

Donald M. Vietor

Professor, Agronomy

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Education:

B.S., Agronomy, University of Minnesota, 1967

M.S. Plant Physiology, University of Minnesota, 1969

Ph.D., Crop Science, Cornell University, 1975

Experience:

9/1992 to present: Professor, Agronomy, Soil and Crop Sciences Department, Texas A&M University, College Station, TX

9/1982 – 8/1992: Associate Professor, Agronomy, Soil and Crop Sciences Department, Texas A&M University, College Station, TX

9/1976 – 8/1982: Assistant Professor, Agronomy, Soil and Crop Sciences Department, Texas A&M University, College Station, TX

9/1974 – 8/1976 Assistant Professor, Agronomy, Plant and Soil Science Department, University of Massachusetts, Amherst, MA

Current Research Support:

- A Sustainable Pyrolysis System for Producing Bio-Crude Oil and Recyclable Byproducts. 2008-2011. DOE-Biomass Program., \$890,862. CoPI w/ S. Capareda, S. Fernando, T. Provin, and C. Munster.
- Preparing Underrepresented Scholars for Challenges in Bioenergy Systems Engineering and Sustainability – A Research and Leadership PhD Program. 2008-2011. USDA CSREES National Needs Fellowship Program. \$234,000. CoPI w/ S. Capareda, S. Fernando, C. Munster, T. Provin, and M. Pena.
- Cropping Systems for Sustainable Nutrient Management and Dairy Production. USDA SARE of Southern Region. \$10,000. 2007-2008. CoPI w/ R.W. Schnell.
- Development of Switchgrass and Rice Cultivars for Bioenergy Feedstock. 2008-2010. Texas AgriLife Research Bioenergy Program. \$125,000. CoPI w/ R. Tabien, W. Park, S. Omar, L. Tarpley, and G. Eizenga.
- Designer sorghums: Development of high yielding sorghum cultivars with modified endosperm matrices for optimized low energy input ethanol production and high nutrition feed. Sungrant Initiative, South Central Region. \$281,250. Associate with Dirk Hays, D. Wang, G. Peterson, L. Rooney, and W. Rooney
- Managing to limit runoff and drainage losses of nutrients during cycling of composted biosolids through turfgrass sod. The Lawn Institute, \$5000. PI w/ C. Munster, R. White, and T. Provin.

Graduate Student Theses.

- Schnell, R.W. 2007. Management of Nitrogen and Composted Biosolids to Cycle Nutrients and Enhance Environmental Quality During Production and After Transplanting Turfgrass Sod. M.S. Thesis.
- Hansen, N.E. 2005. Developing and Evaluating Best Management Practices for Cycling of Composted Dairy Manure and Municipal Biosolids in Texas. PhD Dissertation.
- McDonald, B.T. 2005. The Fate of Manure Phosphorus during Production and Harvest of Turfgrass Sod. M.S. Thesis.
- Kerns, J.P. 2004. Response of N and P Leaching and Soil Properties to Applications of Biosolids During Turfgrass Establishment. MS Thesis.
- Hay, J. Francis. 2003. Phosphorous and Nitrogen Leaching Losses During Turf Establishment. M.S. Thesis.

Awards and Leadership:

- Fellow, American Society of Agronomy, 1997
- Fellow, Crop Sciences Society of America, 2001
- American Society of Agronomic Resident Education award, 2001
- Board of Directors, American Society of Agronomy and Crop Science Society of America, 1999-2002
- Associate Editor, *Crop Science Journal*, Crop Science Society of America, 1991-1997
- Chair, Crop Physiology and Metabolism Division (Div. C-2), Crop Science Society of America, 1996
- National advisor, Student Activities Subdivision (A-1a), American Society of Agronomy, 1984-1985.

Publications, 2003 - 2008:

- Dai, X., D.M. Vietor, T.W. Boutton, F.M. Hons, T.L. Provin, R.H. White, and C.L. Munster. 2009. Effect of composted biosolids on soil organic carbon storage during establishment of turfgrass sod. *HortScience* 44(2): (In press).
- Richards, C.E., C.L. Munster, D.M. Vietor, J.G. Arnold, and R. White. 2008. Assessment of water quality in a suburban watershed due to a turfgrass sod best management practice. *J. of Environmental Management. Journal of Environmental Management* 86:229-245.
- Tarpley, Lee, and D.M. Vietor. 2007. Compartmentation of sucrose during radial transfer in mature sorghum culm. *BMC Plant Biology* 7:33.
- Vietor, D.M., R.W. Schnell, R.H. White, T.W. Boutton, F.M. Hons, T.L. Provin, C.L. Munster, and X. Dai. 2007. Composted biosolids conserve water, nutrients, and carbon and add value to turfgrass sod. *Turf News*, May/June: 58-66.
- Hansen, N.E., D.M. Vietor, C.L. Munster, R.H. White, and T.L. Provin. 2007. Runoff water quality from turfgrass receiving volume-based composted municipal biosolids applications. *J. Environ. Qual.* 36: 1013-1020.
- Hay, F.J., D.M. Vietor, C.L. Munster, R.H. White, and T.L. Provin. 2007. Leaching loss of NO₃-N and dissolved P from manure and fertilizer during turfgrass establishment. *Plant Soil* 296:1-17.
- Stewart, G.R., C.L. Munster, D.M. Vietor, J.G. Arnold, AMS McFarland, R. White, and T. Provin. 2006. Simulating Water Quality Improvements in the Upper North Bosque River Watershed Due to Phosphorous Export through Turfgrass Sod. *Transactions of ASABE* 49:357-366.
- Jordan, J.E., Richard H. White, James C. Thomas, Trent C. Hale and D.M. Vietor. 2005. Irrigation frequency effects on turgor pressure of creeping bentgrass and soil air composition. *Hort Science* 40(1): 232-236.
- Vietor, D.M., T.L. Provin, R.H. White, and C.L. Munster. 2004. Runoff losses of phosphorus and nitrogen imported in sod or composted manure for turf establishment. *J. of Environ. Qual.* 33: 358-366.
- Hanzlik, J.E., C.L. Munster, A. McFarland, D.M. Vietor, and R.H. White. 2004. GIS analysis to identify turfgrass sod production sites for phosphorus removal. *Transactions of ASAE* 47: 453-461.
- Munster, C.L., J.E. Hanzlik, D.M. Vietor, R.H. White, and A. McFarland. 2004. Assessment of manure phosphorus export through turfgrass sod production in Erath County, Texas. *Journal of Environmental Management.* 73: 111-116..
- Johnson, A.F., D.M. Vietor, F.M. Rouquette, Jr., and V.A. Haby. 2004. Fate of Phosphorus Applied in Dairy Wastewater and Poultry Litter on Grassland. *J. of Environ. Qual.* 33:735-739.