

Board of Editors: *Ecology* and *Ecological Monographs* (1982-85)
Editorial Board: *Vegetatio* (1981-1989)
Reviewer: Over 60 professional journals and publishing firms.
Reviewer: Over 20 granting agencies

Examples of professional service and leadership:

American Institute of Biological Science

BioOne Advisory Committee (1996-2000)
Publications Committee (2007-2009)

Biodiversity Information Standards (TDWG)

Taxonomic Names and Concepts Group (2006-p)
Biological Observations Standards Group (2007-p)
Vegetation Observation Data Exchange Task Group, Co-Chair (2007-p)

Carolina Wetlands Association,

Science Committee (2015-2018)

Catawba Lands Conservancy

Scientific Advisory Committee (2007 - 2013)

Ecological Society of America

Member (1969-p)
Secretary (1992-1995)
Executive Committee (1992-1995)
Vegetation Section, Chair (1991-1992), Vice Chair (1990-1991), Secretary (1983-1984)
Southeastern Chapter, Chair (1984-1986), Vice Chair (1982-1983), Secretary (1976-1977)
Cooper Award Committee, Chair (1988-1991), Member (1985)
Special Committee on Awards, Chair (1985-1986)
Awards Committee (1988-1991)
Buell Award Committee (1982)
Editorial Board (1982-1985)
Historical Records Committee (2000-p)
JSTOR Advisory Committee (1997-2003)
Nominations Committee (1994-1995)
Program Committee (1984-1986, 1991-1995)
Publications Committee (1995-2009)
Special Committee on Administrative Reorganization of the Society (1993-1994)
Special Committee to Review the Forest Management Assessment Team Report (1993)
Panel on Vegetation Classification, Executive Committee (1994-p).

Friends of Plant Conservation

Board of Directors (2017-p)

Foundation for the Carolinas

Redlair Foundation, Board of Directors (2013-p)

Highlands Biological Station

Board of Directors (1990-93).

International Association for Vegetation Science

Member (1980-p)

President (2007-2011)

Vice President and Publication Officer (2011-2015)

Council, Elected member (1990-2019)

Awards Committee (2008-2011)

Publications Committee (1989-95, 2001-p)

Working Group for Ecoinformatics (2003-p), Chair (2003-2012)

Working Group for Vegetation Classification (2016-p), Steering Committee (2018-p)

North American Section (1983-p), Secretary (1983-86)

Annual Symposia & Meetings, Organizing Committee (1995, 1997, 1998, 2000, 2007, 2008, 2009, 2010, 2013, 2014, 2016).

National Ecological Observatory Network.

Plant Diversity and Phenology Technical Working Group (2017-p)

Data Standards Technical Working Group (2010-p)

Plant Diversity and Terrestrial Observation Working Group (2013-2017)

North Carolina Museum of Natural Sciences

Advisory Commission (2008-2016)

North Carolina Nature Conservancy

Board of Consultants (1985-2002)

Stewardship Committee (1987-1999)

North Carolina Plant Conservation Program

Redlair Stewardship Committee, Chair (2013-p)

Organization for Tropical Studies

Board of Directors (1987-1997, 2003-2013)

Southern Appalachians Botanical Society

Member (1975-p)

Journal Review Committee, Chair (2010-2012)

Southern Appalachian Highlands Conservancy

Member (1978-p)

Board of Directors (1982-1987)

U.S. Federal Geographic Data Committee

Subcommittee on Vegetation Classification (2000-p)

Subcommittee on Biological Nomenclature (2000-2005)

Selected synergistic activities and examples of professional leadership:

- 2011-p I collaborated with a broad group of international partners to establish the Global Index of Vegetation Plot Databases (GIVD) to facilitate aggregation of large datasets and advance ecoinformatics initiatives. (<http://GIVD.info>)
- 2008-p I am co-leading a working group co-sponsored by the National Center for Ecological Analysis and Synthesis and the iPlant Collaborative (now CyVerse) to pull together as an integrated data set of all available digital plant occurrence and co-occurrence records for the new world. This dataset contains in excess of 15,000,000 plant occurrence records representing close to 100,000 plant taxa and which is allowing our group and others to conduct novel analyses such as projection of the impact of scenarios of global change and analysis of patterns of diversity and co-occurrence in ecological communities spanning broad geographic distances. <http://www.nceas.ucsb.edu/featured/enquist>; <https://bien3.org/>; <http://tnrs.iplantcollaborative.org/>
- 2007-p I have led an effort to reorganize and revitalize the International Association for Vegetation Science. The assets of the organization increased from under \$50,000 to approximately \$270,000 during my 4-year term as President, and we have initiated numerous programs to modernize the organization and better serve its members. Our vision statement can be seen at <http://www.iavs.org/uploads/IAVS-Vision.pdf>.
- 2007-p I co-organized a set of international workshops and then worked with the core participants to develop VegX, an international XML data exchange standard for vegetation plot data. The resulting standard is now before TDWG for consideration as a new international data exchange standard. This standard should facilitate large-scale integration of vegetation plot data and allow for the first time examination of patterns of assembly of ecological communities globally using millions of plot records. <http://labs.bio.unc.edu/Peet/pubs/JVS-VegX.pdf>
- 2005-p I have worked with colleague Alan Weakley and former postdoc Xianhua Liu to create the first ever large-scale implementation of the taxon concept approach to biodiversity data integration in the form of the SE Floristic Atlas. This system combines roughly 2.5 million taxon occurrence records using approximately 80,000 taxon concept relationships pertaining to roughly 8500 taxa to integrate data of diverse provenance seamlessly for the region. It serves as a model for the future integration of taxonomically-linked data. <http://www.herbarium.unc.edu/seflora/firstviewer.htm>
- 1998-p I am organizer, director and PI of a collaborative program of the Ecological Society of America, the USGS, NatureServe, and the National Center for

Ecological Analysis and Synthesis to develop the information system and database architecture for a US National Vegetation Plot Database in support of both the U.S. National Vegetation Classification and the broader field of Ecoinformatics. <http://www.vegbank.org>

- 1994-p I proposed and organized (in collaboration with Dennis Grossman, Michael Jennings and Michael Barbour) the Ecological Society Vegetation Panel to provide professional oversight, review, evaluation, and standardization of vegetation classifications used by federal agencies, conservation organizations, and academic organizations. I continue to serve on the Executive Committee of the Panel. (<http://www.esa.org/vegweb/>)
- 1988-p I established and continue to coordinate the Carolina Vegetation Survey, a 30-year, multi-institution and agency collaboration dedicated to documentation of the natural vegetation of the Carolinas. We have had over 1100 volunteers participate in our field research events. (<http://www.bio.unc.edu/faculty/peet/lab/CVS/>)
- 2011-14 I collaborated with partners to design and create the Taxonomic Name Resolution Service, an informatics initiative to allow correction and standardization of plant names. (<http://tnrs.iplantcollaborative.org>)
- 2006-13 I have worked with the Ecosystem Enhancement Program of NC DENR and the US Army Corps of Engineers to develop new and more effective approaches to compensatory mitigation for wetland damage. Changes we have introduced are making the system more effective, less risk adverse, and saving the citizens of North Carolina millions of dollars. We have worked to facilitate adoption of our methods in other states such as West Virginia. <http://cvs.bio.unc.edu/tools/predicttargetveg-help/predicttargetveg-help.html>
- 2004-7 My colleagues and I collaboratively designed, reviewed and submitted for approval as an international data standard the Taxon Concept Schema (TCS). TCS is an XML schema for data exchange, now approved by TDWG as an international standard, and is designed to allow integration of data from multiple diverse sources where one name could refer to multiple taxa and one taxon could have multiple names. This is arguably the biggest impediment to large-scale data integration in the biological sciences. <http://rs.tdwg.org/ontology/voc/TaxonConcept>
- 1997-08 I developed copyright ownership and use policies for UNC, first as Chair of the Provost's special Committee on Copyright, and then as Chair of the Subcommittee on Ownership Policy of the UNC System-wide Task Force on Intellectual Property.
- 1997-98 While Editor-in-Chief of *Ecology* and *Ecological Monographs*, I designed and implemented *Ecological Archives* (<http://esapubs.org/Archive/>), a new digital publication of the Ecological Society of America for electronic

appendices, supplements and data papers. Over 50% of papers published in these journals now deposit supplemental material in *Archives*.

- 1993-94 While Secretary of the Ecological Society of America I designed a major revision of the governing structures of the Society and wrote the new Constitution and Bylaws.
- 1990 I established (in collaboration with E. van der Maarel) the *Journal of Vegetation Science*, the official organ of the International Association for Vegetation Science. Van der Maarel and I served as Coeditors-in-Chief from inception until I took over the journals of the Ecological Society of America in 1996.
- 1982 I established the North American Section of the International Association for Vegetation Science
- 1982 I established the Vegetation Section of the Ecological Society of America
- 1976 I co-organized and was the first Secretary of the Southeastern Chapter of the Ecological Society of America.

Research funding:

- US Geological Survey. 2015-2018. Analysis, Revision and Documentation of Longleaf Pine Associations of the National Vegetation Classification (Group 007) occurring in the Carolinas, Georgia and Florida. \$79,955.
- US Forest Service. 2010-2017. VegBank maintenance and enhancement. Subcontract through ESA. \$94,811.
- US Geological Survey. 2015-2016. Development of a data product documenting plant occurrence records from vegetation plots. \$9,994.
- US Geological Survey. 2014-2015. Assembly, standardization, evaluation and dissemination of a critical mass of vegetation plots from the Carolinas, Virginias, and adjacent regions. \$37,038.
- US National Park Service. 2014-2015. Database development for the Cumberland-Piedmont Network Vital Signs Monitoring. \$54,267.
- Ecosystem Enhancement Program, North Carolina Department of Environment and Natural Resources. 2012-2015. A scalable prototype data structure for EPP hydrology data and data-stream integration. \$90,418.
- US Department of Agriculture, Natural Resources Conservation Service. 2012-2015. Ecological site description development for the southern Piedmont, MLRA 136. \$50,000.
- iPlant Collaborative. 2009-2014. Botanical Information and Ecology Network (BIEN) and Taxonomic Name Resolution Service. Joint-PIs: B. Enquist (UAZ), R.

Condit (STRI), R.K. Peet (UNC). Support is in the form of workshops plus research services such as software development personnel.

National Center for Ecological Analysis and Synthesis. 2008-2014. Developing an integrated botanical information network to investigate the ecological impacts of global climate change on plant biodiversity” Joint-PIs: B. Enquist (UAZ), R. Condit (STRI), R.K. Peet (UNC), and S. Dolins (Bradley). Total funds \$65,000 to be spent at NCEAS.

North Carolina Department of Natural Resources, Natural Heritage Program. 2014. Survey of under-sampled vegetation types in focal areas of North Carolina. \$24,158.

US National Park Service. 2011-2014. Vegetation monitoring database development. \$69,309.

US Geological Survey. 2012-2014. US National Vegetation Classification peer review process, a case study. Subcontract through ESA. \$33,054.

Ecosystem Enhancement Program, North Carolina Department of Environment and Natural Resources. 2011-2013. Vegetation documentation for restoration design and monitoring. \$65,223.

Dominion Power. 2006-2011. Monitoring the Establishment and Survival of Floodplain Tree Seedlings: Roanoke River. \$453,643.

Ecosystem Enhancement Program, North Carolina Department of Environment and Natural Resources. 2007-2011. Vegetation documentation for restoration design and monitoring. \$991,487.

NASA. 2006-2009. Testing and Extending Biodiversity Paradigms and Their Sensitivities to Scale through Integration of In Situ and Satellite Data. PI Aaron Moody \$358,138. Co-PI R.K. Peet.

National Science Foundation. 2002-2008. ITR enabling the Science Environment of Ecological Knowledge. Co-PI. Only UNC PI, UNC Portion \$351,104. ITR-0225635

UNC Pogue Fellowship. 2008. Study leave at the National Center for Evolutionary Synthesis. \$60,000.

NASA Earth System Science Fellowship Program. 2004-2007. The evaluation of productivity-diversity relationships across two distinct ecological communities with respect to global climate change using local and landscape scale data. \$71,850.

Ecosystem Enhancement Program, North Carolina Department of Environment and Natural Resources. 2005-2006. North Carolina Vegetation Survey: Providing a template for ecological restoration. \$251,558.

North Carolina Biotechnology Center. 2003-2004. A characterization of plant communities surrounding North Carolina agricultural ecosystems. \$85,000.

U.S. Forest Service. 2002-2004. Pond cypress savannas of the Francis Marion National Forest. \$18,000.

National Science Foundation. 2002-2006. An Information Infrastructure for Vegetation Science. PI. \$1,050,000. NSF DBI-0213794

National Science Foundation. 2001-2005. Modeling the Impacts of Post-Settlement Sediment Deposition on Floodplain Vegetation. Co-PI; total award \$468,637; UNC portion \$56,607.

National Science Foundation. 2000-2003. A perfectly-archived, continuously-updated database system for analysis of North American vegetation. \$366,140. DBI-9905838

Florida Nongame Wildlife Program. 1999-2003. Fire-adapted pineland vegetation of Florida: A framework for inventory, management and restoration. \$122,410.

North Carolina Natural Heritage Trust. 1999-2001. Vegetation of North Carolina. \$20,000.

U.S.G.S. Gap Analysis Program. 1999-2001. An information infrastructure for vegetation science. \$50,000.

National Center for Ecological Analysis and Synthesis. 1998-2004. An information infrastructure for vegetation science. \$68,000.

U.S. Forest Service. 1998-2004. Vegetation of the Appalachian Mountains. Coop Agreement \$57,000.

National Science Foundation. 1997-2002. Long-term studies of forest dynamics on the North Carolina Piedmont. \$209,498. DEB97-07551

U.S. Forest Service. 1997-99. Vegetation of the Nantahala Mountains-2. Coop Agreement 11-97-035. \$13,000.

U.S. Forest Service. 1996-98. Vegetation mapping of Middle Prong Wilderness. Coop Agreement 11-660. \$10,500.

U.S. Forest Service. 1996-98. Vegetation of the Nantahala Mountains. Coop Agreement 11-654. \$7,000.

U.S. Forest Service. Appalachian ecological classification. 1995-97. Coop Agreement. \$9,500.

Nature Conservancy Mellon Grants. 1994-97. Roanoke River Bioserve: A preliminary assessment of the impact of flow modification on hydrology, geomorphologic processes and vegetation. \$113,571 (Co-PI with Steve Walsh of UNC Geology; UNC Biology portion = \$45,000).

U.S. Forest Service. 1994-96. Fire-adapted vegetation of the Southeastern Coastal Plain. \$65,000.

U.S. Forest Service. 1994-95. Uwharrie ecological classification. Coop Agreement 11-427. \$10,000.

U.S. Forest Service. 1994-97. Soil-vegetation relationships of the longleaf pine ecosystem. \$40,000

U.S. Forest Service. 1994-96. Vegetation classification and map of the Joyce Kilmer - Slick Rock Wilderness. \$38,000

U.S. Forest Service. 1993-94. Vegetation classification and map of the Shining Rock Wilderness. \$42,500.

National Science Foundation. 1993-95. The genetic consequences of self-thinning. Dissertation Improvement Award for Kathy Baker-Brosh. \$7,000. DEB 9224237.

U.S. Forest Service. 1992-94. Vegetation classification and map of the Linville Gorge Wilderness. \$30,000

U.S. Forest Service. 1992-94. Fire-adapted vegetation of the Carolina Sandhills: A template for restoration. \$64,162.

National Science Foundation. 1992-94. Competition between herbaceous and woody plants: the importance of herbs in forest dynamics. Dissertation Improvement Award for James Graves. \$8,535. BSR-9122920.

National Science Foundation. 1991-93. Long-term studies of forest dynamics: analysis of seedling and sapling populations (with N.L. Christensen). \$180,000. (UNC portion \$146,729). BSR-9107357

National Science Foundation. 1990-91. REU Supplement to: Long-term studies of forest dynamics. \$4,324. BSR-8905926 supplement.

National Science Foundation. 1989-94. Long-term studies of forest dynamics. \$174,930. BSR-8905926

United States Forest Service. 1986-88. Analysis of Duke Forest permanent plot data: Patterns of production and mortality of seedlings and trees. (with N.L. Christensen, administered through Duke University, \$72,665).

National Science Foundation. 1985-88. Mechanisms of coexistence in species-rich grasslands: A comparative, experimental study. \$69,858. BSR-8506098.

National Science Foundation. 1985-87. Secondary forest succession on the North Carolina piedmont (with N.L. Christensen). \$80,000. (UNC portion \$39,999). BSR-8502430.

National Science Foundation. 1984-89. Long-term studies of secondary forest succession and tree demography on the North Carolina piedmont. \$124,065. BSR-8314655.

- National Science Foundation. 1984-86. Vegetation analysis and determination of rate of vegetation change in a regional landscape: The Albemarle Embayment. Dissertation Award for Cecil Frost. \$7500. BSR-8401191.
- National Science Foundation. 1981-83. Secondary forest succession on the North Carolina piedmont (with N.L. Christensen). \$100,000 (UNC portion \$60,235). DEB-8102775.
- National Science Foundation. 1978-81. Secondary forest succession on the North Carolina piedmont (with N.L. Christensen). \$180,000 (UNC portion \$91,274). DEB-7804043.
- North Carolina Energy Institute. 1978-79. Changing rates of solar energy biomass accumulation in North Carolina piedmont forests. \$12,322.
- National Science Foundation. 1977-78. Secondary forest succession on the North Carolina piedmont (with N.L. Christensen). \$41,000 (UNC portion \$21,900). DEB-7708743.

Selected publications:

Digital Resources:

- 2012-present. Global Index of Vegetation Plot Databases. This is a resource to discover and potentially exploit the many vegetation plot databases that exist across the world. At present over 2.3 million vegetation plots are registered in GIVD from over xx countries. It is our 3expectation that this resources will allow many broad-scale syntheses of a sort and significance that have not heretofore been possible. <http://givid.org>
- 2011-present. Vegetation Prediction Tool (Website and software). This is a tool for creating restoration targets, given site conditions. It is intended for use by government agencies and their contractors. Currently we provide versions for the Carolinas and for West Virginia and are working with collaborators to provide even broader geographic coverage. <http://cvs.bio.unc.edu/tools/predicttargetveg-help/predicttargetveg-help.html>
- 2011-present. Taxonomic Name Resolution Service. Joint-PIs: B. Boyle (UAZ), B. Enquist (UAZ), R. Condit (STRI), R.K. Peet (UNC). Cleaning and parsing of taxonomic names is a major challenge in the modern world of big data. TNRS is intended to provide a tool to greatly simplify and accelerate this process. <http://tnrs.iplantcollaborative.org/>
- 2010-present. Botanical Information and Ecology Network (website and database). This is a data resource documenting the occurrence and co-occurrence of new world plants. It incorporates records from over 12 million observations of plant occurrences spanning over 200,000 species. <http://bien.nceas.ucsb.edu/bien/>, <https://bien3.org/> .

2005-present. *Atlas of the Flora of the Southeastern United States*. Digital atlas and database integrating diverse data using taxonomic concept relationships. With co-authors Xianhua Liu and Alan S. Weakley, created, designed, implemented, and directed. We currently direct and maintain this site for the Society of Herbarium Curators, the SERNEC (NSF-RCN), and NBII.

<http://www.herbarium.unc.edu/seflora/>

2004-present. *Vegetation of the Carolinas*. Carolina Vegetation Survey (CVS: Peet, Wentworth, Schafale, Weakley, Boyle & Lee). This site uses original CVS data to provide baseline documentation of the approximately 500 vegetation types of the National Vegetation Classification that occur in the Carolinas.

<http://cvs.bio.unc.edu/>, and especially

<http://cvs.bio.unc.edu/vegetation.htm>.

2000-present. *VegBank*. The vegetation plot archive of the Ecological Society of America. Adapted as a Federal Standard by the U.S. Federal Geographic Data Committee, 2008. Created, designed, and directed.

<http://www.vegbank.org/>

1996-2001. *Ecological Archives*. A publication of the Ecological Society of America. With co-author Aaron Ellison created, designed, implemented, and directed. <http://www.esapubs.org/archive/>. Today well in excess of half the papers published in *Ecology*, *Ecological Monographs* and *Ecological Applications* deposit supplemental material in this archive.

Books:

Box, E.O., R.K. Peet, T. Masuzawa, I. Yamada, K. Fujiwara and P.F. Maycock (editors). 1995. *Vegetation Science in Forestry. Handbook of Vegetation Science 12/1*. Kluwer Academic Publishers, Dordrecht. 663 pp.

Walsh, S, F. Davis and R.K. Peet (editors). 1994. *Applications of Geographic Information Systems and Remote Sensing in Vegetation Science*. Opulus Press, Uppsala. 147 pp.

Glenn-Lewin, D.C., R.K. Peet and T.T. Veblen (editors). 1992. *Plant succession: theory and prediction*. Chapman and Hall, London.

Peet, R.K. (editor). 1985. *Plant community ecology: Papers in honor of Robert H. Whittaker*. Junk, The Hague. 332 pp.

Lieth, H., E. Landolt and R.K. Peet (editors). 1982. Contributions to the knowledge of flora and vegetation in the Carolinas. *Veroff. Geobot. Inst. ETH, Stiftung Rubel*. Heft 70. 177 p.

Articles and Chapters:

- Dengler, J., T. Matthews, ... R.K. Peet, ... & I. Biurrun. Species-area relationships in continuous vegetation: evidence from Palearctic Grasslands. (submitted).
- Ury, E.A., S.M. Anderson, R.K. Peet, E.S. Bernhardt & J.P. Wright. Succession, Regression and loss: does evidence of salt water exposure explain recent changes in the tree communities of North Carolina's Coastal Plain? (submitted).
- Van der Sande, M.T., H. Bruelheide, ... R.K. Peet, ... & T.M. Knight. Similar mechanisms underlie tree abundance in native and alien ranges. (submitted).
- Lee, M.T., R.K. Peet, T.R. Wentworth, M.P. Schafale, A.S. Weakley, J.P. Vanderhorst & K. Patterson. Availability of plot data from the Carolinas and Virginias for documenting the US National Vegetation Classification (submitted).
- Tordoni, E., G. Bacaro, P. Weigelt, M. Cameletti, J.A.M. Janssen, A.T.R. Acosta, S. Bagella, R. Filigheddu, E. Bergmeier, H.L. Buckley, D. Ciccarelli, E. Forey, S.M. Hennekens, R.A. Lubke, P. Mahdavi, R.K. Peet, M. Peinado, S. Sciandrello, & H. KrefT. Disentangling native and alien plant diversity in coastal sand dune ecosystems worldwide (submitted).
- Šímová, I., B. Sandel, B.J. Enquist, S.T. Michaletz, J. Kattge, C. Violle, B.J. McGill, B. Blonder, K. Engemann, R.K. Peet, S.K. Wiser, N. Morueta-Holme, B. Boyle, N.J.B. Kraft, & J.-C. Svenning. The relationship of woody plant size and leaf nutrient content to large-scale productivity for forests across the Americas. *Journal of Ecology* (submitted).
- Barnett, D., P. Adler, B.R. Chemel, P.A. Duffy, B.J. Enquist, J.B. Grace, S. Harrison, R.K. Peet, D.S. Schimel, T.J. Stohlgren, M. Vellend. The plant diversity sampling design for The National Ecological Observatory Network. *Ecosphere* (in press).
- Chytrý, M., A. Chiarucci, M. Pärtel, V.D. Pillar, J.P. Bakker, L. Mucina, R.K. Peet & P.S. White. Progress in vegetation science: trends over the past three decades and new horizons. *Journal of Vegetation Science* (in press).
- Echeverría-Londoño, S., B.J. Enquist, D.M. Neves, C. Violle, B. Boyle, N.J.B. Kraft, B.S. Maitner, B. McGill, N. Morueta-Holme, R.K. Peet, B. Sandel, S.A. Smith, J.-C. Svenning, S.K. Wiser & A.J. Kerkhoff. 2018. Plant functional diversity and the biogeography of biomes in North and South America. *Frontiers in Ecology and Evolution* 18 (219), 12 pp.
<https://doi.org/10.3389/fevo.2018.00219>
- Bretfeld, M., S.B. Franklin and R.K. Peet. Long-term vegetation dynamics of mixed aspen forests in Rocky Mountain National Park, USA. *Journal of Vegetation Science* (in press).
- Bruehlheide, H., J. Dengler, O. Purschke, J. Lenoir, B. Jiménez-Alfaro, S.M. Hennekens, Z. Botta-Dukát, M. Chytrý, R. Field, F. Jansen, J. Kattge, V.D. Pillar, F. SchrodT, M.D. Mahecha, R.K. Peet et al. Global trait–environment relationships of plant communities. 2018. *Nature Ecology and Evolution* 2: 1906-1917. <https://www.nature.com/articles/s41559-018-0699-8>

- Bruehlheide, H., J. Dengler, B. Jiménez-Alfaro, O. Purschke, S.M. Hennekens, M. Chytrý, V.D. Pillar, F. Jansen, J. Kattge, B. Sandel, I. Aubin, I. Biurrun, R. Field, S. Haider, U. Jandt, J. Lenoir, R.K. Peet, et al. 2018. sPlot – a new tool for global vegetation analyses. *Journal of Vegetation Science* (in press). <http://eprints.whiterose.ac.uk/138807/>
- Peet, R.K., W.J. Platt & J.K. Costanza. 2018. Fire-maintained pine savannas and woodlands of the southeastern US Coastal Plain. Chapter 3 in A. Barton and W. Keeton, editors. *Ecology and Recovery of Eastern Old-Growth Forests*. Island Press, Washington D.C. Pp 39-62.
- Xi, W., R.K. Peet, M.L. Lee & D.L. Urban. 2018. Hurricane disturbances, tree diversity, and succession in North Carolina Piedmont forests, USA. *Journal of Forestry Research* <https://doi.org/10.1007/s11676-018-0813-4>
- Chytrý, M. & R.K. Peet. IAVS Honorary Membership 2018: Ladislav Mucina. *IAVS Bulletin* 2018 (3): 10-15.
- Zhou, W., X. Ji, S. Obata, A. Pai, R.K. Peet, & Q.-Y. Xiang. 2018. Resolving relationships and phylogeographic history of the *Nyssa sylvatica* complex using data from RAD-seq and species distribution modelling. *Molecular Phylogenetics and Evolution* 126: 1-16. <https://www.sciencedirect.com/science/article/pii/S1055790317308163>
- Dengler, ...R.K. Peet, ... I. Biurrun. 2018. GrassPlot – a database of multi-scale plant diversity in Palaearctic grasslands. *Phytocoenologia* 48: 331-347. DOI: 10.1127/phyto/2018/0267
- Peet, R.K., K.A. Palmquist, T.R. Wentworth, M.P. Schafale, A.S. Weakley & M.T. Lee. 2018. Carolina Vegetation Survey: an initiative to improve regional implementation of the U.S. National Vegetation Classification. *Phytocoenologia* 48: 171-179. <https://dx.doi.org/10.1127/phyto/2017/0168>.
- Faber-Langendoen, D., K. Baldwin, R.K. Peet, D. Meidinger, E. Muldavin, T. Keeler-Wolf & C. Josse. 2018. The EcoVeg Approach in the Americas: U.S., Canadian and International Vegetation Classifications. *Phytocoenologia* 48: 215-237. <https://dx.doi.org/10.1127/phyto/2017/0165>.
- Walker, D.A.; F.J.A. Daniëls, N.V. Matveyeva, J. Šibík, M.D. Walker, A.L. Breen, L.A. Druckenmiller, M.K. Reynolds, H. Bültmann, S. Hennekens, M. Buchhorn, H.E. Epstein, K. Ermokhina, A.M. Fosaa, S. Heiðmarsson, B. Heim, I.S. Jónsdóttir, N. Koroleva, E. Lévesque, W.H. MacKenzie, G.H.R. Henry, L. Nilsen, R. Peet, V. Razzhivin, S.S. Talbot, M. Telyatnikov, D. Thannheiser, P.J. Webber, L.M. Wirth. 2018. Circumarctic vegetation classification. *Phytocoenologia* 48: 181-201. <https://dx.doi.org/10.1127/phyto/2017/0192>.
- Šímová, I., C. Violle, J.C. Svenning, J. Kattge, K. Engemann, B. Sandel, R.K. Peet, S.K. Wiser, B. Blonder, B.J. McGill, N.J.B. Kraft, P.M. van Bodegom, A.G. Gutierrez, M. Bahn, W.A. Ozinga, A. Tószögyová, & B. J. Enquist. 2018. Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. *Journal of Biogeography* 45: 895-916.

- Hakkenberg, C.R., K. Zhu, R.K. Peet, & C. Song. 2018. Mapping multi-scale vascular plant richness in a forest landscape with integrated LiDAR and hyperspectral remote sensing. *Ecology* 99: 474-487.
- Hakkenberg, C.R., R.K. Peet, D. L. Urban, & C. Song. 2018. Modeling plant composition as community continua in a forest landscape with LiDAR and hyperspectral remote sensing. *Ecological Applications* 28: 177-190.
<http://onlinelibrary.wiley.com/doi/10.1002/eap.1638/full>
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Invited Participation in National & International Meetings (2005 - 2016).

- 2016 Invited participant, sDiv workshop on Plant trait-environment relationships across the world's biomes. iDiv, German Center for Integrative Biodiversity Research, Leipzig, Germany.

- 2016 Invited speaker, Organizing Committee, and Session Chair. International Association for Vegetation Science. Pirenópolis, Brazil.
- 2014 Speaker and Organizing Committee, Annual Symposium, International Association for Vegetation Science. Perth, Australia.
- 2014 Invited participant, Workshop on Exploring Heterogeneity in the Ecology, Restoration, and Management of Longleaf Groundcover. Mobile, AL.
- 2014 Invited speaker and participant, U.S. Federal Geographic Data Committee & Ecological Society of America, Vegetation Panel. Workshop on revision of the Macrogroups of the US National Vegetation Classification. Linthicum Heights, MD.
- 2014 Invited speaker and participant, BIGCB Workshop on Taxon Concepts. Berkeley, CA.
- 2014 Invited participant, sDiv workshop on Plant trait-environment relationships across the world's biomes. iDiv, German Center for Integrative Biodiversity Research, Leipzig, Germany.
- 2013 Invited speaker and participant. U.S. Federal Geographic Data Committee & Ecological Society of America, Vegetation Panel. Development of peer review procedures for the U.S. National Vegetation Classification. Chapel Hill, NC.
- 2013 Invited speaker, Annual Symposium, International Association for Vegetation Science, Tartu, Estonia.
- 2013 Invited symposium speaker, Annual meeting of the Ecological Society of America, Minneapolis, MN.
- 2012 Invited speaker and participant, International Arctic Vegetation Database Workshop – CBIONET. Roskilde, Denmark.
- 2012 Invited participant. National Center for Ecological Analysis and Synthesis: Reflections and moving ahead. Santa Barbara, CA.
- 2012 Invited speaker and participant. U.S. Federal Geographic Data Committee & Ecological Society of America, Vegetation Panel. Implementing the U.S. National Vegetation Classification. Denver, CO.
2011. Convener. 54th Annual Symposium, International Association for Vegetation Science, Lyon, France.
- 2010 Invited speaker and participant. Stream Restoration in the Southeast. Raleigh, NC.
- 2010 Invited speaker and participant. Planning for implementation of the FGDC Vegetation classification standard. Ecological Society of America's Vegetation Panel, ESA Annual Meeting, Albuquerque, NM.
- 2010 Invited speaker and participant. iPlant 2010 Conference. Las Vegas, NV.
- 2010 Invited speaker and participant. Taxonomic concepts. Taxon name resolution service. Joint BIEN-iPlant meeting. Missouri Botanical Garden, St. Louis, MO.

- 2010 Invited participant. Taxon observation data and the data integration problem. SERNEC (NSF-RCN) meeting. Chapel Hill, NC.
- 2010 Invited speaker and participant. Evaluation of alvar vegetation data as a prototype for implementation of the National Vegetation Classification. Ecological Society of America Vegetation Panel. Chapel Hill, NC.
- 2010 Convenor. 53rd Annual Symposium, International Association for Vegetation Science. Ensenada, Mexico.
- 2009 Convenor. 52nd Annual Symposium, International Association for Vegetation Science. Chania, Crete, Greece.
- 2009 Invited speaker and participant. Implementation strategies for the US National Vegetation Classification. US Federal Geographic Data Committee. Washington, DC.
- 2009 Invited symposium speaker and participant. Planning for implementation of the FGDC Vegetation classification standard. Ecological Society of America` Vegetation Panel, ESA Annual Meeting. Albuquerque, NM.
- 2009 Invited participant. The challenge of taxon concepts. Global Biodiversity Information Facility (GBIF). Annual meeting. Herndon, VA.
2009. The National Vegetation Classification as a guide to ecosystem restoration and management in the Carolinas: Vision and reality. Annual meeting of the Ecological Society of America. Symposium on application of the vegetation classification.
2009. Names are not sufficient: The challenge of documenting organism identity revisited. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
2009. Implementing the US National Vegetation Classification. U.S. Federal Geographic Data Committee, Vegetation Subcommittee. Washington, DC.
- 2008 Names are not sufficient: The challenge of documenting organism identity. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
2008. An information infrastructure for vegetation science. U.S. Federal Geographic Data Committee, Washington, DC.
2008. Implementing the US National Vegetation Classification. U.S. Federal Geographic Data Committee, Vegetation Subcommittee, Arlington, VA.
2008. Keynote speaker. 51st Annual Symposium, International Association for Vegetation Science. Stellenbosch, South Africa.
2007. Invited participant. Integration of taxonomic concept relationships. Meeting of NSF RCN for Southeast Regional Network of Expertise and Collections. National Evolutionary Synthesis Center, Durham, NC.
2007. Invited speaker and participant. Obstacles to Data Sharing for Ecology, Evolution, and Organismal Biology. NSF Workshop conducted by the Ecological Society of America. National Evolutionary Synthesis Center, Santa Barbara, CA.

- 2007. Invited speaker and participant. Planning and design of Traitnet. Meeting of NSF RCN for Columbia University, NY, NY.
- 2007. Organizer and Speaker. International exchange standards for vegetation plot data. Ecoinformatics Working Group, International Association for Vegetation Science. National Evolutionary Synthesis Center, Durham, NC.
- 2007. Invited symposium speaker. Fire-maintained longleaf pine: A case study in implementing the U.S. National Vegetation Classification. Annual meeting of the Ecological Society of America, San Jose, CA.
- 2007. Invited speaker and participant. Annual meeting of the International Association for Vegetation Science, Swansea, Wales.
- 2007. Organizer and Speaker. The VegBank data model and XML schema. International exchange standards for vegetation plot data. National Evolutionary Synthesis Center. Durham, NC.
- 2007. Invited Speaker and participant. The challenge of organism identity: the flora of the Southeast as a case study. SERNEC meeting. National Evolutionary Synthesis Center. Durham, NC.
- 2007. Invited Speaker and participant. Coalition for Networked Information, Washington, DC.
- 2007. Invited participant. SERNEC: A vision for community involvement and integration. Meeting of the NSF Research Coordination network: SE Regional network of expertise and collections. Columbia, SC.
- 2007. Featured speaker. Radford memorial symposium. Association of Southeastern Biologists annual meeting. Columbia, SC.
- 2007. Invited speaker and participant. Allen Press Emerging Trends in Scholarly Publishing Seminar. All Together Now: Scholarly Communication and the Power of Online Communities. Here, There, and Everywhere: The Great Promise of Research Data Commons. Washington, DC.
- 2006. Invited speaker. Symposium on ecological restoration, Annual meeting of the Ecological Society of America. Memphis, TN.
- 2006. Invited speaker and participant. Data Centers for Ecology, Evolution, and Organismal Biology. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
- 2006. Organizer and speaker. Workshop on international exchange standards for vegetation plot data. National Evolutionary Synthesis Center, Durham, NC.
- 2006. Invited speaker. Data centers for ecology, evolution, and organismal biology. National Science Foundation sponsored workshop. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
- 2006. Invited speaker and participant, Center for Tropical Forest Science, Database Advisory Workshop, Panama City, Panama.

- 2006. Invited speaker. Workshop on Developing and integrating taxonomic databases for the 21st Century. Sponsored By the National Science Foundation, and the National Evolutionary Synthesis Center, Durham, NC.
- 2006. Invited speaker. GUID-1 Workshop, Global Universal Identifiers for taxonomic data. Sponsored by the Global Biodiversity Facility (GBIF), the Taxonomic Databases Working Group (TDWG), and the National Evolutionary Synthesis Center. Durham, NC.
- 2006. Invited symposium speaker. Names are not sufficient: the challenge of documenting organism identity. Symposium on Herbarium Informatics: Community Standards and Research Questions. Association of Southeastern Biologists. Gatlinburg, TN.
- 2005. Invited speaker. An information infrastructure for vegetation classification and documentation. National GAP meeting and Interagency Symposium. Reno, NV
- 2005. Organizer and speaker. Working group on "An information infrastructure for Vegetation Science." National Center for Ecological Analysis and Synthesis. Santa Barbara, CA
- 2005. Panel Discussion Participant and Invited paper author. Scholarly communications in a digital world: A convocation. Chapel Hill, NC.
- 2005. Keynote Speaker. Fourth annual vegetation databank workshop: Vegetation databanks and GIS applications. Halle, Germany.

Invited Seminars (2011-2016)

- Friends of Plant Conservation, Earth Day lecture, April 2015
- East Carolina University, April 2014.
- Duke University, January 2014.
- Cooperative Ecosystems Study Unit (at Duke University). October 2013.
- Mississippi State University, September 2013.
- Friends of Plant Conservation, Annual meeting. Asheville, NC, November 2012.
- Old Dominion University, September 2011
- Oklahoma State University, April 2011
- Duke University, January 2011

Students:

Postdoctoral associates - 9

Thomas Phillippi, 1992-95 (currently Quantitative Ecologist, US NPS National Inventory & Monitoring Program); Richard Duncan, 1993-94 (Currently Professor, University of Canberra); Eric Kjellmark, 1995-96 (Currently Professor, Florida Southern University); Steven K. Rice, 1995-96 (Currently Professor, Union College); Dan C. Gafta, 1998-99 (Currently Associate Professor, Babeş-Bolyai University); Jason Fridley, 2002-06 (Currently Associate Professor, Syracuse University); Nico M. Franz, 2003-05 (Currently Associate Professor, Arizona State University); Xianhua Liu, 2003-06 (Currently Tech Lead at HCL Technologies); Forbes Boyle 2006-11 (Currently Scientist, US Fish & Wildlife Service, Inventory & Monitoring Network).

Ph.D. students - 29

Joan Walker, 1985; Robert G. Knox, 1987; Robert B. Allen, 1988; Don E. McLeod, 1988 (with Radford); John B. Taggart, 1990 (with A. Radford); Susan K. Wiser, 1993 (with P. White); Lauro Lopez Mata, 1994; James H. Graves, 1995 (with P. White); Jacob Kann (with V. Smith) 1996; Kathleen F. Baker-Brosh, 1996; James DeCoster, 1996; Claire L. Newell, 1997; Jeffrey Corbin, 1998; Timothy D. Nifong, 1998 (with A. Radford); Cecil C. Frost, 2000; Rebecca L. Brown, 2002; Jason D. Fridley, 2002; Patricia Corry, 2006; Weimin Xi, 2006; Joel M. Gramling, 2006; Lee Anne Jacobs Reilly, 2010; Jeffrey Ott, 2010; Elizabeth R. Matthews, 2011; Brooke E. Wheeler, 2011; Jacqueline White, 2014; Kyle Palmquist, 2014; Dennis Tarasi 2016, Christopher J. Payne 2018; Alissa Brown, active.

MA/MS students - 21

William L. Baker, 1980; Gary Thorburn, 1980; Orin Pete Council, 1980; Dorothy Allard, 1981; James D. Doyle, 1981; Mary Love May, 1981; Ann M. Richards, 1983; Sonja Stiefel, 1993; Janette Schue, 1995; Peter Avis, 1998; Mark Knot 2001; Elissa Rachel Hochman, 2004; Kristin Taverna, 2004 (with P. White); Andrea Jones Gramling, 2006; Andy Gerschutz, 2009; Amanda R. Senft, 2009; Jasper McChesney, 2010; Stephanie Seymour, 2011 (with A. Weakley); Megan Faestel, 2011 (with A. Weakley); Kimberly Israel, 2011; Nick Adams, 2011.

BA Honors students - 9

Rebecca A. Reed, 1991; Amanda McAdams, 1993; Christine C. Muth, 1996
Robert I. McDonald, 2000; Daniel J. McGlenn, 2004; Jessica Long, 2006; Sally Wheeler, 2007; Elizabeth Marx, 2007; Emily Watson-Cook 2017.

Additional Committees.

National Committees & Government Panels: NEON Data Standards Committee 2010-present; NC Museum of Natural Sciences Advisory Commission 2008-present; ABI-EPRI Advisory Committee; Working Group for an Information Infrastructure for Vegetation Science, National Center for Ecological Analysis and Synthesis (Chair); Scientists Panel for a North Carolina Statewide Conservation Strategy. The Environmental Defense Fund (Member); NC Governor's "Blue Ribbon Task Force on Forest Sustainability"; Albemarle-Pamlico National Estuary Program Science & Technical Advisory Committee (2005-2007).

University Committees: Administrative Board of the Library (1980-81, 1987-90, 2002-07, Chair 2004-07, Scholarly Communications Subcommittee Chair 2002-05); Buildings and Grounds Committee (1983-86); Carolina Environmental Program, Faculty Advisory Committee (2003-07); Chancellor's Task Force on the University Library (1990-91); Digital Curation/Institutional Repository Committee (Executive Committee, 2005-08); UNC Institute for the Environment, Faculty Advisory Committee (2007-present); UNC Special Committee on Copyright (Chair, 1997-98); UNC Copyright Committee (1999-2006, Chair 1997-98), UNC Representative to the Organization for Tropical Studies, Institutional Representative (1987-2013); Energy Conservation Committee (1984-85); University Research Council, Biology Panel (1989-90); UNC General Administration Task Force on Intellectual Property

(Subcommittee Chair, 1999-2000); North Carolina Botanical Garden (Administrative Board 1976-2005, Biological Preserve Study Committee 1982-83, Conservation Committee, Chair 1978-81, Director Search Committee 1985-86, Reorganization Committee 1977-80, Internal Review Committee 1982-83, Research Committee 1986-2004, Advisory Board of the Herbarium 1988-present); Ecology Curriculum (Chair 2003-08), Admissions Committee, Faculty Search Committee, Chair Committee on Future Faculty Hires; Curriculum for the Environment and Ecology, faculty Search Committee (2009-10); Scholarly Communications Convocation Planning Committee (2004-05)