CURRICULUM VITAE

DONALD R. YOUNG

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RESEARCH INTERESTS

My research interests focus on the ecology of coastal plants, with a primary emphasis on woody species, especially those that form shrub thickets. A broad objective is to understand the adaptive mechanisms for survival and success and the interplay of physical stresses and biotic interactions on plant distributions across coastal landscapes. I am currently studying the mechanisms that facilitate shrub expansion into coastal grasslands. My studies are placed within the context of climate change, especially sea-level rise and coastal storms.

EDUCATION

Clarion University of Pennsylvania	B.S. in Biology 1975
University of Wyoming	M.S. in Botany 1979
University of Wyoming	Ph.D. in Botany 1982

PROFESSIONAL EXPERIENCE

Associate Dean of Finance and Administration Aug 2016 - present
College of Humanities and Science, VCU

Chairman July 2009 – Aug. 2016
Department of Biology, VCU

Associate Chairman July 2003 – June 2009
Department of Biology, VCU

Professor Aug. 1997 – present
Department of Biology, VCU

Director of Graduate Program July 1995 – June 2003
Department of Biology, VCU

Associate Professor Aug. 1990 – Aug. 1997
Department of Biology, VCU

Summer Faculty Fellowship June 1991 – Aug. 1991
NASA, Stennis Space Center, Mississippi

Assistant Professor Aug. 1984 – July 1990
Department of Biology, VCU

Postdoctoral Research Scholar Oct. 1983 – July 1984
Division of Environmental Biology, UCLA
Dr. Park S. Nobel
Supply Assistant Professor Sept. 1982 – Sept. 1983
Department of Botany, University of Wyoming

VCU SERVICE

Department Committees:
Graduate Academic, 1984-86, 1988-90, 1995-2000 (chair)
Budget, 1986-88, 1990-92 (chair), 1992-95
Greenhouse, 1985-87 (chair), 1988-2009
Cell Biology Course Content, 1985-86
Plant Science Three Position Search, 1986-87
Dr. Gregory Garman Tenure and Promotion, 1990-91
Dr. John Pagels Promotion, 1992-93 (chair)
Life Science Building Pre-Planning, 1992-93
Potential Ph.D. Program, 1992-93
Environmental Lecturer Search, 1992-93
Plant Systematist Search, 1994-95 (chair)
Dr. David Karowe Tenure and Promotion, 1995-96
Population Ecologist Search, 1996-97 (chair)
Dr. Gregory Plunkett Tenure and Promotion, 2001-02
Integrative Life Sciences PH.D. Program Development, 2002-03
Dr. Karen Kester Tenure and Promotion, 2002-03
River Ecologist Search, 2003-04
Dr. Paul Bukaveckas Tenure, 2004-05 (chair)
Plant Evolutionary Development Search, 2004-05
Director of Introductory Biology Search, 2004-05 (chair)
Vertebrate Ecologist Search, 2005-06 (chair)
Ecosystem Ecologist Search, 2005-06
Biology Instructor Search, 2005-06
Biology Instructor Search, 2006-07 (chair)
Dr. Edward Crawford Promotion 2007-08
Dr. Wan-Ling Chiu 3rd Year Review, 2007-08
Dr. James Vonesh 3rd Year Review, 2008-09
Plant Systematist Search, 2008-09 (chair)

Life Sciences Committees:

Rice Center Steering Committee, 2006-present
Rice Center Education Building Design, 2006-2008

College of Humanities and Sciences Committees:
Library, 1984-88
Ginter Node Advisory, 1985-86
Computer Advisory, 1988-1994
Technology, 1994-95

Graduate Advisory, 1987-89, 1995-2003
Faculty Council, 1987-89
Pre-Medical Advisory, 1987-1990
Promotion and Tenure, 2003-2006
Student-Athlete Advising Coordinator Search, 2004
Dept. of Forensic Science Chair Search, 2012
Assistant Dean for Academic Affairs Search, 2012
Equity and Diversity, 2012-present (chair 2012-2015)
Dr. Glenn Hurlbert, Chair of Mathematic and Applied Mathematics, Peer Committee for Tenure, 2014
CHS STEM Building Initial Planning, 2015
CHS STEM Building Phase 2 Planning, 2016 (chair)

University Committees:

Tenure and Promotion Guidelines, 1998-1999
Graduate Council 1999-2000
Graduate Council Committee on Internal Review 1999-2000 (chair)
Intercollegiate Athletic Council, 2005-present
Director of Diversity and Programing Search 2013
LGBTQ Coordinator Search 2013
Assistant Vice President for Safety and Risk Management Search 2013-14
Inclusive Learning Council 2013-2016
Life Sciences Programs Review 2016
Building Inclusive Communities Steering Committee 2016

PROFESSIONAL SERVICE

Student Research Award Committee, ASB, 1991-93, chair 1993
NSF panel member, Conservation & Restoration Biology Program, 1993-95
External T&P reviewer, Dr. Guofan Shao, Purdue University, 2001-2002
Associate Editor, American Midland Naturalist, 1995-1999
Editorial Board, Journal of Coastal Research, 1996-present
Nature Reader Adviser Panel, 2009-2011
Virginia Board of Professional Soil Scientists and Wetlands Professionals, 2002-2005
Southern University Research Association, Coastal and Environmental Research Committee, 2011-present
Ad hoc manuscript reviews: American Journal of Botany, American Midland Naturalist, Biotropica, Canadian Journal of Botany, Canadian Journal of Forest Research, Castanea, Ecological Applications, Ecological Indicators, Ecology, Ecohydrology, Ecosphere, Ecosystems, Environmental and Experimental Botany, Estuaries and Coasts, International Journal of Plant Sciences, Journal of Agriculture Science and Technology, Journal of Biological Chemistry, Journal of Coastal Research, Journal of Ecology, Journal of Experimental Botany, Journal of Hydrometeorology, Journal of Microscopy, Journal of the Pennsylvania Academy of Science, Journal of the Torrey Botanical Society, Journal of Vegetation Science, Hydrology and Earth System Sciences Discussions, Native Plant Journal, Oecologia, Physiologia

Plantarum, Plant and Soil, Plant Ecology, Range Ecology and Management, Scandinavian Journal of Forest Research, Soil Biology and Biochemistry, South African Journal of Botany, Tall Timbers Fire Ecology Conference Proceedings, Virginia Journal of Science, Wetlands

Ad hoc proposal reviews: Australian Research Council, National Geographic Society, NSF, USDA, SERDP, NERR, DOE, ARO, Sea Grant

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science
Coastal Education and Research Foundation
Ecological Society of America

PENDING PROPOSALS

National Science Foundation, 2017-2018, PREEVENTS Track 1 Workshop: Enhancing future resilience of coastal communities on the Chesapeake Bay and the Eastern Shore of Maryland and Virginia. Multi-collaborative proposal involving Southern Universities Research Association (SURA) as the lead.

National Science Foundation, 2015-20120, $2,686,178, NRT: ARTiculating ecology and environmental sciences, lead co-PI with Daniel McGarvey managing PI, six other VCU faculty.

GRANT SUPPORT

VCU Quest Global Impact Award, 2014, $14,381, VCU-University of Cordoba (UCO) collaboration: development of a synthetic, complementary degree program focusing on science of the James and Guadalquivir river ecosystems. Co-PIs: Dr. Julie Zinnert and Dr. Leonard Smock.

National Science Foundation, 2013-2016, $577,413, Collaborative research: the role of ecomorphodynamic feedbacks in barrier island response to climate change. Co-PI with Dr. Laura Moore, Univ. of North Carolina, Chapel Hill. VCU funds $99,276.

National Science Foundation (subcontract through the University of Virginia), 2012-2018, $210,000, LTER VI: barrier island vegetation alternate stable states and threshold responses.

Army Research Office, 2010-1012, $234,994, Combined fluorescence and reflectance remote sensing of plants to detect UXOs.

DOE NICCR, 2009-2010, $249,413, Collaborative research: biogeomorphic controls on barrier island evolution in response to climate change. Co-Pi with Dr. Laura Moore, Univ. of Virginia, VCU funds, $107,852.

Army Research Office, 2006-2010, $341,119, Remote sensing plant stress using combined fluorescence and reflectance measurements for the early detection of defoliants within the battlefield environment: a prediction of mobility.

National Science Foundation (subcontract through the University of Virginia), 2006-2012, $125,000, LTER V: barrier island shrub thicket dynamics and landscape level interactions.

Virginia Division of Natural Heritage, 2005, $9,000, Re-evaluation of the Swash Bay restoration sites for effectiveness of past Phragmites control and native plant establishment efforts.

Virginia Division of Natural Heritage, 2004, $19,000, Phragmites expansion on Parramore Island and at the Eastern Shore Wildlife Refuge.

US Fish and Wildlife Service, 2004-2007, $33,228, Experimental treatment effects on Japanese honeysuckle and fennel and response of native plants.

Virginia Division of Natural Heritage, 2003, $15,000, Response of Phragmites to disturbance by wildfire on Parramore Island.

Army Research Office, 2001-2002, $25,756, Fluorescence remote sensing and plant stress.

National Science Foundation (subcontract through the University of Virginia), 2000-2006, $59,994, LTER IV: Spatial/temporal in shrub colonization and growth.

Virginia Department of Environmental Quality, 2000-2002, $12,013, Evaluation of revegetation efforts on Swash Bay spoils.

Virginia Department of Environmental Quality, 1999, $35,626, Revegetation of coastal spoils in Swash Bay: the North Site.

Virginia Department of Environmental Quality, 1998, $12,722, Monitoring revegetated coastal spoils in Swash Bay.

Virginia Department of Environmental Quality, 1997, $27,000, Revegetation of coastal spoils on Swash Bay.

U.S. Fish and Wildlife through The Nature Conservancy, 1996, $3,000, Monitoring of herbicide treated stands of *Phragmites australis* along coastal Virginia.

Jeffress Memorial Trust, 1996-1998, $24,320, Interacting biotic mechanisms that control shrub establishment on Atlantic Coast barrier islands.

Virginia Department of Transportation, 1996-1999, $140,000, Creation of coastal wetland on Swash Bay dredge spoils: a joint proposal with The Nature Conservancy.

U.S. Fish and Wildlife through The Nature Conservancy, 1995, $5,000, Pre- and post-herbicide evaluation of *Phragmites australis* stands on Swash Bay dredge spoils.

National Science Foundation (subcontract through the University of Virginia), 1994, $18,000, Spatial variations in shrub thicket production.

National Science Foundation (subcontract through the University of Virginia), 1994-2000, $116,341, LTER III: Spatial variations in shrub growth on Hog Island.

National Science Foundation (subcontract through the University of Virginia), 1993, $18,000, *Myrica* gap dynamics on Hog Island.

Virginia Commonwealth University Grants-In-Aid Program, 1992, $6,931, Mycorrhizal associations for *Myrica cerifera* in a barrier island environment.

National Science Foundation, 1992-93, $17,999, Effects of storm overwash on *Myrica cerifera* at the Virginia Coast Reserve LTER site.

National Science Foundation, 1990-91, $10,000, Physiological recovery of an actinorhizal shrub, *Myrica cerifera*, from Hurricane Hugo.

National Geographic Society, 1990-91, $18,122, Ecology of *Myrica* thickets on Atlantic Coast barrier islands.

National Science Foundation Research Opportunity Award, 1989, $24,549, Effects of summer drought on *Myrica* water relations and photosynthesis at the Virginia Coast Reserve, LTER site. (Dr. Raymond Dueser of UVA, project director.)

Virginia Commonwealth University Grants-In-Aid Program, 1985, $4,969, Daily and seasonal variation in the environment and water relations of the understory tree *Asimina triloba* (pawpaw).

Wyoming Water Research Center, 1983, $52,650, Evaluation of factors and models pertinent to estimating natural losses in Wyoming streams. (8 PI's)

Wyoming Water Research Center and Office of Water Policy, U.S. Dept. of Interior, 1983, $10,559, Water relations of high-elevation willow phreatophytes in Wyoming. (Dennis Knight, co-PI)

PUBLICATIONS IN REFEREED JOURNALS

Bissett, S.N., J.C. Zinnert and D.R. Young. 2016. Woody expansion facilitates liana expansion and affects physical structure in temperate coastal communities. Ecosphere 7(6) Article: e01383.

Via S.M., J.C. Zinnert and D.R. Young. 2016. Legacy effects of explosive contamination on vegetative communities. Open Journal of Ecology 6:496-508.

Zinnert, J.C., S.A. Shiflett, S.M. Via, S.N. Bissett, B. Dows, P.J. Manley and D.R. Young. 2016. Temporal dynamics in barrier island upland vegetation: the overlooked coastal landscape. Ecosystems 19: 685-697.

Zinnert JC, Brantley ST, and DR Young. 2016. Correspondence: Bistability and the future of barrier islands. Nature Climate Change 6: 5-6.

Feagin, R.A., J. Figlus, J.C. Zinnert, J. Sigren, M.L. Martínez, R. Silva, W.K. Smith, D. Cox, D.R. Young and G.A. Carter. 2015. Go with the flow or against the grain? The promise of nature-based solutions for protecting beaches, dunes, and barrier islands. Frontiers of Ecology and Environment 13: 203-210.

Via, S.M., J.C. Zinnert and D.R. Young. 2014. Differential effects of two explosive compounds on seed germination and seedling morphology of a woody shrub, *Morella cerifera.* Ecotoxicology 24: 194-201

Shiflett, S.A., J.C. Zinnert and D.R. Young. 2014. Coordination of leaf N, anatomy, photosynthetic, capacity and hydraulics enhances evergreen expansive potential. Trees 28: 1635-1644.

Brantley, S.T., S.N. Bissett; D.R. Young; C.W. Wolner and L.J. Moore. 2014. Barrier island morphology and sediment characteristics affect the recovery of dune building grasses following storm-induced overwash. PLOS ONE Vol 9, Issue 8, e104747.

Bissett, S.N., J.C. Zinnert and D.R. Young. 2014. Linking habitat with associations of woody vegetation and vines on tow mid-Atlantic barrier islands. Journal of Coastal Research 30: 843-850.

Shiflett, S.A., J.C. Zinnert and D.R. Young. 2014. Conservation of functional traits leads to shrub expansion across a chronosequence of shrub thicket development. Trees 28:849-858.

Guglielmo, L., F. Azzaro, C. Baviera, A. Bergamasco,S.N. Bissett, C. Brugnano, G. Caruso, F. Decembrini, A.L. Garey, A. Granata, C. Cugliandolo, V. Lentini, M.A. Lo Gullo, T.L. Maugeri, M. Pansera, F. Raimondo, L.P. Rodriguez-Vlades, L.A. Smock, S. Spano, P. Trifilo, J.K. Vick, D.R. Young, G. Zagami, J.C. Zinnert and R. Minutoli. 2014. Multidisciplinary ecological assessment of the Alcantara River (Sicily, Italy) using Bioindicators. Marine and Freshwater Research 65: 283-305.

Via, S.M., J.C. Zinnert, A.D. Butler and D.R. Young. 2014. Comparative plant physiological responses to RDX, TNT, and Composition B contaminated soils. Environmental and Experimental Botany 99: 67-74.

Shiflett, S.A., J.C. Zinnert and D.R. Young. 2013. Seasonal patterns of light availability and light use of broadleaf evergreens in a deciduous forest understory: Potential mechanisms for expansion. Open Journal of Ecology 3: 151-160.

Shiflett, S.A., J.C. Zinnert and D.R. Young. 2013. Changes in composition and structure during restoration of maritime communities. Journal of the Torrey Botanical Society 140: 89-100.

Vick, J.K. and D.R. Young. 2013. Comparative responses of a non-N-fixing shrub and an actinorhizal N-fixing shrub to N fertilization. Plant and Soil 371: 377-385.

Wolner, C.W., L.J. Moore, D.R. Young, S.T. Brantley, S.N. Bissett and R.A. McBride. 2013. Ecomorphodynamic feedbacks and barrier island response to disturbance: Insights from the Virginia barrier islands, Mid-Atlantic Bight, USA. Geomorphology 199: 115-128.

Zinnert, JC, SA Shiflett and DR Young. 2013. Plant functional traits of a shrub invader relative to sympatric native shrubs. Ecosphere 4(10): Article 119.

Zinnert, J.C., S. Via and D.R. Young. 2013. Distinguishing natural from anthropogenic stress in plants: physiology, fluorescence and hyperspectral reflectance. Plant and Soil 366:133–141.

Aguilar, C., J.C. Zinnert, M.J. Polo and D.R. Young. 2012. NDVI as an indicator for changes in water availability to woody vegetation. Ecological Indicators 23: 290-300.

Brantley, S.R., J.C. Naumann and D.R. Young. 2011. Application of hyperspectral vegetation indices to detect variations in high leaf area index temperate shrub thicket canopies. Remote Sensing of Environment. 115: 514-523.

Nordstrom N.L. Jackson, N.C. Kraus, T.W. Kana, R. Bearce, A. Hecht, L.M. Bocamazo, D.R. Young, and H.A. De Butts. 2011. Enhancing geomorphic and biologic functions and values on backshores and dunes of developed shores: a review of opportunities and constraints. Environmental Conservation 38: 288-302.

Vick, J.K. and D.R. Young. 2011. Spatial variation in environment and physiological strategies for forb distribution on coastal dunes. Journal of Coastal Research 27: 1113-1121.

Young, D.R., S.T. Brantley, J.C. ZInnert, and J.K. Vick. 2011. Landscape position and habitat polygons in a dynamic coastal environment. Ecosphere 2(6): Article 71.

Zinnert, J.C., S.A. Shiflett, J.K. Vick and D.R. Young. 2011. Woody vegetative cover dynamics in response to recent climate change on an Atlantic coast barrier island: a remote sensing approach. Geocarto International 26: 595-612.

Brantley, S.T. and D.R. Young. 2010. Shrub expansion stimulates soil C and N storage along a coastal soil chronosequence. Global Change Biology 16: 2052-2061

Brantley, S.T. and D.R. Young. 2010. Linking light attenuation, sunflecks and canopy architecture in mesic shrub thickets. Plant Ecology 206: 225-236.

Feagin, R.A., W.K. Smith, N.P. Psuty, D.R.Young, M.L Martinez, G.A. Carter, K.L. Lucas, J.C Gibeaut, J.N. Gemma and R.E. Koske. 2010. Barrier islands: coupling anthropogenic stability with ecological sustainability. Journal of Coastal Research 26: 987-992.

Naumann, J.C., J.E. Anderson and D.R. Young. 2010. Remote detection of plant physiological responses to TNT soil contamination. Plant and Soil 329: 239-248

Naumann, J.C., S.N. Bissett, D.R. Young, J. Edwards, and J.E. Anderson. 2010. Diurnal patterns of photosynthesis, chlorophyll fluorescence, and PRI to evaluate water stress in the invasive species, *Eleangus umbellata* Thunb. Trees 24: 237–245.

Shiflett, S.A. and D.R. Young. 2010. Avian seed dispersal on Virginia barrier islands: potential influence on vegetation community structure and patch dynamics. American Midland Naturalist 164: 91-106.

Brantley, S.T. and D.R. Young. 2009. Contribution of sunflecks is minimal in expanding shrub thickets compared to temperate forests. Ecology 90: 1021-1029.

Naumann, J.D., D.R. Young, and J.E. Anderson. 2009. Spatial variations in salinity stress across a coastal landscape using vegetation indices derived from hyperspectral imagery. Plant Ecology 202: 285-297.

Vick, J.K. and D.R. Young. 2009. Corticular photosynthesis: a mechanism to enhance shrub expansion in coastal environments. Photosynthetica 47: 26-32.

Brantley, S.T. and D.R. Young. 2008. Shifts in litterfall and dominant nitrogen sources after expansion of shrub thickets. Oecologia 155: 337-345.

Knapp, A.K., J.M. Briggs, S.L. Collins, S.R. Archer, M.S. Bret-Harte, B.E. Ewers, D.P. Peters, D.R. Young, G.R. Shaver, E. Pendall, and M.B. Cleary. 2008. Shrub encroachment in North American grasslands: shift in growth form dominance rapidly alters control of ecosystem carbon inputs. Global Change Biology 14: 615-623.

Naumann, J.D., J.E. Anderson, and D.R. Young. 2008. Linking physiological responses, chlorophyll fluorescence and hyperspectral imagery to detect salinity stress using the physiological reflectance index in the coastal shrub, *Myrica cerifera*. Remote Sensing of Environment. 112: 3865-3875.

Naumann, J.C., D.R. Young, and J.E. Anderson. 2008. Leaf fluorescence, reflectance, and physiological response to freshwater and saltwater flooding in the evergreen shrub, *Myrica cerifera*. Environmental and Experimental Botany 63: 402-409.

Brantley, S.T. and D.R. Young. 2007. Leaf area index and light attenuation in rapidly expanding shrub thickets. Ecology 88: 524-530.

Naumann, J.C. and D.R. Young. 2007. Relationship between community structure and seed bank to describe successional dynamics of an Atlantic Coast maritime forest. Journal of the Torrey Botanical Society 134: 89-98.

Naumann, J.C., D.R. Young, and J.E. Anderson. 2007. Linking leaf chlorophyll fluorescence properties to physiological responses for stress detection in coastal plant species. Physiologia Plantarum 131: 422-433.

Young, D.R., J.H. Porter, C.M. Bachmann, G. Shao, R.A. Fusina, J.H. Bowles, D. Korwan, and T.F. Donato. 2007. Cross-scale patterns in shrub thicket dynamics in the Virginia barrier complex. Ecosystems 10: 854-863.

Barimo, J.F. and D.R. Young. 2002. Grasshopper (Orthoptera: Acrididae) - plant - environmental interactions in relation to zonation on an Atlantic Coast barrier island. Environmental Entomology 31: 1158-1167.

Joy, D.A. and D.R. Young. 2002. Promotion of mid-successional seedling recruitment and establishment by *Juniperus virginiana* in a coastal environment. Plant Ecology 160: 125-135.

Wijnholds, A.E. and D.R. Young. 2000. Interdependence of the host plant, *Myrica cerifera*, and the actinomycete, *Frankia*, in a coastal environment. Journal of Coastal Research 16: 139-144.

Crawford, E.R. and D.R. Young. 1998. Gap dynamics within shrub thickets on an Atlantic Coast barrier island. American Midland Naturalist 140: 68-77.

Crawford, E.R. and D.R. Young. 1998. Spatial/temporal variations in shrub thicket soil seed banks on an Atlantic Coast barrier island. American Journal of Botany 85: 1739-1744.

Shao, G., D.R. Young and J.H. Porter. 1998. An integration of remotes sensing and GIS to examine the responses of shrub thicket distributions to shoreline changes on Virginia barrier islands. Journal of Coastal Research 14: 299-307.

Martin, D.W. and D.R. Young. 1997. Small-scale distribution and salinity response of *Juniperus virginiana* on an Atlantic Coast barrier island. Canadian Journal of Botany 75: 77-85.

Tolliver, K.S., D.W. Martin and D.R. Young. 1997. Freshwater and saltwater flooding response for woody species common to barrier island swales. Wetlands 17: 84-92.

Erickson, D.L. and D.R. Young. 1995. Salinity response, distribution, and possible dispersal of a barrier island strand glycophyte, *Strophostyles umbellata* (Fabaceae). Bulletin of the Torrey Botanical Club 122: 95-100.

Semones, S.W. and D.R. Young. 1995. VAM association in the actinorhizal shrub *Myrica cerifera* on a Virginia, USA barrier island. Mycorrhiza 5: 423-429.

Shao, G., H.H. Shugart and D.R. Young. 1995. Simulation of transpiration sensitivity to environmental changes for shrub (*Myrica cerifera*) thickets on a Virginia barrier island. Ecological Modeling 78: 235-248.

Tolliver, K.S., D.M. Colley and D.R. Young. 1995. Inhibitory effects of *Myrica cerifera* on *Pinus taeda*. American Midland Naturalist 133: 256-263.

Young, D.R., G. Shao and M.M. Brinson. 1995. The impact of the October 1991 northeaster storm on barrier island shrub thickets (*Myrica cerifera*). Journal of Coastal Research 11: 1322-1328.

Young, D.R., G. Shao and J.H. Porter. 1995. Spatial and temporal growth dynamics of barrier island shrub thickets. American Journal of Botany 82: 638-645.

Young, D.R., D.L. Erickson and S.W. Semones. 1994. Salinity and the small-scale distribution of three barrier island shrubs. Canadian Journal of Botany 72: 1365-1372.

Carter, G.A. and D.R. Young. 1993. Foliar spectral reflectance and plant stress on a barrier island. International Journal of Plant Science 154: 298-305.

Johnson, S.R. and D.R. Young. 1993. Factors contributing to the decline of *Pinus taeda* on a Virginia barrier island. Bulletin of the Torrey Botanical Club 120: 431-438.

Johnson, S.R. and D.R. Young. 1992. Variation in tree ring width in relation to storm activity for mid-Atlantic barrier island populations of *Pinus taeda*. Journal of Coastal Research 8: 99-104.

Sande, E. and D.R. Young. 1992. Effect of sodium chloride on growth and nitrogenase activity in seedlings of *Myrica cerifera* L. New Phytologist 120: 345-350.

Young, D.R. 1992. Photosynthetic characteristics and potential moisture stress for the actinorhizal shrub, *Myrica cerifera*, on a Virginia barrier island. American Journal of Botany 79: 2-7.

Young, D.R., E. Sande and G.A. Peters. 1992. Spatial relationships of *Frankia* and *Myrica cerifera* on a Virginia, USA barrier island. Symbiosis 12: 209-220.

Knapp, A.K., W.K. Smith and D.R. Young. 1989. Importance of intermittent shade to the ecophysiology of subalpine herbs. Functional Ecology 3: 753-758.
Payne, J.L., D.R. Young and J.F. Pagels. 1989. Plant community characteristics associated with the endangered northern flying squirrel, *Glaucomys sabrinus*, in the Southern Appalachians, U.S.A. American Midland Naturalist 121: 285-292.
Lau, R.R. and D.R. Young. 1988. Influence of physiological integration on survivorship and water relations in a clonal herb. Ecology 69: 215-219.
Silverman, F.P., D.R. Young and P.S. Nobel. 1988. Effects of applied NaCl on *Opuntia humifusa*. Physiologia Plantarum 72: 343-348.
Turner, G.D., R.R. Lau and D.R. Young. 1988. Effect of acidity on germination and seedling growth of *Paulownia tomentosa*. Journal of Applied Ecology 25: 561-567.
Young, D.R. 1987. Daily and seasonal variations in the water relations of the understory tree, *Asimina triloba*. Acta Oecologia/Oecologia Plantarum 8: 59-68.
Young, D.R. and J.B. Yavitt. 1987. Differences in leaf structure, chlorophyll and nutrients for the understory tree *Asimina triloba*. American Journal of Botany 74: 1487-1491.
Young, D.R. and P.S. Nobel. 1986. Predictions of soil water potentials in the north-western Sonoran Desert. Journal of Ecology 74: 143-154.
Young, D.R. 1985. Crown architecture, light interception and stomatal conductance patterns for sympatric deciduous and evergreen species in a forest understory. Canadian Journal of Botany 63: 2425-2429.
Young, D.R., I.C. Burke and D.H. Knight. 1985. Water relations of high-elevation phreatophytes in Wyoming. American Midland Naturalist 114: 384-392.
Young, D.R. 1985. Microclimatic effects on water relations, leaf temperatures and the distribution of *Heracleum lanatum* at high elevations. American Journal of Botany 72: 357-364.
Fahey, T.J. and D.R. Young. 1984. Soil and xylem water potential and soil water content in contrasting *Pinus contorta* ecosystems, southeastern Wyoming, USA. Oecologia 61: 346-351.
Smith, W.K., D.R. Young, G.A. Carter, J.L. Hadley and G.M. McNaughton. 1984. Autumn stomatal closure in six conifer species of the Central Rocky Mountains. Oecologia 63: 237-242.
Smith, W.K., A.K. Knapp, J.A. Pearson, J.H. Varman, J.B. Yavitt and D.R. Young. 1983. Influence of microclimate and growth form on plant temperatures of early spring species in a high-elevation prairie. American Midland Naturalist 109: 380-389.
Young, D.R. 1983. Comparison of intraspecific variations in the reproduction and photosynthesis of an understory herb, *Arnica cordifolia*. American Journal of Botany 70: 728-734.
Young, D.R. and W.K. Smith. 1983. Effect of cloudcover on photosynthesis and transpiration in the subalpine understory species, *Arnica latifolia*. Ecology 64: 681-687.
Young, D.R. and W.K. Smith. 1982. Simulation studies of the influence of understory location on the transpiration and photosynthesis of *Arnica cordifolia* on clear days. Ecology 63: 1761-1770.

Young, D.R. and W.K. Smith. 1980. Influence of sunlight on photosynthesis, water relations, and leaf structure in the understory species, *Arnica cordifolia*. Ecology 60: 1380-1390.

Young, D.R. and W.K. Smith. 1979. Influence of sunflecks on the temperature and water relations of two subalpine understory congeners. Oecologia 43: 195-205.

PUBLISHED PROCEEDINGS

Mossaro, R., J. Zinnert, J. Anderson, J. Edwards, E. Crawford and D. Young. 2012. LIDAR flecks: modeling the influence of canopy type on tactial foliage penetration by airborne, active sensor platforms. Proceedings of SPIE 8360: 08, 1-1, Baltimore, MD.

Wolner, C.W.V., L.J. Moore, D.R. Young, S.T. Brantley, S.N. Bissett, M.D. Wilson and BD. Watts. 2011. Dune builders vs. overwash maintainers: ecomorphodynamic feedbacks on the Virginia Coast Reserve barrier islands. Pgs 258-271 In: P. Wang, J.D. Rosati and T.M. Roberts (eds.) Proceedings of the Coastal Sediments '11. Miami, FL.

Nelson, J.D., J.C. Zinnert., J.E. Anderson, E. Mendoza and D.R. Young. 2010. Remote lifetime imaging – advanced technology for vegetation fluorescence sensing. Proceedings 4th International Workshop on Remote Sensing of Vegetation Fluorescence, Valencia, Spain.

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BOOK CHAPTERS

Young, D.R. 2006. Estimating aboveground net primary production in shrub-dominated ecosystems. In: T.J. Fahey and A.K. Knapp (eds.) Principles and standards for measuring net primary production in long-term ecological studies. Oxford University Press, NY.

Neufeld, H.S. and D.R. Young. 2003. Physiological ecology of understory herbs. Pgs. 38-90, In: F. Gilliam and M. Roberts (eds.) The herbaceous layer in forests of eastern North America. Oxford Press

Neufeld, H.S. and D.R. Young. 2014. Physiological ecology of understory herbs. Pgs. 35-95, In: F. Gilliam (ed.) The herbaceous layer in forests of eastern North America, 2nd edition. Oxford University Press, New York.

MANUSCRIPTS IN PRESS OR IN REVIEW

Via S.M., J.C. Zinnert and D.R. Young. Multiple metrics quantify and differentiate responses of vegetation to Composition B., *in press*.

Zinnert J.C., J.A. Stallins, S.T.Brantley and D.R. Young. Cross-scale studies, ecology, and the future of barrier islands. Bioscience, *in press.*

Brown J.K., J.C. Zinnert and D.R. Young. Emergent interactions influence functional traits and success of dune building ecosystem engineers. Journal of Plant Ecology, *in press.*

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Young, D.R., R.D. Dueser, R.M. Erwin, F.P. Day, J.H. Porter and N.D. Moncrief. Barrier island landscapes: constant change. In: Ecological dynamics of the Virginia Coast Reserve, *in review.*

INVITED PAPERS AND SEMINARS

1981 – Ecological Society of America symposium, “Ecology of forest understory plants”
1985 – Department of Botany, University of Maryland
1987 – Blandy Experimental Farm and Field Station, University of Virginia
1991 – Department of Biological Sciences, Old Dominion University
1992 – Department of Environmental Sciences, University of Virginia
1996 – Department of Biology, Virginia Tech University
1997 – Coastal Ecology Institute, Louisiana State University
1998 – Division of Biology, Kansas State University
1999 – Department of Biological Sciences, Old Dominion University
2001 – Department of Plant Sciences, Arizona State University
2001 – Department of Biology, Appalachian State University
2001 – Department of Biology, University of Richmond
2004 – Department of Botany, North Carolina State University
2004 – Eastern Shore Laboratory, Virginia Institute of Marine Sciences
2005 – LTER Coordinating Committee
2007 – Department of Biology, University of Richmond
2007 – Workshop on “Vegetation stress detection with remote sensing imagery,” Instituto de Agricultura Sostenible, University of Cordoba, Spain
2008 – Un mar de culturas: Sicilia, Andalucia y el Mediterraneo, University of Cordoba, Spain
2008 – Center for Integrative Mediterranean Studies, University of Messina, Sicily
2010 – SPIE: Detection of Sensing of Mines, Explosive Objects, and Obscured Targets XV, Orlando, FL
2010 – Bald Head Island, NC Community Association
2011 – Department of Viticulture, University of Rioja, Spain
2011 – Department of Agronomy, University of Cordoba, Spain
2011– Center for Integrative Mediterranean Studies, University of Cordoba, Spain

2012 - Bald Head Island, NC Community Association
2013 - Department of Biological Sciences, Old Dominion University
2013 – 44th Binghamton Geomorphology Symposium, Newark, NJ
2014 – NSF LTER Science Council, Manhattan, KS
2016 – Faculty of Sciences, University of Cordoba, Spain

CONTRIBUTED PAPERS*

1978 – Ecological Society of America
1979 – Ecological Society of America; Southwestern and Rocky Mountain AAAS
1980 – Ecological Society of America; Southwestern and Rocky Mountain AAAS
1981 – Southwestern and Rocky Mountain AAAS
1982 – Colorado-Wyoming Academy of Sciences; Ecological Society of America (2)
1983 – Colorado-Wyoming Academy of Sciences; Ecological Society of America
1984 – Ecological Society of America
1985 – Botanical Society of America
1986 – Ecological Society of America
1987 – Association of Southeastern Biologists (3); Ecological Society of America
1988 – Ecological Society of America
1989 – Association of Southeastern Biologists (2); Virginia Academy of Sciences (2)
1990 – Botanical Society of America (2); Ecological Society of America (2)
1992 – Ecological Society of America
1993 – Association of Southeastern Biologists (3); 8th Annual United States Landscape Ecology Symposium; Ecological Society of America (3); Longterm Ecological Research All Scientists Meeting (3); 9th International Conference on *Frankia* and Actinorhizal Plants;Virginia Coast Reserve All Scientists Meeting (4)
1994 – Ecological Society of America; Virginia Academy of Sciences
1995 – Association of Southeastern Biologists (3); Ecological Society of America (2); Virginia Coast Reserve All Scientists Meeting (4)
1996 – Association of Southeastern Biologists (2); Ecological Society of America (2); Virginia Coast Reserve All Scientists Meeting (4)
1997 – Ecological Society of America (2)
1998 – Ecological Society of America (3)
1999 – Ecological Society of America
2000 – Longterm Ecological Research All Scientists Meeting
2001 – American Institute of Biological Sciences, Virginia Coastal Partners Workshop, Virginia Dept. of Environmental Quality
2003 – Longterm Ecological Research All Scientists Meeting
2004 – Southeastern Ecology and Evolution Conference, Ecological Society of America
2005 – Ecological Society of America (2)
2006 – Ecological Society of America (3), Longterm Ecological Research All Scientists Meeting (5)
2007 – Ecological Society of America (4)
2008 – Ecological Society of America (5)
2009 – Ecological Society of America (5), Longterm Ecological Research All Scientists Meeting (2)
2010 – Association of Southeastern Biologists (4); Ecological Society of America (5); 4th International Workshop on Remote Sensing of Vegetation Fluorescence.

2011 – Ecological Society of America (5)
2012 – Mid-Atlantic Ecological Society of America (2),
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2013 – Association of Southeastern Biologists (3), International Phytotechnology Conference
2014 – Ecological Society of America (3), International Phytotechnology Conference (2), American Geophysical Union (3)
2015 – Ecological Society of America (4), Longterm Ecological Research All Scientists Meeting (3), International Phytotechnology Conference

***** 88 of the papers were presented by my graduate students.

GRADUATE STUDENTS TRAINED

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- Recipient of the Odum Award for the outstanding ecology paper presented by a student at the 1987 Association of Southeastern Biologist meeting
- JD in Environmental Law, University of Virginia, 1991
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- VCU Dept. of Biology Graduate Student of the Year for 1994
- PhD in Botany, University of Georgia, 2000
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- PhD in Ecology, Evolution and Conservation Biology, University of Nevada at Reno, 1999
- Range and wildlife management specialist, Los Angeles Department of Water and Power

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- PhD in Biology, Old Dominion University, 2002
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- Wetland specialist, private consulting firm, Philadelphia, PA

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- VCU Dept of Biology Graduate Student of the year for 2004
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- Assistant Scientist, John W. Jones Ecological Research Foundation

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COURSES TAUGHT

General Biology (U)
Ecology (U)
Honors Ecology (U)
Ecology Lab (U)
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Barrier Island Ecology (U/G)
Physiological Ecology (G)
Quantitative Ecology (G)
Biological Complexity, directed (G)
Research Seminar in Ecology (G)
Capstone Seminar (U)