

Michael J. Mulvaney

<http://www.auburn.edu/~mulvamj>

COUNTRY OF CITIZENSHIP: USA

EDUCATION

- 2004-present **Ph.D. Candidate, Agronomy and Soils, Auburn University**
- **Expected graduation: Dec. 2009**
 - **GPA: 3.94/4.0**
 - Gamma Sigma Delta Honor Society of Agriculture member
 - **Research areas:**
 - No-till systems for sustainable vegetable production
 - Carbon and nitrogen mineralization under conservation tillage
 - Ammonia emissions from cattle operations
 - Alley cropping for soil conservation
- 1991-1995 **B.Sc. Chemistry, University of Connecticut, Cum Laude, Honors Thesis**

PEER-REVIEWED PUBLICATIONS

- Michael J. Mulvaney, K.A. Cummins, C.W. Wood, B.H. Wood, & P.J. Tyler. 2008. Ammonia emissions from field-simulated cattle defecation and urination. *Journal Environmental Quality* 37(6): 2022-2027.
- S.A. Pratt, M.F. Goble, M.J. Mulvaney & P.G.M. Wuts. 2000. Dialkylhydrazides for directed orthometalations. *Tetrahedron Letters* 41:3559.

APPROVED GRANTS

- **\$2,529**, International Scholars Program, "Professional Collaboration between Auburn University and the Pan-American Agricultural School", Honduras, 9/08
- **\$1,149,000**, Transportation Enhancement Program, "Wire Road Bicycle Facilities" 11/07
- **\$10,000**, SARE (Sustainable Agriculture Research & Education) Graduate Student Grant, "Organic mulches and high residue no-till for collard production in Alabama" 8/05
- **\$3,500**, Peace Corps Agricultural Extension Partnership Grant, "Community greenhouses and rural water systems" 9/00

EXPERIENCE

- 2009-present **Adjunct Professor, Dept. of Social Work, Tuskegee University**
- 2004-present **Graduate Research Assistant, Dept. of Agronomy & Soils, Auburn University**
- 2007-present **Community Garden Coordinator, East Alabama Food Bank, Auburn, AL**
- Vegetable production using commercial practices
 - Train interns in coordination with Tuskegee University, Dept. of Social Work
- 2006-2009 **Computer Room Supervisor, Dept. of Agronomy & Soils, Auburn University**
- 2003-2004 **Horticultural Operations Foreman, Thomas J. Crummy Landscaping, Co. Sligo, Ireland**
- 2000-2002 **Agricultural Extension Volunteer, U.S. Peace Corps, Bolivia**
- Managed & implemented agricultural projects in rural Quechua villages
 - Wrote grants, budgets & progress reports
 - Designed and implemented water systems, greenhouses & latrines
 - Large animal vaccination program; Vet course completed 8/00
 - Beekeeping project coordinator
- 1999 **Medicinal Chemistry Intern, Pharmacia Upjohn, Kalamazoo, MI**
- Total synthesis of Taxol

1997-1998 **Work, study & travel in S. Pacific, S.E. Asia**

1995-1997 **Associate Research Scientist**, Bayer Pharmaceuticals, West Haven, CT

- Synthesized, purified and characterized novel molecular targets for cancer, Alzheimer's & osteoarthritis programs

CONFERENCE PRESENTATIONS

- Mulvaney, M.J., C.W. Wood, and B.H. Wood. 2009. Conservation tillage effects on carbon, nitrogen and mass loss from organic residues. ASA-CSSA-SSSA International Annual Meetings, Pittsburgh, PA. Nov. 1-5, 2009.
- "Food Insecurity and the Auburn Community Garden" Seminar Series on Hunger Research and Intervention. Dept. of Nutrition and Food Science, Auburn University, Auburn, AL. Oct. 14, 2009.
- Mulvaney, M.J., C.W. Wood, and B.H. Wood. 2009. Persistence and nutrient release from organic mulches and cover crops. 106th Southern Assoc. of Agricultural Scientists, Atlanta, GA. Feb. 1-3, 2009.
- "Food Security Issues Facing the Rural South" Panel presentation at the Professional Agricultural Workers Conference. Committee on the Role of Faith Based Organization in Rural Community Development, Tuskegee University, Tuskegee, AL. Dec. 8, 2008.
- Mulvaney, M.J., C.W. Wood, B.H. Wood, K.S. Balkcom, J. Kemble, and D. Shannon. 2008. High biomass cover crops and organic mulch effects on soil moisture and weed distribution during collard production. ASA-CSSA-SSSA Joint National Conference, Houston, TX. Oct. 5-9, 2008.
- Mulvaney, M.J., C.W. Wood, and B. Wood. 2008. Nutrient release rates from organic mulches and cover crops. Proc. 8th Annual Conservation Production Systems and Training Conference, Tifton, GA. July 29-31, 2008.
- Mulvaney, M.J., C.W. Wood, K.A. Cummins, B.H. Wood and P.J. Tyler. 2008. Ammonia emissions from grazing cattle. 18th GSC Research Forum, Auburn, AL. Mar. 11-12, 2008.
- Mulvaney, M.J., K.A. Cummins, C.W. Wood, B.H. Wood and P.J. Tyler. 2008. Ammonia volatilization from field-simulated cattle defecation and urination. 105th Southern Assoc. of Agricultural Scientists, Dallas, TX. Feb. 2-5, 2008.
- Mulvaney, M.J., C.W. Wood, K.S. Balkcom, B. Meso, and B. Wood. 2007. Effects of tillage, location and variety on nitrogen release from peanut residue. 17th GSC Research Forum, Auburn, AL. Mar. 7-8, 2007.
- Mulvaney, M.J., K.S. Balkcom, C.W. Wood, B. Meso, and B. Wood. 2007. Effects of nitrogen, tillage and variety on nitrogen release from peanut residue under field conditions. Proc. 104th Southern Association of Agricultural Scientists, Mobile, AL. Feb. 3-6, 2007.
- Mulvaney, M.J., C.W. Wood, K.S. Balkcom, and B. Meso. 2006. Nitrogen release from peanut residue. In R.C. Schwartz, R.L. Baumhardt, and J.M. Bell (eds.) Proc. 28th Southern Conservation Systems Conf., Amarillo, Texas. June 26-28, 2006, USDA-ARS Conservation and Production Research Laboratory Report No. 06-1, Bushland, TX

CONSULTING

Agricultural Innovations, Inc. April 2009. Developed soil water and carbon inventories.
Agricultural Innovations, Inc. May 2009. Strategies for maximizing land use based on soils.
Agricultural Innovations, Inc. July 2009. Sludge application on agricultural land.

RECENT AWARDS

- **First Place**, Graduate Oral Competition, Soils Division. Southern Assoc. of Agricultural Scientists. Atlanta, GA, Feb. 2, 2009
- **A. L. Smith Outstanding Graduate Student Award**, Ph.D. candidate category, Dept. of Agronomy & Soils. Auburn University, AL. Jan. 16, 2009
- **Soil Science Society of America Graduate Student Award**, National competition, Soil & Water Management & Conservation Division. Houston, TX, Oct. 6, 2008
- **First Place**, Graduate Oral Competition, Soils Division. Southern Assoc. of Agricultural Scientists. Dallas, TX, Feb. 5, 2008

- **First Place**, Graduate Oral Competition, Soils Division. ASA, Southern Branch. Mobile, AL, Feb. 6, 2007

PUBLISHED INTERVIEWS

- Agroinnovations. Dec. 16, 2008. *No Till Agriculture with Mike Mulvaney*. Podcast [online]. [Accessed 29.01.2009]. Available from World Wide Web: http://agroinnovations.com/index.php/en_us/multimedia/blogs/podcast/2008/12/no-till-agriculture-with-mike-mulvaney/
- Agroinnovations. July 27, 2009. *A Snapshot of Chinese Agriculture with Mike Mulvaney*. Podcast [online]. [Accessed 29.01.2009]. Available from World Wide Web: http://agroinnovations.com/index.php/en_us/multimedia/blogs/podcast/2009/07/episode-59-a-snapshot-of-chinese-agriculture-with-mike-mulvaney/

TEACHING EXPERIENCE

5/09-present **Intern Supervisor**, Tuskegee University Dept. of Social Work
 5/07-present **Volunteer Coordinator** for vegetable production, East Alabama Food Bank
 1/09-5/09 **Soil Morphology Lab**, Auburn University Dept. of Agronomy and Soils
 1/05-12/08 **Soils Lab**, Auburn University Dept. of Agronomy and Soils
 10/02-12/02 **Instructor**, English as a foreign language, *Via Lingua*, Barcelona, Spain

LANGUAGES

- English (Native speaker)
- Spanish (Proficient)
- Quechua (Working knowledge)
- Vietnamese (One year university level)

COMPUTER SKILLS

- Microsoft Office suite (Word, Excel, PowerPoint)
- SAS (Statistical package)
- Dreamweaver
- Typing: 50 wpm

ADVANCED COURSEWORK

- Soil Chemistry
- Physical Soil Chemistry
- Soil Physics
- Nutrient Management
- Soil Resources and Conservation
- Soil and Plant Analysis
- Sustainable Vegetable Production
- Plant Genetics
- Soil Microbiology
- GIS for Biosystems
- Crop Physiology
- Soil Morphology
- Experimental Statistics
- Experimental Methods
- Regression Analysis
- Biochemistry
- Physical Chemistry I & II
- Organic Chemistry I & II
- Inorganic Chemistry
- Analytical Chemistry
- Organic Synthesis
- Organic Mechanisms

COMMUNITY SERVICE

- 2004-Present Auburn University Bicycle Committee, Member
- 2004-Present Alliance for Peace and Justice, President and Moderator
- 2004-Present Alabama Peace and Justice Coalition, Moderator and Founding Member
- 2007-2008 Student Action Network, President and Founding Member

REFERENCES

Dr. Wes Wood
 Professor, Auburn University
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Dr. Kip Balkcom
 USDA Affiliate Assistant Professor
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 Professor, Auburn University
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 +1-505-280-7395