

## CURRICULUM VITAE

**William A. Patterson III**  
**Department of Natural Resources Conservation**  
**University of Massachusetts – Amherst**  
**December, 2008**

**Title: specialization; appointment basis.**

Professor; Forest Ecology, Fire Management, Paleoecology; 9-month basis.

**Education: degree, school, major, attended, degree date.**

B.S., University of Maine, Botany, 1963-67, 1967  
M.S., University of Minnesota, Forestry, 1967-69, 1969  
Ph.D., University of Minnesota, Forestry, 1972-78, 1978

**Societies/Awards.**

Alpha Zeta  
Gamma Sigma Delta (Agriculture)  
Phi Kappa Phi  
Xi Sigma Pi (Forestry)  
Sigma Xi (Research)  
Charles Bullard Fellow, Harvard University (1984-85)  
Visiting Scientist, CSIRO, Canberra, Australia (1991)  
President's Stewardship Award, The Nature Conservancy (1991)  
Conservation Award, New England Wild Flower Society (1992)

**Non-academic Professional and Research Experience.**

US National Park Service, Research Ecologist (part time), 1988-present.  
US Forest Service, Project Leader, Research Forester, June-August 1979, 1/4 year.  
State of Minnesota, terrestrial ecosystem analyst, Research Scientist, 1976-78, 2 years.

**Date of Appointment:** September, 1978

**Percent of Annual Work Time:**

Teaching	50% (5% Extension)
Research	25%
Service	25% (15% Extension)

**Off-Campus Consulting:**

Invited Instructor:

The Nature Conservancy - Ecological Prescribed Burning Workshops; 1988, 1990, 1992, 1995  
National Advanced Resource Training Center - Fire in Ecosystem Management; 1991, 1992, 1994-1999, 2002-2006  
National Advanced Resource Training Center - Rx-540: Advanced Fire Effects; 1997, 2000-2003  
U.S. National Park Service - Prescribed Burn Boss Course; 1991, 1992, 1997, 2006

Qualifications: Prescribed Burn Boss (National Park Service), Fire Leader (The Nature Conservancy)

Consultant to the Army National Guard, Camp Edwards, Massachusetts for fire management planning and prescribed burn implementation (1983-2000).

Consultant to So. Weymouth Naval Air Station on prescribed burn implementation (1997).

Consultant to the Wampanoag, Narragansett, Mashentucket-Pequot, Malaseet and Micmac Tribal Nations for fire management planning (2002-2006).

Consultant to a variety of public agencies and private groups on prescribed fire use and wildland fire management - 1983 to present.

**Publications:**

- Adams, R.S., et al. 1968. Procedure and structure for an instructional laboratory which supplements research. *Journal of the Minnesota Academy of Science* 35:9-16.
- Sather, N., G. A. Leiberman and W. A. Patterson III. 1979. Terrestrial Ecosystems. Minnesota Environmental Quality Board Regional Cooper-Nickel Study Final Report. Vol. 4, Ch. 2. 196p.
- Patterson, W. A. III and I. L. Post. 1980. The effects of delayed bucking on fuelwood moisture content. *Journal of Forestry* 78:407-408.
- Patterson, W. A. III and J. G. Dennis. 1981. Tussock replacement as a means of stabilizing fire breaks in tundra vegetation. *Arctic* 34:188-189.
- Patterson, W. A. III and J. J. Olson. 1983. Effects of heavy metals on radicle growth of selected woody species germinated on filter paper, mineral and organic soil substrates. *Canadian Journal of Forest Research* 13:233-238.
- Westover, P. C. and W. A. Patterson III. 1983. Effects of fuelwood removal on residual stand characteristics and oak regeneration in oak-hardwood stands in Massachusetts. *Proceedings 1982 National Convention Society of American Foresters*. 199-206.
- Patterson, W. A. III, K. E. Saunders and L. J. Horton. 1983. Fire Regimes of the Coastal Maine Forests of Acadia National Park. *USDI/NPS - North Atlantic Region Office of Scientific Studies Report OSS 83-3*. 259 pp.
- Twery, M. J., and W. A. Patterson III. 1983. Effects of species composition and site factors on the severity of beech bark disease in western Massachusetts and the White Mountains of New Hampshire: A preliminary report. pp. 127-133 in *Proceedings of the IUFRO Beech Bark Disease Working Party Conference, Hamden, CT, USA. Sept. 27 - Oct. 9, 1982. U.S.D.A. Forest Service General Technical Report WO-37*.
- Racine, C. H., W. A. Patterson III and J. Rudnicky. 1983. Permafrost thaw associated with tundra fires in northwest Alaska. *Permafrost: Fourth International Conference, Proceedings: 1024-1029*.
- Patterson, W. A. III (ed.) 1983. Abstract Preview. *SAF National Convention technical sessions abstract booklet*. 45 p.
- Patterson, W. A. III, K. E. Saunders and L. J. Horton. 1984. Fire Regimes of Cape Cod National Seashore. *USDI/NPS North Atlantic Region Office of Scientific Studies Report OSS 83-1*. 236p.
- Hirschfeld, J. R., J. T. Finn and W. A. Patterson III. 1984. Effects of *Robinia pseudoacacia* on leaf litter decomposition and nitrogen mineralization in a northern hardwood stand. *Canadian Journal of Forest Research* 14(2): 201-205.
- Zaremba, R. E., W. A. Patterson III and J. Rudnicky. 1984. Prescribed burning experiments in Nantucket heathlands. *The Cape Naturalist* 12(3):49-55.
- Patterson, W. A. III. 1984. Block terms: An alternative to summer camp. *Journal of Forestry* 82(11):684-685.
- Clark, J. S. and W. A. Patterson III. 1984. Pollen, Pb-210 and sedimentation in the intertidal environment. *Journal of Sedimentary Petrology* 54(4):1249-1263.
- Patterson, W. A. III. 1984. Ecological impacts of growing and harvesting timber resources. *AICHe Symposium Series No 239, Vol. 80:52-60*.
- Twery, M. J. and W. A. Patterson III. 1984. Effect of beech bark disease on northern hardwood stands of central New England. *Canadian Journal of Forest Research* 14(4):565-574.
- Patterson, W. A. III. 1984. The research basis for fire management planning in the northeast. pp. 24-32 in M. K. Foley and S. P. Bratton (eds.). *Barrier Islands Critical Fire Management Problems, Proceedings of a Workshop. Canaveral National Seashore, February 8-10, 1984*.
- Patterson, W. A. III, K. E. Saunders, L. J. Horton and M. K. Foley. 1985. Fire management options for coastal New England forests: Acadia National Park and Cape Cod National Seashore. pp. 360-365 in *Proceedings Fire Symposium and Workshop on Wilderness Fire Missoula, MT., November 15-18, 1983. USDA For. Serv. Gen. Tech. Report INT-182*.

- Racine, C. H., J. G. Dennis and W. A. Patterson III. 1985. Analysis of tundra fire regimes in the Noatak River Watershed, Alaska; 1956-1981. *Arctic* 38(2):194-200.
- Clark, J. S. and W. A. Patterson III. 1985. The development of a tidal marsh: Upland and oceanic influences. *Ecological Monographs* 55(2):189-217.
- Harou, P. A., W. A. Patterson III and J. Falconi. 1985. The role of forestry in the Sahel. *Journal of Forestry* 83(3): 142-147.
- Harou, P. A., W. A. Patterson III and J. Falconi. 1985. The role of forestry in dry Africa: *Journal of Forestry* 83(9):558-560.
- Clark, J. S. and W. A. Patterson III. 1985. Chapter 5: Geochronological analysis. pp. 155-176 in S. P. Leatherman and J. R. Allen (eds.), *Final Report: Geomorphic Analysis, Fire Island Inlet to Montauk Point, Long Island, New York, Reformulation Study*. U. S. National Park Service, Boston, MA.
- Rudnicky, J. L. and W. A. Patterson III. 1985. Estimating fuel moisture in the Northeast: Fuel sticks versus the TI-59. *Fire Management Notes* 46(4): 4-6.
- Wilson, B. F., W. A. Patterson III and J. F. O'Keefe. 1985. Longevity and persistence of alder stands west of treeline, Seward Peninsula, Alaska. *Canadian Journal of Botany* 63:1870-1875.
- Clark, J. S., J. T. Overpeck, T. Webb III and W. A. Patterson III. 1986. Pollen stratigraphic correlation and dating of barrier island peat sections. *Review of Palaeobotany and Palynology* 47:145-168.
- Gore, J. and W. A. Patterson III. 1986. Mass of downed wood in northern hardwood stands in New Hampshire. *Canadian Journal of Forest Research* 16(2):335-339.
- Patterson, W. A. III. 1986. A "new ecology" - Implications for modern forest management. *Journal of Forestry* 84(2):73.
- Horton, L. J., W. A. Patterson III, A. E. Backman, and J. L. Rudnicky. 1986. *Fire Regimes of Fire Island National Seashore*. USDA Forest Service State and Private Forestry, Broomall, PA 148p.
- Patterson, W. A. III, K. J. Edwards, and D. J. Maguire. 1987. Microscopic charcoal as a fossil indicator of fire. *Quaternary Science Reviews* 6:3-23.
- Patterson, W. A. III and K. E. Sassaman. 1988. Indian fires in the prehistory of New England. pp. 107-131 in G. Nicholas (Ed.) *Holocene Human Ecology in Northeastern North America*. Plenum Publishing Co.
- Patterson, W. A. III and A. E. Backman. 1988. Fire and disease history of forests. pp. 603-632 in B. Huntley and T. Webb III (eds.), *Handbook of Vegetation Science, Vol. 7-Vegetation History*. Kluwer Academic Publishers.
- Drake, N. E. R., W. A. Patterson III, J. Soderberg, and E. Babij, 1988. *Technical Support Document for The Environment Impact Report - Prescription Burning of the Impact Area, Massachusetts Military Reservation, Camp Edwards, Massachusetts Army National Guard*, 196 pp.
- Drake, N. E. R., W. A. Patterson III, and E. Babij, 1988. *Environmental Impact Report for Prescription Burning of the Impact Area at Camp Edwards, MA, Massachusetts Army National Guard*. 140 pp.
- Patterson, W. A. III and M. A. Aizen. 1989. Hardwood competition and weevil infestation in white pine: Lessons from a long-term study. *Northern Journal of Applied Forestry* 6(4):186-188.
- Patterson, W. A. III and M. K. Foley. 1989. Prescribed burning opportunities in National Parks of the Northeastern United States. *The George Wright Forum* 6(3):5-11.
- Aizen, M. A. and W. A. Patterson III. 1990. Acorn size and geographical range in the North American oaks. *Journal of Biogeography* 17:327-332.
- Patterson, W. A. III and D. R. Foster. 1990. *Tabernacle Pines - The Rest of the Story*. *Journal of Forestry* 88(12):23-25.
- Patterson, W.A. III. 1991. The 1947 Maine Fires: The Last Great Fires in New England? pp. 59-60 in S. M. Hermann, (ed.) *Proceedings 17th Tall Timbers Fire Ecology Conference. High-Intensity Fire in Wildlands: Management Challenges and Options*. Tall Timbers Research Station, Tallahassee, Florida. 435 p.
- Garman, S. L., W. A. Patterson III, and J. T. Finn. 1991. Fire management planning in Acadia National Park using a geographic information system. *Proceedings of the 1986 Conference on Science in the National Parks, Volume 8*:41-55.
- Motzkin, G. and W. A. Patterson III. 1991. Vegetation patterns and basic morphometry of a New England moat bog. *Rhodora* 93:307-321.
- Aizen, M. A. and W. A. Patterson III. 1992. Do big acorns matter? - a reply to R.J. Jensen. *Journal of Biogeography* 19:581-582.
- Motzkin, G., W. A. Patterson III and N. E. R. Drake. 1993. Fire history and vegetation dynamics of a *Chamaecyparis thuyoides* wetland on Cape Cod, Massachusetts. *Journal of Ecology* 81:391-402.

- Woodcock, H., W. A. Patterson III and K. M. Davies, Jr. 1993. The relationship between site factors and White Ash (*Fraxinus americana*) decline in Massachusetts. *Forest Ecology and Management* 60:271-290.
- Bachand, R. R. and W. A. Patterson III. 1994. Identifying upland-to-wetland transitions in the Cape Cod National Seashore: A multivariate approach to long-term monitoring. pp. 383-295 in William E. Brown and Stephen D. Viers, Jr. (editors). *Partners in Stewardship: Proceedings of the Seventh Conference on Research and Resource Management in Parks and on Public Lands*. Hancock, Michigan: The George Wright Society. 479 pp.
- Dunwiddie, P. W., W. A. Patterson III and R. E. Zaremba. 1995. Evaluating changes in vegetation from permanent plots: An example from sandplain grasslands in Massachusetts. pp. 245-250 in *Ecosystem Monitoring and Protected Areas* edited by T.B. Herman, S. Bondrup-Nielsen, J.H. Martin Willison, & N.W.P. Munro. Science and Management of Protected Areas Association, Wolfville, Nova Scotia.
- Aizen, M. A. and W. A. Patterson III. 1995. Leaf phenology and herbivory along a topographically determined temperature gradient: a spatial test of the phenological window hypothesis. *Journal of Vegetation Science* 6:543-550.
- Woodcock, H., K. M. Davies, Jr. and W. A. Patterson III. 1997. Ash decline in Massachusetts: Stand risk assessment using site factors. *Northern Journal of Applied Forestry* 14(1): 10-15.
- Clark, J. S. and W. A. Patterson III. 1997. Background and local charcoal in sediments: Scales of fire evidence in the paleorecord. pp. 23-48 in J.S. Clark, H. Cachier, J.G. Goldammer, and B. Stocks (eds.) *Sediment Records of Biomass Burning and Global Change*. NATO ASI series. Series I, Global Environmental Change; no. 51. Springer-Verlag, Berlin.
- Bradbury, J. P., G. Dubay, J. G. Goldammer, and W. A. Patterson III. 1997. Report of the working discussion groups. pp. 463-482 in J.S. Clark, H. Cachier, J.G. Goldammer, and B. Stocks (eds.) *Sediment Records of Biomass Burning and Global Change*. NATO ASI series. Series I, Global Environmental Change; no. 51. Springer-Verlag, Berlin.
- Dunwiddie, P.W., W.A. Patterson III, J.L. Rudnicki, and R.E. Zaremba. 1997. Vegetation management in coastal grasslands on Nantucket Island, Massachusetts: Effects of burning and mowing from 1982-1993. pp. 85-98 in P.D. Vickery and P.W. Dunwiddie (eds.) *Grasslands of northeastern North America: ecology and conservation of native and agricultural landscapes*. Massachusetts Audubon Society, Lincoln, MA.
- Rudnicki, J.L., W.A. Patterson III, and R.P. Cook. 1997. Experimental use of prescribed fire for managing grassland bird habitat at Floyd Bennett Field. pp. 99-118 in P.D. Vickery and P.W. Dunwiddie (eds.) *Grasslands of northeastern North America: ecology and conservation of native and agricultural landscapes*. Massachusetts Audubon Society, Lincoln, MA.
- Stevens, A. and W.A. Patterson III. 1998. Millennium-long fire and vegetation histories of pocosins in southeastern Virginia. *Natural Heritage Technical Report #98-17*. Virginia Department of Conservation and Recreation, Division of Natural Heritage. Richmond, VA. 35 pp.
- Motzkin, G., W.A. Patterson III, and D.R. Foster. 1999. A regional-historical perspective on uncommon plant communities: Pitch pine-scrub oak in the Connecticut Valley, Massachusetts. *Ecosystems* 2:255-273.
- Copenheaver, C.A., A.S. White and W.A. Patterson III. 2000. Determinants of vegetation development within a southern Maine pitch pine-scrub oak ecosystem. *Journal of the Torrey Botanical Society* 127(1):19-23.
- Wade, D.D., B.L. Brock, P.H. Brose, J.B. Grace, G.H. Hock, and W.A. Patterson III. 2000. Chapter 4. Fire in Eastern Ecosystems. pp. 53-96 in J.K. Brown and J.K. Smith (eds.) *Wildland Fire in Ecosystems: Effects of Fire on Flora*. USDA Forest Service General Technical Report RMRS-GTR-42-Vol. 2. USDA Forest Service, Rocky Mountain Research Station, Ogden, UT. 257 pp.
- Richburg, J.A., W.A. Patterson III, and F. Lowenstein. 2001. Effects of road salt and *Phragmites australis* invasion on the vegetation of a western Massachusetts calcareous lake-basin fen. *Wetlands* 21(2):247-255
- Richburg, J.A., A.C. Dibble, and W.A. Patterson III. 2001. Woody invasive species and their role in altering fire regimes of the Northeast and Mid-Atlantic states. Pp. 104-111 in K.E.M. Galley and T.P. Wilson (eds.) *Proceedings of the Invasive Species Workshop: the Role of Fire in the Control and Spread of Invasive Species*. Fire Conference 2000: the First national Congress on Fire Ecology, Prevention, and Management. Miscellaneous Publication No. 11, Tall Timbers Research Station, Tallahassee, FL.
- Jordan, M.A., W.A. Patterson III, and A. G. Windisch. 2003. Conceptual ecological models for the Long Island Pitch Pine Barrens. *Forest Ecology and Management* 185 (1-2):151-168.
- Richburg, J.A. and W.A. Patterson III. 2005. Historical vegetation of the Boston Harbor Islands National Recreation Area. *Northeastern Naturalist* 12(Special Issue 3):13-30.
- Patterson, W.A. III, J.A. Richburg, K.H. Clark, and S. Shaw. 2005. Paleoecology of Calf Island in Boston's outer harbor. *Northeastern Naturalist* 12(Special Issue 3):31-48.

- Patterson, William A. III. 2006. The paleoecology of fire and oaks in eastern forests. In: Dickinson, Matthew B., ed. 2006. Fire in eastern oak forests: delivering science to land managers, proceedings of a conference; 2005 November 15-17; Columbus, OH. Gen. Tech. Rep. NRS-P-1. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 2-19. (<http://www.nrs.fs.fed.us/pubs/8429>)
- Clarke, G.L. and W.A. Patterson III. 2007. The distribution of rare plants in a coastal Massachusetts sandplain: Implications for conservation and management. *Biological Conservation* 136:4-16.
- Schauffler M., S.J. Nelson, J.S. Kahl, G.L. Jacobson, Jr., T.A. Haines, W.A. Patterson III, and K.B. Johnson. 2007. Paleocological Assessment of Watershed History in PRIMENet Watersheds at Acadia National Park, USA. *Environmental Monitoring and Assessment* 126(1-3):39-53.
- Duveneck, M.J. and W.A. Patterson. 2007. Characterizing canopy fuels to predict fire behavior in pitch pine stands. *Northern Journal of Applied Forestry*. *Northern Journal of Applied Forestry* 24(1): 65-70.
- Ohman, M., W.A. Patterson III and J.A. Richburg. 2007. Fuel bed characteristics and fire behavior in catbrier shrublands. Pages 203–209 in R.E. Masters and K.E.M. Galley (eds.). *Proceedings of the 23<sup>rd</sup> Tall Timbers Fire Ecology Conference: Fire in Grassland and Shrubland Ecosystems*. Tall Timbers Research Station, Tallahassee, Florida, USA.
- Patterson, W.A. III, and G.L. Clarke. 2007. Restoring barrens shrublands: decreasing fire hazard and improving rare plant habitat. Pages 73–82 in R.E. Masters and K.E.M. Galley (eds.). *Proceedings of the 23<sup>rd</sup> Tall Timbers Fire Ecology Conference: Fire in Grassland and Shrubland Ecosystems*. Tall Timbers Research Station, Tallahassee, Florida, USA.
- Neill, C., W.A. Patterson III and D.W. Crary, Jr. 2007. Responses of soil carbon, nitrogen and cations to the frequency and seasonality of prescribed burning in a Cape Cod oak-pine forest. *Forest Ecology and Management* 250:234-243.
- Barron, E. and W.A. Patterson III. 2008. Monitoring the effects of gypsy moth defoliation on forest stand dynamics on Cape Cod, Massachusetts: sampling intervals and appropriate interpretations. *Forest Ecology and Management* 256:2092-2100.

#### **Projects and Grants (since 1990):**

- Massachusetts Natural Heritage Program. "Inventory of Priority Natural Community Types in the Connecticut River Valley." \$8,500. 1991-1992.
- National Park Service. "Response of Cape Cod National Seashore Ecosystems to Long-Term Fire Suppression." \$90,000. (with Peter Dunwiddie) 1991-1994.
- National Park Service. "Assessment of Prescribed Fire in Grassland Habitat Restoration at Floyd Bennett Field, Brooklyn, NY, Gateway NRA." \$36,000. 1992-1993.
- Maine Chapter. The Nature Conservancy. "Fire History and Fire Management at the Waterboro Barrens." \$6,000. 1992-1994.
- Massachusetts Natural Heritage Program. "Pine Barrens of the Connecticut River Valley" \$2,000. 1993 - 1994.
- Albany Pine Bush Commission. "Analysis of Landscape-level Plot Data; Albany Pine Bush, 1990-1993." \$11,000. 1993-1995.
- George Washington National Forest. "1000-year Fire History for Two GWNF Sites." \$9,000. 1993-1995.
- National Park Service. "Fire Management Plan for Assateague Island National Seashore." \$5400. 1993-1994.
- The Nature Conservancy/Mellon Foundation. "Fire Behavior, Fire Ecology and Site Relations in Northeastern Barrens Ecosystems." \$193,503. (with Alan White) 1994-1997.
- National Park Service. "Ten-year Reassessment of Vegetation and Fuels at Acadia National Park." \$20,000. 1994-1995.
- The Nature Conservancy/Virginia Division of Natural Heritage. "1000-year Reconstructions of Pocosin Fire and Vegetation History." \$16,250. 1994-1995.
- The Nature Conservancy. "Comparative Fire and Land-Use Histories of Northeastern Pine Barrens." \$5,000. 1994-1995.
- National Science Foundation. "The Paleoecology of Coastal Sandplain Grasslands on the Island of Martha's Vineyard, Massachusetts." \$3,656. 1994-1995.
- Massachusetts Department of Environmental Management. "Fuel Hazard Assessment for Southeastern Massachusetts Pitch Pine Scrub Oak Barrens Vegetation." \$18,000. 1996.
- National Park Service. "Acadia National Park Prescribed Fire Implementation." \$12,000. 1996-1997.

- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. "Pitch Pine/Scrub Oak Restoration Project." \$46,860. (with Curtis Griffin). 1997.
- U.S. Fish and Wildlife Service. "Fire History and Effects Evaluation for New Jersey National Wildlife Refuges." \$3,565. 1997.
- National Park Service. "Fire Management Mapping and Fuel Model Behavior Prediction - Cape Cod National Seashore." \$18,750. 1997.
- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. Ecological Restoration Program. "1998 Vegetation Restoration Work." \$18,645. 1998.
- The Nature Conservancy/Massachusetts Field Office. "Preliminary Fire and Vegetation History for the Hyannis Ponds Area, Massachusetts." \$1,000. 1998.
- The Nature Conservancy/New Hampshire Chapter Office. "Fuel Load Measurement and Custom Fuel Model Development - Ossipee, NH and Waterboro, ME." \$5,700. 1998.
- U.S. Forest Service. "Fire Management Planning and Natural Community Restoration on Martha's Vinyard, MA." \$52,000. 1998-1999.
- U.S. Forest Service - White Mountain National Forest. "Fire History for New England National Forests." \$15,824. 1998-99.
- Massachusetts Army National Guard. "Fire History, Fire Management Plans, and Digital Forest Cover Map for Camp Edwards Training Site, Bourne, Massachusetts." \$51,000. 1998-1999.
- The Nature Conservancy. "Vegetation and Pollen Analysis for the Schenob Brook Wetlands." \$31,000. 1998-2000.
- The Nature Conservancy. "Vegetation and Fire History for the Sussex Swamp (NJ) Wetland." (with Charles Ruffner) \$4,400. 1998-1999.
- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. Ecological Restoration Program. "Montague, Crane, and Mary Dunn Pond Projects." \$23,000. 2000.
- National Geographic. "Relationship of changes in northeastern forest composition to prehistoric land-use." (with Andrew Sluyter, Penn State, and Charles Ruffner, So Illinois Univ.) \$13,349. 2000-2002.
- Joint Fire Science Program. "Fire Management Options to Control Woody Invasive Plants In the Northeastern and mid-Atlantic States." (with Alison Dibble, USFS) \$431,433. 2000-2004.
- National Park Service. "Historic Landscapes of the Boston Harbor Islands." \$40,000. 2000-2003.
- Wampanoag Tribe of Gay Head. "Fire Management Plan for Wampanoag Tribal Lands at Aquina." \$8,475. 2000-2001.
- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. Ecological Restoration Program. "Fire Management and Common Reed Evaluation." (with Robin Harrington) \$78,800. 2001-2002
- Narragansett Indian Tribe. "Fire Management Plan for the Narragansett Indian Tribe." \$9,018. 2002-2003.
- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. Ecological Restoration Program. "Fire Management at the Montague Plain Wildlife Management Area." (with Robin Harrington) \$43,000. 2002-2003.
- Massachusetts Department of Environmental Management. "Applied Research and Monitoring – Wildland Fuel Modification Project." (with Paul Sievert and Matthew Kelty) \$200,001. 2002-2005.
- National Park Service. "Forest Management Plan for Morristown National Historical Park." \$42,000. 2003-2005.
- Joint Fire Science Program. "Fuel Management Options for Northeastern Barrens." (with David Crary, NPS) \$269,000. 2003-2006.
- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. Ecological Restoration Program. "Fire Management at the Montague Plain Wildlife Management Area." \$23,000. 2003-2004.
- Cape Cod National Seashore. "Fire Management Planning & Research - CACO - CESU Cooperative Agreement." \$33,000, 2004.
- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. Ecological Restoration Program. "Fire Management at the Montague Plain Wildlife Management Area." \$17,000. 2004-2005.
- Massachusetts Division of Fisheries, Wildlife and Environmental Law Enforcement. Ecological Restoration Program. "Fire Management at the Montague Plain Wildlife Management Area." \$82,000. 2007-2010.
- Cape Cod National Seashore. "Evaluating effectiveness of fuels treatments designed to mitigate the effects of wildfires in the flammable pitch pine-oak forest vegetation of the Atlantic coastal plain." \$125,000. 2007-2012.