

Publications 2005-2010:

BUCKMASTER:

1. Buckmaster, D.R. and N.J. Carroll. 2009. Motivating students: factors to consider. *NACTA Journal*. 53(2):53-55.
2. Buckmaster, D.R. 2009. Equipment matching for silage harvest. *Applied Engineering in Agriculture*. 25(1):31-36
3. Buckmaster, D.R. 2008. Assessing Activity Access of Forage and Biomass. *Trans. of the ASABE*. 51(6):1879-1884.
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5. Lawrence, M.J., D.R. Buckmaster, and W.J. Lamont. 2007. A pneumatic dibbling machine for plastic mulch. *Applied Engineering in Agriculture* 23(4):419-424.
6. Zimmerman, A.P., R.G. Johnson, T.S. Hoover, J.W. Hilton, P.H. Heinemann, and D.R. Buckmaster. 2006. Comparison of personality types and learning styles of engineering students, agricultural systems management students, and faculty in an agricultural and biological engineering department. *Applied Engineering in Agriculture*. 49(1):311-317
7. Thomas, R. S. and D. R. Buckmaster. 2005. Development of a Computer Controlled, Hydraulic, Power Take-Off (PTO) System. *Transactions of the American Society of Agricultural Engineers*. 48(5):1669-1675.
8. Buckmaster, D.R. and J.W. Hilton. 2005. Computerized cycle analysis of harvest, transport, and unload systems. *Computers and Electronics in Agriculture*. 47(1):137-147.
9. Rotz, C.A., D.R. Buckmaster, and J.W. Comerford. 2005. A beef herd model for simulating feed intake, animal performance, and manure excretion in farm systems. *Journal of Animal Science*. 83(1):231-242.

CHAUBEY:

1. Gitau², M.W., I. Chaubey, E.Gbur, J.H. Pennington, and B. Gorham. 2009. Impact of land use change and BMP implementation in a CEAP watershed: Northwest Arkansas. *Journal of Soil and Water Conservation*. In Print.
2. Cibin¹, R., K.P. Sudheer, and I. Chaubey. 2009. Sensitivity and identifiability of stream flow generation parameters of the SWAT model. *Hydrological Processes*. In Print.
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4. Thomas¹, M.A., B.E. Engel, and I. Chaubey. 2009. Water quality impacts of corn production to meet biofuel demands. *Journal of Environmental Engineering*. 135(11): 1123-1135.
5. Maringanti¹, C., I. Chaubey, and J. Popp. 2009. Development of a multi-objective optimization tool for selection and placement of BMPs for nonpoint source pollution control. *Water Resources Research*, 45, W06406, doi:10.1029/2008WR007094.
6. Merriman¹, K.R., M.W. Gitau², and I. Chaubey. 2009. A tool for estimating Best Management Practice Effectiveness in Arkansas. *Applied Engineering in Agriculture* 25(2):199-213.

7. Leh¹, M.D. and **I. Chaubey**. 2009. GIS-based predictive models of hillslope runoff generation processes. *Journal of the American Water Resources Association* 45(4): 844-856. DOI 10.1111/j.1752-1688.2009.00328.x.
8. Garg¹, V. and **I. Chaubey**. 2009. A computationally efficient inverse modeling approach of inherent optical properties for a remote sensing model. *International Journal of Remote Sensing*. In Press.
9. Mutlu¹, E., **I. Chaubey**, H. Hexmoor, and S.G. Bajwa. 2008. Comparison of artificial neural network models for hydrologic predictions at multiple gauging stations in an agricultural watershed. *Hydrological Processes* 22:5097-5106.
10. Quansah, J.E., B.E. Engel, and **I. Chaubey**. 2008. Tillage practices usage in early warning prediction of atrazine pollution. *Transactions of the ASABE* 51(4):1311-1321.
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14. Migliaccio, K.W., and **I. Chaubey**. 2008. Influence of spatial distributions and stochastic parameters on SWAT model flow and sediment predictions. *Journal of Hydrologic Engineering* 13(4):258-269. DOI: 10.1061/(ASCE)1084-0699(2008)13:4(258).
15. Migliaccio¹, K.W., B.E. Haggard, **I. Chaubey**, and M. Matlock. 2007. Linking watershed characteristics to water quality parameters in War Eagle Creek watershed. *Transactions of the ASABE* 50(6):2007-2016.
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- retention, limitation, and sediment interactions in a pasture dominated stream. *Transactions of the ASAE* 50(1):35-44.
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 28. Warner, K.A., J.C. Bonzongo, E.E. Roden, M.G. Ward, A. Green, **I. Chaubey**, W.B. Lyons, and D. A. Arrington. 2005. Effect of watershed parameters on mercury distribution in different environmental compartments in the Mobile Alabama River Basin, USA. *Science for the Total Environment* 347:187-207.
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 7. Yang, G., L. C. Bowling, K. A. Cherkauer, B. C. Pijanowski, and D. Niyogi (2009). Hydroclimatic Response of Watersheds to Urban Intensity-An Observational and Modeling Based Analysis for the White River Basin, Indiana, *J. Hydrometeor.*, preprint(2009), 0000-0000.
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1. Choi, J-Y, B. A. Engel, and R. Farnsworth. 2005. Web-based GIS and spatial decision support system for watershed management. *Journal of Hydroinformatics* 7(3):165-174.
2. Frimpong, E.A., T. M. Sutton, K.J. Lim, P. J. Hrodey, B. A. Engel, T. P. Simon, J. G. Lee, and D.C. Le Master. 2005. Determination of optimal riparian forest buffer dimensions for stream biota–landscape association models using multimetric and multivariate responses. *Can. J. Fish. Aquat. Sci.* 62: 1–6 (2005).
3. Vazquez-Amabile, G.G., and B.A. Engel. 2005. Use of SWAT to Compute Groundwater Table Depth and Streamflow in the Muscatatuck River Watershed. *Transactions of the ASAE* 48(3):991-1003.
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12. Lim, K.J., B. A. Engel, Z. Tang, J. Choi, K.S. Kim, S. Muthukrishnan, and D. Tripathy. 2005. Automated web GIS based hydrograph analysis tool, WHAT. *Journal of the American Water Resources Association* 41(6):1407-1416.
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FIELD:

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