 21:23-29.
- \***Burke, I. C.**, M. Schroeder, W. E. Thomas, and J. W. Wilcut. 2007. Palmer amaranth interference and seed rain dynamics in peanut. *Weed Technol.* 21:367-371.
- Everman, W. J., **I. C. Burke**, J. R. Allen, J. Collins, and J. W. Wilcut. 2007. Weed control and yield with glufosinate-resistant cotton weed management systems. *Weed Technol.* 21:695-701.
- \*Koger, C. H., **I. C. Burke**, D. K. Miller, J. A. Kendig, K. N. Reddy, and J. W. Wilcut. 2007. MSMA antagonizes glyphosate and glufosinate efficacy on grass and broadleaf weeds. *Weed Technol.* 21:159-165.

- Lassiter, B. R., **I. C. Burke**, W. E. Thomas, W. A. Pline-Srnic, D. L. Jordan, J. W. Wilcut, and G. G. Wilkerson. 2007. Yield and physiological response of peanuts to glyphosate drift. *Weed Technol.* 21:954-960.
- Reddy, K. N., C. T. Bryson, and **I. C. Burke**. 2007. Ragweed parthenium (*Parthenium hysterophorus*) control with preemergence and postemergence herbicides. *Weed Technol.* 21:982-986.
- Thomas, W. E., W. J. Everman, **I. C. Burke**, C. H. Koger, and J. W. Wilcut. 2007. Absorption and translocation of glyphosate and sucrose in glyphosate-resistant cotton. *Weed Technol.* 21:459-464.

## 2006

- \***Burke, I. C.**, J. W. Wilcut, and J. Cranmer. 2006. Cross resistance of a johnsongrass (*Sorghum halapense*) biotype to aryloxyphenoxypropionate and cyclohexanedione herbicides. *Weed Technol.* 20:571-575.
- \***Burke, I. C.**, W. E. Thomas, J. D. Burton, J. F. Spears, and J. W. Wilcut. 2006. A seedling assay to screen aryloxyphenoxypropionic acid and cyclohexanedione resistance in johnsongrass (*Sorghum halepense*). *Weed Technol.* 20:950-955.
- \***Burke, I. C.**, J. D. Burton, J. W. Wilcut, and J. Cranmer. 2006. Mechanism of resistance to clethodim in a johnsongrass (*Sorghum halepense*) biotype. *Weed Sci.* 54:401-406.
- Fisher, L. R., **I. C. Burke**, A. J. Price, W. D. Smith, and J. W. Wilcut. 2006. Uptake, translocation, and metabolism of root absorbed sulfentrazone and sulfentrazone plus clomazone in tobacco transplants. *Weed Technol.* 20:898-902.
- Thomas, W. E., **I. C. Burke**, J. E. Spears, and J. W. Wilcut. 2006. Influence of environmental factors on slender amaranth (*Amaranthus viridis*) germination. *Weed Sci.* 54:316-320.

## 2005

- \***Burke, I. C.**, S. D. Askew, J. L. Corbett, and J. W. Wilcut. 2005. Glufosinate antagonizes clethodim control of goosegrass (*Eleusine indica*). *Weed Technol.* 19:664-668.
- \***Burke, I. C.**, S. C. Troxler, S. D. Askew, W. D. Smith, and J. W. Wilcut. 2005. Weed management systems in glyphosate-resistant cotton (*Gossypium hirsutum*). *Weed Technol.* 19:162-169.
- \***Burke, I. C.**, W. E. Thomas, W. A. Pline-Srnic, L. R. Fisher, W. D. Smith, and J. W. Wilcut. 2005. Yield and physiological response of flue-cured tobacco (*Nicotiana tabacum*) to simulated glyphosate drift. *Weed Technol.* 19:255-260.
- \*Thomas, W. E., **I. C. Burke**, B. R. Robinson, W. A. Pline, K. L. Edmisten, R. Wells, and J. W. Wilcut. 2005. Yield and physiological response of non-transgenic cotton (*Gossypium hirsutum*) to simulated glyphosate drift. *Weed Technol.* 19:35-42.
- Lancaster, S. H., A. C. York, **I. C. Burke**, F. Corbin, Y. B. Sheldon, D. Monks, and D. L. Jordan. 2005. Interactions of clethodim and sethoxydim with selected fungicides used in peanut (*Arachis hypogaea*). *Weed Technol.* 19:397-403.

## 2004

- \***Burke, I. C.**, A. J. Price, D. L. Jordan, A. S. Culpepper, J. T. Ducar, and J. W. Wilcut. 2004. Weed control and mixture interactions with imazapic, 2,4-DB, and clethodim. *Weed Technol.* 18:88-92.

- \***Burke, I. C.** and J. W. Wilcut. 2004. Weed management in cotton with CGA-362622, fluometuron, and pyriithiobac. *Weed Technol.* 18:268-276.
- McElroy, J. S., **I. C. Burke**, J. W. Wilcut, and F. H. Yelverton. 2004. Absorption, translocation, and metabolism of halosulfuron in green and false green kyllinga. *Weed Sci.* 52:704-710.
- \*Thomas, W. E., **I. C. Burke**, and J. W. Wilcut. 2004. Weed management in glyphosate-resistant corn with glyphosate and halosulfuron. *Weed Technol.* 18:1049-1057.
- \*Thomas, W. E., **I. C. Burke**, and J. W. Wilcut. 2004. Weed management in glyphosate resistant corn with glyphosate, halosulfuron, and mesotrione. *Weed Technol.* 18:826-834.

## 2003

- \***Burke, I. C.** and J. W. Wilcut. 2003. Physiological basis for antagonism of clethodim by CGA-362622. *Weed Sci.* 51:671-677.
- \***Burke, I. C.** and J. W. Wilcut. 2003. Physiological basis for antagonism of clethodim by imazapic on goosegrass (*Eleusine indica* (L.) Gaertn). *Pest. Biochem. Physiol.* 76:37-45.
- \***Burke, I. C.**, W. E. Thomas, J. F. Spears, and J. W. Wilcut. 2003. Influence of environmental factors on after-ripened crowfootgrass (*Dactyloctenium aegyptium*) seed germination. *Weed Sci.* 51:342-347.
- \***Burke, I. C.**, W. E. Thomas, J. F. Spears, and J. W. Wilcut. 2003. Influence of environmental factors on broadleaf signalgrass (*Brachiaria platyphylla*) seed germination. *Weed Sci.* 51:683-689.
- Troxler, S. C., **I. C. Burke**, J. W. Wilcut, and W. D. Smith. 2003. Absorption, translocation, and metabolism of foliar applied CGA 362622 in purple and yellow nutsedge (*Cyperus rotundus* and *C. esculentus* L). *Weed Sci.* 51:13-18.

## 2002

- \***Burke, I. C.**, J. W. Wilcut, and D. Porterfield. 2002. CGA-362622 antagonizes annual grass control with clethodim. *Weed Technol.* 16:749-754.
- \***Burke, I. C.**, S. D. Askew, and J. W. Wilcut. 2002. Flumioxazin systems for weed management in North Carolina peanut (*Arachis hypogaea*). *Weed Technol.* 16:743-748.

## TOTAL REFEREED PUBLICATIONS, IN REVIEW: 2

## ABSTRACTS, PROCEEDINGS AND PRESENTATIONS

### Previous Five Years

#### 2011:

- Bell, J., **I.C. Burke**, and D.S. Riar. 2011. Comparison of Foliar vs Basal Bark Applications of Radiolabeled Aminocyclopyrachlor in Select Tree Species. *Proc. West. Soc. Weed Sci.* 64:71.
- Malone, H. C., **I. C. Burke**, and W. Pan. 2011. Growth and development of *Artemisia annua* in eastern Washington. *Weed Sci. Soc. Am. Abst.* 51:90.
- Malone, H. C., **I. C. Burke**, and W. Pan. 2011. Growth and artemisinin accumulation in *Artemisia annua* in eastern Washington. *Proc. West. Soc. Weed Sci.* 64:99.

- Manuchehri, M. R., **I. C. Burke**, T. Rauch, D. Ball, and D. Thill. 2011. Effects of mesosulfuron on the growth of six winter wheat varieties. *Weed Sci. Soc. Am. Abst.* 51:16.
- Unger, R., **I. C. Burke**, and D. Huggins. 2011. Analyzing Seed Weed Bank Data using Random Forest Regression. *Proc. West. Soc. Weed Sci.* 64:154.
- Raeder, A., I. Madsen, and **I.C. Burke**. Herbicide Cross-Resistance in Acetolactate-Synthase Inhibitor Resistant Prickly Lettuce. *Proc. West. Soc. Weed Sci.* 64:72.
- Unger, R., D. Huggins, **I. C. Burke**, E. Gallandt, and S. Higgins. 2011. Analyzing Crop, Soil, and Terrain Impacts on Weed Seed Bank using Random Forest Regression. *Weed Sci. Soc. Am. Abst.* 51: 81.
- Manuchehri, M. R., P. Fuerst, **I. C. Burke**, and D. Pittmann. 2011. Relative competitiveness of spring crops in Eastern Washington dryland organic systems. *Proc. West. Soc. Weed Sci.* 64:104.

#### 2010:

- Burke, I. C.**, J. Bell, T. Rauch, D. Thill, D. Ball, and J. P. Yenish. 2010. Detection and persistence of imazethapyr in a Palouse silt loam. *Proc. West. Soc. Weed Sci.* 63:91.
- Bell, J., **I. C. Burke**, and M. Neff. 2010. Characterization of rubber production in eastern Washington prickly lettuce biotypes. *Proc. West. Soc. Weed Sci.* 63:91.
- Bell, J., **I. C. Burke**, T. Prather, and C. W. Kral. 2010. Physiological Behavior of Aminocyclopyrachlor in Rush Skeletonweed (*Chondrilla juncea*). *Proc. West. Soc. Weed Sci.* 63:3.
- Smitchger, J., **I. C. Burke**, and J. P. Yenish. 2010. The Critical Period of Weed Control in Chickpeas. *Proc. West. Soc. Weed Sci.* 63: 27.
- Riar, D. S., **I. C. Burke**, J. Bell, K. Gill, and J. P. Yenish. 2010. Inheritance and Metabolism of 2,4-D Resistance in Prickly Lettuce. *Proc. West. Soc. Weed Sci.* 63:39.
- Rauch, T., D. Thill, **I. C. Burke**, D. Pittmann, J. Yenish, R. Rood, D. Ball, and L. Bennett. 2010. Winter wheat varieties response to mesosulfuron applied under adverse environmental conditions in Idaho, Oregon, and Washington. *Proc. West. Soc. Weed Sci.* 63:23.
- Smitchger, J., J. P. Yenish, and **I. C. Burke**. 2010. The Critical Period of Weed Control in Lentils. *Proc. West. Soc. Weed Sci.* 63:72.

#### 2009:

- Burke, I. C.**, E. Gallandt, S. Higgins, and D. Huggins. 2009. Weed population dynamics in Pacific Northwest minimum disturbance systems. *Weed Sci. Soc. Am. Abst.* 49:41.
- Burke, I. C.**, E. Gallandt, S. Higgins, and D. Huggins. 2009. Weed population dynamics in Pacific Northwest minimum disturbance systems. *Proc. West Soc. Weed Sci.* 61:42.
- Bell, J., **I. C. Burke**, and T. S. Prather. 2009. The physiological behavior of aminocyclopyrachlor in selected invasive weed species. *Weed Sci. Soc. Am. Abst.* 49:78.
- Stevens, R. and **I. C. Burke**. 2009. Field response of prickly lettuce accessions to application s of 2,4-D, glyphosate, pyrasulfotole plus bromoxynil, and thifensulfuron. *Proc. West Soc. Weed Sci.* 61:26.
- Stevens, R. and **I. C. Burke**. 2009. Response of rush skeletonweed to postemergence foliar vs. soil treatments of aminocyclopyrachlor, aminopyralid, and clopyralid. *Proc. West Soc. Weed Sci.* 61:94.

- Babiker, E., S. H. Hulbert, I. C. Burke, and T. Paulitz. 2009. Influence of weed species and time of glyphosate application on Rhizoctonia root rot of barley. *Am. Phytopath. Soc.*
- Rauch, T. D. Thill, **I. C. Burke**, D. Pittmann, J. P. Yenish, R. Rood, D. Ball, and L. Bennett. 2009. Response of winter wheat varieties to mesosulfuron applied under adverse environmental conditions. *Proc. West Soc. Weed Sci.* 61:22.
- Riar, D. S., J. Yenish, and **I. C. Burke**. 2009. Mechanism of resistance to 2,4-D in prickly lettuce. *Weed Sci. Soc. Am. Abst.* 49:285.
- Riar, D. S., S. Rustgi, **I. C. Burke**, K. S. Gill, and J. P. Yenish. 2009. Development and characterization of functional SSR markers in prickly lettuce (*Lactuca serriola*). *Proc. West Soc. Weed Sci.* 61:122.
- Smitchger, J. J. P. Yenish, and **I. C. Burke**. 2009. The critical period of weed control in lentil and chickpea. *Proc. West Soc. Weed Sci.* 61:85.
- Bell, J., R. Stevens, T. S. Prather, and **I. C. Burke**. 2009. Absorption and translocation of aminocyclopyrachlor in rush skeletonweed, prickly lettuce, and yellow starthistle. *Proc. West Soc. Weed Sci.* 61:96.

**2008:**

- Burke, I. C.**, J. P. Yenish, D. Pittman, and R. Gallagher. 2008. 2,4-D-resistant prickly lettuce in Washington. *Weed Sci. Soc. Am. Abst.* 48:(CD-ROM).
- Burke, I. C.**, J. P. Yenish, D. Pittman, and R. Gallagher. 2008. 2,4-D resistant prickly lettuce (*Lactuca serriola* L.) in Washington. *Proc. West Soc. Weed Sci.* 61:40.
- Flint, C. and **I. C. Burke**. 2008. The effects of pH on *Lactuca serriola* germination. *Proc. West. Soc. Weed Sci.* 61:14.
- Kuehl, L., **I. C. Burke**, and F. L. Young. 2008. Determination of Russian thistle epicuticular wax density and composition in response to water stress. *Proc. West. Soc. Weed Sci.* 61:13.
- Stevens, R. and **I. C. Burke**. 2008. Prickly lettuce recruitment and control in CRP land in eastern Washington. *Proc. West Soc. Weed Sci.* 61:32.
- Riar, D. S., **I. C. Burke**, and J. P. Yenish. 2008. Absorption and translocation of 2,4-D in resistant prickly lettuce. *Proc. West Soc. Proc. Weed Sci.* 61:42.
- Stevens, R., A. Snyder, R. Gallagher, D. Pittman, **I. C. Burke**, E. P. Fuerst, and R. Koenig. 2008. Organic transition cropping systems for weed management in eastern Washington. *Proc. West Soc. Weed Sci.* 61:11.

**2007:**

- Burke, I. C.**, J. Shultz, J. Ray, C. T. Bryson, and K. N. Reddy. 2007. Genomic variation and genetic relationships among pitted morningglory (*Ipomoea lacunosa* L.) accessions. *Weed Sci. Soc. Am. Abst.* 47:(CD-ROM).
- Lockard, M., **I. C. Burke**, and J. P. Yenish. 2007. Investigations into 2,4-D and glyphosate tolerance in prickly lettuce (*Lactuca serriola*). *West. Soc. Weed Sci.* 60:16.
- Reddy, K. N., **I. C. Burke**, and C. T. Bryson. 2007. Differences in relative tolerance to glyphosate in eleven pitted morningglory accessions. *Weed Sci. Soc. Am. Abst.* 47:(CD-ROM).
- Bryson, C. T., K. N. Reddy, and **I. C. Burke**. 2007. Differential morphology of morningglory populations from the southern United States. *Weed Sci. Soc. Am. Abst.* 47:(CD-ROM).

- Farno, LA, D. R. Shaw, **I. C. Burke**, and K. N. Reddy. 2007. Effects of temperature and water stress on glyphosate efficacy on pitted morningglory. Weed Sci. Soc. Am. Abst. 47:(CD-ROM).
- Krutz, L. J., R. M. Zablotowicz, **I. C. Burke**, K. N. Reddy, C. H. Koger, and M. A. Weaver. 2007. Enhanced atrazine degradation in the Mississippi Delta: development, maintenance, and impact on weed control. Weed Sci. Soc. Am. Abst. 47:(CD-ROM).

## **ACADEMIC AND EXTENSION SERVICE ACTIVITIES**

### **2010:**

- Member, Finance Committee, Weed Science Society of America.**
- Associate Editor, Weed Technology, 2<sup>nd</sup> 3 Year Term.**
- Columbia County Field Tour: Control of Rattail Fescue with Powerflex (Invited).**
- Colfax Direct Seeders Breakfast Meeting: Transitioning CRP to production (Invited).**
- Boyd Farm Organic Wheat Production Field Day: Mechanical weed control strategies (Invited).**
- Spillman Crop Diagnostic Clinic: Diagnosing herbicide injury (Invited).**

### **2009:**

- Secretary, Western Society of Weed Science, 2 Year Term.**
- Chair, Agronomic Crops Section, Western Society of Weed Science.**
- Member, Weed Resistance Committee, Western Society of Weed Science.**
- Member, Weed Biology Committee, Weed Science Society of America.**
- Cook Agronomy Farm Field Day: Prickly Lettuce Accession Response to Broadleaf Herbicides (Invited).**
- WSU Weed Science Field Day: Winter Wheat Variety Tolerance to Osprey (Invited).**
- Washington State Weed Association: Winter Wheat Variety Tolerance to Osprey.**
- Rush Skeletonweed Field Day, Cambridge, ID.: Absorption and translocation of aminocyclopyrachlor in rush skeletonweed.**
- Direct Seed Conference, Pasco, WA.: Pursuit Carryover to Oilseed Crops (Invited).**
- Colfax Direct Seeders Breakfast Meeting: 2,4-D Resistance in Prickly Lettuce (Invited).**
- Walla Walla Cereal Grain Conference: 2,4-D Resistance in Prickly Lettuce (Invited).**
- Lewiston Direct Seeders Breakfast Meeting: 2,4-D Resistance in Prickly Lettuce (Invited).**

### **2008:**

- Secretary, Western Society of Weed Science, 2 Year Term**
- Chair, Poster Section, Weed Science Society of America**
- Lind Field Day: Weed Control, Application Timing, and Adjuvants for use with Powerflex (Invited).**



**Washington State Weed Association:** Identification of Herbicide Resistance: 2,4-D Resistant Prickly Lettuce (Invited).

**Washington State Weed Association:** Agronomics and Weed Control in Peanut in the Columbia Basin.

**2007:**

**Associate Editor, Weed Technology, 3 Year Term.**

**Chair, Agronomic Crops Section, Weed Science Society of America.**

**Cook Farm Field Day:** Seed Bank Response to Direct-Seed Rotations (Invited).

**Cook Farm Field Day:** Weed Control with a Weed-Sensing Sprayer (Invited).

**North Lincoln County Field Day:** Update on 2,4-D Resistant Prickly Lettuce (Invited).

**Washington State Weed Association.** Weed Management Challenges with Peanut.

**Washington State Weed Association.** Weed Seeker Technology.

**Herbicide Fate and Mode of Action Course:** Lipid Biosynthesis Inhibitor Herbicides.

**Herbicide Fate and Mode of Action Course:** Herbicide Resistant Crops.

**2004:**

**Peanut Field Day:** Weed Identification Clinic.

**Cotton Field Day:** Identification of Common North Carolina Amaranths.

**2003:**

**Peanut Field Day:** Weed Identification Clinic.

**2002:**

**Cotton Field Day:** Weed Identification Clinic, Site-Specific Sprayer Demonstration.

**2001:**

**Peanut Field Day:** Weed Identification Clinic.

**2000:**

**Cotton Field Day:** Weed Identification Clinic

**PROFESSIONAL AFFILIATIONS**

American Society of Agronomy  
Crop Science Society of America  
Gamma Sigma Delta Honor Society of Agriculture  
Weed Science Society of America  
Western Society of Weed Science  
Washington State Weed Association  
Southern Weed Science Society  
American Peanut Research and Education Society