

CURRICULUM VITAE

NAME

Davis, Jessica G

ADDRESS

Soil and Crop Sciences
College of Agricultural Sciences

Plant Sciences
Plant Science

PHONE

(970) 491-1913

EDUCATION

2013 Graduate Certificate in Entrepreneurship, Boston University

1989 Ph D, Texas A & M University

1984 MS, Texas Tech University

1983 BS, Cornell University

ACADEMIC POSITIONS

September 1, 1995 - 2001 Associate Professor, Colorado State University.

SABBATICALS

(2005) Fulbright, beef and dairy manure management
Argentina and Uruguay

(2012) NA, cyanobacterial bio-fertilizer
Colorado and Ethiopia

OTHER POSITIONS

2012 - Present Affiliate Faculty, Hawassa University, Ethiopia.

2001 - Present Professor, Colorado State University.

2008 - 2012 Director of Institute for Livestock and the Environment, Colorado State University.

1989 - 1995 Assistant Professor, University of Georgia.

PUBLISHED WORKS

Refereed Journal Articles

Sukor, A., Stromberger, M. E., Storteboom, H. N., Davis, J. G. Nitrogen mineralization of cyanobacterial fertilizers compared to commonly-used organic fertilizers applied to different soil types. *Soil Science Society*

of America Journal.

- Moshia, M. E., Khosla, R., Longchamps, L., Reich, R., Davis, J. G., Westfall, D. G. (2014). Precision manure management across site-specific management zones: Grain yield and economic analysis. *Agronomy Journal*, 106, 2146-2156.
- Moshia, M. E., Khosla, R., Davis, J. G., Westfall, D. G., Dowsken, K. (2014). Precision manure management on site-specific management zones: Topsoil quality and environmental impact. *Communications in Soil Science & Plant Analysis*, 46, 235-258.
- (2012). Rapid changes in microbial biomass and aggregate size distribution in response to changes in organic matter management in grass pasture. *Geoderma*, 193-194, 68-75.
- (2012). Short-term nitrogen mineralization during transition from conventional to organic management is unchanged by composted dairy manure addition in perennial forage production system. *Organic Agriculture*.
- Hurisso, T. T., Davis, J. G., Brummer, J. E., Stromberger, M. E., Mikha, M. M., Booher, M. R. (2012). Short-term nitrogen mineralization during transition from conventional to organic management is unchanged by composted dairy manure addition in perennial forage systems. *Org. Agr.*, 2, 219-232. link.springer.com/article/10.1007/s13165-013-0037-z#page-1
- (2012). Steroid hormone runoff from agricultural test plots applied with municipal biosolids. *Environ Sci Technol*, 46, 2746-2754.
- (2011). Earthworm abundance and species composition in organic forage production systems of northern Colorado receiving different soil amendments. *J Applied Soil Ecology*, 47, 45-50.
- (2010). Degradation Kinetics of Testosterone by Manure-Borne Bacteria. *J Environ Qual*, 39, 1153-1160.
- (2010). Identification of Antibiotic-Resistance-Gene Molecular Signatures Suitable as Tracers of Pristine River, Urban, and Agricultural Sources. *Environ Sci Technol*, 44, 1947-1953.
- (2010). Macroscopic and microscopic variation in recovered magnesium phosphate materials. *Bioresource Technol*, 101, 877-885.
- (2010). Simulated rainfall study for transport of veterinary antibiotics - mass balance analysis. *J Hazard Mater*, 175, 836-843.
- (2010). tet and sul Antibiotic Resistance Genes in Livestock Lagoons of Various Operation Type, Configuration, and Antibiotic Occurrence. *Environ Sci Technol*, 44, 6102-6109.
- (2009). Effectiveness of Recovered Magnesium Phosphates as Fertilizers in Neutral and Slightly Alkaline Soils. *Agron J*, 101, 323-329.
- (2009). Effectiveness of recovered magnesium phosphates as fertilizers in neutral and slightly alkaline soils. *Agron J*, 101, 323- 329.
- (2009). Topdressing Kentucky bluegrass with compost increases soil water content and improves turf quality during drought. *Compost Sci & Utilization*, 17, 95-102.
- (2009). Topdressing Kentucky Bluegrass with Compost Increases Soil Water Content and Improves Turf Quality During Drought. *Compost Sci Util*, 17, 95-102.

- (2008). Influence of laboratory methods on calcareous saline soils for EC measurement and leaching. *Commun Soil Sci Plant Anal*, 39, 329-343.
- (2008). Influence of laboratory methods on calcareous saline soils for EC measurement and leaching. *Commun Soil Sci Plant Anal*, 39, 15-Jan.
- (2007). Response of antibiotics and resistance genes to high-intensity and low-intensity manure management. *J Environ Qual*, 36, 1695-1703.
- (2006). Antibiotic transport via runoff and soil loss. *J Environ Qual*, 35, 2250-2260.
- (2006). Optimizing soil and plant responses to land-applied manure nutrients in the Great Plains of North America. *Can J Soil Sci*, 86, 587-595.
- (2006). Topdressing turf with composted manure improves soil quality and protects water quality. *Soil Sci Soc Am J*, 70, 2114-2121.
- (2004). Fenamiphos losses under simulated rainfall. *T Asae*, 47, 669-676.
- (2002). Accounting for seasonal nitrogen mineralization. *J Soil Water Conserv*, 57, 464-469.
- (2002). Nutrient variability in manures. *J Soil Water Conserv*, 57, 473-478.
- (2001). Slope length effects on runoff and sediment delivery. *J Soil Water Conserv*, 56, 249-256.
- (2000). GLEAMS, Opus, PRZM2 beta, and PRZM3 simulations compared with measured atrazine runoff. *Soil Sci Soc Am J*, 64, 2070-2079.
- (1999). Nutrient uptake and growth response of six wetland/riparian plant species receiving swine lagoon effluent. *T Asae*, 42, 1331-1341.
- (1999). Runoff from a cornfield as affected by tillage and corn canopy. *Water Resour Res*, 35, 2881-2885.
- (1998). GLEAMS*, Opus, and PRZM-2 model predicted versus measured runoff from a coastal plain loamy sand. *T Asae*, 41, 77-88.
- (1998). Influence of tractor wheel tracks and crusts/seals on runoff. *Agr Syst*, 57, 77-100.
- (1998). Nitrate-nitrogen, soluble, and bioavailable phosphorus runoff from simulated rainfall after fertilizer application. *Soil Sci Soc Am J*, 62, 1711-1718.
- (1998). Nitrogen assimilation by riparian buffer systems receiving swine lagoon wastewater. *T Asae*, 41, 1295-1304.
- (1997). Soil characteristics of cropland fertilized with feedlot manure in the South Platte river basin of Colorado. *J Soil Water Conserv*, 52, 327-331.
- (1996). Long-term phosphorus and potassium application to corn on coastal plain soils. *J Prod Agric*, 9, 88-94.
- (1996). Nutrient concentrations in the soil solution and shallow groundwater of a liquid dairy manure land application site. *T Asae*, 39, 1357-1365.
- (1996). Provision of mid-season potassium requirements in cotton with slow release potassium applied preplant. *J*

Plant Nutr, 19, 14-Jan.

- (1996). Soil pH and magnesium effects on manganese toxicity in peanuts. *J Plant Nutr*, 19, 535-550.
- (1995). Comparison of Soil Zinc Extractants for Detection of Applied Zinc and Prediction of Leaf Zinc Concentration. *Commun Soil Sci Plan*, 26, 2969-2981.
- (1995). Designing riparian buffer systems for utilization and treatment of effluent. *Asae Publ*, 95, 75-77.
- (1995). Impact of Time of Day and Time since Irrigation on Cotton Leaf Blade and Petiole Nutrient Concentrations. *Commun Soil Sci Plan*, 26, 2351-2360.
- (1995). Interactive Mechanisms of Anion Adsorption with Calcium Leaching and Exchange. *Soil Sci*, 160, 256-264.
- (1995). Runoff and Leaching of Crop Nutrients from Soil in Tilted Beds as Influenced by 3 Rates of Dairy Lagoon Effluent. *J Environ Sci Heal B*, 30, 243-264.
- (1995). Use of Deep Tillage and Liming to Reduce Zinc Toxicity in Peanuts Grown on Flue Dust Contaminated Land. *Soil Technol*, 8, 85-95.
- (1995). Variability of Soil Chemical-Properties in 2 Sandy, Dunal Soils of Niger. *Soil Sci*, 159, 321-330.
- (1995). Varietal Tolerance of Zinc Toxicity in Peanuts. *J Plant Nutr*, 18, 2157-2178.
- (1994). Managing Plant Nutrients for Optimum Water-Use Efficiency and Water Conservation. *Adv Agron*, 53, 85-120.
- (1994). Phosphorus Management of a Millet/Cowpea Intercrop System on Sandy Dunal Soils of Western Niger. *J Plant Nutr*, 17, 899-910.
- (1994). The Mechanics of Pesticide Runoff. *Abstr Pap Am Chem S*, 207, 52-Agro.
- (1993). Herbicide Runoff Measurements from Small Plots - How Realistic. *Proc Brighton Crop*, 26, 1291-1298.
- (1993). Seasonal Phosphorus Losses in Runoff from a Coastal-Plain Soil. *J Prod Agric*, 6, 507-513.
- (1993). Zinc Toxicity Symptom Development and Partitioning of Biomass and Zinc in Peanut Plants. *J Plant Nutr*, 16, 2353-2369.

Non-Refereed Journal Articles

- Moshia, M., Khosla, R., Westfall, D. G., Davis, J. G., Reich, R., Longchamps, L. (2015). Precision Manure Management across Site-Specific Management Zones: Top Soil Quality and Environmental Impact. *Commun. In Plant Sci and Anal.*
- Moshia, M., Khosla, R., Davis, J. G., Reich, R., Longchamps, L. (2014). Precision Manure Management Across Site-Specific Management Zones: grain Yield and Economic Analysis. *Agronomy Journal*.
- Moshia, M., Khosla, R., Davis, J. G., Reich, R. (2014). Precision Manure Management on Site-specific Management Zones: Nitrogen Mineralization. *Journal of Plant Nutrition*.
- Yang, Y.-Y., Gray, J. L., Furlong, E. T., Davis, J. G., ReVello, R. C., Borch, T. (2012). Steroid hormone runoff

from agricultural test plots applied with municipal biosolids. *Environmental science & technology*, 46(5), 2746–2754.

Yang, Y.-Y., Borch, T., Young, R. B., Goodridge, L., Davis, J. G. (2010). Degradation kinetics of testosterone by manure-borne bacteria: Influence of temperature, pH, glucose amendments, and dissolved oxygen. *Journal of environmental quality*, 39(4), 1153–1160.

Borch, T., Davis, J. G., Yang, Y., Young, R. B. (2009). Occurrence of steroid sex hormones in the Cache la Poudre River, and pathways for their removal in the environment. *Completion Report*(216).

Davis, J. G., Borch, T., Marcellac, N. (2008). Agriculture's Contribution to Nitrogen Deposition in Rocky Mountain National Park. *Great Plains Soil Fertility Conference*, 45–53.

Yang, Y.-Y., Borch, T., Davis, J. G. (2008). Degradation of Steroid Hormones in Pig Manure. *2008 Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM*.

Young, R. B., Borch, T., Gray, J. L., Foreman, W. T., Davis, J. G., Yang, Y.-Y. (2008). Presence and Fate of Steroid Hormones in a Colorado River. *2008 Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM*.

Jones, J., Borch, T., Young, R. B., Davis, J. G., Simpson, C. R. (2007). PHOTOLYSIS OF TESTOSTERONE, PROGESTERONE AND 17 β -ESTRADIOL BY UVA LIGHT. *Citeseer*.

Non-Refereed Proceedings or Transactions

Barminski, R., Storteboom, H. N., Davis, J. G. (2014). *Development of an organic growth medium for cyanobacterial biofertilizer production* (pp. pp. 140-145). Great Plains Soil Fertility Conference.

Toonsiri, P., DelGrosso, S. J., Davis, J. G., Sukor, A., Smith, M., Reyes-Fox, M. (2014). *Greenhouse gas emissions from organic fertilizers applied to lettuce* (pp. pp. 153-157). Great Plains Soil Fertility Conference.

Sukor, A., Davis, J. G. (2014). *Influence of commercial organic and cyanobacterial fertilizers on yield and nitrogen use efficiency of lettuce* (pp. pp. 146-152). Great Plains Soil Fertility Conference.

Abulobaida, M., Hansen, N., Cotrufo, F., Davis, J. G. (2014). *Irrigation effects on soil inorganic carbon sequestration in semi-arid cropping systems* (pp. pp. 164-169). Great Plains Soil Fertility Conference.

Yoder, N. B., Stonaker, F., Davis, J. G. (2014). *Organic fertilizer comparison on kale yield and nutrient content* (pp. pp. 158-163). Great Plains Soil Fertility Conference.

(2012). *Best Management Practices for Reducing Ammonia Emissions: Beef Cattle Nutrition*. Colorado State University Extension factsheet no 1631C.

(2012). *Best Management Practices for Reducing Ammonia Emissions: Feedlot Pen Management*. Colorado State University Extension factsheet no 1631A.

(2012). *Best Management Practices for Reducing Ammonia Emissions: Lagoon Covers*. Colorado State University Extension factsheet no 1631B.

- (2012). *Best Management Practices for Reducing Ammonia Emissions: Manure Application*. Colorado State University Extension factsheet no 1631D.
- (2012). *Comparison of reference evapotranspiration from the American Society of Civil Engineers (ASCE) standardized Penman Monteith and Kimberly-Penman equations in northeast Colorado*. ASA/SSSA/CSSA Annual Meeting, October.
- (2012). *Compostación de Ganado Muerto para Instalaciones Grandes y Pequeños en el Oeste Semiárido*. Colorado State University Extension; Fort Collins, CO--a video.
- (2012). *Compostación de Ganado Muerto para Instalaciones Grandes y Pequeños en el Oeste Semiárido*. Montana State University; Bozeman, MT.
- (2012). *Developing an on-farm bio-fertilizer production system using cyanobacteria*. ASA/SSSA/CSSA Annual Meeting, October.
- (2012). *Development of an organically certified growth-medium for cyanobacteria*. ASA/SSSA/CSSA Annual Meeting, October.
- (2012). *Institute for Livestock and the Environment*. bi-annual report to the CSU Vice President for Research.
- (2012). *Livestock Mortality Composting for Large and Small Operations in the Semi-Arid West*. Colorado State University Extension; Fort Collins, CO--a video.
- (2012). *Livestock Mortality Composting for Large and Small Operations in the Semi-Arid West*. Montana State University; Bozeman, MT.
- (2012). *Nitrogen mineralization potential of cyanobacterial fertilizers compared to traditional organic fertilizers applied to clayey and sandy soils*. ASA/SSSA/CSSA Annual Meeting, October.
- (2012). *Re thinking cattle manure and compost N mineralization rates* (pp. 77-82). Great Plains Soil Fertility Conference Proceedings; Denver, CO: 6-7 March.
- (2012). *The effect of irrigation and cropping systems on carbon stocks in semi-arid lands* (pp. 265-271). Great Plains Soil Fertility Conference Proceedings; Denver, CO: 6-7 March.
- (2011). *Adapting Livestock Systems to Climate Change*. Collaborative Research Support Program 2010 Annual Report.
- (2011). *Contemplating Carbon: Exploring Challenges & Opportunities for Livestock Producers*. 4th Annual Stakeholder Summit Nov 17, http://livestockandenvironment.org/wp-content/uploads/2012/01/AbstractBook_2011Summit_20111116_final.pdf.
- (2011). *Exploring the Potential for Cyanobacterial Nitrogen Fertilizer to Improve Soil Fertility in Ethiopia*. CSU's Africa Colloquium March 30-31.
- (2011). *Fertilizing cool season grasses and grass/legume mixtures*. Colorado State University Extension factsheet 0 522.
- (2011). *Harnessing the Sun for On-farm Fertilizer Production*. Bioscience Discovery Evaluation Grant Program Final Report May 31, Grant No.: 10BGF-26.

- (2011). *In-Service Training and Decision-making Tools for Optimizing Livestock Mortality Management*. ILE's 4th Annual Stakeholder Summit 17 Nov.
- (2011). *Institute for Livestock and the Environment website*. <http://livestockandenvironment.org/> (major revision and update) and blog.
- (2011). *Livestock Mortality Composting: for large and small operations in the semi-arid west*. (Lupis, S, and Bass, T, eds) Montana State University bulletin 26 pages.
- (2011). *Livestock, Climate Change, and Nutrition: Leveraging Livestock to Improve Livelihoods*. Livestock Climate Change CRSP Program Brief PB-02-11 January.
- (2011). *Mali Livestock, Pastoralism, and Poultry Initiative Annual Report*. Adapting Livestock Systems to Climate Change Collaborative Research Support Program Mali Associate Award 39 pp.
- (2011). *On-farm cyanobacterial nitrogen fertilizer production in Ethiopia*. American Society of Agronomy, Oct 16-19, San Antonio, TX.
- (2011). *On-farm Evaluation and Demonstration of Ammonia Reduction Best Management Practices (BMPs) for Feedlots and Dairies*. USDA-NRCS-Conservation Innovation Grant Final Report June 30.
- (2011). *Regional Innovation Consortia: Collaboration for innovation*. Livestock Climate Change CRSP Program Brief PB-04-11 August.
- (2011). *The Salt Lick, quarterly newsletter, Institute for Livestock and the Environment*. <http://livestockandenvironment.org/news/publications/the-salt-lick-newsletter/>.
- (2011). *The Seed Grant Program for Nepal: Building a foundation for long-term investment*. Livestock Climate Change CRSP Program Brief PB-03-11 June.
- (2010). *Best Management Practices for Reducing Ammonia Emissions*. Colorado State University Extension factsheet 1 631.
- (2010). *Cultivating cyanobacteria as a low fossil fuel nitrogen source*. Colorado State University Celebrate Undergraduate Research and Creativity Showcase, April.
- (2010). *Determining Nitrogen Mineralization from Composted Dairy Manure and Impact on Irrigated Perennial Grass Mixes*. ASA, CSSA, and SSSA 2010 International Annual Meetings Oct 31- Nov 4; Long Beach, CA.
- (2010). *Exploring the potential for cyanobacterial nitrogen fertilizer to improve soil fertility in Ethiopia*. American Society of Agronomy Annual Meeting, October.
- (2010). *Hormone and Anthropogenic Waste Indicator Runoff from Biosolids Amended Soils*. ASA, CSSA, and SSSA 2010 International Annual Meetings Oct 31-Nov 4; Long Beach, CA.
- (2010). *Livestock and Climate Change: A Global Perspective on Problem Solving*. Livestock Links, May.
- (2010). *Precision Manure Management across Site Specific Management Zones*. ASA, CSSA, and SSSA 2010 International Annual Meetings Oct 31-Nov 4; Long Beach, CA.
- (2010). *Short- Term Effects of Top-Dressing Organic Perennial Forages with Composted Dairy Manure on Microbial Biomass, Earthworm Abundance, and Aggregate Stability*. Proceedings of the Great Plains Soil Fertility Conference, March 2-3, Denver, CO.

(2010). *The effect of organic annual forages grown in rotation with winter vegetables on soil quality*. Proceedings of the Great Plains Soil Fertility Conference, March 2-3, Denver, CO.

AES Report/Bulletin

Johnson, J. J., Haley, S. D., Bartolo, M. E., Larson, K., Vigil, M., Bosley, B., Meyer, R., Trujillo, W., Sauer, S. M., Hain, J., Davidson, J. W., Randolph, T. L., Peairs, F. B., Jahn, C. E., Novak, R. A., Davis, J. G., Mostek, G. (2014). *Making better decisions: 2014 Colorado wheat variety performance trials*. (TR14-8 ed., pp. 51). Fort Collins, CO: Colorado Agricultural Experiment Station.

Johnson, J. J., Haley, S. D., Sauer, S. M., Larson, K., Bartolo, M. E., Davidson, J. W., Peairs, F. B., Tisserat, N. A., Westra, P., Davis, J. G., Novak, R. A., Vigil, M., Mostek, G., Bosley, B., Meyer, R., Trujillo, W., Irell, B. (2013). *Making better decisions: 2013 Colorado wheat variety performance trials*. (vol. TR13-4, pp. 51). Fort Collins, CO: AES.

Abstract

Abulobaida, M., Davis, J. G., Cotrufo, M. F., Hansen, N. C. (2014). *Carbon sequestration in soil aggregates under irrigated and dryland cropping systems in a semi-arid area* (pp. Paper 425-21). Soil Science Society of America.

Toonsiri, P., DelGrosso, S. J., Davis, J. G., Sukor, A., Smith, M., Reyes-Fox, M. (2014). *Comparison of organic fertilizer effects on nitrous oxide (N₂O) and carbon dioxide (CO₂) emissions from a lettuce field* (Paper 164-10 ed.). Soil Science Society of America.

Davis, J. G., Hurisso, T. T., Wolde-meskel, E., Storteboom, H. N. (2014). *Development and Evaluation of Locally-Made Fertilizers in Ethiopia* (pp. Paper 444-2). Soil Science Society of America.

Davis, J. G., Storteboom, H., Wolde-meskel, E. (2014). *Development of a nitrogen fertilizer for organic systems in the Great Plains and smallholder farmers in Ethiopia* (pp. p. 40). Great Plains Soil Fertility Conference.

Aljrbi, A., Andales, A., Davis, J. G. (2014). *Evaluation of Colorado Irrigation Scheduler (CIS) for Furrow-Irrigated Corn in Northeast Colorado* (pp. Paper 359-2). American Society of Agronomy.

Sukor, A., Davis, J. G. (2014). *Influence of commercial organic and cyanobacterial fertilizers on yield and nitrogen use efficiency of lettuce and sweet corn* (Paper 164-11 ed.). Soil Science Society of America.

Book Review

(2010). *Organic Nitrogen Systems in the United States* (pp. 162-183). Delgado, JA and RF Follett (eds) Advances in Nitrogen Management for Water Quality.

Dissertation

Abulobaida, M. (2014). *The effect of irrigation and cropping systems on soil carbon and nitrogen stocks and organic matter aggregation in semi-arid lands* (pp. 84 pages). Fort Collins, CO: Colorado State University.

Newsletter

Davis, J. G. (2014). In Wilma Trujillo (Ed.), *CSU Soil Fertility Team Testing On-Farm Bio-Fertilizer Production for High-Value Crops* (October ed., vol. 2014). Lamar, CO: CSU Extension Southeast Farm and Ranch

Newsletter.

Davis, J. G. (2014). In Greg Litus (Ed.), *CSU Team Begins Testing of On-farm Bio-Fertilizer Production on Local Orchards* (May ed., vol. 2014). Grand Junction, CO: Fruit Facts/Colorado State University Western Colorado Research Center.

Technical Report

Johnson, J. J., Haley, S. D., Sauer, S. M., Asfeld, E., Bartolo, M. E., Larson, K., Bosley, B., Trujillo, W., Meyer, R., Davis, J. G., Novak, R. A. (2015). Making Better Decisions, 2015 Colorado Winter Wheat Performance Trials., *2015 Colorado Certified Seed Directory* (pp. 24 pp.). High Plains Journal.

Davis, J. G. (2014). Improving Fertilizer Recovery by Your Wheat Crop. In Jerry Johnson (Ed.), *Making Better Decisions: Colorado Winter Wheat Variety Performance Trials* (8th ed., vol. 2014). Fort Collins, CO: Colorado Agricultural Experiment Station.

Borch, T., Young, R. B., Jones, J., Davis, J. G., Simpson, C. R. (2007). *Degradation of Steroid Hormones in the Environment..* ASA-CSSA-SSSA Meeting presentation.

Thesis

Barminski, R. (2014). *Development of an organically certifiable growth medium for N-fixing cyanobacteria in a raceway biofertilizer production system* (pp. 105 pages). Fort Collins, CO: Colorado State University.

Menamo, M. (2014). *Effects of cyanobacterial biofertilizer, compost and urea on yield and nutritional content of lettuce (Lactuca sativa L.) grown in soils from Ziway and Yirgalem, Ethiopia* (pp. 74 pages). Hawassa University.

Abuye, F. (2014). *Growth of cyanobacterial strains and their comparative influence on biomass yield and nutritional quality of Tomato (Lycopersicon esculentum) grown on Ziway and Yirgalem soils, Ethiopia* (pp. 109 pages). Hawassa University.

Yoder, N. (2014). *Organic fertilizer comparison on kale (Brassica spp.) growth and nutrient content* (pp. 32 pages). Fort Collins, CO: Colorado State University.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

2014, "a variety as described in other sections", many diverse locations.

November 4, 2013, "Fertilizer recovery of cyanobacterial and commonly-used organic fertilizers and lettuce growth response on different soil textures", Annual Meeting of the Soil Science Society of America, SSSA, (Presenter) Sukor, A., Tampa, FL.

2012, "Abulobaida, M., N. Hansen, F. Cotrufo, and J. Davis. 2012. The effect of irrigation and cropping systems on carbon stocks in semi-arid lands. pp. 265-271 In 2012 Great Plains Soil Fertility Conference Proceedings; Denver, CO: 6-7 March 2012."

2012, "Aljrbi, A.M., A. Andales, N. Hansen, and J. Davis. 2012. Comparison of

reference evapotranspiration from the American Society of Civil Engineers (ASCE) standardized Penman Monteith and Kimberly-Penman equations in northeast Colorado. ASA/SSSA/CSSA Annual Meeting, October 2012."

2012, "Barminski, R., J. Davis, H. Storteboom, Y. Yang, S. Dominick, K. Athey, H. Wang, and M. Stromberger. 2012. Development of an organically certified growth-medium for cyanobacteria. ASA/SSSA/CSSA Annual Meeting, October 2012."

2012, "College of Ag Efforts in Africa, CSU Symposium on Africa. 13 April 2012."

2012, "Davis, J.G., H. Storteboom, Y. Yang, R. Barminski, A. Sukor, H. Wang, F. Stonaker and M.S. Massey. 2012. Developing an on-farm bio-fertilizer production system using cyanobacteria. ASA/SSSA/CSSA Annual Meeting, October 2012."

2012, "Davis, J.G., M. Brick, T. Engle, A. Gebre-Amlak, L. Goodridge, D. Hoag, and C. Matney. Collaboration with Hawassa University in Ethiopia. Soil & Crop Sciences Departmental Seminar. 15 November 2012."

2012, "Davis, J.G., T.T. Hurisso, and B.R. Jakubowski. 2012. Re-thinking cattle manure and compost N mineralization rates. pp. 77-82 In 2012 Great Plains Soil Fertility Conference Proceedings; Denver, CO: 6-7 March 2012."

2012, "How do the P Index and CSU's P Fertilizer Recommendations Fit Together? Biosolids Conference. 15 November 2012."

2012, "Manure Management and Composting, Colorado Big & Small conference, 16 February 2012."

2012, "Mortality Management webinar. 20 June 2012."

2012, "Research Update on Phosphorus Recovery

from Wastes. International Plant Nutrition Institute. 9 August 2012."

2012, "Sukor, A., H. Storteboom, M. Stromberger, and J. Davis. 2012. Nitrogen mineralization potential of cyanobacterial fertilizers compared to traditional organic fertilizers applied to clayey and sandy soils. ASA/SSSA/CSSA Annual Meeting, October 2012."

2012, "Update on Cyanobacterial Bio-fertilizer Development in Ethiopia, International Development Enterprises, 1 February 2012."

2012, "Update on N Mineralization Rates from Manure and Compost, Colorado Dept. of Public Health and Environment, 17 May 2012."

2011, "Davis, J.G. 2011. Institute for Livestock and the Environment. SoGES seminar. 12 April 2012."

2011, "Davis, J.G., and A. Uhlarik. 2011. Institute for Livestock and the Environment. CSU Extension Forum. 10 November 2011."

2011, "Davis, J.G., M. Salman, D. Hoag, and S. Gillette 2011. Livestock Climate Change CRSP. CSU Dept. of Soil & Crop Sciences seminar. 27 January 2011."

2011, "Davis, J.G., M.J. Fisher, J. Deering, S. Lupis, T. Bass, R. Flynn, J. Norton, S. Paisley, and D. Colburn. 2011. In-Service Training and Decision-making Tools for Optimizing Livestock Mortality Management. ILE's 4th Annual Stakeholder Summit. 17 Nov. 2011."

2011, "J.G. Davis. A. Elliott, and F. Stonaker. 2011. CSU's Interdisciplinary Program in Organic Agriculture. Colorado Big & Small. 16-17 February 2011."

2011, "J.G. Davis. A. Elliott, and F. Stonaker. 2011. CSU's Interdisciplinary Program in Organic Agriculture. New Mexico Organic Farming Conference. 18-

19 February 2011.".

2011, "Wolde-meskel, E., H. Storteboom, R. Barminski, E. Cooper, G. Nega, D. Hines, A. Kumar, M. Massey and J. Davis. 2011. Exploring the Potential for Cyanobacterial Nitrogen Fertilizer to Improve Soil Fertility in Ethiopia. CSU's Africa Colloquium. March 30-31, 2011.".

2011, "Wolde-meskel, E., H. Storteboom, S. Yigrem, Y. Yang, R. Barminski, S. Dominick, M.S. Massey, and J.G. Davis. 2011. On-farm cyanobacterial nitrogen fertilizer production in Ethiopia. American Society of Agronomy, Oct. 16-19, 2011, San Antonio, TX.".

2010, "Barminski, R.; Storteboom, H.; Massey, M.; Davis, J.G. 2010. Cultivating cyanobacteria as a low fossil fuel nitrogen source, Colorado State University Celebrate Undergraduate Research and Creativity Showcase, April 2010.".

2010, "Hurisso, T.T., J.G. Davis, J.E. Brummer, and M.R. Booher 2010. Determining Nitrogen Mineralization from Composted Dairy Manure and Impact on Irrigated Perennial Grass Mixes. ASA, CSSA, and SSSA 2010 International Annual Meetings. Oct. 31-Nov. 4; Long Beach, CA.".

2010, "Moshia, M.E., R. Khosla, J.G. Davis, D. Westfall and R. Reich. 2010. Precision Manure Management across Site Specific Management Zones. ASA, CSSA, and SSSA 2010 International Annual Meetings. Oct. 31-Nov. 4; Long Beach, CA.".

2010, "Storteboom, H., R. Barminski, E. Wolde-meskel, M. Massey and J.G. Davis. 2010. Exploring the potential for cyanobacterial nitrogen fertilizer to improve soil fertility in Ethiopia. American Society of Agronomy Annual Meeting, October 2010.".

2010, "Yang, Y.Y., J. L. Gray, E.T. Furlong, T.J.B. Yager, J.G. Davis, W.T. Foreman,

and T. Borch.. 2010. Hormone and Anthropogenic Waste Indicator Runoff from Biosolids Amended Soils. ASA, CSSA, and SSSA 2010 International Annual Meetings. Oct. 31-Nov. 4; Long Beach, CA."

OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

"Davis, J.G., and M.S. Massey. 2010. A system for the growth and utilization of cyanobacteria as a nitrogen fertilizer and soil amendment. Provisional patent application. Colorado State University Research Foundation." Licensed to: Thin Air Nitrogen Solutions. (Submitted: 2010, Application: 2010, Approved: 2010, Licensed: 2010).

(August 15, 2015 - December 15, 2015). Course for Credit, "ART 311 -- African Art History," CSU, United States. Number of Credit Hours: 3.

(January 15, 2015 - May 15, 2015). Course for Credit, "HIST 422--Modern African History," CSU, United States. Number of Credit Hours: 3.

(August 2014 - December 2014). Course for Credit, "POLS 444--Comparative African Politics," CSU, United States. Number of Credit Hours: 3.

(January 2014 - May 2014). Course for Credit, "HIST 421 African History--Colonialism to Independence," CSU, United States. Number of Credit Hours: 3.

(July 14, 2013 - August 22, 2013). Continuing Education Program, "EN563 Entrepreneurial Leadership and Organization," Boston University, Boston, MA. Number of Credit Hours: 3.

(February 2, 2013 - May 23, 2013). Continuing Education Program, "14.73x The Challenges of Global Poverty," Massachusetts Institute of Technology, Boston, MA.

(1996 - Present). Certified Crop Advisor, American Society of Agronomy.

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2016	Spring	SOCR799 - Dissertation	18	12
2016	Spring	SOCR475 - Global Challenges in Plant and Soil Science	3	14
2016	Spring	SOCR795 - Independent Study	18	2
2016	Spring	SOCR699 - Thesis	18	7
2015	Fall	SOCR799 - Dissertation	18	11
2015	Fall	SOCR792 - Seminar	1	4
2015	Fall	SOCR351 - Soil Fertility Laboratory	1	10
2015	Fall	SOCR351 - Soil Fertility Laboratory	1	16
2015	Fall	SOCR350 - Soil Fertility Management	3	47
2015	Fall	SOCR699 - Thesis	18	11
2015	Spring	SOCR799 - Dissertation	18	12
2015	Spring	SOCR486 - Practicum	4	2
2015	Spring	SOCR699 - Thesis	18	14
2014	Fall	SOCR799 - Dissertation	18	15
2014	Fall	SOCR351 - Soil Fertility Laboratory	1	12
2014	Fall	SOCR350 - Soil Fertility Management	3	57

2014	Fall	SOCR784 - Supervised College Teaching	18	3
2014	Fall	SOCR699 - Thesis	18	9
2014	Spring	SOCR799 - Dissertation	18	15
2014	Spring	SOCR475 - Global Challenges in Plant and Soil Science	3	23
2014	Spring	SOCR495 - Independent Study	18	7
2014	Spring	HORT699 - Thesis	18	4
2014	Spring	SOCR699 - Thesis	18	10
2013	Fall	SOCR799 - Dissertation	18	19
2013	Fall	SOCR350 - Soil Fertility Management	3	63
2013	Fall	SOCR784 - Supervised College Teaching	18	6
2013	Fall	SOCR699 - Thesis	18	5
2013	Spring	SOCR799 - Dissertation	18	17
2013	Spring	AGRI587A - Internship--Domestic	12	1
2013	Spring	AGRI698 - Research	6	1
2012	Fall	SOCR486 - Practicum	4	2
2012	Fall	HORT698 - Research	18	15
2012	Fall	SOCR699 - Thesis	18	7
2012	Spring	SOCR799 - Dissertation	18	15
2012	Spring	SOCR475 - Global Challenges in Plant and Soil Science	3	14
2011	Fall	SOCR799 - Dissertation	18	12
2011	Spring	SOCR799 - Dissertation	18	9
2011	Spring	SOCR784 - Supervised College Teaching	18	6
2011	Spring	ANEQ300W - Topics in Animal Sciences-Equine Manure Management	1	0
2010	Fall	SOCR799 - Dissertation	18	12
2010	Fall	SOCR475 - Global Challenges in Plant and Soil Science	3	10
2010	Fall	SOCR792 - Seminar	1	8
2010	Fall	SOCR784 - Supervised College Teaching	18	5
2010	Spring	SOCR799 - Dissertation	18	7
2010	Spring	SOCR792 - Seminar	1	8
2010	Spring	ANEQ300W - Topics in Animal Sciences-Equine Manure Management	1	13
2010	Spring	SOCR481A2 - Water and Waste Recycling	3	4
2009	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3)	3	36
2009	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3)	3	35
2009	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	11
2009	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	10
2009	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	9
2009	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	6
2009	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	9
2009	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	10
2009	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	8
2009	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	8
2009	Fall	ANEQ548 - Issues in Manure Management	4	0
2009	Fall	ANEQ548 - Issues in Manure Management-Lab	0	0

2009	Fall	ANEQ548 - Issues in Manure Management-Recitation	0	0
2009	Fall	SOCR448 - Livestock Manure Management and Environment	3	0
2009	Fall	SOCR448 - Manure Management and the Environment-Lab	0	0
2009	Fall	SOCR792 - Seminar	1	6
2009	Fall	SOCR784 - Supervised College Teaching	18	1
2009	Fall	SOCR699 - Thesis	18	9
2009	Spring	SOCR799 - Dissertation	18	10
2009	Spring	SOCR699 - Thesis	18	7
2009	Spring	ANEQ300W - Topics in Animal Sciences-Equine Manure Management	1	10
2008	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3)	3	36
2008	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3)	3	36
2008	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	9
2008	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	9
2008	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	9
2008	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	11
2008	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	8
2008	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3) - Recitation	0	9
2008	Fall	SOCR495 - Independent Study	18	4
2008	Fall	ANEQ548 - Issues in Manure Management	4	0
2008	Fall	ANEQ548 - Issues in Manure Management-Lab	0	0
2008	Fall	ANEQ548 - Issues in Manure Management-Recitation	0	0
2008	Fall	SOCR384 - Supervised College Teaching	5	1
2008	Fall	SOCR784 - Supervised College Teaching	18	3
2008	Spring	SOCR699 - Thesis	18	7
2008	Spring	ANEQ300W - Topics in Animal Sciences-Equine Manure Management	1	21
2008	Spring	HORT424 - Topics in Organic Agriculture	3	10
2008	Spring	SOCR424 - Topics in Organic Agriculture	3	7
2007	Fall	SOCR343 - Composting Principles and Practices	1	7
2007	Fall	HORT171 - Environmental Issues in Agriculture (GT-SS3)	3	31
2007	Fall	SOCR171 - Environmental Issues in Agriculture (GT-SS3)	3	32
2007	Fall	HORT171 - Environmental Issues in Agriculture-Recitation	0	8
2007	Fall	HORT171 - Environmental Issues in Agriculture-Recitation	0	7
2007	Fall	HORT171 - Environmental Issues in Agriculture-Recitation	0	7
2007	Fall	HORT171 - Environmental Issues in Agriculture-Recitation	0	9
2007	Fall	SOCR784 - Supervised College Teaching	18	4

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2015	Fall	SOCR171 - Environmental Issues in Agriculture	1	Face to Face
2015	Spring	SOCR571 - Foundations in Soil Science	2	Face to Face
2014	Fall	SOCR650 - Proposal Development	1	

Evidence of Teaching Effectiveness (Annual Input)

Student Course Surveys

Fall 2013, SOCR 350–Soil Fertility Management

Overall Instructor Score = 4.57

Instructor's Knowledge = 4.84

Instructor's Enthusiasm = 4.71

Other Evidence

Spring 2014, SOCR 475–Global Challenges in Plant and Soil Science

Co-taught with Pat Byrne. Please see the course evaluation scores under his name.

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS

Congressional Visits

Reducing the Carbon Footprint of Crop Production. Adult, Washington, DC, District of Columbia. Number of times program was made: 5. Total number of participants: 5. Percent Responsible: 100%. 1st Quarter 2015.

Field Day

Cyano-Fertilizer in Organic Vegetables. Adult, Fort Collins, CO. Total number of participants: 50. Percent Responsible: 50%. 3rd Quarter 2014.

Cyano-Fertilizer in Peach Orchards. Adult, Hotchkiss, CO. Total number of participants: 30. Percent Responsible: 75%. 3rd Quarter 2014.

Cyano-Fertilizer in Peach Orchards. Adult, Hotchkiss, CO. Total number of participants: 15. Percent Responsible: 33%. 3rd Quarter 2014.

Cyanobacterial Bio-fertilizer Production and Utilization. Fort Collins, CO. Number of times program was made: 1. Total number of participants: 30. Percent Responsible: 100%. 2013.

Engineering and Commercialization of Cyanobacterial Bio-fertilizer. Fort Collins, CO. Number of times program was made: 1. Total number of participants: 6. Percent Responsible: 100%. 2013.

On-farm Cyanobacterial Bio-fertilizer Production. Fort Collins, CO. Number of times program was made: 2. Total number of participants: 50. Percent Responsible: 100%. 2013.

Four pre-conference field trips. Denver, CO. Number of times program was made: 1. Total number of participants: 110. Percent Responsible: 60%. 2012.

Presentation

Developing an Organic On-Farm Bio-fertilizer Production System using Cyanobacteria. Adult, Lacrosse, WI. Total number of participants: 25. Percent Responsible: 100%. 1st Quarter 2015.

Developing an Organic On-Farm Bio-fertilizer Production System using Cyanobacteria. Adult, Portland, OR. Total number of participants: 30. Percent Responsible: 100%. 1st Quarter 2015.

On-farm Cyano-fertilizer Production and Use in West Slope Peach Orchards. Adult, Grand Junction, CO. Number of times program was made: 1. Total number of participants: 30. Percent Responsible: 50%. 1st Quarter 2015.

On-farm Production and Use of Algae as Fertilizer. Adult, Albuquerque, NM. Number of times program was made: 2. Total number of participants: 60. Percent Responsible: 100%. 1st Quarter 2015.

Organic Fertilizer Comparisons. Adult, San Antonio, TX. Number of times program was made: 1. Total number of participants: 50. Percent Responsible: 100%. 1st Quarter 2015.

Manure Management. Adult, Oklahoma City, OK. Number of times program was made: 2. Total number of participants: 50. Percent Responsible: 100%. 4th Quarter 2015.

Optimizing Fertilizer Management in Corn and Wheat. Adult, Fort Morgan, CO. Number of times program was made: 1. Total number of participants: 45. Percent Responsible: 100%. 4th Quarter 2015.

Sustainable Development. Adult, Fort Collins, CO. Number of times program was made: 1. Total number of participants: 75. Percent Responsible: 25%. 4th Quarter 2015.

Soil pH -- Dealing with the Challenges. Adult, Monte Vista, CO. Number of times program was made: 1. Total number of participants: 75. Percent Responsible: 100%. 1st Quarter 2014.

Fertilizer Worth Spreading. Adult, Fort Collins, CO. Total number of participants: 500. Percent Responsible: 100%. 4th Quarter 2014.

Cyanobacterial Bio-fertilizer in Irrigated, Organic Vegetable Systems. Fort Collins, CO. Number of times program was made: 1. Total number of participants: 15. Percent Responsible: 100%. 2013.

Blue Green Africa: Bacteria, Bio-fertilizer, and Business Opportunities for Women. Fort Collins, CO. Total number of participants: 50. Percent Responsible: 100%. 2012.

Cyanobacterial Bio-fertilizer. Fort Collins, CO. Total number of participants: 200. Percent Responsible: 60%. 2012.

Cyanobacterial Bio-fertilizer Production and Utilization in Ethiopia. Washington, DC. Number of times program was made: 1. Total number of participants: 10. Percent Responsible: 100%. 2012.

Entrepreneurship Panel. Nairobi, Kenya. Total number of participants: 25. Percent Responsible: 20%. 2012.

Ethiopian Culture and Agriculture. Fort Collins, CO. Number of times program was made: 5. Total number of participants: 120. Percent Responsible: 100%. 2012.

Managing Soil Fertility to Optimize Soil Health and Crop Production. Monte Vista, CO. Number of times program was made: 1. Total number of participants: 80. Percent Responsible: 100%. 2012.

Manure and Compost Effects on Soil and Water Quality. Fort Collins, CO. Number of times program was made: 2. Total number of participants: 29. Percent Responsible: 100%. 2012.

SoGES Panel

Climate Smart Agriculture. Adult, Fort Collins, CO. Number of times program was made: 1. Total number of participants: 80. Percent Responsible: 33%. 1st Quarter 2014.

Organic Agriculture. Adult, Fort Collins, CO. Total number of participants: 150. Percent Responsible: 33%. 4th Quarter 2014.

Website Visit

Fertilizer Worth Spreading. Adult. Total number of participants: 1300. Percent Responsible: 100%. 4th Quarter 2014.

Workshop

Africa Symposium: Food and Water Panel. Adult, Fort Collins, CO. Total number of participants: 80. Percent Responsible: 66%. 2nd Quarter 2014.

Mortality Composting in the Semi-Arid West. Denver, CO. Number of times program was made: 1. Total number of participants: 18. Percent Responsible: 25%. 2012.

Nutrient Management in Drought. Wray, CO. Number of times program was made: 1. Total number of

participants: 21. Percent Responsible: 66%. 2012.

Small Acreage Manure Management and Composting. Calhan, CO. Number of times program was made: 1.

Total number of participants: 8. Percent Responsible: 100%. 2012.

COMMITTEES

The Africa Center, (2014 - Present).

(2012).

(2012).

(2012).

PCMI, (2010 - Present).

(2012).

(2012).

(2012).

SCS P&T, (2013 - Present).

SCS Awards Committee, (2001 - Present).

Grad Panel, (January 2013 - December 2015).

(2012).

(2012).

(2012).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

American Society of Horticultural Science. (July 1, 2015 - Present).

American Society of Agronomy. (2010 - 2011).

Soil and Water Conservation Society. (2010 - 2011).

Soil Science Society of America. (2010 - 2011).

CSU Alumni Magazine. (September 2013).

Devex (global development community). (September 25, 2013).

Hosted Helen Suter from the University of Melbourne in Australia. (November 23, 2015 - Present).

Developed relationship with the University of Tanjungpura in Pontianak, Indonesia. (June 2015 - Present).

Graduate Panel. (2013 - Present).

CSSA Graduate Poster Judging. (2012 - Present).

CSU, Fort Collins, CO. (2012 - Present).

Faculty mentoring--Ward and Stromberger. (2012 - Present).

National Collegiate Inventors and Innovators Alliance, Boston, MA. (2012 - Present).

Soil Science Society of America Journal. (2012 - Present).

(2011 - Present).

International Food & Agriculture Development, Rome. (2011 - Present).

Livestock Climate Change CRSP, Golden, CO. (2011 - Present).

Livestock Climate Change CRSP, Fort Collins, CO. (2011 - Present).

National Collegiate Inventors and Innovators Alliance, Washington, DC. (2011 - Present).

Committee Chair, Institute for Livestock and the Environment Mini-Grants. (2011 - Present).

USAID, Purdue, IN. (2011 - Present).

USAID, Des Moines, IA. (2011 - Present).

Committee Chair, USAID LCC CRSP International Graduate Student Fellowships. (2011 - Present).

Committee Chair, USAID LCC CRSP Long-Term Research Program in Africa. (2011 - Present).

Committee Chair, USAID LCC CRSP Nepal Graduate Student Fellowships. (2011 - Present).

Committee Chair, USAID LCC CRSP Nepal Seed Grant Program. (2011 - Present).

Committee Chair, USAID LCC CRSP West Africa Graduate Student Fellowships. (2011 - Present).

Faculty mentoring--Stonaker. (2010 - Present).

Member, USDA-ARS Beef Proposals Review Panel. (2010 - Present).

Officer, President/Elect/Past, American Society of Agronomy. (January 2016 - December 2018).

Committee Member, Colorado Department of Agriculture. (2013 - 2014).

American Society of Agronomy. (2012 - 2014).

Committee Member, American Society of Agronomy. (2012 - 2014).

High Plains Intermountain Center for Agricultural Health and Safety. (2012 - 2014).

Hosted Solomon Yigrem, economist from Hawassa University, at CSU from August 28 through Sept. 9, 2012.

(2012).

Hosted Yosef Mamo, the President of Hawassa University in Ethiopia, at CSU. 16-21 January 2012. (2012).

Interacted with Jim Sharkoff, USDA-NRCS state agronomist, numerous times throughout the year regarding revisions to the P Index. (2012).

Met with leadership of the International Plant Nutrition Institute several times in 2012 to discuss recent research developments. (2012).

Met with the Associated Landscape Contractors of Colorado regarding landscaping expansive soils. (2012).

Planning four field trips for the Waste to Worth conference in Denver in April 2013. (2012).

Traveled to Atlanta, GA in order to host a delegation from Mali's Ministry of Livestock, 18-20 March 2012. (2012).

Traveled to Ethiopia from April 13-22, 2012 to collaborate with my colleagues at Hawassa University and to meet with the Peace Corps to facilitate PCMI volunteers in Ethiopia. (2012).

Traveled to Ethiopia from Sept. 28 through Oct. 9, 2012 to lead the CAS delegation to Hawassa University in development of a strategic plan for our future collaboration. (2012).

Visited soils faculty at the Royal Agricultural University in Phnom Penh, Cambodia, January 2012. (2012).

American Society of Agronomy. (2010 - 2011).

Member, Awards Committee. (2010 - 2011).

Member, Beef and Dairy Initiative. (2010 - 2011).

Soil and Water Conservation Society. (2010 - 2011).

Soil Science Society of America. (2010 - 2011).

Member, T&P Committee. (2010 - 2011).

Published 7 articles titled Livestock Links representing the Institute for Livestock and Environment in the Colorado Livestock Associations's newsletter. (2010).

Published first issue (will be a quarterly publication) of CRSP Chronicles representing the Livestock Climate Change CRSP. (2010).

Published quarterly stakeholder newsletter for the Institute for Livestock and the Environment. Feb., April, June, and Oct. (2010).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Board of Directors of a Company, American Society of Agronomy. (2012 - 2015).

Sustainable Schools International. (2011 - Present).

American Society of Agronomy. (2012 - 2014).

High Plains Intermountain Center for Agricultural Health and Safety. (2012 - 2014).
