

**C. Ken Smith, Ph.D.**  
**Professor of Practice and Microcampus Director**  
**University of Arizona**  
**Tucson, Arizona, USA**  
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**EDUCATION:**

University of Florida, Gainesville, Florida  
Ph.D., 1996 Forest Resources and Conservation  
M.S., 1992 Forest Genetics  
Colorado State University, Fort Collins, Colorado  
B.S., 1986 Major: Forestry

**ADMINISTRATIVE EXPERIENCE:**

**Professor of Practice and Micro-campus Director, University of Arizona, Department of Environmental Sciences, 2021 – present.** Responsible for coordinating the new UA microcampus at the Northwest Agriculture and Forestry University in Yangling, China. Specific duties include teaching environmental science courses to Chinese students enrolled in the dual UA/NWAFU degree program, hiring additional faculty to teach in the program, mentoring younger faculty working in China, finding ways to promote joint research efforts between the two universities, and coordinating activities in China with UA's Department of Environmental Sciences and Global Programs as well as with our Chinese colleagues at NWAFU. I also mentor the 85 sophomores currently in the program, and I am eligible to sit on committees for graduate students from UA.

**Co-chair, Earth and Environmental Systems Department, 2016 – 2020.** The Department of Earth and Environmental Systems housed 90 student majors in forestry, geology, natural resources, and environment and sustainability, and we also supervised Sewanee's watershed science certificate. As co-chair, I supervised the following: 1) the department operating budget as well as seven other restricted and unrestricted accounts related to department activities, 2) teaching schedules, 3) student progress towards degree completion, 4) contacts with alumni, 5) job postings, 6) faculty reviews, and 7) faculty searches (I chaired six searches).

**Assistant Dean, Integrated Program in the Environment, 2016 – 2019.** This position was created to better coordinate efforts among our environmentally oriented academic departments and programs. Thirty-five faculty and staff were involved in Sewanee's Integrated Program in the Environment, as well as 150 students in six different majors. Specific tasks assigned to this position included 1) providing vision and leadership for environmental activities in the college, 2) overseeing the communication about events in the college and university about the environment, 3) communicating with Sewanee's sustainability director to make sure efforts are coordinated across campus, 4) ensuring Sewanee's participation in key national meetings such as AASHE, AESS, and NCSE, and 5) working with the Dean to seek funding through the campaign to support plans for the growth of environmental studies in the College. I also worked closely with our land

management staff to write the 2019 Domain Management Plan (a ten-year land use plan), and supervised Sewanee's summer environmental program for high school students.

**Island Ecology Program, 2011 – 2021.** Co-directed Sewanee's Island Ecology Program on St. Catherine's Island off the coast of Georgia. The program consisted of a 14 week reading course followed by a 6-week intensive field course examining the geology, soils, land use, and plant, invertebrate, and wildlife populations on the island and surrounding marshes. I supervised budget development, program expenditures, student recruitment and island logistics.

**Forest Stewards Guild Board of Directors, 2010 – 2021.** This board is the governing body of the Forest Guild. Headquartered in Santa Fe, NM, the Guild is a national organization of more than 700 foresters, allied professionals, and supporters who manage forestlands in the United States and Canada and advocate for ecologically sound forest practices. The Guild maintains a presence nationwide with staff and volunteer coordinators in 12 states and nearly all major forest regions of the country. Reviewed and approved annual budgets (\$1.3 million annual), made national programmatic decisions, and participated in national strategic planning sessions.

**Sewanee Utility District Board of Commissioners, 2006, 2009- 2017.** Publicly elected seat on a five-member board. The board assists the utility manager with the supervision and oversight of the utility district, which covers 40 square miles. The board deals with issues related to water treatment and distribution, the wastewater treatment facility (a 70-acre spray field that is managed for forest products), reservoir management, sewer and water line management, budget management (\$1.3 million annual budget), and regional water planning. Attended monthly public meetings to discuss utility business and water issues.

**University Forester, 2000 – 2006, 2009- 2016.** Participated in the management team that is responsible for Sewanee's 13,000-acre forest which is owned and managed by the University of the South. Management issues included forest restoration, housing development, recreational uses, wildlife management, and land acquisition and protection. Supervised timber contracts and forest harvesting operations (20 projects), conducted 60 prescribed burns, supervised collection and analysis of forest monitoring data (continual), worked with stakeholders to write two forest management plans (2003 and 2019). I also maintained my Tennessee burn manager certification.

**Valles Caldera Trust, 2010 – 2015.** White House appointment (US Presidential appointment and US Senate nomination) to serve on the nine-member managerial board of the Valles Caldera National Preserve (New Mexico). The Valles Caldera Trust was designed to perform management and administrative services for the Preserve, establish and implement management policies, and to cooperate with federal, state, and local officials as well as the adjacent tribes and pueblos. Participated in annual budget review and approval (\$5 million annual), public presentations of preserve actions and planned actions, reviewed management and strategic plans, interacted with public interest groups (environmental groups, cattle herders, tribal representatives, recreation groups) and key

political figures. Prepared testimony for Senate subcommittee hearing. Attended quarterly meetings lasting 2-3 days, including ½ day public meetings.

**Chair, Kentucky –Tennessee Society of American Foresters, 2014- 2015.** Elected in 2013 and served as chair in 2015. Sat on the executive committee for the chapter which had close to 300 members across the two states. Communicated with the national office regarding matters of membership, national meetings, and policy activities in the southeast.

**Resource Advisory Committee, Cherokee National Forest.** 2010 - 2015. US Secretary of Agriculture appointment to serve on the 15-member advisory board for the Cherokee N.F. The Secure Rural Schools Resource Advisory Committee (RAC) provides advice and recommendations to the Secretary of Agriculture through the Forest Service on the development and implementation of special projects on federal lands as authorized under the SRS Act. Attended multiple public meetings (6, ½ day meetings) with USFS representatives, county government officials, and local stakeholders to review and approve proposed projects.

**Director, New Mexico Forest and Watershed Restoration Institute, Las Vegas, New Mexico, 2007 - 2009.** The NMFWRI, established by federal law in 2004, has an extension-oriented mission to improve forest and watershed health across New Mexico. The NMFWRI collaborates with federal, state, tribal, and private land managers and assists stakeholders with post- and pre-treatment monitoring and inventory, prescriptions, mapping requests, and forestry-oriented short courses. Raised staffing levels from one full time staff to six permanent employees, five students (graduate and undergraduate), and ten contractors while operating on an annual budget of \$930,000. Organized several statewide workshops, wrote proposals for project specific grants with federal and state agencies, organized annual work plans and financial reporting, and traveled extensively across the state to collect field data, give presentations at various venues, and develop projects with our partners.

**Chair, Environmental Studies Program, University of the South 2001-2006.** Directed the expansion of the program from the concentration level (2-4 students per year) to 4 majors (45 students per year). Worked with the Development Office to fund summer internships and to establish an annual award for environmental service on campus. Developed the program web site and recruiting materials with Sewanee's Admissions Department. Managed the annual budget and curricular changes, as well as program interaction with the Dean and off-campus entities.

### **TEACHING EXPERIENCE:**

#### **Professor of Practice and Microcampus Director**

Department of Environmental Science, University of Arizona dual degree program, Northwest Agriculture and Forestry University, Yangling, China.

Currently teach ENVS 210 (Fundamentals of Environmental Science), ENVS 200-201 (Soil Science), and Careers in Environmental Science (ENVS 195) to 85 students at NWAUFU.

**Professor of Forestry and Environmental Studies**

University of the South, Sewanee, TN 1998 – 2006, 2009-2021

Courses taught included Island Ecology (EnSt 240), Forest and Watershed Restoration (FOR 262), Native Americans and Land Use (EnSt 230), Forest Soils (FOR/GEO 303), Tropical Forest Ecology and Management (FOR 212), Introduction to Forestry (FOR 121), Natural Resource Issues and Policies (FOR 201), Soils and Cultivation (FOR 203), Introduction to Environmental Studies (ENST 101), Junior Presentations (FOR/GEO332), and Senior Seminar (FOR/GEO 432). I supervised approximately 25 student independent projects during this time period in subjects ranging from forest inventory and analysis to an assessment of campus utility costs and potential savings.

**PROFESSIONAL EXPERIENCE:**

**Science and Education Coordination Committee** for the National Ecological Observatory Network (NEON, Inc) Domain 7 region (includes Tennessee, Kentucky, and parts of Ohio and Virginia), 2009 – 2010. This committee was a means by which NEON, Inc. provided status reports and research results to stakeholders that broadly represented the ecological science and education communities across the US.

**Chair**, Southeastern TN Section of the Kentucky-Tennessee Chapter, Society of American Foresters, 2004-2006, 2011-2012. Organized bi-annual section meetings and triennial chapter meetings with SAF members.

**Forester**, US Peace Corps, United Nations-FAO Watershed Protection Project, Guinea, West Africa, 1986 – 1989. Supervised 10 plant nursery workers, made vegetation maps in multidisciplinary and international teams, worked closely with Guinean counterparts in water development projects, spent three months helping train new volunteers.

**Forest Ecology Technician**, U.S. Forest Service, Siskiyou National Forest, Grants Pass, Oregon, spring/summer 1990 (GS5), Spruce-Fir Community Ecology Project, Colorado State University, Roosevelt National Forest, Colorado, summer/fall 1985, U.S. Forest Service, St. Joe National Forest, Avery, Idaho, summer 1984 (GS3). Collected forest ecology and silvicultural data in remote settings that required camping on site. Worked in teams of 3-5 people.

**PEER-REVIEWED PUBLICATIONS:**

Ji W., Huang, Y., Qian, X., Bai, E., **Smith, K.**, Li Z. 2022. Conversion from farmland to orchards has minor effects on nitrogen biological processes in deep loess deposits. *Agriculture, Ecosystems and Environment*. 338.  
<https://doi.org/10.1016/j.agee.2022.108111>

Y. Li, S.M. Shaheen, M. Azeem, L. Zhang, C. Feng, J. Peng, W. Qi, J. Liu, Y. Luo, Y. Peng, E.F. Ali, **K. Smith**, J. Rinklebe, Z. Zhang, R. Li. 2022. Removal of lead (Pb<sup>2+</sup>) from contaminated water using a novel MoO<sub>3</sub>-biochar composite: Performance and mechanism. *Environmental Pollution*, 308, 2022.

**K. Smith**, A.J. Turner, J.K. Hiers, J. Garai, W.N. Wilson, A.N. Nunley. 2020. The effects of oak-hickory restoration on forest trajectory and small mammal use on the southern Cumberland Plateau. *Fire Ecology*, 16, 20. September 2020.

**K. Smith**, L. Tidwell, S. Sherwood, S. Pokwinski, K. Hiers. 2019. Legacies of past land use on the southern Cumberland Plateau. *Natural Areas Journal*, 39(2): 264-274.

**K. Smith**, E. Landreaux, H. Steinmann, D. McGrath, C. Hayes, R. Hayes. 2016. Redbay survival eleven years after infection with an exotic disease on St. Catherines Island, Georgia. *Environment and Natural Resources Research*, Vol 6, pp. 27-34.

**K. Smith**, E. Landreaux, H. Steinmann, R. Hayes, A. Keith-Lucas, C. Hayes. 2015. Climate, deer and hogs: Drivers of rapid change in a hickory-dominated maritime forest on St. Catherines Island. *Natural Resources*, 6(1), 9-15.

McGranahan, DA, CB Henderson, JS Hill, GM Raicovich, WN Wilson, & **C.K. Smith**. 2014. Patch-burning improves forage quality, creates grass-bank in old-field pasture: Results of a demonstration trial. *Southeastern Naturalist*, 13(2):200-207.

McGranahan, DA, GM Raicovich, WN Wilson, **C.K. Smith**. 2013. Preliminary evidence that patch burn-grazing creates spatially-heterogeneous habitat structure in old-field grassland. *Southeastern Naturalist*, 12(3):655-660.

**K. Smith** and D.A. McGrath. 2011. Shellfish deposition by Native Americans: Changes in soil chemistry on a Georgia (USA) barrier island. *Journal of Coastal Research*, 27(1), 103-109.

D. Lemoine, J. Evans, **C.K. Smith**. 2006. A landscape-level GIS analysis of streamside management zones on the Cumberland Plateau. *Journal of Forestry*, 104: 125-131.

McGrath, D.A. and **C.K. Smith**. 2006. The Sweet Earth: a Biogeochemistry Perspective on Tropical Deforestation. In: Tropical Deforestation Exploring Environmental Challenges: A Multidisciplinary Approach. S. L. Spray and M. D. Moran (eds), Acada Books.

**C.K. Smith**, M. Coyea, and A. Munson. 2005. The response of fine roots to fertilized ingrowth cores in burned and harvested black spruce ecosystems. *Communications in Soil Science and Plant Analysis*, 36:1361-1372.

McGrath, D.A., J.P. Evans, **C.K. Smith**, D.G. Haskell, N.W. Pelkey, R.R. Gottfried, C.D. Brockett, M.D. Lane, E. D. Williams. 2004. Mapping land-use change and

monitoring the impacts of hardwood-to-pine conversion on the southern Cumberland Plateau in Tennessee. *Earth Interactions* 8:1-24.

**C.K. Smith**, H.L. Gholz, and F. de Assis Oliveira. 2002. Soil carbon storage and dynamics after forest conversion to plantations in lowland Amazonia, Brazil. *Forest Ecology and Management* 164: 257-263.

McGrath, D., **K. Smith**, H. Gholz, and F. de Assis Oliveira. 2001. Land use effects on soil nutrient dynamics in Amazonia: A review of previous work. *Ecosystems* 4: 625-645.

**C.K. Smith**, M. Coyea, and A.D. Munson. 2000. Soil carbon, nitrogen, and phosphorus stocks and dynamics in disturbed black spruce forests. *Ecological Applications*. 10(3):775-788.

**K. Smith**, A. Munson, M. Coyea, A. Wallstedt, and H. Margolis. 1999. Comparative studies of CPRS (cut with protection of regeneration and soils) and natural disturbance by fire: developing a basis for sustainable practices in black spruce ecosystems. *Proc. of the 1999 Sustainable Forest Management Network Conference*, Edmonton, Alberta, Feb. 1999. pp. 436-441.

**C.K. Smith**, H.L. Gholz, and F. de Assis Oliveira. 1998. Soil nitrogen dynamics and plant-induced soil changes under plantations and primary forest in lowland Amazonia, Brazil. *Plant and Soil*. 200:193-204.

**C.K. Smith**, H.L. Gholz, and F. de Assis Oliveira. 1998. Fine litter chemistry, early-stage decay, and nitrogen dynamics under plantations and primary forest in lowland Amazonia. *Soil Biology and Biochemistry*. 30(14): 2159-2169.

**C. K. Smith**, A.D. Munson, and M.R. Coyea. 1998. Nitrogen and phosphorus release from humus and mineral soil under black spruce forests in central Quebec. *Soil Biology and Biochemistry*. 30(12): 1491-1500.

**Ken Smith**, Henry L. Gholz, and Francisco de Assis Oliveira. 1998. Litterfall and nitrogen-use efficiency of plantations and primary forest in the eastern Brazilian Amazon. *Forest Ecology and Management*. 109:209-220.

**C.K. Smith**, T.L. White, G.R. Hodge, M.L. Duryea, and A.J. Long. 1993. Genetic variation in first-year slash pine shoot components and their relationship to mature field performance. *Canadian Journal of Forest Research*. 23: 1557-1565.

**C.K. Smith**, T.L. White, and G.R. Hodge. 1993. Genetic variation in second-year slash pine shoot traits and their relationship to 5- and 15-year volume in the field. *Silvae Genetica*. 42: 266-275.

#### **EXTENSION ARTICLES AND WHITE PAPERS:**

Sewanee's Domain Management Plan, 2019-2029. 2019. Office of Environmental Stewardship and Sustainability, The University of the South, Sewanee, TN.

Working group report. 2012. Forest Biomass Retention and Harvesting Guidelines for the Southeast. Forest Guild Southeast Biomass Working Group. Forest Guild, Santa Fe, New Mexico. 18 pp.

Wilson, N. and **K. Smith**. 2010. Prescribed fire and oak regeneration. *Forest Wisdom #16*, Forest Guild, Santa Fe, NM.

**Smith, K.** and S. Rich. 2009. Restoration in New Mexico Watersheds: The Uplands. *Southwest Hydrology*. 8: 30-32.

**Smith, C. K.**, J. Youtz, A. Bradley, D. Allen-Reid, Z. Evans, M. Johnson, B. Bird, C. Bada, P. Fulé. 2008. Climate Change and Mixed Conifer/Aspen Systems in New Mexico: Considerations for Land Managers. New Mexico Forest and Watershed Restoration Institute, Restoration Working Paper 7 (20 pp.), New Mexico Highlands University, Las Vegas, NM.

**Smith, K.**, W. Dunn, M. Zaksek. 2008. Involving Rural Communities in Forest Management: New Mexico's Collaborative Forest Restoration Program. New Mexico Forest and Watershed Restoration Institute, Restoration Working Paper 4 (10 pp.), New Mexico Highlands University, Las Vegas, NM.

Savage, M. T. Derr, A. Evans, E. Krasilovsky, **K. Smith**, H. Carey. 2008. Short guide for developing CFRP prescriptions. New Mexico Forest and Watershed Restoration Institute, Working Paper 1 (20 pp.), New Mexico Highlands University, Las Vegas, NM.

**Smith, C.K.** 2005. Redefining the role of natural resource extraction in forest conservation (book review). *BioScience* 55:625-626.

Burckle, J. and **K. Smith**. 2003. 2003 Management Plan: Beyond Sewanee's Central Campus: A Ten-Year Strategic Plan for the Domain. University of the South, Office of Domain Management (34 pp.), Sewanee, TN.

**K. Smith**, H.D. Davignon, and A.D. Munson. 1997. Report on the Development of Indicators for the Criteria of the Canadian Council of Forest Ministers. The Maintenance and Improvement of Forest Ecosystem Productivity. Quebec Minister of Natural Resources, Quebec City, Canada.

**C.K. Smith** 1996. Book Review of the Literature of Forestry and Agroforestry. P. McDonald and J. Lassoie Eds. *Agroforestry Systems*.34:221-224.

**K. Smith** and L. Clark. 1986. A note about the Australian Acacias introduced on the Fouta Djallon Plateau, Guinea (in French). UNDP- FAO/US Peace Corps.

## **PRESENTATIONS:**

D. McGrath and **K. Smith**. 2022. Payment for carbon sequestration improves incomes, promotes agroforestry, and recarbonizes degraded lands in Haiti. 2022 Silk Road International Conference, Northwest Agriculture and Forestry University, November 2022.

**K. Smith**. 2022. China and carbon neutrality: The importance of soil carbon storage and land use in the northern provinces. 2022 Yangling International Agri-Science Forum, Northwest Agriculture and Forestry University, Shaanxi Province, China.

**K. Smith**, S. Sherwood, D. McGrath, K. Hiers, S. Powkwinski. 2021. Soil legacies on the Southern Cumberland Plateau and on St. Catherine's Island, Georgia. 2021 Silk Road International Conference, Northwest Agriculture and Forestry University, October 2021.

**K. Smith**, A.J. Turner, W.N. Wilson, A. N. Nunley. 2021. Forest restoration in the southeastern United States. Qinling Forestry Research Institute, Northwest Agriculture and Forestry University, Yangling, Shaanxi Province. November 2021.

**K. Smith**, A.J. Turner, W.N. Wilson, N. Nunley. 2021. Forest restoration and small mammal use of restored sites in Tennessee. 2021 Forest Stewards Guild Nation meeting, Asheville, N.C.

**K. Smith**, A.J. Turner, W.N. Wilson, N. Nunley, K. Fouts. 2019. The challenges of conducting oak restoration on private lands in southern Tennessee. 2019 Society of American Foresters National Conference, Louisville, Kentucky.

N. Wilson, **K. Smith**, A.J. Turner. 2019. Ten years of oak/pine woodland creation in the Cumberland Plateau. 5th Biennial Shortleaf Pine Conference, Van Buren, Missouri.

**K. Smith**, N. Wilson, N. Nunley, A.J. Turner, K. Fouts. 2019. Restoring planted pine to oak in the southern Cumberland Plateau. 6<sup>th</sup> Fire in the Eastern Oak Forests Conference, State College, Pennsylvania.

**K. Smith** and N. Wilson. 2018. A 102-year history of fire and prescribed fire at Sewanee. Alabama Prescribed Fire Council Annual Meeting, October 2018.

**K. Smith**, Fowler, E., Wilson, N. Nunley, N., Schnauffer, V. 2017. Using thinning and prescribed fire to regenerate oak on private lands on the Cumberland Plateau. Oak Symposium, Knoxville, TN.

**K. Smith** and Wilson, N. 2017. Oak management with thinning and burning treatments in Sewanee. Fire and forest management workshop, Tullahoma, TN.

**K. Smith** and Wilson, N. 2015. Fire on private lands: Converting planted pine to oak in the southern Cumberland Plateau. 5<sup>th</sup> Fire in Eastern Forest Conference, Tuscaloosa, Alabama.



**K. Smith.** 2014. Forest restoration on the Cumberland Plateau: Ecological success or boondoggle? Invited lecture, University of Tennessee at Chattanooga.

**K. Smith.** 2012. Forest Guild Biomass Harvesting Guidelines for the Southeast US. Short rotation woody crops operations meeting, Oak Ridge, TN.

McGrath, D.A. **and K. Smith.** 2010. Shell middens change soil chemistry on a Georgia (USA) barrier island, 95<sup>th</sup> Annual Meeting of the Ecological Society of America, Pittsburg, PA.

**K. Smith.** 2009. Invited lecture: Opportunities to incorporate the ecological values of forests during land use change. University of Florida/IFAS, Hillsborough County, FL.

2007-2008. Multiple presentations concerning forest restoration and woody biomass utilization in New Mexico at various venues including New Mexico State University, New Mexico Tech, the Collaborative Forest Restoration Program Annual Meeting, New World Biomass Conference, the New Mexico Watershed Forum, the New Mexico Forests and Climate Change Workshop, and for US Senate and House staffers in Washington, D.C as well as state legislators and committees in Santa Fe.

J. Zebrowski, P. Dappen, **K. Smith.** 2008. Fire History and Forest Fuel Reduction Efforts in the Estancia Basin of New Mexico – Learning from the November 2007 Ojo Peak Fire. 12th Biennial Forest Service Remote Sensing Applications Conference, Salt Lake City, UT.

McGrath, D., **Smith, K.**, Gray, M.B., Hinkle, M., Merrill, H., Shaffer, J. 2006. Assessing economic and ecological costs of the exurbanization of forest and farmland at the wildland-urban interface on Tennessee's southern Cumberland Plateau. 91<sup>st</sup> Ecological Society of America Conference, Memphis, TN.

**K. Smith,** D. McGrath, M.B. Gray, H. Merrill, M. Hinkle. 2006. The changing face of rural Tennessee: Urban development in farmland and forest. 22<sup>nd</sup> Annual Conference of the Organization of Wildlife, Land, and Realty Specialists. Chattanooga, TN.

**K. Smith,** D. McGrath, K. Willis, M.B. Grace, M. Hinkle, H. Merrill. 2005. Five acres and a McMansion. Is this the fate of rural farmland and forest in Tennessee? 10<sup>th</sup> Annual Forest Guild Meeting, Santa Fe.

**K. Smith,** D. McGrath, J. Evans. 2005. Tracking forest change in the Southern Cumberland Plateau. Southern Roundtable on Sustainable Forests. Asheville, NC.

**K. Smith.** 2005. Forest management at Sewanee. Kentucky/Tennessee SAF Annual Summer Meeting, Sewanee, TN.

**K. Smith.** 2004. Environmental performance of uneven-aged approaches contrasted with plantation systems, examples from the Cumberland Plateau. Keeping the Forest 2004. The Pioneer Forest, Salem, Missouri.

McGrath, D., **K. Smith**, J. Kingston, J. Evans, D. Haskell, R. Gottfried. 2003. Mapping Land Use Change and Monitoring Ecological Impact on the Cumberland Plateau in Southern Tennessee. American Geophysical Union, Biogeochemistry sub-group. Santa Fe, New Mexico, June 2003.

**Smith, K.**, J. Burckle, E. Ogilvie. 2002. One hundred and four years of forest management at Sewanee. Annual Convention of the Society of American Foresters, Winston-Salem, North Carolina, October 2002.

**Smith, C. K.**, A. Munson, and M. Coyea. 2000. Fine root responses to microsite nutrient additions in disturbed black spruce ecosystems. 85<sup>th</sup> Annual Meeting, Ecological Society of America, Snowbird, Utah, August 2000.

McGrath, D., **K. Smith**, H. Gholz, and F. de Assis Oliveira. 2000. Land use effects on soil nutrient dynamics in Amazonia: A review of previous work. 1<sup>st</sup> NASA Large-scale Biosphere and Atmosphere Scientific Conference, Belem, Para, Brazil, June 2000.

Coyea, M., A. Munson, **K. Smith**, H. Margolis, and R. Paquin. 2000. Soil CO<sub>2</sub> fluxes and temperatures of harvested and fire-origin sites in boreal black spruce ecosystems. The Role of Boreal Forests and Forestry in the Global Carbon Budget, An International Science Conference. Edmonton, Alberta, May 2000.

McGrath, D.A., **C. K. Smith**, H. L. Gholz, F. de Assis Oliveira. 1999. Changes in soil N, P, and Ca cycling after forest conversion to other land uses in the Amazon Basin: A literature review. 84<sup>th</sup> Annual Meeting of the Ecological Society of America, Spokane, WA.

**Smith, C.K.**, Munson, A.D., Coyea, M. 1999. Comparative studies of CPRS and natural disturbance by fire: Developing a basis for sustainable practices in black spruce ecosystems. Canadian Sustainable Forest Management Network Conference, Edmonton, Alberta.

**Smith, C.K.**, Munson, A.D., Coyea, M. 1998. Carbon, nitrogen, and phosphorus dynamics under disturbed black spruce ecosystems. 83rd Annual Meeting of the Ecological Society of America, Baltimore, Maryland.

**Smith, C.K.**, Munson, A.D., Coyea, M. 1998. Changement des reserves et de la dynamique des nutriments suite aux perturbations naturelles et anthropiques dans les pessieres noires a mousses de la region centrale de Quebec. 66th Meeting of the French-Canadian Association for the Advancement of Science (ACFAS), Quebec City, Canada.

**Smith, C.K.**, H.L. Gholz, F. de Assis Oliveira. 1997. Plant-induced changes of forest floor and soil nitrogen dynamics in lowland Amazonia. Ecological Society of America Annual Meeting, Albuquerque, New Mexico.

**Smith, C.K.**, Munson, A.D., Coyea, M., Bernier, P. 1997. Nitrogen and phosphorus dynamics under disturbed black spruce forests in Central Quebec. Canadian Centers of Excellence Forest Dynamics Workshop, Calgary, Alberta.

**Smith, C.K.**, H.L. Gholz, F. de Assis Oliveira. 1996. Mechanisms of soil nitrogen transformations under monocultures and native forest in the central Brazilian Amazon. Ecological Society of America Annual Meeting, Providence, Rhode Island.

**Smith, C.K.**, H.L. Gholz, F. de Assis Oliveira. 1996. Fine litter nitrogen dynamics under monocultures and primary forest in lowland Amazonia. Soil Science Society of America Annual Meeting, Indianapolis, Indiana.

#### **GRANTS AND AWARDS:**

2018 – \$300,000 co-PI, Sewanee Headwaters Initiative, Arthur Vining Davis Foundation (administered by Sewanee's OESS)

2017 – \$150,000 co-PI, National Fish and Wildlife Foundation – Shortleaf pine restoration on the Domain (administered by Sewanee's OESS)

2009, \$500,000, Co-PI, USDA/CREES, Student Experiential Learning in the Natural Resource Sciences through Summer Internships and Professional Mentoring - a Joint Project Proposal (NM Highlands University, NM State University host institution)

2007-2009, \$1.7 million in federal and state appropriations and project specific grants and contracts while serving as director of the NM Forest and Watershed Restoration Institute (NM Highlands University)

2006, \$11,000, Co-PI, Lily Endowment/Service Learning, Funding for student research of forest and farmland conversion to urban uses

2006, \$5000, Co-PI, Associated Colleges of the South, Funding for student research of forest and farmland conversion to urban uses

2003, Co-PI, \$48,000 from DuPont Foundation for Faculty Course replacement and development of Sewanee's Environmental Studies Program

1998, Co-PI, \$100,000, Canadian Sustainable Forest Management Network (NSERC), Comparative Studies of CPRS and natural disturbance by fire: Developing a basis for sustainable practices in black spruce ecosystems

1998, Co-PI, \$17,000, NASA-LBA project, "Nitrogen and phosphorus dynamics in forests and converted forest sites in the Amazon Basin: A review and synthesis of previous research"

1997, Post-doctoral fellowship (\$40,000) funded by the Canadian Network of Centers of Excellence, Forest Biology Research Center, Forestry Department, Université Laval

1994 - 1996, Co-PI, \$36,000, Competitive grant from USDA/NRI Forest, Range, and Cropland Ecosystems Program

1995 - 1996, USDA International Institute of Tropical Forestry Grant, \$10,000  
1994, National Security Education Program Fellow  
1993, Grant from the Tropical Conservation and Development Program (University of Florida) and the USDA IITF, \$5000  
1992 - 1994, Jennings Scholastic Award (\$10,000), School of Forest Resources and Conservation, University of Florida

### **CONFERENCES ORGANIZED or CO-ORGANIZED**

2017 Kentucky/Tennessee Society of American Foresters Annual Winter Meeting, Chattanooga, TN (100 participants)  
2014 Kentucky/Tennessee Society of American Foresters Annual Winter Meeting, Manchester, TN (100 participants)  
2011 Kentucky/Tennessee Society of American Foresters Annual Winter Meeting (Non-timber forest products), Chattanooga, TN (100 participants)  
2008 New Mexico Forests and Climate Change, Albuquerque, NM (140 participants)  
2008 New Mexico Watershed Forum, Albuquerque, NM (300 participants)  
2008 Mixed Conifer/Aspen Management and Ecology, Santa Fe, NM (75 participants)  
2007 New Mexico Watershed Monitoring Meeting, Sevilleta, NM (50 participants)  
2005 Annual Summer Meeting of the Kentucky/Tennessee Society of American Foresters, Sewanee, TN (80 participants)  
2003 Annual Meeting of the Forest Stewards Guild, Sewanee, TN (150 participants)

### **MEMBERSHIPS**

Forest Guild 2002- 2021, Society of American Foresters 1991- 2021, Oklahoma Choctaw Nation 2012 – present