



UNIVERSITY OF  
ARKANSAS®

FACULTY PUBLICATIONS  
January 1, 2012 – December 31, 2012

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## Dale Bumpers College of Agricultural, Food and Life Sciences 2012 Annual Publications Report

### A. Complete Bibliographic Listing of Creative and Scholarly Works

#### 1. Peer-reviewed publications or juried event

##### Agricultural Economics and Agricultural Business

**Ahrendsen, B. L.** and Katchova, A. L. 2012. "Financial ration analysis Using ARMS data." *Agricultural Finance Review* 72,(2):262-272. [www.emeraldinsight.com/0002-1.htm](http://www.emeraldinsight.com/0002-1.htm) Available at: DOI [10.1108/00021461211250492](https://doi.org/10.1108/00021461211250492).

**Ahrendsen, B. L.** 2012. "The global financial Crisis: Implications for capital to agribusiness." *Applied Studies in Agribusiness and Commerce* 6,1-2:59-62.

Ellinger, P. N., **Ahrendsen, B. L.**, and Moss, C. B. 2012. "Balance sheet and income statement issues in ARMS." *Agricultural Finance Review* 72(2):247-253. Available at: [10.1108/00021461211250474](https://doi.org/10.1108/00021461211250474). [www.emeraldinsight.com/0002-1.htm](http://www.emeraldinsight.com/0002-1.htm)

**Bektemirov, K.** 2012. "Common-pool resources management: Needs assessment for irrigation policy reform in the Aral sea region." *Southwestern Journal of Economics*, XI, III(September):86-99.

**Bektemirov, K.** and **Wailes, E. J.** 2012. "Integrating conservation in Arkansas state water policy." *Journal of Soil and Water Conservation* 67, 3, (May/June):80A-83A.

Winters, M. A., **Dixon, B. L.**, and Greene, J. P. 2012. "Observed characteristics and teacher quality: Impacts of sample selection on a value added model." *Economics of Education Review* 31:19-32. [www.elsevier.com/locate/econedurev](http://www.elsevier.com/locate/econedurev)

Potter, B. D., Marcy, J. A., Owens, C. M., Slavik, M. F., **Goodwin, H. L.** and Apple, J. K. 2012. "Impact of performance-based sanitation systems on microbiological characteristics of poultry processing equipment and carcasses as compared with traditional sanitation systems." *J. Appl. Poult Res.* 21:669-678. <http://dx.doi.org/10.3382/japr.2011-00513>

Polasky, S., Johnson, K., Keeler, B., **Kovacs, K.**, Nelson, E., Pennington, D., Plantinga, A. and Withey, J. 2012. "Are investments to promote biodiversity conservation and ecosystem services aligned?" *Oxford Review of Economic Policy*, 28(1):139-163.

**Kovacs, K.** 2012. "Integrating property value and local recreation models to value ecosystem services from regional parks." *Landscape and Urban Planning*, 108(2):79-90.

**Mahrizal, Nalley, L. L., Dixon, B. L. and Popp, J.** 2012. "Necessary price premiums to incentivize Ghanaian organic cocoa production: A phased, orchard management approach." *HortScience* 47, 11(November):1-8.

Alam, M. J., Buysse, J., **McKenzie, A. M.**, Begum, I. A., **Wailes, E. J.** & Van Huylenbroeck, G. 2012. "The dynamic relationships between world and domestic prices of rice under the regime of agricultural trade liberalization in Bangladesh." *Journal of the Asia Pacific Economy* 17(1):113-126.  
[Http://dx.doi.org/10.1080/13547860.2012.640010](http://dx.doi.org/10.1080/13547860.2012.640010)

**McGraw, K., Popp, J., Dixon, B.** and Newton, D. 2012. "Factors influencing job choice among agricultural economics professionals." *Journal of Agricultural & Applied Economics* 43(2):1-15.

**McKinley, J.**, Sparks, A. H., Pede, V. O. and Duff, B. 2012. "An economic assessment of the impact of mango pulp weevil on the agricultural sector of Palawan, Philippines." *The Philippine Agricultural Scientist* 95, 3(September):286-292. ISSN 0031-7454

**Nalley, L., Popp, M.**, Niederman, Z., Brye, K. and Matlock, M. 2012. "How potential carbon policies could affect where and how cotton is produced in the United States." *Agricultural and Resource Economics Review* 41 (2):215-231.

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Akaichi, F., Gil, J. and **Nayga, Jr., R. M.** 2012. "Assessing the market potential for local food product: Evidence from a non-hypothetical economic experiment." *British Food Journal*. Vol. 114, Issue 1. <http://www.emeraldinsight.com/journals.htm?issn=0007-070X&show=latest>

Akaichi, F., **Nayga, Jr. R. M.**, and Gil, J. 2012. "On the use of multi-unit auctions in measuring consumers' willingness to pay for products." *Advances in Consumer Research* 39:311-317.

Akaichi, F., **Nayga, Jr., R. M.** and Gil, J. 2012. "Assessing consumers' willingness to pay for different units of organic milk: Evidence from multi-unit auctions." *Canadian Journal of Agricultural Economics*, 60:469-494.

Akaichi, F., **Nayga, Jr., R. M.** and Gil, J. 2012. "Initial endowment effects in multi-unit Vickrey auctions." *Advances in Management and Applied Economics*, 2,4(2012): 41-55.

Aprile, M. C., Caputo, V. and **Nayga, Jr., R. M.** 2012. "Consumers' valuation of food quality labels: The case of the European geographic indication and organic farming labels." *International Journal of Consumer Studies*, 36:158-165.

Corrigan, J. R., Drichoutis, A. C., Luck, J. L., **Nayga, Jr., R. M.** and Rousu, M. C. 2012. "Repeated rounds with price feedback in experimental auction valuation: An adversarial collaboration." *Amer. J. Agr. Econ.* 94(1):97-115; doi: 10.1093/ajae/aar066  
Drichoutis, A. C., **Nayga, Jr., R. M.**, Luck, J. L. and Lazaridis, P. 2012. "When a risky prospect is valued more than its best possible outcome." *Judgment and Decision Making* 7,1(January):1-18.

Drichoutis, A. C., **Nayga, Jr., R. M.** and Lazaridis, P. 2012. "Food away from home expenditures and obesity among older Europeans: Are there gender differences?" *Empir Econ* 42:1051:1078. DOI 10.1007 /s181-011-0453-4

Dunn, R., Tan, A. and **Nayga, Jr., R. M.** 2012. "Obesity inequality in Malaysia: Decomposing differences by gender and ethnicity using quantile regression." *Ethnicity and Health*, 17,5:493-511.

Elbakidze, L. and **Nayga, Jr., R. M.** 2012. "The effects of information on willingness to pay for animal welfare in dairy production: An application of non-hypothetical valuation mechanisms." *Journal of Dairy Science*, 95:1099-1107.

Gracia, A., De Magistris, T. and **Nayga, Jr. R. M.** 2012. "Importance of social influence in consumers' willingness to pay for local food: Are there gender differences?" *Agribusiness: An International Journal*, 28,3(2012): 361-371.

Lawless, L., **Nayga, Jr. R. M.**, Akaichi, F., Meullenet, J. F., Threlfall, R. and Howard, L. "Willingness to pay for a nutraceutical rich juice blend." *Journal of Sensory Studies*, 27(2012): 375-383.

Silva, A., **Nayga, Jr., R. M.**, Campbell, B. L. and Park, J. L. 2012. "Can perceived task complexity influence cheap talk's effectiveness in reducing hypothetical bias in stated choice studies?" *Applied Economics Letters* 19(17):1711-1714.  
<http://dx.doi.org/10.1080/13504851.2012.667532>

Moser, A., Chen, S., Jilcott, S. and **Nayga, Jr., R. M.** 2012. "Associations between maternal employment and time spent in nutrition related behaviours among German children and mothers." *Public Health Nutrition*, 15,7:1256-1261.

You, W., Mitchell, P. and **Nayga, Jr., R. M.** 2012. "Improving food choices among supplemental nutrition assistance program recipients." *Health Economics* 21:852-864.

Petrovici, D., Fearne, A., **Nayga, Jr., R. M.** and Drolias, D. 2012. "Nutritional knowledge, nutritional labels, and health claims on food. A study of supermarket shoppers in the south east of England." *British Food Journal* 114, 6:768-783.

**Rodriguez, H. G., Popp, J., Thomsen, M., Friedrich, H. and Rom, C. R.** 2012. "Economic analysis of investing in open-field or high tunnel primocane-fruiting blackberry production in northwestern Arkansas." *Production and Marketing Reports. HortTechnology* 22,2 (April 22):245-251.

**Wailes, E., Chavez, E., Danforth, D., Ahrendsen, B., and Dixon, B.** 2011. "Distributional impacts of capping eligibility for commodity program payments." *Choices* 26(4):5 pp. Available at: [www.choicesmagazine.org/choices-magazine/submitted-articles/distributional-impacts-of-capping-eligibility-for-commodity-program-payments](http://www.choicesmagazine.org/choices-magazine/submitted-articles/distributional-impacts-of-capping-eligibility-for-commodity-program-payments) accessed on January 23, 2012.

### **Agricultural and Extension Education**

**Edgar, D.W.** (2012). Learning theories and historical events impacting instructional design in education: Recitation literacy towards extraction literacy practices. *Sage Open*, 3, 1-9. (Author)

Koch, R.B. and **Edgar, D.W.** (2012). Animation: Friend or foe? *Journal of Agricultural Systems and Technology Management* (23), 31-44. (Corresponding author and advisor)

Leggette, H., Witt, C., Rutherford, T.A., Doerfert, D., and **Edgar, L.D.** (2012). Experiential learning using second life: A content analysis of student reflective writing. *Journal of Agricultural Education*, 53(3), 124-136. DOI: 10.5032/jae.2012.03124

Murphrey, T., Rutherford, T.A., Doerfert, D., **Edgar, L.D.**, and **Edgar, D.W.** (2012). Technology acceptance related to Second Life™, social networking, Twitter™, and content management systems: Are agricultural students ready, willing, and able? *Journal of Agricultural Education*, 53(3), 56-70. DOI: 10.5032/jae.2012.03056

Amaral, K., **Edgar, L.D.**, and **Johnson, D.M.** (2012). Agricultural communication students' perceptions, knowledge and identified sources of information about agritourism. *Journal of Applied Communications*, 96(3), 38-46. (Corresponding author)

**Edgar, L.D., Johnson, D.M., and Cox, C.K.** (2012). A 10 year assessment of information and communication technology tasks required in undergraduate agriculture courses. *Computers & Education*, 59(3): 740-749. (Corresponding author). \*\*3<sup>rd</sup> highest rated social science journal and first highest rated educational technology journal.

**Edgar, L.D.** and Rutherford, T.A. (2012). A semiotic analysis of the Texas Cooperative Extension marketing packet. *Journal of Applied Communications*, 96(1), 1-16. (Corresponding author)

McGuire, A.C., **Edgar, L.D., Edgar, D.W.**, Rutherford, T.A., Doerfert, D., and Murphrey, T. (2012). Crisis communication needs assessment. A Delphi study to enhance

instruction for agricultural communicators and other stakeholders. *NACTA Journal*, 56(4), 17-23. (Corresponding author)

Davis, J.A., **Johnson, D.M., Edgar, D.W., Wardlow, G.W.,** and Sadaka, S. (2012). NO<sub>x</sub> emissions and performance of a single-cylinder diesel engine with emulsified and non-emulsified fuels. *Applied Engineering in Agriculture*, 28(2): 179-186. (Corresponding author)

Rhodes, T.N., **Miller, J.D., and Edgar, L.D.** (2012). Evaluating capstone courses: Employing the five R's model to analyze an agricultural communications magazine class. *NACTA Journal*, 56(10), 9-16.

**Miller, J.D.,** McCullough, S.W., Rainey, D.V., and Das, B. (2012). Communications training needs in Arkansas' agritourism industry. *Journal of Applied Communications*, 96(1), 68-81.

Refereed Professional Research Presentations

**Edgar, D.W., Johnson, D.M.,** and Hunt, C.L. (2012). Perceptions of community college students towards biofuels: The effects of different methodological approaches. Paper presented at the 31<sup>st</sup> National Agricultural Mechanics Professional Development and Research Conference, October 28, 2012, Indianapolis, IN. Outstanding Research Manuscript

**Graham, D.L.** (2012). Sustaining agriculture by integrating globalization into the curriculum. Poster presented at the Annual Conference of the National Association of Colleges and Teachers of Agriculture (NACTA). (Refereed poster, abstract published in the *NACTA Journal*, 56, Supplement 1, p. 90).

**Johnson, D.M., Edgar, D.W., Edgar, L.D.,** and Pate, M.L. (2012). Awareness, use and perceptions of biodiesel: A comparison of agriculture and non-agriculture majors. Poster presented at the Annual Conference of the National Association of Colleges and Teachers of Agriculture (NACTA). (Refereed poster, abstract published in the *NACTA Journal*, 56, Supplement 1, p. 67).

Pennington, K.M., **Edgar, L.D., Edgar, D.W., Cox, C.K.,** and Hunt, B.A. (2012). Experiential learning through visual communications curriculum in secondary schools. Paper presented at the 2012 Ag Comm Section of the Southern Association of Agricultural Scientists Conference, Birmingham, AL, February 4-7, 2012. (Refereed paper)

**Johnson, D.M., Edgar, L.D.,** and **Cox, C.K.** (2012). Student and faculty perceptions of ICT use in undergraduate courses. Paper presented at the Annual Conference of the National Association of Colleges and Teachers of Agriculture (NACTA). Refereed paper, abstract published in *NACTA Journal*, 56, Supplement 1, p. 19).

**Johnson, D.M., Edgar, D.W., and Edgar, L.D.** (2012). Biodiesel: Awareness and perceptions of agriculture students at two universities. Paper presented at the 2012 AAAE Southern Region Research Conference, Birmingham, AL, February 4-7, 2012. (Refereed paper) Distinguished Research Manuscript – SAAS Ag Ed Section

Hundley, C.T., Rhodes, T.N., **Miller, J.D.**, and Jogan, K. (2012). Clients' perceptions of the quality of services provided by agricultural communications students in a service learning project. Paper presented at the 2012 Southern Association of Agricultural Scientists Agricultural Communications Research Conference, Mobile, AL, February 5-6, 2012.

### **Agriculture Statistics Laboratory**

**Crandall P.**, E. J. Van Loo, C. A. O'Bryan, **A. Mauromoustakos**, F. Yannis, N. Dyenson and I. Berdnik (2012). Companies' Opinions and Acceptance of Global Food Safety Initiative Benchmarks after Implementation. *Journal of Food Protection*, 75( 9), 1660–1672

Kaume, L., J.C. Foote and **E.E. Gbur** (2012). Microbial contamination of herbs marketed to HIV infected people in Nairobi, Kenya. *South African Journal of Science*, 108(9/10) Article 563, 4 pp. doi: [dx.doi.org/10.4102/sajs.v108i9/10.563](https://doi.org/10.4102/sajs.v108i9/10.563).

Sthapit, J., **E.E. Gbur**, G. Brown-Guedirea, D.S. Marshall and E.A. Milus (2012). Characterization of resistance to stripe rust in contemporary cultivars and lines of winter wheat in the Eastern United States. *Plant Disease*, 96, 737-745.

Perumalla, A.V.S., **N.S. Hettiarachchy**, K.F. Over, S.C. Ricke, E.E Gbur, J. Zhang and B. Davis (2012). Effect of potassium lactate and sodium diacetate combination to inhibit *Listeria monocytogenes* in low and high fat chicken and turkey hotdog model systems. *Open Access Food Science Journal*, 6, 16-23.

Rayaprolu, S. J., **N. S. Hettiarachchy**, P. Chen, A. Kannan and A. Mauromoustakos (2012). Peptides Derived from High Oleic Acid Soybean Meals Inhibit Colon, Liver and Lung Cancer Cell Growth. *Food Research International* 50 (2013), 282-288 DOI: 10.1016/j.foodres.2012.10.021

V. A. Kuttappan, S. D. Goodgame, C. D. Bradley, **A. Mauromoustakos**, B. M. Hargis, P. W. Waldroup, and C. M. Owens (2012). Effect of different levels of dietary vitamin E (DL- $\alpha$ -tocopherol acetate) on the occurrence of various degrees of white striping on broiler breast fillets. *Poultry Science Journal*, 91, 3230-3235.



Bangarwa, S.K., **J.K. Norsworthy** and E.E. Gbur (2012). Effect of turnip soil amendment and yellow nutsedge (*Cyperus esculentus*) tuber densities on interference in polyethylene-mulched tomato. *Weed Technology*, 26, 364-370.

Bangarwa, S.K., **J.K. Norsworthy** and E.E. Gbur (2012). Allyl isothiocyanate as a methyl bromide alternative for weed management in polyethylene-mulched tomato. *Weed Technology*, 26, 449-454.

Bangarwa, S.K., **J.K. Norsworthy** and E.E. Gbur (2012). Comparison of herbicidal activity of phenyl isothiocyanate with methyl bromide in polyethylene-mulched tomato. *Weed Technology*, 26, 666-672.

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Bangarwa, S.K., **J.K. Norsworthy** and E.E. Gbur (2012). Effects of shoot clipping-soil disturbance frequency and tuber size on above-ground and below-ground growth of purple and yellow nutsedge (*Cyperus rotundus* and *Cyperus esculentus*). *Weed Technology*, 26, 813-817.

Billiris, M.A., **T. J. Siebenmorgen**, J.-F. Meullenet and A. Mauromoustakos (2012). Rice degree of milling effects on hydration, texture, sensory and energy characteristics. Part 1 Cooking using excess water. *Journal of Food Engineering*, 113(4), 559-568

Ondier, G.O., **T.J. Siebenmorgen** and A. Mauromoustakos. (2012). Drying Characteristics and Milling Quality of Rough Rice Dried in a Single Pass Incorporating Glass Transition Principles *Drying Technology*, 30(16), 1821-1830

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## **Animal Science**

Potter, B. D., C. M. Owens, M. F. Slavik, H. L. Goodwin, J. K. **Apple**, and J. M. Marcy. 2012. "Impact of performance-based sanitation systems on microbiological characteristics of poultry processing equipment and carcasses as compared to traditional sanitation systems." *J. Appl. Poultry Res.* 21:669-678.

Tapp, W. T., J. W. S. Yancey, J. K. **Apple**, and R. G. Godbee. 2012. "Noni puree (*Morinda citrifolia*) mixed in beef patties enhanced color stability." *Meat Sci.* 91:131-136.

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**Beck**, P., B. **Barham**, J. K. **Apple**, W. Whitworth, M. F. Miller, and S. **Gadberry**. 2012. "Effect of age entering feedlot and implant regimen on finishing system profitability." *Prof. Anim. Sci.* 28:32-40.

Morgan, M. S., P. A. **Beck**, T. Hess, D. S. Hubbell, III, and M. S. **Gadberry**. 2012. "Effects of establishment method and fall stocking rate of wheat pasture on forage mass, forage chemical composition, and performance of growing steers." *J. Anim. Sci.* 90:3286-3293.

Sales, M. A., M. J. Larson, S. T. Reiter, A. H. **Brown**, Jr., M. A. Brown, M. L. **Looper**, K.P. **Coffey**, and C. F. **Rosenkrans**, Jr. 2012. "Effects of bovine cytochrome P450 single nucleotide polymorphism, forage type, and body condition on production traits in cattle." *J. Anim. Physiol. Nutr.* 96:545-553.

Sales, M. A., K. Y. Murphy, S. T. Reiter, A. H. **Brown**, Jr., M. A. Brown, M. L. **Looper**, and C. F. **Rosenkrans**. 2012. "Effects of forage type, body condition and single-nucleotide polymorphisms in the bovine cytochrome P450 regulatory region on cow productivity." *J. of Anim. Physiology and Anim. Nutr.* Doi: 10.1111/j.1439-0396.2011.01246.x.

Caldwell, J. D. K. P. **Coffey**, J. A. **Jennings**, D. **Philipp**, A. N. Young, J. D. Tucker, D. S. Hubbell, III, T. Hess, M. L. **Looper**, C. P. West, M. C. Savin, M. P. Popp, D. L.

**Kreider**, D. M. Hallford, and C. F. **Rosenkrans**, Jr.. 2012. "Performance by spring and fall-calving cows grazing with full access, limited access, or no access to neotyphodium coenophialum-infected fescue." *J. Anim. Sci* 91:465-476.

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Moubarak, A. S., H. Wang, Z. B. **Johnson**, and C. F. **Rosenkrans**, Jr. 2012. "Interaction of ergotamine with liver cytochrome P450 3A in rats." *Agricultural Sciences* 3:795-798.

**Kegley**, E. B., M.R. Pass, J. C. Moore, and C. K. Larson. 2012. "Supplemental trace minerals (zinc, copper, manganese, and cobalt) as Availa-4 or inorganic sources for shipping-stressed beef cattle." *Prof. Anim. Sci.* 28:313-318.

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May, K. D., J. E. Wells, C. V. **Maxwell**, and W. T. Oliver. 2012. "Granulated Iysozyme as an alternative to antibiotics improves growth performance and small intestinal morphology of 10-day-old pigs." *J. Anim. Sci.* 90:1118-1125.

Smith, S.A., M. P. Popp, and D. **Philipp**. 2012. "Improving Bermudagrass Pastures with

Crimson and White Clover: An Estimation of Establishment Costs.” *Agron. J.* 104:1517-1522.

Hunt, M., A. King, S. Barbut, J. Claus, D. Cornforth, D. Hanson, G. Lindahl, R. Mancini, A. Milkowski, A. Mohan, F. **Pohlman**, C. Raines, M. Seyfort, O. Sorheim, S. Suman and M. Weber. 2012. *Meat Color Measurement Guidelines*. American Meat Science Association. August 2012. Raleigh, NC: Lulu Press, Inc.

Mohan, A., F. W. **Pohlman**, J. A. McDaniel, M. Hunt. 2012. “The effects of peroxyacetic acid, octanoic acid, malic acid, and potassium lactate treatment of beef trimmings on microbial and instrumental color characteristics of ground beef.” *Journal of Food Science*, Vol 77:M188-M193.

**Powell**, J. G., J. T. Richeson, E. B. **Kegley**, K. P. **Coffey**, G. F. Erf, A. H. **Brown**, W. Downum, and D. T. Ensley. 2012. “Immunologic, Health, and Growth Responses of Beef Calves Administered Pentavalent Modified-Live Virus Respiratory Vaccine during the Presence of Maternal Antibody versus a Traditional Vaccination Regimen.” *The Bovine Practitioner* 46(2):122-130.

**Rorie**, R.W. 2012. “Timing of artificial insemination in dairy cattle when using either sorted or unsorted semen.” *U of A Dairy eNews*, Dec., 2012.

**Troxel**, T. R. and M. S. **Gadberry**. 2012. “Relationships of barometric pressure and environmental temperature with incidence of parturition in beef cows.” *J. Anim. Sci.* 90:1583-1588.

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**Yazwinski**, T.A., Tucker, C. Miles, Reynolds, Jones, Hornsby, Smith and Martin. 2012. “Evaluation of generic injectable ivermectin for control of nematodiasis in feedlot cattle.” *The Bovine Practitioner*. 46(1): 60-65.

### **Biological and Agricultural Engineering**

Djioleu A, E Martin, M Pelkki and **D. J. Carrier** (2012). “Xylose and glucose yields from dilute acid pretreatment and enzymatic hydrolysis of sweetgum (*Liquidambar styraciflua* L.)” *Agricultural and Analytical Bacterial Chemistry* 2: 175-186

Drake, W.M., J.T. Scott, M. Evans-White, **B. Haggard**, A. Sharpley, and E.M. Grantz. 2012. "The effect of periphyton stoichiometry and light on biological immobilization and release in streams." *Limnology* 13:97-106.

**Haggard, B.E.**, J.T. Scott, and S. Patterson. 2012. "Sediment phosphorus flux in an Oklahoma reservoir suggests reconsideration of watershed management planning." *Lake and Reservoir Management* 28:59-69.

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Karlsson, M.E., **Ana J. Bridges,** Bell, J., and **Petretic,** P. (November, 2012). Development and evaluation of a sexual violence therapy group for incarcerated women. In A. DePrince (chair), *Trauma-Informed Treatment with Marginalized Groups.*” International Society for Traumatic Stress Studies, 29<sup>th</sup> annual meeting, Los Angeles, CA, Nov. 2012.

**Davis, Ralph K.,** A. Nottmeier, **Phillip D. Hays,** and D. Melton, 2012, Groundwater Quality Assessment Based on Samples Collected From Shallow Domestic Wells in the Central Arkansas Area Overlying the Fayetteville Shale Natural Gas Play. *Geological Society of America Abstracts with Programs* Vol. 44, No. 7.

**Dowdle, Andrew J.** Paper presented (as coauthor) for the 21st ACM International Conference on Information and Knowledge Management; Maui, HI, November 2012; “Party Cohesion in Presidential Races: Applying Social Network Theory to the 2011 Preprimary.” Referred paper, published as pp. 11-14 in the “Proceedings of the First Annual Workshop on Politics, Elections and Data.”).

Wang, Y., Zhou J., and **Yuchun Du.** RuvB-like proteins interact with influenza A viral protein NS1 and affect the apoptosis of the virus infected cells in the absence of interferons. *Influenza Research and Development Conference.* July 09-10, 2012, San Francisco, CA. *Refereed.*

Zhou Z., Liu L., Zhou J., and **Yuchun Du.** Quantitative Proteomic Analysis of Human Breast Cancer MCF7 Cells Stimulated with 17 $\beta$ -Estradiol. *HUPO (Human Proteome Organization) 11<sup>th</sup> Annual World Congress.* September 9-13, 2012, Boston, MA. *Refereed.*

Zhou, J., and **Yuchun Du.** Acquired resistance of pancreatic cancer cells to 2-methoxyestradiol is associated with the upregulation of manganese superoxide dismutase in the



mitochondria. *Pancreatic Cancer: Progress and Challenges*. June 18-21, 2012, Lake Tahoe, NV. *Refereed*.

Zhou, J., and **Yuchun Du**. Quantitative proteomics for studying pancreatic cancer stem cells and chemo-/radio-resistance. 1<sup>st</sup> Arkansas Stem Cell and Regenerative Medicine Conference, April 17-18, 2012, Morrilton, AR. *Refereed*.

Ree, B., Liu, Y., and **Michael Lehmann**. NMDA Receptor and Protein Tyrosine Phosphatase Ptpmeg Implicate Calcium Signaling in the Control of Developmental Cell Death in *Drosophila*. 53<sup>rd</sup> Annual Drosophila Research Conference, Chicago, IL, USA, March 7 – 11, 2012. *Refereed/abstract published*.

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**Stenken, J. A.**, G. D. Keeler, G. Bajpai, M. Gupta, C. R. Sides, and **Jeannine M. Durdik**. “Elucidating the Chemical Microenvironment Necessary for and Predictive of Macrophage Polarization to Implants.” *Society for Biomaterials. Fall 2012 Symposium, New Orleans, LA, October 2012*.

**Brock, Geoffrey**. “Children’s Review: Pinocchio.” Book review in *Publishers Weekly*, July 16, 2012. Print and Web: [www.publishersweekly.com/978-1-59017-588-0](http://www.publishersweekly.com/978-1-59017-588-0). (Excerpt:

“Readers not ready to tackle the story in Italian will be more than satisfied with Brock’s lovely 2009 translation.”).

**Brock, Geoffrey.** “Gifts for the Fairy-Tale Lovers in Your Life.” Review article by Julie Danielson, in *Kirkus Reviews*, Dec. 7, 2012. Web: [www.kirkusreviews.com/features/gifts-fairy-tale-lovers-your-life](http://www.kirkusreviews.com/features/gifts-fairy-tale-lovers-your-life). (Excerpt: “Brock does well with this translation—not shying from the story’s inherent violence and not once having it pretend to be the morally uplifting tale Disney made it.”).

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**King, Sam.** "Landscapes, movement part of NWA art exhibits" The City Wire (thecitywire.com) October 4, 2012. <http://www.thecitywire.com/node/24322>

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#### *Other Lectures, Papers, and Presentations*

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**Beck, D.** (2012, October). *Increasing historical literacy with technology*. Paper presented at the Association of Educational Communications and Technology, Louisville, KY.

**Beck, D.** (2012, October). *Judging me by what I do: Comparing special education and general education cyber school students*. Paper presented at the Association of Educational Communications and Technology, Louisville, KY.

**Benton, G. M.** (2012, November). *Civil War re-enactors and living history practitioners reasons for participating*. Paper presented at the National Association for Interpretation National Workshop, Hampton, Virginia.

Brunen, M. N., **Murry, J. W. Jr., & Mamiseishvili, K.** (2012, November). *Raising the bar: The modern community college presidency*. Research paper presented at the Association for the Study of Higher Education (ASHE) annual conference, Las Vegas, NV.

**Collet, V.** (2012, November). *Write on! The impact of digital writing workshop on students' new and traditional literacies*. Paper presented at the annual conference of the Literacy Research Association, San Diego, CA.

**Collet, V.** (2012, November). *Using weighted running records to monitor student progress*. Paper presented at the Annual Conference of the Association of Literacy Educators and Researchers, Grand Rapids, MI.

**Collins, K. M. T.** (2012, February). *Interpreting the intertwined roles of science and evidence: A mixed research approach*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

**Connors, S. P.** (2012, October). *Charting new ground: Analyzing and composing graphic narratives as a method of developing visual literacy*. Paper presented at the International Visual Literacy Association Conference. Portland, ME.

Dougan, K. & **Pijanowski, J. C.** (2012, November). *Long-term benefits of kindergarten redshirting*. Paper presented at the 2012 University Council for Educational Administration Conference, (proceedings available at <http://convention2.allacademic.com/one/ucea/ucea12/index.php>) Denver, CO.

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**Goering, C. Z.,** Kindall, H., & Williams, C. M. W. (2012, February). *A place between: A two-year case study of a transition from English teacher to literacy interventionist*. Paper presented at the Assembly for Research of the National Council of Teachers of English, Tuscaloosa, AL.

**Grover, K. S., & Miller, M. T.** (2012, February). *Writing apprehension among online adult college students: Intelligent design or missed opportunity?* Research paper presented at the Annual Meeting of the Eastern Educational Research Association, Hilton Head Island, SC.

**Hewitt, P., Denny, G., & Pijanowski, J.** (2012, August). *Teacher preferences for alternative school site administrative models*. Paper presented at the meeting of the National Council of Professors of Educational Administration, Kansas City, MO.

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**Kayı-Aydar, H.** (2013, March). *Social positioning, membership, and second language learning in an ESL classroom: A case study of talkative students*. Paper presented at American Association for Applied Linguistics Conference, Dallas, TX.

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**Murry, J. W. Jr., Hetrick, F., & Mamiseishvili, K.** (2012, November). *The first ninety days: Transition strategies utilized by new senior student affairs officers at four-year, public research, land grant institutions*. Research paper presented at the Association for the Study of Higher Education (ASHE) annual conference, Las Vegas, NV.

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Onwuegbuzie, A. J., Frels, R. K., **Collins, K. M. T., & Leech, N. L.** (2012, February). *A four-phase model for teaching and learning mixed research*. Paper presented at the Annual meeting of the Southwest Educational Research association, New Orleans, LA.

Parylo, O., Zepeda, S. J., & **Bengtson, E.** (2012, April). *Principal mentoring as a leader preparation, socialization, support, and professional development strategy*. Paper presented at the Annual Meeting of the American Educational Research Association, Vancouver, BC.

Sewell, W. C., & **Goering, C. Z.** (2012, November). *Multimodal Fogerty: Furthering the message through research-based instructional strategies*. Paper presented at the Annual Convention of the National Council of Teachers of English, Las Vegas, NV.

Trinkle, S. M., & **Holt, C. R.** (2012, August). *The Effects of Scheduling on Criterion-Referenced Assessments in Arkansas High Schools*. Paper presented at the National Conference of Professors of Educational Administration, Kansas City, MO.

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*Other Creative Endeavors*

**Bengtson, E.,** & Stacy, J. (2012, September). *Lynn University case report*. Carnegie Program on the Education Doctorate.

**Bengtson, E.,** Fellabaum, J., & Kaiser, S. (2012, September). *University of Oklahoma case report*. Carnegie Program on the Education Doctorate.

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# College of Engineering

## **Books**

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## **Book Chapters**

**Buyurgan, N.**, S. Landry, and R. Philippe. "RFID Adoption in Healthcare and ROI Analysis." *RFID Applications*, Ed. Alp Ustundag. Springer-Verlag: London, 2012. 81-86.

Sharara, M. A., **E. C. Clausen** and D. J. Carrier. "An Overview of Biorefinery Technology." *Biorefinery Co-Products: Phytochemicals, Primary Metabolites and Value-Added Biomass Processing*, Eds. D. J. Carrier, S. Ramaswamy and C. Bergeron. John Wiley & Sons: New York, 2012. 1-18.

- Di, J.** and Smith, S.C. “Asynchronous Digital Circuits.” *Extreme Environment Electronics*, Eds. John D. Cressler and H. Alan Mantooth. CRC Press: Boca Raton, FL, 2012. 663-674.
- Di, J.** and D.R. Thompson. “Security for RFID Tags.” *Introduction to Hardware Security and Trust*. Springer: New York, 2012. 283-304.
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**Zaharoff, D.A.**, Heffernan, M.J., Fallon, J.A., and Greiner, J.W. “Preclinical and Clinical Use of Chitosan and Derivatives for Biopharmaceuticals: From Preclinical Research to the Bedside.” *Chitosan-Based Systems for Biopharmaceuticals: Delivery, Targeting and Polymer Therapeutics*. Eds. Sarmiento, B, and das Neves. John Wiley & Sons, Ltd: Chichester, UK, 2012. 525-541.

### **Refereed Articles**

**Huang, M.** and L. Men, “Improving the Performance of On-Board Cache for Flash-based Solid-State Drives,” in *Proceedings of the 7<sup>th</sup> IEEE International Conference on Networking, Architecture, and Storage (NAS 2012)*, Xiamen, China, June 28-30, 2012

Ma, S., **M. Huang**, E. Cartwright, and D. Andrews, “Scalable Memory Hierarchies for Embedded Manycore Systems,” in *Proceedings of the 8<sup>th</sup> International Symposium on Applied Reconfigurable Computing (ARC 2012)*, LNCS 7199, pp 151-162, Hong Kong, China, Mrch 19-23, 2012

Ramanathan, N., **B. Panda**, and Y. Hu, “A Grouping Model for Prompt Agent Based Damage Assessment”, in *Proceedings of 9th International Workshop on Security in Information Systems (WOSIS 2012)*, Wroclaw, Poland, June 28, 2012

Yaseen, Q. and **B. Panda**, “Mitigating Insider Threat without Limiting the Availability in Concurrent Undeclared Tasks”, in *Proceedings of the Sixth IEEE International Conference on Software Security and Reliability (SERE 2012)*, Washington, D.C., June 20-22, 2012.

Yang, X., **S. S. Ang**. 2012. “A Hydrophobic/Anti-reflective Coating and a Nano Particle Ethylene- Vinyl Acetate Encapsulation for Solar Cell Packaging” *Advancing Microelectronics*. 39.6 (Nov./Dec.) 2012” 16-20.

Zhang, M., **S. S. Ang**, M. Wang, G. Liu. “Evaluation of Solid-State electrode for the Rapid Detection of Soil Nitrate-Nitrogen.” *Advanced Materials Research*, 422 (2012): 96-101.

Du, J., N. Lorenz, **R. R. Beitle** and J. A. Hestekin. “Application of Wafer-Enhanced Electrodeionization in a Continuous Fermentation Process to Produce Butyric Acid with *Clostridium tyrobutyricum*.” *Separation Science and Technology*. 47. 1 (2012): 43-51.

**Berry, K.**, A. Russell, P. Blake, and D. K. Roper. “Gold Nanoparticles Reduced *in situ* and

Dispersed in Polymer Thin Films: Optical and Thermal Properties.” *Nanotechnology* 23. 37 (2012): 375703. doi:10.1088/0957-4484/23/37/375703.

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