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EDUCATION

PhD, Plant & Environmental Sciences, Clemson University, 2006. *The role of Rubisco activase and Rubisco activase likes in regulating photosynthetic thermal regulation in Acer rubrum L. and Arabidopsis thaliana*

MS, Horticulture/Plant Physiology, Cornell University, 2001

BS, Plant Science, Cornell University, 1998

PROFESSIONAL POSITIONS HELD

Postdoctoral fellow, Oak Ridge National Laboratory 2005- present

Assistant Professor, Department of Plant Science, State University of NY, Cobleskill 2001-2002

Visiting Professor, Department of Plant Science, State University of NY, Cobleskill 2001

PUBLICATIONS – PEER REVIEW

Weston, D.J. and W.L. Bauerle. 2007. Inhibition and acclimation of C₃ photosynthesis to moderate heat: A perspective from thermally contrasting genotypes of *Acer rubrum L.* In Press: (Vol: 27) *Tree Physiology*

Weston, D.J., W.L. Bauerle, G.A. Swire-Clarke, B.D. Moore, and W. V. Baird. 2007. Characterization of Rubisco activase from thermally contrasting genotypes of *Acer rubrum L.* In press: *The American Journal of Botany*

King, A.W., C.A. Gunderson, W.M. Post, **D.J. Weston** and S.D. Wullschleger. 2006. Plant Respiration in a Warmer World. *Science*. 312:536-537

Weston D.J., A. Rogers, T. J. Tschaplinski, X. Yang, S.D. Wullschleger. 2007. From Genome to Phenotype: Connecting Genes, Signaling Networks, and Signature Patterns to Plant Stress Phenotypes. In preparation.

Bauerle, W.L., **D.J. Weston**, J.D. Bowden, J.B. Dudley, and J.E. Toler. 2004. Leaf absorptance of photosynthetically active radiation in relation to chlorophyll meter estimates among woody plant species. *Scientia Horticulturae*, 101:169-178.

TEACHING/MENTORING EXPERIENCE

Lecture and Laboratory Instructor: Plant and Soil Diagnostics (AGRN 494)
State University of NY, Cobleskill 2001-2002

Laboratory Instructor: Botany I (BIOL 116)
State University of NY, Cobleskill 2001-2002

Co-Lecture Instructor: Plant Physiology (AGRN 362)
State University of NY, Cobleskill 2002

Lecture and Laboratory Instructor: Agricultural Chemicals (AGRN 335)
State University of NY, Cobleskill 2001-2002

*The course was modified to emphasize the maintenance and health of the entire agroecosystem and not to rely solely upon chemicals.

Lecture and Laboratory Instructor: Golf Course Management (RECM 245)
State University of NY, Cobleskill 2001-2002

Lecture and Laboratory Instructor: Turfgrass Management I (RECM 222)
State University of NY, Cobleskill 2001-2002

Teaching assistant: Woody Plant Identification (HORT 392).
Cornell University 1999

SELECTED HONORS AND AWARDS

Weston, D.J., A. Rogers, T. J. Tschaplinski, and S. D. Wulschleger. 2007. Selected presenter and participant for the Frontiers in Biology Symposium: **National Academies of Science**, Washington D.C., May 9-12.

Weston, D.J. and S. D. Wulschleger. 2007. Invited speaker for the Symposium: Merging Physiological Ecology and Functional Genomics: We Need Them and They Need Us. *Ecological Society of America*, San Jose, CA, August 5-10

St. Clair, S. and **D.J. Weston**. 2007. Co-organizer for: Mechanistic underpinnings of ecological processes: scaling from genes to ecosystems. *Ecological Society of America*, San Jose, CA, August 5-10

NSF-funded Plant Microarray Short Course: "On Design and Analysis of Plant Microarray Experimentation" Boston MA 2006

Environmental Science Fellowship Award. 2002-2005. Clemson University \$25,000 for 3 years

Noer Foundation Award. 2000. Cornell University

Bayer Award. 1999. Cornell University

PUBLICATIONS – ABSTRACTS

Weston, D.J., A. Rogers, T. J. Tschaplinski, and S. D. Wulschleger. 2007. On the emerging role of systems biology in predicting the future state of terrestrial ecosystems. *National Academies of Science*, Frontiers in Biology Symposium, Washington D.C., May 9-12.

Rogers, R., **D.J. Weston**, T. J. Tschaplinski, and S. D. Wulschleger., 2006. Understanding the linkages between gene, enzyme and metabolite. American Society of Plant Biologists, Boston, MA August 5-9.

Weston, D.J. and W.L. Bauerle. 2004. Intraspecific variation in photosynthetic acclimation to temperature in *Acer rubrum* L. 89th Annual *Ecological Society of America*, Portland, Oregon, August 1-7.

Weston, D.J., W.L. Bauerle., G.A. Swire-Clarke., and W. V. Baird. 2004. Characterization of Rubisco activase from thermally contrasting lines of *Acer rubrum* L. *American Society of Plant Biologists*, Orlando, Florida, July 24-27

Weston, D.J., W.L. Bauerle., G.A. Swire-Clarke., and W. V. Baird. 2004. Insights into the role of Rubisco activase in heat-stress limited photosynthesis. XXVIIIth Horticultural Congress, Austin, Texas, July 17-20. *HortScience*, 39(4): 855

Weston, D.J. and W.L. Bauerle. 2003. The effects of heat on photosynthesis in *Acer rubrum*. *HortScience* 38(5): 686.

Weston, D.J. and W.L. Bauerle. 2003. Photosynthetic response of *Acer rubrum* L. to elevated temperatures. Proceedings of the Southern Nursery Association Research Conference. 48: 391-393.

Weston D.J., Rossi F.S. 2000. The effect of light quality on morphology and reserve carbohydrates in three cool season grasses. *American Society of Agronomy annual meetings*. C05-115

Tennessee D.J. and **Weston D.J.** 1998. Phytochrome-A as a Biological Growth Regulator. *Plant Growth Regulator Society*.

SKILLS DEVELOPMENT

Workshop: "R programming for microarray analysis," Princeton University, NJ.

Workshop: "Teaching Well with the Case Method and Problem-Based Learning" Office of Teaching Effectiveness and Instruction, Clemson University, SC

Workshop: "Publish, Don't Perish: Twelve Steps to Help Scholars Flourish" Led by Tara Gray, Director, Teaching Academy, New Mexico State University.

Workshop: "Writing the Winning Grant" Academic Support Center workshop, Clemson University, SC