

Biographical Sketch

Andrew George Ristvey
University of Maryland Extension

Telephone : 410-827-8056
Email: aristvey@umd.edu

Education

- 1998-2004 **Ph.D., Horticulture**
University of Maryland, College Park, College Park, MD 20742
Dissertation: Water and Nutrient Dynamics in Container-Nursery Production Systems.
- 1990-1993 **M.Sc. Marine Ecology Estuarine Science**
University of Maryland, Eastern Shore, Princess Anne, MD 21501
Thesis: The Effect of Experience on the Responses of Rock Crabs, *Cancer irroratus*, to Prey Odor.
- 1985-1989 **B.Sc., Biology/Chemistry**
Edinboro University of Pennsylvania, Edinboro, PA 16412

Professional Experience

- 2005 to present **Senior Extension Specialist** - University of Maryland, Department of Extension, University of Maryland, College Park, MD 20742.
- **Split Appointment** – 70% Extension and 30% Research
 - **Teaching/Extension Curriculum Development and Implementation**
 - ***Nutrient Management and Water Quality Curriculum***
 - ***Alternative Sustainable Crop Programming***
 - **Research and Development Programs:** a total of over \$5.8 million dollars raised for research programs.
 - ***Agricultural Water Resource Technology and Use Sustainability Moisture-Sensor Driven Irrigation***
 - ***Alternative Crop Production – Sustainable Cultural Production of the Fruit Crop, Aronia*** (*Aronia mitchurinii*)
 - ***Green Roof Technology and Urban Stormwater Issues***
 - **Adjunct Teaching** with Department of Plant Sciences and Landscape Architecture of the University of Maryland, College Park.
 - **Academic/Research Advising**
 - ***Co-committee Chair of Master of Science student***
- 1998 to 2004 **Graduate Research Assistant**
- 1996 to 1998 **Ecologist and Interim Director-** Adkins Arboretum
Hillsboro, Maryland 21629 1995 to 1996
Environmental Specialist, Johnson, Mirmiran, and Thompson, P.A.,
Sparks, Maryland 21152

Total Competitive Grant Funding - Total Funding: \$5,670,548

Certifications Maryland Certified Nutrient Management Consultant Maryland
Certified Public Agency Pesticide Applicator

Chapters in Books

Ristvey, A.G. and G.W. Mooreman. 2014. An integrated approach to minimizing plant pathogens in runoff water from containerized production systems. Pages 365-375 in: *Biology, Detection, and Management of Plant Pathogens in Irrigation Water*. C. X. Hong, G. W. Moorman, W. Wohanka, and C. Büttner, eds. American Phytopathological Society, St. Paul, MN.

Majsztrik, J., A. G. Ristvey and J.D. Lea-Cox. 2010. Water and Nutrient Management in the Production of Container-Grown Ornamentals. *Hort Reviews*. J. Janick (Ed.) J. Wiley, NJ. 38:253-296.

Relevant Publications (Refereed)

Griffin, W. N., Cohan, S., Lea-Cox, J.D. and Ristvey A.G. 2017. Green Roof Substrate Composition Affects *Phedimus kamtschaticus* Growth and Substrate Water Content under Controlled Environmental Conditions. *HortSci*. 52(2):320-325.

Lea-Cox, J.D., B.E. Belayneh, J. Majsztrik, A.G. Ristvey, E. Lichtenberg, M.W. van Iersel, M. Chappell, W.L. Bauerle, G. Kantor, D. Kohanbash, T. Martin and L. Crawford. 2015. Demonstrated benefits of using sensor networks for automated irrigation control in nursery and greenhouse production systems. VIII International Irrigation Symposium, Lleida, Spain. 8-12th June, 2015. *Acta Hort.* (In Press).

Starry, O., J.D. Lea-Cox, A.G. Ristvey and S. Cohan. 2016. Parameterizing a Water-Balance Model for Predicting Stormwater Runoff from Green Roofs. *J. Hydrol. Eng.* 21 (12):04016046.

Solano, L., A.G. Ristvey, J.D. Lea-Cox, and S.M. Cohan. 2012. Sequestering zinc from recycled crumb rubber in extensive green roof media. *Ecological Engineering*. 47: 284- 290.

Majsztrik, J., A. G. Ristvey and J.D. Lea-Cox. 2010. Water and Nutrient Management in the Production of Container-Grown Ornamentals. *Hort Reviews*. J. Janick (Ed.) J. Wiley, NJ. 38:253-296.

Lea-Cox, J. D., A. G. Ristvey, D.S. Ross and G. Kantor. 2010. Wireless Sensor Networks to Precisely Monitor Substrate Moisture and Electrical Conductivity Dynamics in a Cut- Flower Greenhouse Operation. *Acta Hort.* 893:1057-1063.

Lea-Cox, J. D., A. G. Ristvey, F. R. Arguedas-Rodriguez, D. S. Ross, J. Anhalt and G. Kantor. 2008. A Low-cost Multihop Wireless Sensor Network, Enabling Real-Time Management of Environmental Data for the Greenhouse and Nursery Industry. *Acta Hort.* 801: 523- 529.

Ristvey, A. G., J. D. Lea-Cox and D. S. Ross. 2007. Nitrogen and Phosphorus Uptake- Efficiency and Partitioning of Container Grown Azalea During Spring Growth. *Journal of the American Society for Horticultural Science*. 132:563-571.

Ristvey, A.G., J. D. Lea-Cox and D.S. Ross. 2004. Nutrient uptake, partitioning and leaching losses from container-nursery production systems. *Acta Hort.* 630:321-328.