

## Publications and Presentations from 2010 annual W2128 Report

- AbdelGadir, A.H., M. Dougherty, J.P. Fulton, C. Burmester, C. Norris, L.M. Curtis, and D. Monks. 2009. Sub-surface drip irrigation-fertigation for site-specific, precision management of cotton. Paper No. 2176. Innovations in Irrigation Conference. December 2-4, 2009, San Antonio, TX.
- Ahmad, A., A. Fares, S. Paramasivam, M. A. Elrashidi; R. M. Savabi. 2009. Biomass and nutrient concentration of sweet corn roots and shoots under organic amendments application. *J. of Environ. Sci. and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes*, 44(8): 742 – 754.
- Ahmad, A.A.; Fares, A.; Abbas, F.; Deenik, J.L. 2009. Nutrient concentrations within and below root zones from applied chicken manure in selected Hawaiian soils *Journal of Environmental Science and Health Part B*. 44(8): 828-843.
- Alam, M. 2009. Extensive discussion with producer from Plains Kansas about SDI pros and cons with particular reference to use of SDI for alfalfa hay and grass production, April 16.
- Alam, M. 2009. KSU -Northwest Cotton Growers Co-Op Gin Field Day, September 15, 2009, Ron Lucas Farm, Moscow, KS
- Alam, M., D. Rogers and F. R. Lamm. 2009. Poster presentation of In-Field Evaluation of Subsurface Drip Irrigation Systems in Kansas at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Alam, M., D. Rogers and F. R. Lamm. 2009. Poster presentation of In-Field Evaluation of Subsurface Drip Irrigation Systems in Kansas at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Alam, M., D. Rogers and F.R. Lamm. 2009. . Poster presentation of In-field evaluation of subsurface drip irrigation systems in Kansas at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Arbat, G., F. R. Lamm and A. A. Abou Kheira. 2009. Effect of emitter spacing on soil water redistribution, corn yield and water productivity under subsurface drip irrigation (SDI). ASABE paper no. 096578. Available from ASABE, St. Joseph, MI. 17 pp.
- Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn production at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2009. Poster presentation of Effect of emitter spacing on corn production at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Bartolo, M.E. 2009. Onion response to different water qualities. In *Arkansas Valley Research Center 2007 Reports*, CSU Ag. Expt. Station Technical Report 09-12. p.38-41.
- Bohl, W., T. Salaiz, H. Neibling and T McCammon. 2009. *Watering Home Lawns: How Much and How Often*. University of Idaho Extension CIS 1157, 7pp.
- Chighladze, G., A.L. Kaleita, and S. Birrell. 2009. Response of capacitance probes to soil solution nitrate concentration. ASABE Paper No. 097211. ASABE Annual International Conference, Reno, NV, June 21 !! June 24.
- Colaizzi, P. 2009. Discussed irrigation system research with Amarillo Chamber of Commerce Agricultural Committee, field tour at CPRL on August 26, 2009.
- Colaizzi, P. 2009. Discussion of SDI pros and cons for buffalo grass with homeowner at Bushland, Texas, April 17
- Colaizzi, P. 2009. Field tour of irrigation research at CPRL with Soil and Water Conservation class taught by Dr. B. A. Stewart, West Texas A&M University, 13 undergrads (all US citizens), 8 grads (3 US, 4 India, 1 Zimbabwe), April 29.
- Colaizzi, P. and S.R. Evett. 2009. Tour of drip irrigation research in conjunction with the "Wheat Issues and Challenges: Small Grain Field Day" at the USDA-ARS Conservation & Production Research Laboratory, Bushland, Texas, May 21, 2009.
- Colaizzi, P. and S.R. Evett. 2009. Tour of irrigation research and facilities at the USDA-ARS Conservation & Production Research Laboratory, Bushland Texas, was given for members of the Texas Consortium for Irrigation Research and Education (CIRE). Bushland, Texas. Research involving SDI management and comparison of irrigation methods was discussed, May 21-2009.

- Colaizzi, P. and S.R. Evett. 2009. Tour of irrigation research at the USDA-ARS Conservation & Production Research Laboratory, Bushland, Texas, for 22 extension agents from NW and SW Oklahoma. Research comparing subsurface drip irrigation to LEPA and LESA spray irrigation application methods was discussed.
- Colaizzi, P.D., Baumhardt, R. L., Evett, S.R., Howell, T.A. 2009. Presentation: Cotton Production with Spray, LEPA, and SDI. KSU – Northwest Cotton Growers Co-Op Gin Field Day, September 15, 2009, Ron Lucas Farm, Moscow, KS.
- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2009. Poster: Comparison of SDI with Alternative Irrigation Methods. SDI Field Day, August 25, 2009, Texas AgriLife Research and Extension Farm, Halfway, TX.
- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2009. Poster: Comparison of SDI with Alternative Irrigation Methods. SDI Field Day, August 4, 2009, KSU Research and Extension Center, Colby, KS.
- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2009. Poster: Corn Production with Alternative SDI Designs. SDI Field Day, August 25, 2009, Texas AgriLife Research and Extension Farm, Halfway, TX.
- Colaizzi, PD, PH Gowda, TH Marek, and DO Porter. 2009. Irrigation in the Texas High Plains: A brief history and potential reductions in demand. *Irrig. and Drain.* 58(3): 257-274.
- Dougherty, M., A.H. AbdelGadir, J.P. Fulton, E. van Santen, L.M. Curtis, C.H. Burmester, C.H., H.D. Harkins, and B.E. Norris. 2009. Subsurface Drip Irrigation and Fertigation for North Alabama Cotton Production. *Journal of Cotton Science.* 13(2009):227-237.
- Enciso-Medina, J., W. L. Multer, and F. R. Lamm. 2009. Impact of management on the life expectancy of drip systems. In: Proc. 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 11 pp.
- Enciso-Medina, J., W. L. Multer, and F. R. Lamm. 2009. Impact of Management on the Life Expectancy of Drip Systems. In: Proc. 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 11 pp.
- Enciso-Medina, J., W. Multer and F. R. Lamm. 2009. Evaluation of old subsurface drip irrigation systems in Texas. ASABE paper no. 095725. Available from ASABE, St. Joseph, MI. 8 pp.
- Fares, A, 2009. Citrus Irrigation Scheduling. *Tree Forestry Science and Biotechnology.* 3:12-21.
- Fares, A., F. Abbas, S.K. Deb, S. Paramasivam. 2009. Citrus Chemigation. *Tree Forestry Science and Biotechnology.* 3:22-31.
- Ha, W., Ajwa, H. A., Mansell, R. S., and Stanley, C. D. 2009. Two-dimensional simulation of non-isothermal fate and transport of a drip-applied fumigant in plastic-mulched soil beds. II. Methyl isothiocyanate (MITC). *Transport in Porous Media* 76:431–448
- Ha, W., Mansell, R. S., Stanley, C. D., and Ajwa, H. A. 2009. Two-dimensional simulation of non-isothermal fate and transport of a drip-applied fumigant in plastic- mulched soil beds. I. Model development and performance investigation. *Transp. Porous Med.* 78:77-99:
- Hanson, B.R., D.E. May, J. Simunek, J.W. Hopmans, and R.B. Hutmacher.2009. Drip irrigation provides for profitable irrigation of tomatoes in the San Joaquin Valley. *California Agriculture* paper. 63(3):131-136.
- Hanson, BR, DE May, J Simunek, JW Hopmans, and RB Hutmacher.2009. Drip irrigation provides for profitable irrigation of tomatoes in the San Joaquin Valley. *California Agriculture.* 63(3):131-136.
- Harbuck, T.L. J.P. Fulton, M. Dougherty, D. Eakes, S. Taylor, J. Sibley, and L. Curtis. 2009. In-field evaluation of pressure-compensated subsurface drip irrigation. ASABE Paper No. 097144. ASABE Annual International Conference, Reno, NV, June 21 !! June 24.
- Harmsen, E. W., J. Mecikalski, M. J. Cardona-Soto, A. Rojas Gonzalez and R. Vasquez, 2009. Estimating daily evapotranspiration in Puerto Rico using satellite remote sensing. *WSEAS Transactions on Environment and Development*, Vol. 6(5):456-465.
- Harmsen, E. W., J. Mecikalski, M. J. Cardona-Soto, A. Rojas Gonzalez and R. Vasquez, 2009. Satellite Solar Insolation-Based Daily Evapotranspiration Estimation in Puerto Rico. Proceeding of the 8th WSEAS Int. Conf. on INSTRUMENTATION, MEASUREMENT, CIRCUITS and SYSTEMS (IMCAS'09), China Jiliang University & Zhejiang University of Technology, in Hangzhou, China, May 20-22.
- Harmsen, E. W., J. Mecikalski, M. J. Cardona-Soto, A.Rojas Gonzalez and R. Vasquez, 2009. Satellite Solar Insolation-Based Daily Evapotranspiration Estimation in Puerto Rico. Proceeding of the 8th WSEAS Int. Conf. on INSTRUMENTATION,

- MEASUREMENT, CIRCUITS and SYSTEMS (IMCAS'09), China Jiliang University & Zhejiang University of Technology, in Hangzhou, China, May 20-22.
- Harmsen, E. W., N. L. Miller, N. J. Schlegel and J. E. Gonzalez, 2009. Seasonal Climate Change Impacts on Evapotranspiration, Precipitation Deficit and Crop Yield in Puerto Rico, *J. Agricultural Water Management* 96(7):1085-1095.
- Harmsen, E. W., V. H. Ramirez Builes, M. D. Dukes, X. Jia, J. E. Gonzalez And L. R. Pérez Alegía, 2009. A Ground-Based Method for Calibrating Remotely Sensed Surface Temperature for use in Estimating Evapotranspiration. *WSEAS TRANSACTIONS on ENVIRONMENT and DEVELOPMENT*. Issue 1, Volume 5, January. pp 13-23.
- Intrigliolo, D. S., Lakso, A. N., Piccioni, R. M. 2009. Using the heat pulse "Tmax" procedure to estimate grapevine water use in a humid climate. *Acta Hort.* 846:177-184.
- Intrigliolo, D.S., A.N. Lakso and R.M. Piccioni. 2009. Using the heat pulse "Tmax" procedure to estimate grapevine water use in a humid climate. *Acta Hort.* 846:177-184.
- Intrigliolo, D.S., A.N. Lakso and R.M. Piccioni. 2008. Grapevine cv. 'Riesling' water use in the northeastern United States. *Irrig. Science* 27:253-262. (online DOI 10.1007/s00271-008-0140-1).
- Lamm, F. R. 2009. Oral and poster presentation of Corn management with SDI to save water resources at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Oral and poster presentation of Corn management with SDI to save water resources at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Poster presentation of Comparison of SDI and simulated LEPA sprinkler irrigation for corn at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2009. Poster presentation of Corn management with SDI to save water resources at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. 2009. Poster presentation of Corn management with SDI to save water resources at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2009. Poster presentation of Slope considerations for SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Poster presentation of Slope considerations for SDI at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Poster presentation of Slope considerations for SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2009. A look at twenty years of SDI research in Kansas. Presented at the 26th Annual Water and the Future of Kansas Conf., Topeka, Kansas, March 26, 2009.
- Lamm, F. R. 2009. Discussion and review of SDI economics and other SDI topics at KSU-NWREC, Colby, Kansas with Jan Windscheffel, Netafim Irrigation, January 30, 2009.
- Lamm, F. R. 2009. Discussion of SDI and tour of facilities for 4 employees of 21st Century Equipment LLC., September 24, 2009 at Colby Kansas.
- Lamm, F. R. 2009. Discussion of SDI and tour of facilities for Charles Johnson, National Editor for Farm Journal, May 27, 2009.
- Lamm, F. R. 2009. Discussion of SDI with IA Drip/Micro Common Interest Group, San Antonio, Texas, December 4, 2009
- Lamm, F. R. 2009. Managing the challenges of subsurface drip irrigation. In: Proc. 2009 Irrigation Association Tech. Conf., San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 23 pp.

- Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Poster presentation of SDI Pros and Cons at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI, at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. 2009. Poster presentation of The Ogallala and the potential for SDI, at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. Provided approximately 50 CD-ROM Disks with SDI information to Texas AgriLife for Field Day concerning SDI held at Chillicothe, Texas, September 3, 2009.
- Lamm, F. R. 2009. Software to compare the economics of conversion to center pivot sprinkler irrigation or subsurface drip irrigation from furrow irrigation for corn production was updated and released to the public, January, 2009 [http://www.oznet.ksu.edu/sdi/Software/CP\\_SDI09.xls](http://www.oznet.ksu.edu/sdi/Software/CP_SDI09.xls)
- Lamm, F. R. 2009. Software to determine optimum planned corn area and plant population for SDI was updated and released to the public, January, 2009 [http://www.oznet.ksu.edu/sdi/Software/COpt\\_SDI09.xls](http://www.oznet.ksu.edu/sdi/Software/COpt_SDI09.xls)
- Lamm, F. R. 2009. Poster presentation of What is SDI? at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. 2009. Poster presentation of What is SDI? at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. 2009. A look at twenty years of SDI research in Kansas. In: Proc. Central Plains Irrigation Conf., Colby, KS., Feb. 24-25, 2009. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 152-176.
- Lamm, F. R. 2009. Managing the challenges of subsurface drip irrigation. In: Proc. 2009 Irrigation Association Tech. Conf., San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 23 pp.
- Lamm, F. R. 2009. Unique challenges with subsurface drip irrigation. ASABE paper no. 095927. Available from ASABE, St. Joseph, MI. 25 pp.
- Lamm, F. R. and A. A. Abou Kheira. 2009. Oral presentation of SDI research to Syngenta staff, Greensboro, North Carolina, December 8, 2009.
- Lamm, F. R. and A. A. Abou Kheira. 2009. Corn irrigation macromanagement at the seasonal boundaries !! Initiating and terminating the irrigation season. In: Proc. Central Plains Irrigation Conf., Colby, KS., Feb. 24-25, 2009. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 40-60.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.

- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Minimal system requirements for SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. H. Rogers. 2009. Poster presentation of Steps to a successful SDI system at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and G. A. Clark. 2009. Poster presentation of Filtration for SDI systems at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R. and R. M. Aiken. 2009. Poster presentation of SDI with Temperature-Time Threshold (TTT) at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R. and R. M. Aiken. 2009. Poster presentation of SDI with Temperature-Time Threshold (TTT) at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and R. M. Aiken. 2009. Poster presentation of SDI with Temperature-Time Threshold (TTT) at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and R. M. Aiken. 2009. Poster presentation of SDI with Temperature-Time Threshold (TTT) at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R., 2009. Distribution of remaining 2008 SDI and the Great Plains CD-Rom at the Monsanto Sustainability Conference, Denver, Colorado, February 11-13, 2009. (Approximately 50 CDs)
- Lamm, F. R., 2009. Distribution of SDI and the Great Plains CD-Rom at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F. R., 2009. Distribution of SDI and the Great Plains CD-Rom to Central Plains Irrigation Conference, February 24-25, 2009. (Approximately 150 CDs)
- Lamm, F. R., 2009. SDI facilities tour and discussion at KSU-NWREC, Colby, Kansas for Nir Aloni, Plastro Irrigation, Israel, February 25-26, 2009,
- Lamm, F. R., D. H. Rogers, M. Alam, D. M. O'Brien, and T. P. Trooien. 2009. Summary of twenty years of Kansas SDI research. In: Proc. 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 24 pp.
- Lamm, F. R., D. H. Rogers, M. Alam, D. M. OBrien, and T. P. Trooien. 2009. Summary of Twenty years of Kansas SDI Research. In: Proc. 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009. Available from the IA, Falls Church, VA. 24 pp.
- Lamm, F. R., D. H. Rogers, M. Alam, D. M. OBrien, and T. P. Trooien. 2009. Twenty years of progress with SDI in Kansas. ASABE paper no. 095923. Available from ASABE, St. Joseph, MI. 23 pp.

- Lamm, F. R., D. M. O'Brien, D. H. Rogers, and T. J. Dumler. 2009. Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet – 2009. Presented at the 26th Annual Water and the Future of Kansas Conf., Topeka, Kansas, March 26, 2009.
- Lamm, F. R., D. M. O'Brien, D. H. Rogers, and T. J. Dumler. 2009. Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet !! 2009. In: Proc. Central Plains Irrigation Conf., Colby, KS., Feb. 24-25, 2009. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 177-187.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R., K. Harmony, S. Johnson, and M. Alam. 2009. Poster presentation of Alfalfa production with SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at 2009 Irrigation Association Technical Conference, San Antonio, Texas, December 2-5, 2009.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R., L. R. Stone, and D. M. O'Brien. 2009. Poster presentation of Spacing of driplines for corn production at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Dean and Associate Deans of KSU College of Agriculture, October 6, 2009 at Colby Kansas.
- Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Farm Bureau's Master Program, October 9, 2009 at Colby Kansas.
- Lamm, F.R. 2009. Discussion of SDI and tour of facilities for Julio Santiago, Jain Irrigation, October 29, 2009 at Colby Kansas.
- Lamm, F.R. 2009. Discussion of SDI and tour of KSU-NWREC SDI facilities at Colby, Kansas with Lance Goldsmith and Matt Newsom, Eurodrip USA, Inc., April 23.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Historical Photos from KSU Northwest Research-Extension Center Subsurface Drip Irrigation Installations from 1989 and 1990 at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Historical Photos from KSU Northwest Research-Extension Center Subsurface Drip Irrigation Installations from 1989 and 1990 at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Historical Photos from KSU Northwest Research-Extension Center Subsurface Drip Irrigation Installations from 1989 and 1990 at the 26th Annual Water and the Future of Kansas conference, Topeka, Kansas, March 26, 2009.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of sensitivity of center pivot sprinkler and SDI economic comparisons at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F.R. 2009. LCD-TV JPEG presentation of Sensitivity of center pivot sprinkler and SDI economic comparisons at the 26th Annual Water and the Future of Kansas conference, Topeka, Kansas, March 26, 2009.
- Lamm, F.R. 2009. Poster presentation of Livestock Wastewater use through SDI – A Pilot Project at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.
- Lamm, F.R. 2009. Poster presentation of Optimum Fertigation for Corn Using SDI at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.

- Lamm, F.R. 2009. Poster presentation of SDI in the Great Plains at Annual Ogallala Aquifer Project Meeting, March 10-12, 2009, Garden City, Kansas.
- Lamm, F.R. 2009. Poster presentation of SDI in the Great Plains at the 26th Annual Water and the Future of Kansas conference, Topeka, Kansas, March 26, 2009.
- Lamm, F.R. 2009. Poster presentation of SDI in the Great Plains at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.
- Lamm, F.R. 2009. Poster presentation of Software for Planning Corn Production with SDI at Central Plains Irrigation Conference, February 24-25, 2009, Colby, Kansas.
- Lamm, F. R. and D. M. O'Brien. 2009. Computer and poster presentation of Can We Make it Work and Can We Make it Pay? at K-State Research and Extension Annual Conference, Manhattan, Kansas, October 20, 2009.
- Lamm, F. R. and D. M. O'Brien. 2009. Computer and poster presentation of Can We Make it Work and Can We Make it Pay? at SDI Technology Field Day, Colby Kansas, August 4, 2009.
- Lamm, F. R. and D. M. O'Brien. 2009. Computer and poster presentation of Can We Make it Work and Can We Make it Pay? at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Lesikar, Bruce, Rebecca Melton, Nancy Deal, George Loomis, David Kalen, Sara Christopherson, David Lindbo. 2009. Installation Curriculum for Small Scale Wastewater Treatment Systems. 2009 CSREES National Water Conference, St. Louis, MO, 02/08/09-02/12/09.
- Lesikar, Bruce. 2009. LPD Design. 7th Annual Texas On-site Wastewater Treatment Research Council Conference, Waco, Texas, 03/03/09-03/04/09.
- Lombard, K.A., M.K. O'Neill, R. Heyduck, B. Onken, A. Ulery, and J. Mexal. 2009. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. Poster presentation. 2nd World Congress on Agroforestry. August 23-28, 2009. World Agroforestry Centre (ICRAF). Nairobi, Kenya.
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- Schwankl, L. 2009. Maintenance and Management of Winegrape Drip Systems- 1.5 hr, Presenter, Lodi-Woodbridge Winegrape Commission Grower Workshop, Lodi, CA, 1/13/09, 75 Attendees.
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- Schwankl, L. 2009. Microirrigation Maintenance & Chemigation Uniformity- 30 min, Presenter, UCCE & NRCS Grower Meeting, Stanislaus County, CA, 8/4/09, 120 Attendees.
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- Trooien, T. P., F. R. Lamm and A. J. Schlegel. 2009. Poster presentation of Application of biological effluent with SDI at SDI Technology Field Day, Halfway Texas, August 25, 2009.
- Trooien, T. P., F. R. Lamm and A. J. Schlegel. 2009. Oral and Poster presentation of Application of biological effluent with SDI at SDI Technology Field Day, Colby Kansas, August 4, 2009.
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- Wheeler, T.A., D. Porter, D. Archer, and B. Mullinix. 2008. Effect of Fumigation on *Rotylenchulus reniformis* Population Density through Subsurface Drip Irrigation Located Every Other Furrow. *The Journal of Nematology.* Sept. 2008. 40(3):210-6.
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### **Publications and Presentations from 2011 annual W2128 Report**

- AbdelGadir, A.H., Fulton, J.P., Dougherty, M., Curtis, L.M., van Santen, E., Burmester, C.H., Harkins, H.D., and B.E. Norris. 2011. Subsurface drip irrigation placement and cotton irrigation water requirement in the Tennessee Valley. *Crop Management*, August 2011, doi:10.1094/CM-2011-0819-01-RS.
- Arbat, G., F. R. Lamm, and A. A. Abou Kheira. 2010. Subsurface drip irrigation emitter spacing effects on soil water redistribution, corn yield and water productivity. *Applied Engr. in Agric.* 26(3):391-399.
- Chighladze, G., A. Kaleita, and S. Birrell. 2010. Sensitivity of capacitance soil moisture sensors to nitrate ions in soil solution. *Soil Science Society of America Journal.* 74: 1987-1995.
- Chighladze, G., A. Kaleita, and S. Birrell. 2010. Temperature-dependent dielectric response of aqueous solutions to presence of nitrate ions. Presented at the 2010 Joint Annual Meeting of the American Society of Agronomy, the Crop Science Society of America, and the Soil Science Society of America. Oct. 31-Nov. 3, 2010, Long Beach, CA.
- Colaizzi, P. 2010. Hosted representatives from Cotton, Inc. and Budline Productions on tour of the Texas Panhandle to produce a documentary on cotton production in West Texas, and to assess water, irrigation, and renewable energy research, and to identify research gaps and funding needs for irrigated and dryland cotton production. The tour included visits with three local cotton producers and tour of cotton research and renewable energy at CPRL, July 29, 2010.
- Colaizzi, P. 2010. Field tour and meetings of the Calera Workshop in cooperation with Mexico, Texas Water Resources Institute, and University of Georgia and ARS-El Reno at Bushland on July 7-9, 2010.
- Colaizzi, P. Field tour and meetings for Australian producers, August 18, 2010.
- Colaizzi, P.D., Evett, S.R., Howell, T.A., R. L. Baumhardt. 2010. Crop production comparison with spray, LEPA, and subsurface drip irrigation in the Texas High Plains. In: Proceedings of the 5th Decennial National Irrigation Symposium, December 5-8, 2010, Phoenix, Arizona. Paper No: IRR10-9704.2010 CDROM.
- Dourte, D. R., D. Z. Haman, and Jeffrey G. Williamson- 2010. Crop Water requirements of Mature Southern Highbush Blueberries - *International Journal of Fruit Science* 10(3):235-248.
- Emerson, P., G. Beauchamp, R. Heyduck, J. Kallestad, M.K. O'Neill, R. Shuren, B. Stanton, and M.E. Swanson. 2010. Hybrid poplar suitability for regional deployment as a bio-fuel feedstock. Poster presentation at the International Poplar Symposium, Orvieto, Italy, September 20 - 25, 2010. <http://ocs.entecra.it/index.php/IPS/5/paper/view/263>.

- Gonzalez A. and M. K. Shukla. 2010. Coupled Transport of Nitrate and Chloride in Unsaturated porous Media. 2010 International annual meetings, ASA-CSSA-SSSA, Oct. 31-Nov. 4, 2010, Long Beach, CA.
- Gonzalez A. and M. K. Shukla. 2010. Transport of Nitrate and Chloride in Saturated Soil Columns. The 2010 New Mexico Water Research Symposium: Resource Interdependence, August 03, 2010, Macey Center, New Mexico Tech, Socorro, New Mexico.
- Hornbuckle, B., T. Rowlandson, A. Kruger, S. Yueh, E. Russell, A. Kaleita, S. Logsdon, and R. De Roo. 2010. How does dew affect L-band backscatter? Analysis of PALS data at the Iowa Validation Site and implications for SMAP. International Geoscience and Remote Sensing Symposium 2010, Honolulu HI.
- Lakso, A. N., V. Pagay, and A. Stroock. 2010. Development of an Embedded Microsensor for Tree and Vine Trunks to Continuously Monitor Stem Water Potentials. International Horticulture Congress, Portugal
- Lamm, F. R. 2010. Poster presentation of Corn management with SDI to save water resources at 2010 Central Plains Irrigation Conference, February 23-24, Kearney NE.
- Lamm, F. R. Software to determine optimum planned corn area and plant population for SDI was updated and released to the public, January, 2010 [http://www.oznet.ksu.edu/sdi/Software/COpt\\_SDI10.xls](http://www.oznet.ksu.edu/sdi/Software/COpt_SDI10.xls)
- Lamm, F. R. Discussion of SDI research with Bobby Bassi, Syngenta Chemical, August 2, 2010 at KSU-NWREC, Colby Kansas.
- Lamm, F. R. Discussion of SDI research with Syngenta staff, Greensboro, North Carolina, December 2, 2010.
- Lamm, F. R. Discussion of SDI technology with Farm Bureau Master's program, September 30, 2010 at KSU-NWREC, Colby Kansas.
- Lamm, F. R. Software to compare the economics of conversion to center pivot sprinkler irrigation or subsurface drip irrigation from furrow irrigation for corn production was updated and released to the public, January, 2010. [http://www.oznet.ksu.edu/sdi/Software/CP\\_SDI10.xls](http://www.oznet.ksu.edu/sdi/Software/CP_SDI10.xls)
- Lamm, F. R. and D. H. Rogers. 2010. Poster presentation of Minimal system requirements for SDI at 2010 Central Plains Irrigation Conference, February 23-24, Kearney NE.
- Lamm, F. R., A. A. Abou Kheira, and T. P. Trooien. 2010. Sunflower, soybean, and grain sorghum crop production as affected by dripline depth. *Applied Engr. in Agric.* 26(5):873-882.
- Lamm, F. R., D. H. Rogers, M. Alam, D. M. OBrien, and T. P. Trooien. 2010 Twenty-One Years of SDI Research in Kansas. In: Proc. Central Plains Irrigation Conference, Kearney, NE., Feb. 23-24, 2010. Available from CPIA, 760 N. Thompson, Colby, KS. pp. 73-96.
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- Lamm, F. R., P. D. Colaizzi, J. P. Bordovsky, T. P. Trooien, J. Enciso-Medina, D. O. Porter, D. H. Rogers, and D. M. OBrien. 2010. Can Subsurface Drip Irrigation (SDI) be a Competitive Irrigation System in the Great Plains Region for Commodity Crops? In: Proc. 5th National Decennial Irrigation Conf., ASABE and the Irrigation Association, Phoenix, Arizona, December 5-8. 15 pp.
- Lamm, F.R. 2010. Twenty-One Years of SDI Research in Kansas. Presentation at the California Irrigation Institute annual conference, February 1-2, Sacramento, California.
- Lesikar, Bruce. 2010. Urban Landscapes and In-Home Water Conservation. Rio Grande Basin Initiative Efficient Irrigation for Water Conservation in the Rio Grande Basin. Alpine, TX May 17-20, 2010.
- Lombard, K.A., M.K. O'Neill, R.F. Heyduck, B. Onken, A.L. Ulery, J.G. Mexal, and A. Unc. 2010. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. *Agroforestry Systems* 81:45-56. <http://www.springerlink.com/content/v73123244h1383h1/fulltext.pdf>.
- Lombard, Kevin, Mick O'Neill, John Mexal, April Ulery, Blake Onken, Greg Bettmann, and Robert Heyduck. 2010. Can soil plant analysis development values predict chlorophyll and total Fe in hybrid poplar? *Agroforestry Systems* 78:1-11. <http://www.springerlink.com/content/p166456227817151/fulltext.pdf>.
- Loper, S., A.L. Shober, C. Wiese, G.C. Denny, and C.D. Stanley. 2010. Organic soil amendment and tillage affect soil quality and plant performance in simulated residential landscapes. *HortScience* 45(10): 1522-1528.

- Marek, T and D Porter. 2010. Energy use and irrigation scheduling for efficient water use. Publication TR-393. Texas AgriLife Research and Extension Service. Texas A&M System. College Station, TX. (Last access December 14, 2010 at: <http://twri.tamu.edu/reports/2010/tr393.pdf>).
- Marek, T, D Porter, N Kenny, P Gowda, T Howell, and J Moorhead. 2011. Educational Enhancements to the Texas High Plains Evapotranspiration (ET) Network. Final Report, Contract No. 0903580956. Texas Water Development Board, Austin, TX. Publication AREC 2011-8. Available online at: [http://www.twdb.state.tx.us/RWPG/rpgm\\_rpts/0903580956\\_evapotranspiration.pdf](http://www.twdb.state.tx.us/RWPG/rpgm_rpts/0903580956_evapotranspiration.pdf). Accessed December 15, 2011.
- Marek, T, D Porter, P Gowda, T Howell, and J Moorhead. 2010. Assessment of Texas Evapotranspiration (ET) Networks. Final project report for Texas Water Development Board Contract No. 0903580904. Texas AgriLife Research Center at Amarillo.
- Marek, T, T Scherer, D Porter, D Rogers, J Henggeler, and T Howell. 2010. What Will it Take to Get Irrigators to Use Advisory Programs? Lessons Learned from the Past 10 Years and Beyond. ASABE Paper No. IRR10-9683. Proceedings of the 5th Decennial Irrigation Symposium, The Irrigation Association and American Society of Agricultural and Biological Engineers, Phoenix, AZ. December 4-8, 2010.
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- Rivera, Luis. 2010. Establishment of Forage legumes and forage grasses using sub-surface irrigation under the semiarid conditions of Southern Puerto Rico . Poster presented at the celebration of the Century Anniversary of Puerto Rico Agricultural Experiment Station. Juana Díaz Agricultural Research Station, University of Puerto Rico. May 10, Juana Díaz, Puerto Rico .
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- Rogers, D. 2010. Presentation to KSU ATM class on irrigation systems which included a review of SDI systems. October 18.
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- Schwankl, L. 2010. Drip Irrigation Systems for Winegrapes- 30 min, Presenter, UC Winegrape Short Course, 2/24/10, 200 Attendees.
- Schwankl, L. 2010. Maintaining Microirrigation Systems- 45 min, Presenter, Citrus Growers Meeting, Tulare, CA, 4/30/10, 50 Attendees.
- Schwankl, L. 2010. Maintenance and Chemigation of Drip Irrigation Systems - 1 hr, Presenter, Grape Growers Meeting, San Luis Obispo, CA, 5/18/10, 100 Attendees.
- Schwankl, L. 2010. Maintenance of Microirrigation Systems- 30 min, Presenter, Tree Crop Meeting, Lake County, CA, 2/17/10, 30 Attendees.
- Schwankl, L. 2010. Managing Your Drip System - 45 min, Invited Speaker, Tehama Co. walnut growers & consultants, Red Bluff, CA, 12/17/2010, 100 Attendees.
- Schwankl, L. 2010. Filters & Maintenance of Drip Irrigation- 20 min, Presenter, California Agronomy Society Conference, Tulare, CA, 2/4/10, 75 Attendees.
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- Shock, C.C., E.B.G. Feibert, L.D. Saunders, L.B. Jensen, K.S. Mohan, R. Sampangi, and H. Pappu. 2010. Iris Yellow Spot Virus Control Through Stress Reduction. Malheur County, Oregon and Idaho Onion Growers Annual Meeting. February 2, 2010. Ontario, OR.
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- Smeal, D., K. Lombard, M. O'Neill, and R. Arnold. 2010. Chile pepper production in Northwestern New Mexico as related to microirrigation. 20th International Pepper Conference. Las Cruces, NM September 12-14, 2010. Abstract pg. 31.
- Smeal, D., K.A. Lombard, M.K. O'Neill, and R.N. Arnold. 2010. Scheduling irrigations on drip-irrigated vegetable crops using climate-based coefficients and canopy measurements. August 2 – 5, 2010. Annual Conference of the American Society for Horticultural Science. Supplement to *HortScience* 45(8)216. Palm Desert, CA. [http://hortsci.ashspublications.org/content/vol45/issue8/ Abstract Number 216; page 264](http://hortsci.ashspublications.org/content/vol45/issue8/Abstract%20Number%20216)
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## **Publications and Presentations from 2012 annual W2128 Report**

Abbas, F., A. Fares, H. Valenzuela, and S. Fares. 2011. Carbon Dioxide Emissions from an Organically Amended Tropical Soil. *Journal of Sustainable Agriculture*: 36, 3-17.

AbdelGadir, A.H., J.P. Fulton, M. Dougherty, L.M. Curtis, E. Santen, C.H. Burmester, H.D. Harkins, and B.E. Norris. 2011. Subsurface Drip Irrigation Placement and Cotton Irrigation Water Requirement in the Tennessee Valley. *Crop Management*. August 2011, doi:10.1094/CM-2011-0819-01-RS

Allen, Samuel C., Michael K. O'Neill, Robert F. Heyduck, Kevin A. Lombard, Dan Smeal, and Richard N. Arnold. 2011. Growth performance of hybrid poplar in a semi-arid zone of the Colorado Plateau: a case study of clone OP-367. 11th Biennial Conference of Research on the Colorado Plateau. October 24-27, 2011. Flagstaff, AZ.

Beggs, R.A., D.J. Hills, G. Tchobanoglous, and J.W. Hopmans. 2011. Fate of nitrogen for subsurface drip irrigation of effluent from small wastewater systems. *Journal of Contaminant Hydrology* 126:19-28. doi:10.1016/j.jconhyd.2011.05.007

Bhattarai, N., Dougherty, M., Marzen, L., and L. Kalin. 2011. Validation of evaporation estimates from a modified surface energy balance algorithm for land (SEBAL) model in the southeastern US. *Remote Sensing Letters*, 3:6, 511-519.

Brown, P. 2011. Update on Nutrient Management of Almonds. Almond Board of California: Modesto CA.

Brown, P. 2011. CDFA-FREP Annual Conference. Management of N in Tree Crops. Paso Robles CA.

Brown, P. 2011. Sampling strategies for Nutrient Management in Tree Crops. Fluid Fertilizer Foundation Meeting. Stockton CA.

Brown, P. 2011. Stakeholder Meeting Paramount Farming: Bakersfield CA.

Centinari, M., S. Poni, D.S. Intrigliolo, D. Dragoni and A.N. Lakso. 2011. Cover crop evapotranspiration in a northeastern United States Concord (*Vitis labruscana*) vineyard. *Austral. J. Grape Wine Res.* 18:73-79, 2012.

Coates, R.W., P.K. Sahoo, P.K., L.J. Schwankl, and M.J. Delwiche. 2011. Fertigation techniques for use with multiple hydrozones in simultaneous operation. *Precision Agriculture* DOI 10.1007/s11119-011-9239-0. 16 pp.

Colaizzi, PD, SR Evett, and TA Howell. 2011. Corn production with spray, LEPA, and SDI. In *Proc. 23rd Annual Central Plains Irrigation Conference*, Burlington, CO., February 22-23, 2011. Available from CPIA, 760 N. Thompson, Colby, Kansas.

- Deb S, MK Shukla, P Sharma, and J Mexal. 2011. Patterns of Soil Water Depletion In Irrigated Pecan Orchards In the Lower Rio Grande Valley of Southern New Mexico. International Annual Meeting of Soil Science Society of America, San Antonio, Texas.
- Deb S. and M.K. Shukla. 2011. An overview of some hydrological watershed models. In: M.K. Shukla (Ed.) Soil Hydrology, Land Use and Agriculture: Measurement and modeling. CAB International, Wallingford, UK. 75-116
- Deb SK, MK Shukla, P Sharma, and JG Mexal. 2011. Patterns of soil water depletion in irrigated mature pecans of arid southern New Mexico. Irrigation Science. DOI: 10.1007/s00271-011-0293-1.
- Discussion of agricultural research and SDI technology with Farm Bureau Master's program, October 6, 2011 at KSU-NWREC, Colby Kansas.
- Dragoni, D and AN Lakso. 2011. An apple-specific ET model. Acta Hort. 903:1175-1180.
- Enciso-Medina, J., W. L. Multer, and F. R. Lamm. 2011. Management, maintenance, and water quality effects on the long-term performance of subsurface drip irrigation systems. Applied Engr. in Agric. 27(6):969-978.
- Ha, W, PH. Gowda, T Oommen, TH Marek, DO Porter, and TA Howell. 2011. Spatial interpolation of daily reference evapotranspiration in the Texas High Plains. World Environmental and Water Resources Congress 2011. Bearing Knowledge for Sustainability Proceedings of the 2011 World Environmental and Water Resources Congress, May 22-26, 2011, Palm Springs, CA, pp 2796-2804.
- Harbuck, T.L., J. P. Fulton, M. Dougherty, S. T. Taylor, D.J. Eakes, and J.L. Sibley. 2011. In-Field Application Uniformity Evaluation of Pressure-Compensating Subsurface-Drip Irrigation Products. J. Applied Engineering in Agriculture 27(1): 43-50.
- He, J., Dougherty, M., Shaw, J., Fulton, J., and F. Arriaga. 2011. Hydraulic management of a soil moisture controlled SDI wastewater dispersal system in an Alabama Black Belt soil. J. Environmental Management, doi: 10.1016/j.jenvman.2011.05.009.
- Lamm, F R and AA Aboukheira. 2011. Effect of early season water stress on corn in northwest Kansas. ASABE paper no. 1111338. Available from ASABE, St. Joseph, MI. 11 pp.
- Lamm, F. R. 2011. Poster presentation of Corn management with SDI to save water resources at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R. 2011. Oral powerpoint presentation of Twenty-Two Years of Progress with SDI in Kansas at Sino-US Workshop on Microirrigation, Beijing China, April 23, 2011
- Lamm, F. R. 2011. Oral powerpoint presentation of Unique Challenges with Subsurface Drip Irrigation at Sino-US Workshop on Microirrigation, Beijing China, April 23, 2011
- Lamm, F. R. 2011. Oral powerpoint presentation of Some Design and Management Thoughts for SDI Systems to Inner Mongolia Jin Tu Di Water-Saving Engineering Equipment Company near Wengniute, Chifeng, China, April 26, 2011
- Lamm, F. R. 2011. Tour of SDI and Lateral-Move sprinkler facilities and area sunflower producer for 5 individuals from Argentina, July 25-26, 2011
- Lamm, F. R. 2011. Tour of SDI facilities for KSU administrative staff, Geneva Jahnke, Terri Fayle, Doug Elcock and Bob Gillen, July 19, 2011.
- Lamm, F. R. and D. H. Rogers. 2011. Poster presentation of How can I use records of pressure and flow measurements to diagnose SDI system problems? at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R. and D. H. Rogers. 2011. Poster presentation of Minimal system requirements for SDI at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R. and D. H. Rogers. 2011. Poster presentation of Steps to a successful SDI system at 2011 Central Plains Irrigation Conference, February 22-23, Burlington, Colorado.
- Lamm, F. R., Approximately 15 hours of seminars/teaching to MS and PhD level engineering students at China Agricultural University, Beijing, China, April 16-20, 2011. Topics were microirrigation, sprinkler irrigation, water management, experimental design, creative thinking, and philosophies of technical writing in US journals.

- Lamm, FR, DH Rogers, M Alam, DM O'Brien, and TP Trooien. 2011. Twenty-two years of SDI research in Kansas. In: Proc. 23rd annual Central Plains Irrigation Conference, Burlington, Colorado, Feb. 22-23, 2011. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 68-92.
- Lamm, FR, DM O'Brien, DH Rogers, and TJ Dumler. 2011. Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet - 2011. In: Proc. 23rd annual Central Plains Irrigation Conference, Burlington, Colorado, Feb. 22-23, 2011. Available from CPIA, 760 N.Thompson, Colby, KS. pp. 93-103.
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- Lombard, K A, MK O'Neill, AL Ulery, J Mexal, B Onken, S Forster-Cox, TW Sammis. 2011. Fly ash and composted biosolids as a source of Fe for hybrid poplar: a greenhouse study. *Applied and Environmental Soil Science*, 2011, 11p.
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- Schwankl, L. 2011. Measuring Flow in Drip Irrigation Systems - 45 min., Invited Speaker, Sonoma Co. winegrape growers & consultants, Sonoma, CA, 2/23/11, 200 Attendees.
- Schwankl, L. 2011. Microirrigation Systems - Water and Energy Efficiency- 45 min., Invited Speaker, Growers, Yolo County, 3/3/11, 50 Attendees.
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- Brown, P. 2012. Foliar fertilization of tree crops. ASHS. Miami FL.
- Brown, P. 2012. Management of N in Almonds. CDFR-FREP and WPHA Annual Workshop. Modesto CA. 400 atten. Expert Panel Member presentation and discussion.
- Brown, P. 2012. Managing large scale collaborative research projects. Pomology Extension Continuing Conference. Davis CA.
- Brown, P. 2012. Nutrient Budget and development of new sampling strategies for N management. Australian Almond Industry Annual Meeting, Nuriootpa, SA.

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- Brown, P. 2012. Nutrient Management in Pistachio. Pistachio Day. Visalia CA.
- Brown, P. 2012. Plant Nutrition in a Changing Environment. German Soc. for Plant Nutrition.
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- Colaizzi, P.D., Evett, S.R., Howell, T.A. 2012. Subsurface drip, LEPA, and spray irrigation. In *Wheat and Water Issues, Proc. USDA-ARS and Texas A&M Wheat Field Day, Bushland, TX, May 24, 2012*, 37-40.
- Deb S. and M. K. Shukla. 2012. Variability of hydraulic conductivity due to multiple factors. *American Journal of Environmental Science*. 8(5) 489-502
- Deb S.K., M.K. Shukla and J. Mexal. 2012. A peak at the other half of your orchard: The roots. 46th Annual Western Pecan Growers Association Conference. March 4-6, 2012 Hotel Encanto de Las Cruces, Las Cruces, NM
- Deb S.K., M.K. Shukla and J. Mexal. 2012. Evaluation of compensated root water uptake pattern of greenhouse drip irrigated chile. 2012 Irrigation Show & Education Conference Nov. 2-6, Orlando, Florida.
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- Foley, K.M., C.C. Shock, O.S. Norberg, and T.K. Welch. 2012. Making strip tillage work for you: a growers guide, Oregon State University, Department of Crop and Soil Science Ext/CrS 140.
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- Lamm, F. R. 2012. Poster presentation of SDI Pros and Cons at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. 2012. Poster presentation of The Ogallala and the potential for SDI at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. 2012. Poster presentation of What is SDI? at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.
- Lamm, F. R. 2012. Video poster presentation of Managing the challenges of subsurface drip irrigation in the Great Plains region at Central Plains Irrigation Conference, Colby, Kansas, February, 21-22, 2012.

- Lamm, F. R. 2012. Tour of SDI facilities and discussion of SDI research for David Mack and Ami Gips, Netafim Irrigation, February 23, 2012.
- Lamm, F. R. 2012. Oral powerpoint presentation of The potential for conserving water with SDI for corn production at the Governor's Water Conference, Manhattan, Kansas, October 30-31, 2012.
- Lamm, F. R. 2012. Tour of SDI facilities and discussion for Dow group (Al Green and Cecelia Topher, August 14, 2012.
- Lamm, F. R. 2012. Tour of SDI facilities and discussion for Monsanto TDR group, September 19, 2012.
- Lamm, F. R. 2012. Tour of station and SDI facilities and discussion for Iryne McDonald and agronomy class from Colby Community College, October 3, 2012
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- Porter, D., O. 2012. Irrigation Workshop. *Dairy Outreach Program Area Workshop Series. Stephenville, TX. 05/31/12.*
- Porter, D., O. 2012. Managing Water in 2012. *West Plains Cotton Conference. Levelland, TX. 03/27/12.*
- Porter, D., O. 2012. Maximizing Water from the Pump to the Plant. *Swisher County Spring Ag Conference. Tulia, TX. 04/04/12.*
- Porter, D., O. 2012. Optimizing Water Use Efficiency. *Lubbock County Producers Update. Lubbock, TX. 04/03/12.*
- Porter, D., O. 2012. Small Acreage Landowner Irrigation Workshop. *Stephenville, TX. 06/01/12.*
- Porter, D., Prasanna Gowda, Thomas Marek, Terry Howell, Jerry Moorhead, and Suat Irmak. 2012. Sensitivity of Grass- and Alfalfa-Reference Evapotranspiration to Weather Station Sensor Accuracy. *Applied Engineering in Agriculture. 28(4):543-549.*
- Porter, Dana. 2012. "Efficient Irrigation in High Plains Production Systems." Invited presentation at the 12th Annual Commodity Symposium. *Amarillo, TX. 11/28/12.*
- Porter, Dana. 2012. *Lamar County Irrigation Symposium. (Irrigation workshop). Paris, TX, 12/04/12.*
- Prestwich, C. 2012. Presentation of Drip Design and Maintenance to USDA-NRCS and Extension personnel, *Conway, Arkansas, May 22-23, 2012.*

- Prestwich, C. 2012. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, Bangor, Maine, March 20-22, 2012.
- Prestwich, C. 2012. Presentation of Drip Design and Maintenance to USDA-NRCS personnel, Boise, Idaho, April 24-26, 2012.
- Prestwich, C. 2012. Presentation of NRCS Drip Design Tool as Irrigation Association Seminar, Orlando Florida, Nov. 4, 2012.
- Rivera, Luis. 2012 Conference: Nutrients and irrigation management for vegetables production, October 17, in coordination with Land Authority at Guánica, Puerto Rico.
- Rivera, Luis. 2012 Field Day - Subsurface irrigation experiments at the Agricultural Experiment Station of Juana Díaz. Open House – Celebration of the Century Anniversary of Agricultural Experiment Station. Juana Diaz Research Station, University of Puerto Rico . May 10, 2010.
- Román-Paoli, E. 2012. Efecto de diferentes métodos de fertilización y manejo de agua en el rendimiento del cultivo de piña y limones. Fruits Commodity Annual Meeting, Corozal Substation, Agricultural Experiment Station. February 3, 2012, Corozal PR.
- Román-Paoli, E. 2012. Riego, In Lugo, W. (ED) Conjunto tecnológico para la producción de calabaza. Agricultural Experiment Station, University of Puerto Rico. Publication 155: P25-38. Published in hard copy and online (<http://openpublic.eea.uprm.edu/document/conjunto-tecnológico-para-la-producción-de-calabaza-2012-p-155>).
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- Sammis, T.W., M.K. O'Neill, and J. Wang. 2013 (in press). Estimating economic value of research projects. Research Bulletin, Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University, Las Cruces, NM.
- Sammis,T., P. Sharma, M.K. Shukla, J. Wang, and D. Miller 2012. A water-balance drip-irrigation scheduling model. Agricultural Water Management 113:30–37
- Sampangi, R., K. Mohan, and C.C. Shock. 2012. Abiotic disorders of native plants. Annual meeting of the Great Basin Native Plant Selection and Increase Project. Salt Lake City, Utah, 22 February.
- Sanden B., A. Fulton, D. Doll, K. Shackel. 2012. Defining a Central Valley Almond ET/Yield Production Function for Almonds. Annual Research Conference of the Almond Board of California.
- Sanden, B, P.H. Brown, R. Snyder. 2012. New insights on water management in almonds. Regulatory Issues Impacting California Agriculture Visalia, California 7-8 Feb, 2012 Proceedings: Amer. Soc. Agron. Calif. Chap. pp. 88-93. Univ. Calif. Davis, <http://calasa.ucdavis.edu>
- Santos, B.M., C.D. Stanley, A.J. Whidden, T.P. Salame-Donoso, V.M. Whitaker, I.M. Hernandez-Ochoa, P. Huang, and E.A. Torres-Quezada. 2012. Improved sustainability through novel water management strategies for strawberry transplant establishment in Florida, United States. Agronomy 2:312-320.
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- Schellenberg D.L., M.M. Alsina, S. Muhammad, C.M. Stockert, M.W. Wolff, B.L. Sanden, P.H. Brown and D.R. Smart. 2012. Yield-scaled global warming potential from N<sub>2</sub>O emissions and CH<sub>4</sub> oxidation for almond irrigated with N fertilizers on arid land. Agriculture, Ecosystems and Environment 155: 7-15.
- Schwankl, L. 2012. Subsurface Drip Irrigation in Almonds - 40 min., Invited Speaker, S. Sacramento Valley almond growers, Colusa Co., CA, 2/2/12, 100 Attendees.
- Schwankl, L. 2012. Drip Irrigation of Processing Tomatoes - 45 min., Invited Speaker, Growers, Stockton, CA, 3/9/12, 30 Attendees.

- Schwankl, L. 2012. Subsurface Drip Irrigation in Blackeye Production - 30 min., Invited Speaker, Growers & consultants at UC Blackeye Field Day, UC Kearney Ag Center, 8/1/12, 15 Attendees.
- Schwankl, L., and T. Prichard. 2012. Chapter 11 - Irrigation Systems. UC ANR Prune Production Manual, pp. 99-109.
- Shackel K, J. Edstrom, A. Fulton, Br. Lampinen, L. Schwankl, A. Olivos, W. Stewart, S. Cutter, S. Metcalf, H. Munoz, G. Spinelli. 2012. Drought Survival Strategies for Established Almond Orchards on Shallow Soil. Annual Research Conference of the Almond Board of California.
- Shackel K., B. Sanden, B. Lampinen, S. Metcalf, G. Spinelli, P. Brown, S. SaaSilva, S. Muhammad, W. Stewart, J. Edstrom, R. Duncan, R. Rosecrance, B. Beede, F. Niederholzer, A. Olivos. 2012. Fertigation: Interaction of Water Management and Nutrient Management in Almond. Annual Research Conference of the Almond Board of California.
- Shackel K., D. Doll, C. Reisser, E. Russell. 2012. Plant-Based Measures of Water Stress for Irrigation Management in Multiple Almond Varieties. Annual Research Conference of the Almond Board of California.
- Shackel, K., T. Prichard, and L. Schwankl. 2012. Chapter 12 - Irrigation Scheduling and Tree Stress. UC ANR Prune Production Manual ANR Publication 3507, pp. 111-126.
- Shannahan, J., M. Rupert, J. Schussler, J. Groetke, F. Lamm, M. Dowgert, J. Vikupitz and J. Hunt. 2012. Subsurface drip irrigation for corn production and research. *Crop Insights* 22(11):1-4.
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- Shock, C.C. 2012. Cooperative progress on cleaning up groundwater through BMPs. Malheur Country Historical Society, Ontario, OR, 9 February.
- Shock, C.C. 2012. Native plant irrigation for seed production. Native Plant Seed Production Field Day. OSU Malheur Experiment Station. 16 May 2012. Ontario, OR. In Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2010, Department of Crop and Soil
- Shock, C.C. 2012. Onion production tour. Summer Farm Festival, OSU Malheur Experiment Station. 11 July 2012. Ontario, OR. Shock, C.C. 2012. Wildflower and native plant seed production. Summer Farm Festival, OSU Malheur Experiment Station. 11 July 2012. Ontario, OR.
- Shock, C.C. 2012. OSUs program in Malheur County. Ontario Kiwanis, Ontario, OR, 11 April. Also presented to the Ontario Chamber of Commerce, Ontario, OR, 30 April.
- Shock, C.C. 2012. Progress on cleaning up groundwater through BMPs. Idaho/Malheur County, Oregon Onion Growers 52nd Annual Meeting. 07 February 2012. Ontario, OR.
- Shock, C.C. 2012. Technology for youth. Summer Farm Festival, OSU Malheur Experiment Station. 11 July 2012. Ontario, OR.
- Shock, C.C. 2012. Water quality and farm practices. Summer Farm Festival, OSU Malheur Experiment Station. 11 July 2012. Ontario, OR.
- Shock, C.C. and K.A. Foley. 2012. Strip till for soil protection and profitability. 3rd Annual Sustainable Agriculture Symposium. 16 February 2012. Ontario, OR.
- Shock, C.C., and C.B. Shock. 2012. Research, extension, and good farming practices improve water quality and productivity. *Journal of Integrative Agriculture* 11(1):14-30.

- Shock, C.C., E.B.G. Feibert, and L.D. Saunders. 2012. Response of four onion varieties to plant population and irrigation system. p 40-65 In Shock C.C. (Ed.) Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2011, Department of Crop and Soil Science Ext/CrS 141.
- Shock, C.C., E.B.G. Feibert, and M. Keller. 2012. Evaluation of AgZyme® in onion production. p 66-67 In Shock C.C. (Ed.) Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2011, Department of Crop and Soil Science Ext/CrS 141.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, N. Shaw and R.S. Sampangi. 2012. Irrigation requirements for native wildflower seed production. p 139-160 In Shock C.C. (Ed.) Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2011, Department of Crop and Soil Science Ext/CrS 141.
- Shock, C.C., E.B.G. Feibert, L.D. Saunders, N. Shaw and R.S. Sampangi. 2012. Irrigation requirements for novel native wildflower seed production. p 161-170 In Shock C.C. (Ed.) Oregon State University Agricultural Experiment Station, Malheur Experiment Station Annual Report 2011, Department of Crop and Soil Science Ext/CrS 141.
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- Shock, C.C., E.B.G. Feibert, L.D. Saunders. 2012. Onion bulb size response to plant population for four varieties under three irrigation systems. Annual Conference of the American Society for Horticultural Science, Miami, FL, August.
- Shock, M.P., C.C. Shock, E.B.G. Feibert, C.A. Parris, L.D. Saunders, R.K. Sampangi, N.L. Shaw, and T.K. Welch. 2012. Fernleaf biscuitroot, *Lomatium dissectum* (LODI), Sustainable Agriculture Techniques, Oregon State University, Department of Crop and Soil Science Ext/CrS 138. 6 p.
- Shock, M.P., C.C. Shock, E.B.G. Feibert, N.L. Shaw, L.D. Saunders, and R.K. Sampangi. 2012. Cultivation and irrigation of fernleaf biscuitroot (*Lomatium dissectum*) for Seed Production. *HortScience* 47(10):1525-1528.
- Skaggs, K.E. and Suat Irmak. 2012. Analysis of microclimate data measured over grass and soybean canopy and their impacts on Penman-Monteith grass and alfalfa-reference evapotranspiration. *J. Irrigation and Drainage Engineering*, ASCE 138(2): 120-134.
- Smeal, D. 2012. Improving irrigation efficiency. New Mexico Organic Farming Conference. February 17, 2012. Albuquerque, NM.
- Smeal, D. 2012. Performance of drip irrigation emitters at sub-standard pressure. Western SARE Conference: Water: The Foundation of Agricultural Sustainability. August 7, 2012. Santa Fe, NM.
- Smeal, D. and K. Hooper. 2012. Performance of drip irrigation emitters at substandard pressure. Western Sustainable Agricultural and Research Workshop. Santa Fe, NM. August 7.
- Sorensen, R.B., Lamb, M.C., Nuti, R.C., and Butts, C.L. 2012. Corn yield and economic return with nitrogen applied through drip tubing. Online. *Crop Management* doi:10.1094/CM-2012-0127-01-RS.
- Toor, G.S., L. Han and C.D. Stanley. 2012. Temporal variability in water quality parameters—a case study of drinking water reservoir in Florida, USA. *Environmental Monitoring and Assessment*. doi:10.1007/s10661-012-2870-z
- Torres, E.A. and B.M. Santos. 2012. Effects of soil surfactant Irrigaid Gold on water management for tomato production in Florida spodosols. *Proceedings of the Florida State Horticultural Society* 125:(in press).
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- Van Arkel, Z. and A. Kaleita. 2012. Interpolating soil moisture patterns with inverse distance weighting based on physical characteristics. Poster presented at the 2012 Annual International Meeting of the ASABE, Dallas, TX.
- Wallender, W.W., K.K. Tanji, B. Clark, R.W. Hill, E.C. Stegman, J.R. Gilley, J.M. Lord, and R.R. Robinson. 2012. Chapter 27. Conceptual Water Flow and Salt Transport for Flux-Limited and Ponded Infiltration. *ASCE Manuals and Reports on Engineering Practice No. 71 Agricultural Salinity Assessment and Management*, 2nd edition. Eds. W.W. Wallender and K.K. Tanji. American Society of Civil Engineers, Reston Virginia, pp. 825-851.
- Wilbourn, Brant Alan. 2012. Economic Analysis of Alternative Irrigation Technologies: Lower Rio Grande Valley. Submitted as partial fulfillment of the requirements for the degree of Master of Science in Agricultural Economics. Texas A&M

University. December 2012. (Committee Co-Chairs: M. Edward Rister and Ronald D. Lacewell; Members: James R. Gilley and John Robinson.)

Zarate-Valdez, J.L., M.L. Whiting, B.D. Lampinen, S. Metcalf, S.L. Ustin, and P.H. Brown. 2012. Leaf area and Landsat vegetation indexes of fruit crops in California. *Computers and Electronics in Agriculture* (in press)