

Milton E. Tignor, Jr. (Buddy), Ph.D.

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PROFESSIONAL EXPERIENCE

June 2008-Present: Chairperson, Department of Natural Resources Management and Campus Sustainability Coordinator. Haywood Community College. Administrative Responsibilities include faculty (7 full time, 3 adjunct) and staff management (2 full time, multiple grant contractors) and evaluation, budget planning and oversight (annual budget of \$600,000), course scheduling, cultivate faculty and staff professionalism, camaraderie, and the pursuit of excellence, represent department interests to the college, serve as liaison between college administration and departmental faculty and staff, promote team building and global view of professional efforts on campus, and keep communication lines open. Integrate sustainability into all aspects of campus operations including curriculum development, transportation, landscape, energy efficiency, natural resources management, and procurement.

February 2008-May 2008: Interim Chairperson, Department of Natural Resources. Haywood Community College. Administrative Responsibilities include faculty and staff management and evaluation, budget planning and oversight, course scheduling, cultivate faculty and staff professionalism, camaraderie, and the pursuit of excellence, represent department interests to the college, serve as liaison between college administration and departmental faculty and staff, promote team building and global view of professional efforts on campus, and keep communication lines open.

March 2006-January 2008: Instructor of Horticulture and Online Course Developer (3-year Department of Labor Community Based Job Training Grant). Division of Natural Resources. Horticulture Technology Program. Haywood Community College (Clyde, NC). Teaching responsibilities include developing online courses for Horticulture Technology Curriculum, teaching seated courses on an as needed basis, recruiting for the Division of Natural Resources. Nine online courses developed to date.

May 2007–October 2007. Grant Manager, DOL Forest Industry Training Initiative Grant. (1.7 million dollars) ETA/Dept of Labor. Managing the grant related efforts of 5 faculty, 1 learning specialist, and 1 instructional designer. Responsible for budget, planning, reporting and employee evaluations. Engaged in regular dialogue with regional Federal Project Officer. Filled in after Department chairperson stepped down until suitable replacement could be found.

March 2000-February 2006: Assistant Professor of Horticulture. Plant and Soil Science Department. University of Vermont. (69% General Fund Appointment (Teaching) / 31% Agricultural Experiment Station (Research); 9-month-full time appointment): Teaching course responsibilities included principles of plant science, vegetable crops, greenhouse operations and management, plant science colloquium, and postharvest physiology. Primary research responsibility was sustainable fresh-market vegetable production. Mentored 4 graduate students. All graduated and successfully defended their research theses. Supervised technician and workstudy students.

March 1998-February 2000: Assistant Professor and Undergraduate Coordinator in the Department of Horticultural Sciences at the University of Florida (Satellite Campus: Indian River Research and Education Center; Fort Pierce, FL. (70% Teaching / 30% Research); Teaching responsibilities included citrus, subtropical

and tropical fruits. Primary research responsibility was citrus water relations. Supervised Research Technician and IT coordinator.

July 1997- March 1998: Postdoctoral Researcher for the School of Forest Resources and Conservation at the University of Florida, Gainesville. Worked for the Defense Genes in Forest Trees (DGIFT) Consortium hunting for resistance genes to Pitch canker in Pines. Taught a portion of the Tree Biology course for the School.

COMMUNITY SERVICE

Board of Directors, Haywood Waterways Association. 2008-2009

Chairperson Air Quality/ Energy Efficiency Green Business Initiative Committee Haywood County Chamber of Commerce. 2008 – 2009

Greenways Committee. Haywood County. 2008-2009

ACADEMIC HISTORY

Ph.D. 1997 Horticultural Science. University of Florida. *Dissertation Title: Irrigation, Nutrition, and Evaluation of Advanced Breeding Lines to Improve Freeze Hardiness of Citrus.*

M.S. 1992 Horticultural Science. Virginia Polytechnic Institute and State University. *Thesis Title: The Effects of Exogenous Application of Abscisic Acid and α,α -Dipyridyl on Cold Acclimation and Physical Characteristics of *Pisum sativum* 'Alaska' Seedlings.*

B.S. 1990 Horticultural Science. Virginia Polytechnic Institute and State University.

INSTRUCTOR FOR THE FOLLOWING COURSES DURING TEACHING CAREER:

HORT = Virginia Tech, FRC, ORH, PLS = University of Florida, PSS = University of Vermont, HOR, BIO = Haywood Community College

HORT 3325 Woody Landscape Plants I (ID Lab)

HORT 3326 Woody Landscape Plants II (ID Lab)

FRC 3212 Introduction to Citrus Culture¹

FRC 3252 Tropical and Subtropical Fruits

FOR 3342C Tree Biology (co-taught)

FRC 4905 The Wonderful World of Citrus

ORH 4932 South Florida Flora and Ecosystems¹

PLS 3221 Plant Propagation

PSS 011 Principles of Plant Science¹

PSS 124 Vegetable 'Fruit' Crops

PSS 126 Vegetable 'Root' Crops¹

PSS 127 Greenhouse Operations and Management¹

PSS 195 Postharvest Physiology

PSS 195 Sustainable Development Film Series¹

PSS 197 Principles of Plant Science Laboratory

PSS 301 Plant Science Colloquium¹

HOR 116 Landscape Management (**Internet Delivery and seated**)²; <http://hor116.blogspot.com/>

HOR 134 Greenhouse Operations (**Internet Delivery and seated**)²; <http://hor134.blogspot.com/>

HOR 160 Plant Materials I (**Internet Delivery**)³; <http://hcc.haywood.edu/>

HOR 162 Applied Plant Science

HOR 164 Horticulture Pest Management (**Internet Delivery**)⁴, <http://hor164.blogspot.com/>

HOR 166 Soils and Fertilizers (**Internet Delivery**)³; <http://hcc.haywood.edu>

HOR 168 Plant Propagation (**Internet Delivery**)²; <http://hor168.blogspot.com>

HOR 235 Greenhouse Production (**Internet Delivery**)²; <http://hor235.blogspot.com>

HOR 260 Plant Materials II (**Internet Delivery**)²; <http://hor260.blogspot.com>

HOR 265 Advanced Plant Materials (**Internet Delivery**)⁴, <http://hor265.blogspot.com/>

BIO 120 Introductory Botany

¹online course supplement using either WebCT LMS or public HTML based website

²course created using Blog, Google Documents, and Google Groups

³course created using BlackBoard CMS, username = workforce3one; password = haywood

⁴course developed, plan to be offered first time summer '08

UNDERGRADUATE STUDENT ADVISING & MENTORING

HCC: 12 advisees in the Horticulture Technology Program (6 actively advised full time students). At HCC advising is focused on selecting the correct career track and assisting students with job placement. Many of our students are being retrained for new careers and are assisted with development of a holistic view of the horticulture industry. Writing recommendation letters for students. Helping them with internship placement and advising on continued education plans. As department chair I advise students from Forestry, Fish and Wildlife, and Geospatial programs on a as needed basis.

UVM: During my career at UVM I have served as primary advisor to a total of 52 undergraduates and 4 graduate students. Currently, I advise 25 undergraduate students (4 PSS majors, 8 SLH majors, 3 ECAG majors, 3 undecided majors, and 5 students pursuing minors in the department) and 1 graduate student. I also serve as a committee member or chairperson for 3 additional graduate students. I request meetings with undergraduates at least once a semester and always make time in my schedule for additional advising appointments as requested by students. Participate regularly, including summers, in Admitted Student Visitations where prospective students are given tours of PSS facilities and course information. I also meet with my graduate students weekly and work with them to carefully manage their research and academic efforts.

UF: 53 students enrolled in undergraduate courses. I had responsibility for the students in the Horticultural Sciences Major. In addition, 342 students contacted the program about potentially joining the student body and over half of those came in for counseling sessions. As a branch campus providing upper-division courses we advised students at all levels from high school and community college to transfer students from other 4-year institutions.

UNDERGRADUATE STUDENT SPECIAL PROJECT ADVISING:

Karla Nuissl. 2005. Small farm market development.

Brian Kellerman. 2005. Small-scale compost production for Common Ground Farm.

David Williams. 2005. Effects of coir, as a root substrate amendment and compost on tomato transplant growth, development, biomass, accumulation, and root architecture.

Yarrow Collins. 2004. Winter Storage Crops.

Yarrow Collins. 2004. Common Ground Farm Manual.

George Pavlovic. 2004. Organic chocolate & research in sustainable cocoa initiatives: an environmental strategy towards tropical rainforest conservation and economic development.

Jessica McKay. 2004. Organic matter impacts on vegetable root architecture with special emphasis on dairy

manure based compost.

Mary Christine Coon. 2004. Vermont Farmer's Ethical Ties to the Land.

Daniel Elmowitz. 2003. Development of a rapid plant screening technique for subsurface constructed wetlands. HELIX funded project.

Sarah-Rose Cameron. 2003. Teaching Internship with Brown's River Middle School covered Floriculture in South America to supplement the student's geography module.

Jennifer Davison. 2002. Worked on teaching behaviorally challenged teenagers gardening.

Yarrow Collins. 2002. A comparison of locally produced potting mixes and their effectiveness with pepper and tomato germination and seedling stages

Christopher Baker. 2002. Effects of media sterilization and fertilizer origin on whitefly and thrips populations in a glasshouse.

Joseph Ibrahim. 2002. Effects of organic soil and compost on greenhouse tomato growth and C:N media ratio.

Daniel Fitzsimons. 2001-2002. Irrigation scheduling effects on frequency of Blossom-end Rot of greenhouse tomato.

Lhakpa Tsering and Thudop Dorjee. 2000-2001. Intervale Community Supported Agriculture Internship. Review of sustainable agriculture practices to be taken back to Tibetan resettlements in Northern India. Sponsored by the UVM Center for Sustainable Agriculture.

Steffanie Borst. 2000-2001. The Market Garden at Shelburne Farms. Project on postharvest storage quality of carrots. Sponsored by the UVM Center for Sustainable Agriculture.

Julia K. Moore. 2000. Summer 2000 Internship with Common Ground. Covered field practices and economics. Sponsored by the UVM Center for Sustainable Agriculture.

STUDENT EXTRACURRICULAR ADVISEMENT

Co-advisor: Common Ground Student Run Horticulture Farm. 2000-2003. Served as resource for approximately 15 students that are heavily involved in the organic production of vegetables on a student managed farm at the Horticulture Research and Education Center in South Burlington. For many students this is their first and only hands-on horticultural production experience during their undergraduate careers. Students operate the farm as a CSA and donate all remaining food to either the Salvation Army Food Shelf or the Chittenden County Emergency Food Shelf (approx. 6000 lbs , 19,000 lbs, and 16,000 lbs in 2000, 2001, and 2002 respectively). Gave tours of the student run farm to distinguished visitors including Ross A. Virginia, Ph.D. (Professor, Dartmouth) Ron Sonoda, Ph.D. (Professor Emeritus, UF), Tulio Goncalves de Melo (Agronomist, EMBRAPA, Brazil), and Duangpom Suwanagul, Ph.D. (Assistant Professor, Kasetsart University; Bangkok, Thailand). Developed new tractor safety training session for undergraduate students with assistance from David Heleba.

TEACHING PUBLICATIONS (Papers, Proceedings, Book Chapters and Published Abstracts)

Mager, M., M. E. Tignor, and K. Hips. 2008. Adapting Hands-on Courses for Online Delivery: A Competency-based Approach. NCCCS. State Conference. Raleigh, NC. October 13th, 2008. Conference program. Pg.39.

Fitz-Rodriguez, E., C. Kubota, G. Giacomelli, M. Tignor, S. Wilson, and M. McMahon. 2008. Dynamic Modeling and Simulation of Greenhouse Environments Under Several Scenarios: A Web-based Educational Application. (ASABE, submitted).

Tignor, M.E. 2008. Chapter 3: Laboratory exercise "Holistic thought process for the design of

mist/fog/cutting/seed propagation facilities.” To be published in: *Plant Propagation Concepts And Laboratory Exercises* (C. Beyl, and R. Trigiano. By CRC Press. (will be published summer 2008)

- Tignor, M.E., S.B. Wilson, G.A. Giacomelli, C. Kubota, E. Fitz-Rodriguez, T.A. Irani, E.B. Rhoades, and M.J. McMahon. 2007. Multi-institutional cooperation to develop digital media for interactive greenhouse education. *HortTechnology*. 17(3). 397-399.
- Tignor, M.E., Irani, T.A., Rhoades, E., Giacomelli, G.A., Kubota, C., Fitz, E., McMahon, M.J. and Wilson, S.B. (2006). Development of a Web-based multi-media resource for environmental control modeling and greenhouse education. *Acta Hort. (ISHS)* 719:303-310.
- Tignor, M.E., S.B. Wilson, L. Hightower, E. Fitz, G. Giacomelli, C. Kubota, E. Rhoades, T. Irani, M. McMahon, A. Laing, D. Heleba, and S. Greenleaf. 2005. Integrating video, interactive animations, images, and assessment towards an expandable instructor resource *HortScience* 40(4):1044. ABSTRACT
- Tignor, M, G. Giacomelli, T. Irani, C. Kubota, M. McMahon, S. Wilson, and D. Heleba. 2004. Multimedia instrument for greenhouse education: establishing potential clientele. American Society for Horticultural Science Annual Meeting (Austin, TX) July 17-20. *HortScience* 39(4): 809-810. ABSTRACT
- Tignor, M., S. Wilson, T. Irani, G. Giacomelli, C. Kubota, and M. McMahon. 2004. Multimedia instrument for greenhouse education: Designing for user needs and higher-order thinking. North American Colleges and Teachers of Agriculture 50 Annual Conference (Gainesville, FL) June 20-23. Abstract Book: 38.
- Tignor, M.E., S.B. Wilson, and P.C. Wilson. 2002. Development of an undergraduate plant science course promoting environmental awareness, native flora and critical thinking skills. *NACTA J.* 46(1):26-32.
- Sands, N. W.S. Harper, and M.E. Tignor. 2001. Using a student managed vegetable farm as an alternative learning experience to benefit students and the local community. *HortScience*. 36(3):513. ABSTRACT
- Tignor, M.E. and M. Starrett. 2001. Using WebCT as a ‘traditional’ course supplement to enhance student learning, test competency efficiently, and obtain comprehensive student evaluations. *HortScience*. 36(3):447. ABSTRACT
- Tignor, M.E. and S.B. Wilson. 1999. Sowing the seeds of a new horticulture sciences teaching program. *Proc. Fla. State Hort. Soc.* 112:255-260.
- Tignor, M.E. and E.M. Lamb. 1999. De Novo synthesis of a horticulture teaching program. *HortScience*. 34(3):519. ABSTRACT

TEACHING AWARDS

2008. Excellence in Teaching Award. Haywood Community College
2008. Faculty Support Award. Haywood Community College.
2002. NACTA and The University of Vermont Teaching Award of Merit.

PROPOSALS FUNDED (over \$600,000 in total grants funded)

- Moss, K., and Tignor, M. 2009. Waste Not, Want Not: A Shared Tanker Truck for Haywood County Biodiesel Production, Education and Training. NCDENER/DAQ/MSERG/EPA. (\$35,500)

- Tignor, M. 2008. Development of Medicinal Plant and Ethnobotany Learning Opportunities via Curriculum, Continuing Education, and Demonstration Activities. NCCCS BioNetwork Funds. (\$ 26,607)
- Tignor, M. and J. Sherman. 2007. Videoconferencing Equipment Enhancement to Increase Biotechnology Distance Learning Opportunities. NCCCS BioNetwork Funds. (\$55,000)
- Sherman J. and Tignor M. 2007. Development and Analysis of Protocols for the Inclusion in the BioNetwork Plant Micropropagation Collaborative Project Database. NCCCS BioNetwork Funds. (\$25,000)
- Dollyhite, R. M. Tignor, J. Sherman, L. Rayburn, and others. 2006 Plant Micropropagation Collaborative Partnership. Multi-Community College Grant. NCCCS BioNetwork Funds. (\$75,000)
- Tignor, M., G. Giacomelli, T. Irani, M. McMahon, S. Wilson. 2003. Multimedia instrument for worldwide greenhouse education. USDA Higher Education Challenge Grant. Multi-state proposal: UVM (lead institution, University of Arizona, Ohio State University, and the University of Florida. (\$247,563). <http://www.uvm.edu/wge/>
- Tignor, M. 2003. Dairy manure compost effects on root architecture and growth of vegetables. Competitive USDA Hatch Funds. (\$20,000).
- Hession, W.C., M. Tignor, and N. Hayden. 2002. Demonstration/Research Constructed Wetland to Treat Dairy Waste. Lake Champlain Basin Project. (\$58,000).
- Tignor, M.E. 2001. Heirloom Vegetable Garden for Public and Grower Education: Renewal. The Friends of the Horticulture Farm. (\$600).
- Tignor, M.E. 2001. Development of an on-line modular review covering basic plant science principles. Instructional Incentive Grants (Center for Teaching and Learning). (\$4,700)
- Tignor, M.E. 2000-2003. Optimization of irrigation efficiency in the Vermont vegetable industry. Competitive Hatch Funds. (\$48,000).
- Tignor, M.E. 2001. Heirloom Vegetable Garden for Public and Grower Education. The Friends of the Horticulture Farm. (\$1,325).
- Wilson, S.B., Wilson, P.C., and M.E. Tignor. 2000-2001. Development Of Screening Protocols for Evaluating the Potential Invasiveness of New Ornamental Species to the Florida Landscape. Florida Department of Environmental Protection. (\$24,264.86) see website I created and maintained for the project: <http://www.uvm.edu/~pass/tignor/IPWeb/index.htm>
- Tignor, M.E. Minigrant For The Improvement of Instruction. 1999. College of Agriculture. University of Florida. (\$2,460)
- Tignor, M.E. and M. Ritenour. 1998-2000. Development of a Central Internet Resource For Citrus Information. Florida Citrus Production Research Advisory Council. (\$7,500).
- Boman, B. and M. E. Tignor. 1998-2000. Detecting and Managing Water Stress in Flatwoods Citrus. Florida Citrus Production Research Advisory Council (\$34,000)
- Tignor, M. E. and R. L. Weiser. 1991. Testing the effectiveness of cryoban in eliciting cold acclimation of peas. Submitted to and funded by Great Lakes Chemical Corporation and QO Chemicals. (\$5,300).
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PROGRAM RECRUITMENT-Advertising Campaign Management

Extensive student recruiting experience at Haywood Community College: Actively recruited students from venues including: High Schools, Middle Schools, Summer Enrichment Programs, State Agriculture Teacher's Meeting, Festivals, FFA events, and Academic Opportunity Fairs, YouTube educational videos highlighting materials available at HCC (<http://www.youtube.com/hccnatres>); Co-created natural resources blog for Division. <http://dnrhcc.blogspot.com>

The teaching program at the Indian River Research and Education Center was established in 1998. Therefore, approximately 10% of my appointment was spent on recruiting activities. I managed the initial \$30,000 media campaign (mostly radio and print) and made numerous public appearances promoting the teaching program. 1998-2000.

GRADUATE STUDENT ADVISEMENT:

Christine Manuck. 2004-2006. M.S. PSS. Optimization of dairy manure compost application for vegetable production. Completed. Currently, working as a technician at U.C. Berkley.

Sandra Menasha. 2002-2005. M.S. PSS. Optimizing transplant plug size and media selection to maximize sweet corn profits for New England growers. Completed. Currently, Vegetable Extension Specialist for Cornell (Long Island HREC).

Thomas DiPietro. 2002-2005. PSS. M.S. Effects of aeration on the root architecture of emergent wetland plants utilized for remediation of agriculturally impacted wastewater. Completed. Currently, Tom is the Director of Stormwater Management for South Burlington, VT.

Nathaniel Sands. 2001-2003. M.S. PSS. Evaluating genotypes and compost amendment strategies to improve solanaceous crop yield. Completed. Currently, Nate works with Dairy Farmers to implement Water Quality BMPs for the VT. Dept. of Ag and as an Adjunct faculty member teaching Soil Science at The University of Vermont.

Meredith Dunker. 2000. PSS. M.S. Resigned to explore other academic opportunities. She completed a M.Ed. and now works in New York City as a Biology/Agriculture High School Teacher.

Committee Member (* served as chairperson):

Sarah Kingsley-Richards. 2004-2008. M.S. Cold hardiness of perennial nursery crops. (Fulltime PSS staff member, part time graduate student).

Marlys Eddy. 2003-2005. PSS. M.S. Wine grape production as a means of diversification in Vermont.

Adam Wheeler. 2002-2005. PSS. M.S. Novel grafting technique to improve the salt tolerance of sugar maple.

Kwabena Osei.* 2003-2005. CEE. M.S. Pollutant removal efficiency of a stormwater wetland in Williston, Vermont. Completed. Civil Engineer in Maine.

Augusta Krahl.* 2001-2004. NFS. M.S. Food Safety and Regulation: Development of an online multimedia course. Completed.

David Whitney.* 2000-2002. CEE. M.S. The effect of aeration on the treatment of organic and nitrogen compounds in a laboratory-scale constructed wetland system. Completed.

Andrea Porter.* 1999-2001. CEE. M.S. Processes affecting the fate of nonylphenol during wastewater treatment. Completed.

Other:

Appointed to the Graduate Faculty in the Department of Plant and Soil Sciences (UVM). 2000.

Appointed to Graduate Faculty in the Department of Horticultural Sciences. 1999.

RESEARCH PUBLICATIONS (Papers, Proceedings, Book Chapters and Published Abstracts)

Menasha, S. and M. Tignor. 2005. Delayed planting and plug cell volume effects on growth, development, and yield of transplanted sweet corn. HortScience 40(4):999-1000. ABSTRACT

Menasha, S. and M. Tignor. 2004. Plug tray cell volume effects on sweet corn transplant root architecture and biomass accumulation. American Society for Horticultural Science Annual Meeting. HortScience 39(4): 865. ABSTRACT

Sands, N., D. Heleba, and M. Tignor. 2002. Effects of a single addition of compost on potato yields when nitrogen and plant available water are not limiting. Proceedings of XXVIth International Horticultural Congress:105. ABSTRACT

Sands, N., D. Heleba, and M. Tignor. 2002. Marketable yield evaluation of eleven heirloom tomato varieties. Proceedings of XXVIth International Horticultural Congress:535-536. ABSTRACT

Whitney, D., N.J. Hayden, W.C. Hession, and M. Tignor. 2002. Developing a constructed wetland center at the University of Vermont. In: Wetlands and Remediation II: Proceedings of the Second International Conference on Wetlands and Remediation. Eds. Nehring and Brauning. Battelle Press. Columbus, OH. Pp. 243-249

Dunker, M., D. Heleba, N. Sands, and M.E. Tignor. 2001. Preliminary evaluation of five heirloom tomato cultivars for fresh market production in New England. American Society of Horticultural Sciences Annual Meeting. HortScience. 36(3):537. ABSTRACT

Wilson, S.B., P.C. Wilson, and M.E. Tignor. 2001. Germination of potentially invasive ornamental plants under varying conditions. American Society of Horticultural Sciences Annual Meeting. HortScience. 36(3):556. ABSTRACT

Tignor, M.E. and P.J. Stoffella. 2000. Computer root image analysis of citrus rootstock seedlings. HortScience. 35(3):499. ABSTRACT

Davis, J.M., H. WU, M.E. Tignor. 1999. Inducible defense responses: mechanisms of general aggressor perception are conserved in plants. Institute National de la Recherche Agronomique (INRA).

Tignor, M.E., F.S. Davies, and W.B. Sherman. 1998. Irrigation and nutrient application frequency effects on freeze hardiness and growth of 'Hamlin' orange trees in Florida. Proc. Fla. State Hort. Soc. 111:121-125. Also presented at meeting.

- Tignor, M.E., F.S. Davies, and W.B. Sherman. 1998. Freezing tolerance and growth characteristics of USDA intergeneric citrus hybrids 'US 119' and selection 17-11. *HortScience*. 33(4):744-748.
- Tignor, M.E., F.S. Davies, W.B. Sherman, and J.M. Davis. 1997. Rapid freeze acclimation of *Poncirus trifoliata* seedlings exposed to 10C and long days. *HortScience*. 32:854-857.
- Tignor, M.E., J.M. Davis, F.S. Davies, and W.B. Sherman. 1996. Changes in freezing tolerance, water potential, and gene expression of *Poncirus trifoliata* 'Rubidoux' seedlings exposed to acclimating low temperatures and long days. *HortScience*. 31(4):580. ABSTRACT
- Tignor, M.E. and C.A. Weber. 1996. Effects of hydrating, boiling, acid scarification, and seed coat removal on emergence of *Citrus* sp., *Poncirus trifoliata*, and citrange seeds. *HortScience*. 31(4):633. ABSTRACT
- Tignor, M.E., F.S. Davies, and W.B. Sherman. 1995. Irrigation scheduling, nutrient application frequency, and freezing acclimation of 'Hamlin' orange trees in Florida. *HortScience*. 30:848. ABSTRACT
- Tignor, M.E., F.S. Davies, and W.B. Sherman. 1995. Freezing tolerance of citrus hybrids USDA 17-11 and USDA 119 as compared to 'Hamlin' orange and Satsuma mandarin. *HortScience*. 30:795. ABSTRACT
- Tignor, M.E. and R.L. Weiser. 1992. Responses of 'Alaska' pea seedlings to freezing stresses after the addition of α,α dipyridil, an extensin hydroxylation inhibitor. *Plant Physiology*. 99(1):127. ABSTRACT
- Tignor, M.E. and R.L. Weiser. 1992. The effects of the interaction between light and exogenous abscisic acid on cold acclimation of 'Alaska' pea seedlings. *HortScience*. 27:685. ABSTRACT
- Tignor, M.E. and R.L. Weiser. 1991. Response of 'Alaska' pea seedlings to freezing and chilling stresses after the exogenous application of abscisic acid. *HortScience*. 26:737. ABSTRACT

RESEARCH PRESENTATIONS

- DiPietro, T. and M. Tignor. 2004. Wetland plant species root architecture responses to aeration and dairy wastewater. Presented at the 25th Conference of the International Society for Wetland Scientists (Seattle, WA) July 18th-23rd.
- DiPietro, T. and M. Tignor 2004. *Scirpus atrovirens* root architecture responses to aeration and dairy wastewater. UVM Graduate Presentation Research Day. April 2nd.
- Menasha, S. and M.Tignor. 2004. Plug Cell Size and Rooting Media Effects on Sweet Corn Transplants. Presented at Vermont Vegetable and Berry Grower's Association Annual Meeting. February 10th.
- Stover, E., Tignor, M., Timmer, P. Overview of citrus culture. Invited Presentation to the Bermuda Fruit Growers' Association, June, 2002, Hamilton, Bermuda.
- Tignor, M. 2002. Heirloom tomato variety trials: findings and reflections from year 2. Presented at Vermont Vegetable and Berry Grower's Association Annual Meeting. February 19th, 2002.
- Sands, N. and M.Tignor. 2002. Effect of a single compost amendment at three different rates on yield and water use by potato. Presented at Vermont Vegetable and Berry Grower's Association Annual Meeting. February 19th, 2002.

- Tignor, M. 2002. Implementation of subsurface constructed wetlands to treat dairy farm stormwater runoff at the University of Vermont. PSS Seminar Series. November 13th.
- Hayden, N. W.C. Hession, M.Tignor, and D. Whitney. 2001. Developing a constructed wetland at the University of Vermont. Wetlands & Remediation: Second International Conference. Burlington, VT (September 5-6).
- Wilson, S.B., P.C. Wilson, M.E. Tignor, and L.A. Krumholz. 2001. Germination of potentially invasive ornamental plants under varying conditions. Florida Exotic Pest Plant Council. 16th Annual Symposium. p 14.
- Wilson, S.B., P.C. Wilson, and M.E. Tignor. 2001. Assessment of germination, nutrient uptake and photosynthetic efficiency for evaluating the potential invasiveness of *Ruellia brittoniana*. 2001 Annual Meeting of the Florida State Horticultural Society. Hutchinson, Island, FL. (June 10-June 12). Presentation of paper in proceedings.
- Tignor, M.E. 2001. The rebirth of vegetable crops teaching and research at UVM. 2001 Vermont Vegetable and Berry Growers Association Annual Meeting. Rutland, VT. (February 13).
- Davis, J., G. Blakeslee, M. Tignor, S. Luce, L. La Russa, and C. Michler. 1998. An approach to identify slash pine genes associated with tolerance to pitch canker disease. Proc. IMPACT. Monterey. Asilomar, CA. (Nov. 31-Dec. 2).
- Davies, F.S., M.E. Tignor*, and L.A. Mathers. 1996. Irrigation and fertilization of young interset 'Hamlin' orange trees in Florida. FSHS. Proceedings supplement 109:21.

EXTENSION PUBLICATIONS

- Tignor, M. 2007. Summer Garden Recommendations for Western North Carolina. Carolina Gardener Magazine. July.
- Tignor, M.E. 2001. Roses are red, Some of our potatoes were blue, we grew some weird tomatoes this summer and so should you!. Friends of the Horticulture Farm Newsletter. November/December.
- Tignor, M.E. 2001. Vegetable Medley: and update. Friends of the Horticulture Farm Newsletter. September/October 2001.
- Tignor, M.E. and M. Dunker. 2000. Vegetable Medley. Friends of the Horticulture Farm Newsletter. July
- Appelton, B., M.E. Tignor, R. Sorenson. 1992. Selecting trees to minimize yardwaste. The Virginia Gardener Newsletter. 11(9):1.

FACULTY TRAINING PRESENTATIONS

- Tignor, M.E. 2009. Living Sustainably. Presentation to HCC faculty students and staff. March 10th.
- Tignor, M.E. 2008. Non-LMS tools for effective online teaching and learning. Western Carolina University Invited Speaker for eLearning Faculty Community. March 26.

- Tignor, M.E. 2008. How to Conduct Internet Searches. (HCC Workshop) Faculty and Students in attendance. March 25.
- Tignor, M.E. 2007. Thinking Beyond BlackBoard's Box. Passages to eLearning 2007 Conference. Maggie Valley, NC. Nov. 3.
- Tignor, M.E. 2007. Wiki it's more than just Hawaiian for fast. Lecture for Distance Learning Series for Faculty Training at Haywood Community College. 3:00 – 4:30 pm. April 26.
- Tignor, M.E. 2007. Session VIII. NCCS: Learning Objects; Presentation of Online Learning Tools developed for Greenhouse Science Educators. Western Carolina University. April 2nd.
- Tignor, M.E. 2006. Speaker for: A multi-institutional event: The ABCs of Learning Objects. AB Tech. Oct. 30th.
- Tignor, M.E. 2006. Camtasia 3.0 for Beginners. Lecture for Distance Learning Series for Faculty Training at Haywood Community College. May.
- Tignor, M.E. 2006. Internet Based Employee Training and Production Tools. (Faust and Fisher co-presenters). OFA: An association of professional floriculturalists. July 8. Columbus, OH
- Tignor, M.E. 2001. Communicating to students with syllabi and using WebCT as a course supplement. Lessons from Seventy-Five Years of Teaching Experience. CALS Teaching Workshop hosted by participants in the 2000 Northeast Regional Teaching Conference (T. Patterson, G. Olivetti, J. Petrillo, and J. Leonard)(January 12).
- Tignor, M.E. 2001. Maximizing lecture time and learning by using the Internet as a student resource and evaluation tool. Orientation to teaching resources on the UVM Campus and The Center for Teaching and Learning. August 24, 2000.

MISCELLANEOUS REPORTS, SEMINAR SERIES, and CREATIVE WORKS

- Tignor, M. 2008. Invasive Plants: What you need to know. Invited Speaker. Haywood Garden Council. Maggie Valley, NC. May 7.
- Bishop B. and Tignor, M. 2008. Sustainable Initiatives at HCC Display and PowerPoint Kiosk. Getting Haywood County Ready for Growth meeting. USDA Service Center. Waynesville, NC. March 31
- Tignor, M. 2007. YouTube video uploads for BioTechnology project managed by Steven Heulett videos created by Kelly Davis.
- Tignor M. 2007. YouTube videos for USDA Greenhouse Project DVD. Over 20,000 hits and counting.
- Tignor, M. 2006. YouTube videos for Haywood Recruiting and Educational Purposes. Links to videos available at <http://naturalresources.haywood.edu> "Student Life at HCC"
- Tignor, M., S.B. Wilson, G. Giacomelli, C. Kubota and M. McMahon. 2005. Multimedia Greenhouse DVD. Institute of Food and Agriculture Sciences, University of Florida.

- Tignor, M. 2005. *Student Perspective* video clips for departmental websites. <http://www.uvm.edu/~pss/>
- Tignor, 2004. Participation in video interviews concerning current ASHS efforts in education. Available on-line 2005 at: <http://www.ashs.org/>
- Wilson, S.B. (editor), M.Thetford, D.G. Clark, F.T. Davies, B. Dehgan, G.A. Giacomelli, M.E. Kane, K.A. Klock-Moore, S.M. Scheiber, R.K. Schoellhorn, M.E. Tignor, W.A. Vendrame, and J.F. Williamson. 2002. Principles and Practices of Plant Propagation CD (PLS 3221/5221), Institute of Food and Agricultural Sciences, University of Florida.
- Tignor, M. 2002. Faculty participant in interviews used in the development of a new web resource for New Faculty at the University of Vermont. <http://ctl.uvm.edu/nfo/tignor.html>
- Tignor, M. 2002. Development of an On-Line Modular Review Covering Basic Plant Science Principles. Final Report Submitted to the Center for Teaching and Learning.
- Tignor, M.E., S. Thornsby, D. Tucker, and M. Ritenour. 1999. Citrus Training Session. Heron's Glen: Fort Myers, FL. 174 pp. Completed using Microsoft PowerPoint
- Thornsby, S. and M.E. Tignor. 1999. "Grapefruit on the Go":10 minute animated PowerPoint presentation; covering grapefruit export worldwide; presented to the public at the 1999 Grapefruit Festival. Fort Pierce, FL.
- Tignor, M.E. 1999. Beginning HTML Skills. Presented to faculty and staff. Fort Pierce, FL.
- Tignor, M.E. and L.G. Albrigo. 1999. Citrus Teaching Programs. Statewide Overview Document Presented to the Vice President and Deans for the College of Agriculture. 5 pp.

UNIVERSITY GOVERNANCE RELATED TO DISTANCE LEARNING AND EDUCATION

- (HCC)** Academic Calendar Committee 2008
- (HCC)** Curriculum Committee 2008 - present
- (HCC)** Academic Affairs Committee 2008 - present
- (HCC)** V.P. for Academics and Workforce Development Hiring Committee 2008
- (HCC)** Department of Labor Team Leader Management Committee 2006-2007
- (HCC)** Hiring Committee for Campus Team Arboretum Leader Position - 2008
- (HCC)** Department of Labor Content Team, Chair 2006
- (HCC)** Webmaster Hiring Committee 2006
- (UVM)** CALS Studies Committee. 2004-2006
- (UVM)** CALS Scholarship Review Committee. 2000-2006
- (UVM)** CALS Honor Committee. 2000-2006
- (UVM)** CALS Information Technology Committee. 2000-2001
- (UVM)** PSS Curriculum Committee. April 2000-present
- (UVM)** PSS Technology Committee. 2000-2001.
- (UF)** Task Force On Preparing Students For The New Millennium. 1999-2000 College of Agriculture
- (UF)** Computer Committee (chair). 1999-2000. Indian River Research and Education Center (chair)
- (UF)** Seminar Committee. 1999. Indian River Research and Education Center

(UF) Publications Review Committee. 1999. Indian River Research and Education Center
(UF) Physical Expansion of the New Teaching Program – Budget Management

GRADUATE LEVEL EDUCATION COURSES COMPLETED DURING Ph.D.

Educational Sociology
 University and College Teaching
 Learning Psychology

UNDERGRADUATE LEVEL COURSES COMPLETED Post Ph.D.

Graphic Design (2004)
 Drawing and Sketching (2005)
 Applied Computer Graphics (2005)
 Programming and Logic (VB course) (2007)
 Visual Basic Programming (2007)
 Introduction to GIS (2008)
 Geodatabases (will complete Spring 2009)* - only one course away from Geospatial Certificate

CONTINUED TRAINING RELATED TO TEACHING, INSTRUCTIONAL DESIGN, and GRANT MANAGEMENT.

Reviewer for USDA SBIR program.
 Leadership North Carolina Training Program. 2008-2009; 8-month, 80 hour training program covering leadership issues associated with North Carolina including environment, education, economic development, health and human services, etc. Graduate Class XVI.
 Completed: Visual Literacy, Equipping Students for a Visual World (3 contact hour course) taught by Lynell Burmark, Thornburg Center. January 23, 2008.
 Attended FETC Conference on Technology and Learning. January 22-26, 2008.
 Attended Beyond Boundaries, Workforce Innovations 2007. July 17-19, Kansas City, MO
 Attended High Growth & Community Based Job Training All Grantee Meeting. 2007. July 16-17th, Kansas City, MO.
 Attended Webinar. "An Overview of the Proposed Reporting Format for High Growth and Community-Based Job Training Grantees. ETA/DOL. 2007. June 13.
 Attended Soaring with Discretionary Grants. OSID. ETA/DOL. 2007. May 30-Jun 1. Atlanta, GA
 Attended Distance Learning Alliance Conference. 2007. May 23-34. Asheville, NC.
 Writing and Drawing to Improve Comprehension (CTL Workshop with CEE faculty). May 12, 2003.
 Writing and Learning Across the Curriculum (CTL Workshop). January 6-7.2003.
 11 Northeast Regional Teaching Workshop. September 26-28, 2002. Amherst, Mass.
 UVM President's Leadership Series. May 20-June 5. 2002. (nominated participant)
 Demonstration of the New PBS Videodatabase (CTL Workshop). November 3, 2000
 Dinner Conversations About Teaching (CTL Workshop). October 24, 2000
 Northeast Regional Teaching Workshop. October 5-7, 2000 North Brunswick, NJ.
 CALS Advising Workshop for New Faculty. August 23, 2000.
 Critical Thinking for the New Century Workshop. May 17-18, 2000. University of Vermont.
 WEBCT Workshop March 20, 21., 2000. University of Vermont.
 Southern Teaching Improvement Symposium. October 1999.
 Teaching and Learning Online Workshop. 1998. University Center for Excellence In Teaching at UF

WEB DEVELOPMENT PROJECTS:

HCC Sustainability Website. 2008. <http://sites.google.com/site/hccsustainability/>
 Department of Natural Resources Blog. 2007. <http://dnrhcc.blogspot.com/>
 Grant Management Website for F.I.T.I.2007. <http://foresttraining.googlepages.com/>
 Worldwide Greenhouse Education.2006. <http://www.uvm.edu/wge/> included utilization of Flash, DSpace, and a wiki living glossary.
 Tignor Faculty Web Pages.2005. <http://www.uvm.edu/~pass/tignor/index.htm>
 FRC 3252 Tropical and Subtropical Fruits. 2000. (at UF no longer available)
 ORH 4932 South Florida Flora and Ecosystems. 1999. <http://irrecenvhort.ifas.ufl.edu/SFFE/index.htm>
 Evaluating the Potential Invasiveness of New Ornamental Species in FL. 2001.
<http://www.uvm.edu/~pass/tignor/IPWeb/index.html> password = germination
 Fun with freshwater mussels: educational website. 2003. Assisted C.A. O'Brien with development.
<http://www.uvm.edu/~pass/tignor/mussels/index.htm>
 Citrus Internet Resource Pages(at UF no longer available) (until spring of 2000)
 Designed and maintained the Indian River Research and Education Center's first Website.
<http://www.irrec.ifas.ufl.edu> until March 2000

SOFTWARE EXPERTISE:

Adobe Photoshop, Adobe Illustrator, Adobe Acrobat – Intermediate Experience
 ArcView 9.3 – Basic GIS skills including geodatabase creation, spatial and attribute queries
 BlackBoard CMS – experienced course designer
 Camtasia 3.0 – Advanced Experience
 Macromedia Dreamweaver and Fireworks – Intermediate Experience
 Macromedia Flash – Intermediate Experience
 MS Office 2003/2007 – advanced user Word, PowerPoint, Excel, Outlook
 SAS – Statistical Analysis Software
 Respondus, Study Mate – Advanced Experience
 Video Magic – Digital Video Production Software
 Visual Studio 2005 – Intermediate Experience
 WebCT 4.0 – experienced course designer
 Audacity – audio file editing
 DSpace digital repository software. – management and utilization
 Web based tools – YouTube, SlideShare, FilmLoop, iTunes, Wikis. JumpCut, Google Picasa, Google advanced search techniques, Google Scholar, Google Earth, Google Sketch-Up, Google Sites, Flickr, Blogger