

# CURRICULUM VITAE

January 2 2012  
Roger C. Anderson

## I. PERSONAL INFORMATION

**Birth Date/Place**     October 30, 1941, Wausau, Wisconsin  
**Marital Status**       Married, August 5, 1967, two children  
**Business Address**     Department of Biological Sciences  
                              Illinois State University  
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## II. PROFESSIONAL TRAINING

B.S.    Teacher Ed. - Biology, Chemistry, 1963. University of Wisconsin-La Crosse  
M.S.    Botany, 1965. University of Wisconsin-Madison  
Ph.D.   Botany, Minor Soils, 1968. Univ. of Wisconsin-Madison

## III. POSITIONS HELD

1966           **Instructor**, University of Wisconsin Extension Center, Wausau  
1968-70       **Assistant Professor**, Southern Illinois University, Carbondale  
1970-73       **Arboretum Director**, University of Wisconsin- Madison  
1970-1973     **Associate Prof.**, Univ. of Wisconsin, Botany Dept.  
1973-1976     **Associate Professor**, Central State University, Edmond, Oklahoma  
1973,76,79    **Visiting Associate Professor**, University of Oklahoma Biological Station,  
                  Kingston, OK (summer)  
1980           **Visiting Assoc. Professor**, Univ. Michigan Biological Station (summer)  
1989, 2006    **Visiting Scientist**, Archbold Biological Station, Lake Placid, Florida  
1976-         **Full Professor (1980)** Illinois State  
1994         **Distinguished University Professor (1994)** Illinois State  
2008         **Distinguished Professor Emeritus**

## IV. AWARDS, HONORS, AND RECOGNITION

### *Awards and Honors*

*Oren E. Freeze Annual Award to the Outstanding Student in Biology*, University of Wisconsin-La Crosse 1962  
*Kappa Delta Pi* - Honor Society in Education, University of Wisconsin-La Crosse, 1962  
*Magna Cum Laude*, University of Wisconsin-La Crosse, 1963  
*Dean's List* for Seven Semesters, University of Wisconsin-La Crosse

*Davis Fellowship*, University of Wisconsin-Madison, Summer 1968

*McMullen Lecturer*, Monmouth College, Monmouth, Illinois, 1983. This lecture series was established to honor a former faculty member in the Biology Department at Monmouth College. Two lectures are presented. One is a public lecture and the second lecture is given to an introductory biology class.

*Roger E. Wilson Memorial Lecturer*, Botany Department, Miami University, Oxford, Ohio, 1984. This is a lecture given annually in memory of a faculty member who died in an automobile accident. Two lectures are presented, one is for a general audience and a second lecture, based on the research specialty of the lecturer, is presented to the Department of Botany.

*College of Arts and Sciences Lecturer*, Illinois State University, 1984-85 (Highest Faculty Academic Honor Awarded by the College)

*Elected Fellow of the Illinois Academy of Science*, 1988

*College of Arts and Sciences Outstanding Researcher* Illinois State University, 1990-91

*Outstanding University Researcher* - Illinois State University; 1991

*Distinguished University Professor of Plant Ecology* - ISU Appointed by the Board of Regents 1994 (Highest Faculty Academic Honor Awarded by the University)

*University Service Award* – Illinois State University 2002

*World of Difference Award*, Ecology Action Center, Normal, Illinois, 2003

*Centennial Scientist and Keynote Speaker* Celebrating the 100th year of the Illinois State Academy of Science April 2007

### ***Recognition***

Personalities of the South, Bicentennial Memorial ed., 1975-76

Who's who in the Midwest, 17th ed., 1979; 19th ed., 1981

Who's who in Frontier Science and Technology, 1982-83

Who's who in Science and Engineering, 2nd ed., 1993, 1995-1996

Who's who in the World, Marquis, 1995-1996, 1999-2001

Who's who in American Education Marquis, 6<sup>th</sup> Edition 2004-2005

## **V. CONSULTING**

- 1978-1980 Metropolitan Sanitary District of Greater Chicago - Establishment of native grasses on strip mine sites
- 1985-1986 Farnsworth and Wylie, Consulting Engineers, 1989,1991 Bloomington, Illinois, Vegetation establishment on strip mine spoils
- 1985-1986 Kerr McGee Co., Oklahoma City, OK, Establishment of vegetation on a radioactive waste storage cell, West Chicago site

- 1984-85,1988 Environmental Consultant, Illinois Department of Transportation  
 1989 Hanson and Associates, Environmental Consultants, Springfield, IL,  
 Environmental Impact Statement, Randolph site for the Bloomington-Normal  
 Water Reclamation District  
 1991 James Barnett Landscape Architect and Designer, Houston, Texas, Wetland  
 Mitigation project near Moline, IL  
 1989-1992, Lake County Illinois Forest Preserve District, Establishment of vegetation  
 1996 monitoring program and Evaluation of whitetailed deer management program in  
 forest preserves

## VI. TEACHING EXPERIENCE

**A. Courses Taught** - I have taught graduate and undergraduate courses at four institutions of higher learning and offered courses during the summer at two biological stations as a visiting professor. The courses I have taught include large enrollment courses for non-majors (lecture sections of 425 students), majors courses, graduate courses, and seminars for graduate students. I currently teach a University Studies course (Humans and the Biosphere BSC 202, major courses (Evolutionary Ecology BSC 201, Ecology and Identification of Plants BSC 223, Vegetation Management and Restoration 389.25, Restoration Ecology BSC 350 and Senior Seminar 304), a Graduate Course (Plant Ecology BSC 403), and Graduate Seminars.

**B. Undergraduate student research** - I had 2-4 undergraduate students per year work in my research laboratory conducting independent studies. Of these studies, four have resulted in publications in professional journals, eleven were presented as papers or posters at professional meetings (State, National, and International meetings), and 9 resulted in published abstracts.

### C. Publication of Materials for Classroom Use -

1. Textbook - Environmental Biology, Stipes Publishing Co., Champaign, IL, pp. 111, 1970
2. Laboratory Manual for General Botany, Anderson, Hamilton, Vaughn, Central State Univ., Edmond, Oklahoma, 1974, 1975
3. A manual of Laboratory Exercises and Lecture Supplements for Ecology and Identification of Plants, R. C. Anderson and S. S. Dhillion, 1986, revised 1993.
4. Evolutionary Ecology Laboratory Manual, R. Anderson, D. Birkenholz, V. Borowicz, S. Juliano, and C. Thompson, 1993
5. Film - "Lusk Creek a forgotten Illinois," a 15 minute color, sound film, produced by Southern Illinois University and distributed by the Illinois Dept of Conservation

**D. International Education** - Development of a tropical biology study program for the Associated Universities for International Education (A.U.I.E.). I served as the representative from Southern Illinois University on A.U.I.E.'s Tropical Study Committee, 1969-1970. In 1969, I made a one-week reconnaissance trip to Belize, and subsequently prepared a report, which helped develop the framework for the program that was offered by A.U.I.E. from 1970-1977. I was Illinois State's representative on the Committee (1976-77).

**E. Advisor-Teacher Education Program** - I was the Biology Teacher Education (BTE) Advisor from July of 1991- to May of 1995. There are about 70 BTE majors each year.

**F. Outside examiner of undergraduate theses** Knox College, Galesburg, IL 1978, 1981, 1993

## **G. Supervision of Graduate Students**

1. Graduate student theses and dissertations completed under my supervision (as major professor)
  - a. Master of Science Students Directed – 31 (29 thesis and 2 non-thesis, 27 at ISU)
  - b. Doctor of Philosophy Dissertations - 4
2. Other graduate student committee I have served on
  - a. Master of Science Theses (18)
  - b. Doctor of Philosophy Dissertation (5)
3. Current graduate students on whose committee I current serve  
Doctor of Philosophy (1) Committee Member

All of my graduate students with three exceptions have published one or more papers in refereed journals resulting from their thesis or dissertation research.

Each year, the Beta Lambda Chapter of Phi Sigma presents an award to the Outstanding Master of Science Graduate Student and the Outstanding Doctoral Student in the Department of Biology. Three of my Masters of Science Students and one of my Doctoral Students have received this award.

Three of my graduate students and one undergraduate student were judged to have presented the best student paper/poster in the Botany Section of the Illinois Academy of Science Meetings and two received the second place award.

Three of my students have been selected to be the Departmental/School representative for the James Fisher Outstanding M.S. Thesis Competition. One student (Japhia Smith) was judged to have the best thesis in the College of Arts and Sciences (Science Division) and a second student (Alicia Mullarkey) was University runner up for this award.

## **H. Undergraduate – Senior Thesis Supervision (1)**

## **VII. SIGNIFICANT DEPARTMENT/COLLEGE/UNIVERSITY SERVICE ACTIVITIES AT ISU**

### **A. Departmental**

1. Chairman of the Search Committee for two ecology positions (1978).
2. Member of the Dept. of Biological Sciences four-year evaluation committee (1977-78)
3. Member of the Equipment and Budget Committee (1979-80).
4. Selected as a member of the Departmental Chairman Search Committees (Fall 1978 and 1997).
6. Department of Biological Sciences, Environmental Section Head (1980-84), Behavior, Evolution, Ecology, Systematics Section Chair (1999-2004).
7. Phi Sigma Awards Committee (1982)
8. Elected Member of Departmental DFSC committee (promotion, tenure, appointment) (1984-86), (1986-88), (1995-1996), (1999-2,000), (2001-2003).
9. Chairman, Ecologist Search Committee (1986).
10. Member, Departmental Committee to evaluate University Funded Faculty Research Grants (1987, 1995, 1999).
11. Advisor-Teacher Ed. Program, Biology Dept. (1991-1995)
12. Chair, facilities planning and space committee (1991-1995)
13. Chair, Teacher Education Committee (1991-1994)
14. Member Chair Search Committee, Department of Biological Sciences (1997)
15. Member Department Council -advisory to the chair (1998)
16. Chairman of the Seminar Committee (1979-1980, 1998-1999, 2000-2001)
17. Chair of the Department Research Committee (1998-2004)

18. Acting Chair Department of Biology 3 weeks Fall 2002.
19. Associate Chair for Undergraduate Instruction Department of Biology (Spring 2007)
20. Vice-Chair Department of Biology 2007- S2008 (Academic Year)

**B. College and University Committees**

1. Elected to College of Arts and Sciences Council (1980-82, 1986-88, 2001-2003, Chair of the Council 2001-2002).
2. University Studies Review Committee for Group Seven (1982)
3. College task force on teacher education (1987-1988).
4. University Studies Review Committee for Group Three (1989)
5. Review Committee for University Studies (1989)
6. Chair, Committee to Review Graduate School and University Research Office (1996), appointed by the provost
7. Appointed to the Committee of Ten (a standing committee from which committee chairs are selected for searches for administrative positions within the University) (1997)
8. Chair of the provost search committee appointed by University President -David Strand (1998)
9. Member Academic Freedom Committee of the Academic Senate (1998-2001)
10. Member of the Dean of the College of Arts and Sciences Five-year Review Committee (2000)
11. Member of the College Faculty Status Committee (CFSC), reviews promotion, tenure, and salary for faculty within the College of Arts and Sciences, 2003-2005
12. Chair, University Institutional Biosafety Committee 2003-2005

**VIII. MEMBERSHIP AND ACTIVITIES IN PROFESSIONAL SOCIETIES**

**A. Current Memberships in Professional Societies**

Botanical Society of America  
 Ecological Society of America  
 Phi Sigma  
 Illinois Academy of Science  
 Botanical Club of the Southern Appalachian  
 Torrey Botanical Society  
 Natural Areas Association  
 Society for Ecological Restoration

**B. Offices Held**

President, Wisconsin Phenological Society (1970-71)  
 Secretary-Treasurer (1975-76), Vice President-President Elect (1976-77), Sigma Xi Club, Central State University  
 Chairman, Botany Section, Illinois Academy of Science (1977-78)  
 Vice President-President Elect (1978-79), President (1979-80), Bloomington-Normal Sigma Xi Club  
 State Representative Southern Appalachian Bot. Club Membership Committee 1994 - 2000  
 Vice President-President Elect (2000-2001) ISU/IWU Sigma Xi Chapter, President 2001-2001)  
 Vice President for Meetings (2003), Illinois State Academy of Science  
 Member Illinois State academy of Science Council (2009-2011)  
 Member Board of Directors (2011- ), Great Lakes Midwest Chapter of the Society for Ecological Restoration

**C. Chairing of Paper Sessions for Professional Societies**

1. The Second Midwest Prairie Conference (1970)

2. Oklahoma Academy of Science (1975)
3. Ecological Society of America (1977)
4. Illinois Academy of Science (1978)
5. Ecological Soc. of America (1985)
6. Botanical Soc. of America (1985)
7. Midwest Conference on Population Biology (1992)
8. Poster Session, Ecological Society of America (1996)
9. Moderator, Roundtable - Making Good Restoration Decisions, Midwest Oak Savanna and Woodland Conference, Madison, Wisconsin, July 30, 1997
10. Botanical Society of America, Madison, Wisconsin, August 7, 2002
11. Ecology of Restoration (Facilitator), Foraging Connections for the Science and Practice of Ecological Restoration, University of Illinois, February 22, 2003.
12. Oral Session moderator, Grassland Ecology IV: Tallgrass Prairie, Ecological Soc. of America Meetings, Portland, OR, August 5, 2004.
13. Oral Session Moderator, Invasive species: Management and Indicator Species, Ecological Soc. Of America Meeting, Montreal, Quebec, Canada, August 11, 2006.
14. Oral Session Moderator, Restoration Ecology II: Prairies, savannas, and aridlands. Ecological Soc. Of America Meeting, Memphis, Tennessee. August 11, 2006.

**D. Member Editorial Board** - Journal of Restoration Ecology (1993-present), The American Midland Naturalist (2010-present)

**E. I judged presented student papers** for the Murray Buell Award for the Ecological Society of America in 1977, 1978, 1984, and 2005 and student papers for the American Botanical Society in 1983

## **IX. OTHER PROFESSIONAL SERVICE**

### **A. Professional Service to the State of Illinois State and US Government**

1. Goose Lake Prairie Advisory Committee for the Illinois Nature Preserves Commission (1981)
2. Illinois Nature Preserves Commissioner (INPC) (1985-90). Chairman, INPC Technical Advisory Committee.
3. Member, Task Force to Evaluate the Illinois Department of Conservation's prescribed burning program (1985).
4. Member, INPC Technical Advisory Committee (1990)
5. Member Illinois Clean Coal advisory Board- 1994-1996
6. Fermi National Accelerator Laboratory, Batavia, IL, Member (1986-1991), Environmental Research Park (PARKNET) Advisory Committee, Chair (1990-1991)
7. Species Expert Panel, Species Viability Assessment Workshop, Midewin National Tallgrass Prairie (November 16, 1999)
8. EPA Ecosystem Evaluation Methods. Assisted with testing of field sampling protocols for the quick assessment of ecosystem health for 4-6 land cover types in the United States Environmental Protection Region 5 (Minnesota, Wisconsin, Indiana, Illinois, Ohio, and Michigan). (April 22-24, 2004)
9. Member Illinois Invasive Plant Species Council (2004 – present)

### **B. Reviewing of Manuscripts and Proposals**

**1. Journals:** Ecological Monographs; Ecology; Science; Ecological Applications; American Journal of Botany; Oecologia, Castanea; The Southwestern Naturalist; Bulletin Torrey Botanical Society; Trans. Illinois Academy of Science; American Midland Naturalist; Environmental Botany; Canadian Journal of Botany; Prairie Naturalist; Botanical Gazette; New Phytologist; Soil Science; Bioscience; Mycorrhiza; The Journal of the Kansas Entomological Society; Canadian Journal of Forest Research; The New Phytologist; Soil Science of America Journal; Water, air, and soil pollution; Erigenia, Journal of Coastal Conservation, Vegetatio; Natural Areas Journal; Forest Ecology and Management; Journal of Environmental Quality; Agriculture, Ecosystems & Environment; Restoration Ecology; Transactions of the Wisconsin Academy of Science Arts and Letters; International Journal of Plant Science; Quarterly Review of Biology; Botanical Bulletin of Academia Sinica; Journal of Plant Ecology; Trees; Forest Ecology and Management; Ecology Letters, Journal of Ecology, Australian Journal of Botany. Forest Ecosystem Restoration and Ecology, Tree Physiology, Transaction of the Kansas State Academy of Science, Landscape Ecology, Invasive Plant Science Management

**2. Proposals:** National Science Foundation; CREES, National Geographic Society; Department of Energy; Reviewed Sustainable Forest Management Network, University of Alberta; Edmonton, Alberta, CA Research Proposals; Ohio Plant Biotechnology Consortium,

**3 Review Panel:** PeoriaNEXT, a not-for-profit regional development and commercialization collaborative for science

### C .Organizing Conferences and Symposia

1. Roger C. Anderson and A. E. Liberta. *Mycorrhizal ecology of grasslands*. 8th North American Conference on Mycorrhizae, Jackson Hole, WY, Sept. 1990.
2. **Chairman - Steering Committee** of the *North American Conference on savannas and Barrens* - held on the ISU campus on October 15 and 16, 1994. There were 500 attendees at the two day conference
3. Roger C. Anderson and William L. Perry. Current status of knowledge on invasive species: Theory and Practice. Ecological Society of America 86<sup>th</sup> Annual Meeting, Madison, WI. August 8, 2001. Roger Anderson provided the symposium introduction and summary and overview.
4. Chairman – Steering Committee **Illinois Invasive Species Symposium** – held on the ISU campus in conjunction with the ISAS Annual Meeting. April 5, 2003. There were 160 persons in attendance.

### D. Consultant and Advisory

1. Consultant to Oklahoma Natural heritage program (1976)
2. Austin Peay State Univ., Center for Field Biology Scientific Advisory Board (1986)
3. I have served as an external referee for promotion tenure, and appointments for faculty at SIU-Carbondale, IL, SIU-Edwardsville, IL, Kansas State University, University of Oklahoma, University of Chicago, Eastern Illinois University, Ohio University, Athens, Ohio, The University of Memphis, Memphis, Tennessee. Illinois Natural History Survey, personnel at Archbold Biological Station and Argonne National Laboratory, University of Washington, Seattle, Washington .
- 4 External Reviewer. Seven Year Review. Department of Environmental and Plant Biology, Ohio University, October 17-19, 2001.
5. Member of Grassland and Woodland Audit team for the Chicago Wilderness. The team is developing sampling protocols to assess the quality of woodlands and grasslands in the Chicago Region. (2003-present)

6. Member advisory committee for the Bloomington-Normal Sanitary District for the development of natural areas as part of the landscaping of their new treatment plant (2004-2006)
7. Evaluation of Progress Report: "The Joint Fire Science Program" USGS, Lake Michigan Ecological Station – and National Park Service (2010)
8. Peer Reviewer for Evaluating Group-level Descriptions for Acceptance into the U.S. National Vegetation Classification, Natureserve Ecological Society of America (November 2011)

## **X. EXTERNAL GRANTS AND CONTRACTS RECEIVED**

1. HEW - Environmental economic workshop, Central State University, Edmond, Okla., with Drs. Lorraine Sheer and Upton Henderson, \$55,000, 1976
2. Metropolitan Sanitary District of Greater Chicago - Utilization of inorganic nutrients in sewage sludge by native prairie and domestic grasses, 1978. \$2,700; 1980, \$1,875
3. National Science Foundation - Interaction of prairie plants and mycorrhizal fungi along a moisture gradient, 1980-82, Anderson (PI) & A. E. Liberta as CO-PI, \$62,000
4. Illinois Department of Conservation - The biology of ginseng, 1981-83, \$10,000
5. United States Department of Agriculture - The production of grass biomass for energy conservation, 1981, \$3,300.
6. Department of Energy - Energy Workshop - Participant in the workshop, and I wrote a portion of the proposal, 1981- 83, \$26,000
7. Illinois Department of Transportation - Plant Ecological Survey, Environmental Assessment of proposed U.S. 51 corridor, 1984-1985, \$8,700
8. National Science Foundation - Vesicular arbuscular mycorrhizal response to varied levels of inorganic nutrients 1985-87, Anderson PI and A. E. Liberta as Co-PI, \$75,000.
9. Illinois Department of transportation, Floristic composition and community structure of habitats association with FAP 431, 1988, with L. E. Brown, \$6,700
10. Lake County, Illinois, Forest Preserve District. Establishment of ecological monitoring procedures and baseline data collection to determine deer browse impacts on forested dedicated nature preserves, 1989-1991, \$10,230
11. Illinois Department of Conservation, Biology of Garlic Mustard, August 15 1989-June 30, 1991, \$13,000.
12. Indirect reuse of municipal wastewater for potable purposes, IL Dept. of Energy and Natural Resources and the City of Bloomington (1990-1991) with H. Huizinga, H. Russellman, M. Kurz, J. Webb, and R. Nelson, \$200,000
13. Evaluation of the seedbank of wetland sites near Moline, IL. James Barnett, Landscape Architect and Designer, Houston, TX, (1991), with M. R. Anderson, \$6,300.
14. Assessing effect of deer browsing, Federal Aid in Wildlife Restoration Act, Dept. of Interior through the Illinois Department of Conservation, July 1, 1992 -June 30, 1994, \$29,594.
15. Peer assisted approach to enhance science perception and curriculum development of preservice and inservice elementary teachers. Illinois State Board of Education, Scientific Literacy Program, with Vickie Williamson, \$64,330 -1995
16. Development of methodology to sample harvested wild grown ginseng roots to estimate mean root size as an index of collecting intensity, Fish and Wildlife Service, \$8,800., 1995-1996
17. Peer assisted project for enhancing elementary science, State Board of Education, Dwight D. Eisenhower Grant, With Vickie Williamson, \$58,000 -February, 1996
18. Lake County Forest Preserve District, \$1,040 evaluation of deer management program, June 1996.



19. Peer assisted project for enhancing elementary science, State Board of Education, Dwight D. Eisenhower Grant, With Vickie Williamson, \$58,000 -November, 1996
20. Influence of stand history, and planting delay in jack pine plantations on ground cover preferred by Kirtlands's Warbler. Michigan Nongame Wildlife Fund and Living Resources Small Grant \$2,225- February, 1997. (with Gregory Houseman)
21. Becky Meyers-Croteau and Roger C. Anderson, "A collection of Plants & Seeds From Sand Ponds in the Illinois River Sand Area, Wildlife Preservation Fund, Illinois Department of Conservation, \$952., 1997
22. Savanna Book, funds generated from the North American Conference on Savannas and Barren held at ISU in 1994, \$10,000
23. Influence of excessive deer browsing on prairie forbs. Chicago Wilderness (Fish and Wildlife Service and U. S. Forest Service) 1999, 6,214.
24. Ecological land classification system and GIS maps of ELTP units and presettlement vegetation. James S. Fralish (SIU-C), Roger C. Anderson, and Andrew Carver (SIU-C) (United States Forest Service) Total Award \$79,890, ISU portion = \$18,610), 2000-2002
25. Fondulac Park District, Fondulac, IL, Presettlement vegetation of Spring Creek, \$2,000, 2002
26. Sugar Grove Foundation. Shirley, Illinois. Vegetation restoration and management plan for a portion of Funks Grove, \$3,000. – summer 2003
27. Bloomington-Normal Sanitary District. Assessment of hardwood tree growth on sludge amended plots, \$6,000 – summer 2005.
28. Ecological land classification system and GIS maps of ELTP units and presettlement vegetation II. James S. Fralish (SIU-C), Roger C. Anderson, and Andrew Carver (SIU-C) (United States Forest Service,) Total Award \$64,392, ISU portion = \$15,000) - Spring 2008
29. Bloomington-Normal Sanitary District Floristic assessment of a wetland, \$3,100 – summer 2009.
30. Roger Anderson was selected to participate in the independent external peer review panel to review the Community Models for the Upper Des Plaines River Watershed in Illinois and Wisconsin as a subcontractor to Battelle. Spring, 2010 - \$11,875
31. Bloomington-Normal Sanitary District Floristic assessment of a wetland, \$1,850 – summer 2010, 2011.

## XI. SUMMARY OF SCHOLARLY ACCOMPLISHMENTS

### A. Publications - Authored and co-authored

1. Peer Reviewed Journals	98
2. Edited Book and Conference Proceeding	2
3. Peer reviewed Conference Proceedings	26
4. Book Chapters (Peer Reviewed)	12
5. Other Journal Publications	5
6. Book Reviews (all requested by Book Review Editors)	5
7. Technical Publications	3

**Total Publications** **151**

**B. Published Map** 1

**C. Published Abstracts** 110

## XII. LIST OF PUBLICATIONS

### Peer Reviewed Journal

Anderson, Roger C. and Orié Loucks. 1966. Osmotic pressure influence in germination tests for antibiosis. *Science* 152:771-773.

- Anderson, Roger C., O. L. Loucks, and A. M. Swain. 1969. Herbaceous response to canopy cover, light intensity, and throughfall precipitation in coniferous forests. *Ecology* 50:256-263.
- Anderson, Roger C. 1970. The role of daylength and temperature in tuber formation of *Trientalis borealis*. *Botanical Gazette* 131:122-128.
- Anderson, R. C. 1970. Prairies in the prairie state. *Trans. Ill. Acad. of Sciences* 63:214-221.
- Anderson, R. C. and John White. 1970. A cypress swamp outlier in southern Illinois. *Trans. Ill. Acad. of Science* 63:6-13.
- Anderson, R. C. and John Schwegman. 1971. The response of southern Illinois barren vegetation to burning. *Trans. Ill. Acad. of Science* 3:287-291.
- Anderson, Roger C. 1971. Variability in Wisconsin *Trientalis borealis* Raf. *Trans. Wis. Acad. Sci. Arts Lett.* 59:121-125.
- Anderson, Roger C. and Orie Loucks. 1973. Aspects of the biology of *Trientalis borealis* Raf. *Ecology* 54:798-808.
- Adams, Michael S., Roger Anderson, and Robert R. Kowal. 1975. Temperature dependence of net photosynthesis in *Trientalis borealis* Raf. in Wisconsin. *Oecologia* 18:199-207.
- Peet, Mary, Roger Anderson, and Michael S. Adams. 1975. Effect of fire on big bluestem production. *American Midland Naturalist* 94:15-26.
- Anderson, Roger C. 1975. Ecocinema: A plan for preserving nature. *Bioscience* 25:452.
- Anderson, Roger C. and M. Rebecca Anderson. 1975. The presettlement vegetation of Williamson County, southern Illinois. *Castanea* 40:345-363.
- Anderson, Roger C., and Charles Van Valkenburg. 1977. Response of southern Illinois grassland community to burning. *Trans. Ill. State Acad. of Sci.* 69:399-414.
- Adams, D. E. and R. C. Anderson. 1978. The response of a central Oklahoma grassland to burning. *Southwestern Naturalist* 23:623-631.
- Anderson, Roger C., Alan J. Katz, and M. Rebecca Anderson. 1978. Allelopathy as a factor in the success of *Helianthus mollis* Lam. *Journal of Chemical Ecology* 4:9-15.
- Anderson, Roger C., and Thieron Harrison. 1979. A limitation of the hybrid index using *Quercus* leaf characters. *Southwestern Naturalist* 24:463-473.
- Rodgers, Cassandra S., and Roger C. Anderson. 1979. Presettlement vegetation of two prairie peninsula counties. *Botanical Gazette* 140:232-240.
- Anderson, Roger C., and Orie L. Loucks. 1979. Influence of whitetailed deer on the structure and composition of hemlock forests. *Journal of Applied Ecology* 16:855-862.
- Anderson, R. C., A. E. Liberta, J. Packheiser, and M. E. Neville. 1980. Inhibition of selected fungi by bacterial isolates from *Tripsacum dactyloides* L. *Plant and Soil* 56:149-152.
- Birkenholz, Dale E., Roger C. Anderson, and Alan J. Katz. 1980. A relict and disjunct population of sand bluestem (*Andropogon hallii*). *Castanea* 45:9-16.
- Adams, Dwight E., and Roger C. Anderson. 1980. Species response to a moisture gradient in central Illinois forest. *American Journal of Botany* 67:381-392.
- Anderson, Roger C., and Stephen Schelfhout. 1980. Phenological patterns among tallgrass prairie species and their implications for pollinator competition. *American Midland Naturalist* 104:253-263.
- Anderson, Roger C., Anthony E. Liberta, Joseph Packheiser, and Melvin Neville. 1980. Inhibition of selected fungi by bacterial isolates from *Tripsacum dactyloides* L. *Plant and Soil* 56:149-152.
- Adams, D., R. Anderson, and S. Collins. 1982. Differential response of woody and herbaceous species to summer and winter burning in an Oklahoma grassland. *Southwestern Naturalist* 27:56-61.

- Adams, D., and R. Anderson. 1982. An inverse relation between dominance and habitat breadth of trees in Illinois. *American Midland Naturalist* 107:192-195.
- Nelson, Dennis C., and Roger C. Anderson. 1983. Factors influencing the distribution of prairie plants along a moisture gradient. *American Midland Naturalist* 109:367-375.
- Anderson, Roger C., and Michael H. Beare. 1983. Pollination ecology and breeding system of *Trientalis borealis* Raf. *American Journal of Botany* 70:408-415.
- Liberta, Anthony E., Roger C. Anderson, and Laura A. Dickman. 1983. VA mycorrhizal fragments as a means of endophyte identification at hydrophytic sites. *Mycologia* 75:169- 171.
- Anderson, Roger C., and Lauren E. Brown. 1983. Comparative effects of fire on trees in a Midwestern savannah and an adjacent forest. *Bulletin of the Torrey Botanical Club* 110:87-90.
- Anderson, R. C., A. E. Liberta, L. A. Dickman, and A. J. Katz. 1983. Spatial variation in vesicular-arbuscular mycorrhiza spore density. *Bulletin of the Torrey Botanical Club* 110:519-525.
- Anderson, R. C., A. E. Liberta, and L. A. Dickman. 1984. Interaction of vascular plants and vesicular-arbuscular mycorrhizal fungi across a soil moisture-nutrient gradient. *Oecologia* 64:1111-1117.
- Dickman, L. A., A. E. Liberta, and R. C. Anderson. 1984. Ecological interactions of little bluestem and vesicular-arbuscular mycorrhizal fungi. *Canadian Journal of Botany* 62:2272- 2277.
- Anderson, R. C. 1985. Aspects of the germination ecology and biomass production of eastern gamagrass (*Tripsacum dactyloides* L.). *Botanical Gazette* 146:353-364.
- Johnson, Ronald G. and Roger C. Anderson. 1986. The seed bank of a tallgrass prairie in Illinois. *American Midland Naturalist* 115:123-130.
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- Anderson, Roger C. 2000. Book Review of "Ecosystems of disturbed ground," Lawrence Walker (editor). Pp. 868, Elsevier Science, Journal of Vegetation Science 11:615-616.
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- Anderson, Roger C. 1998. Book Review of Prairie conservation. Preserving North America's most endangered ecosystem, by Fred B. Samson and Fritz L. Knop, editors. Island Press, Washington. Restoration Ecology 6:130-131.
- Anderson, Roger C. 1999. Book Review of The once and future forest: A guide to Forest Restoration Strategies, by Leslie Jones Sauer. Island Press, Washington, D. C. Quarterly Review of Biology 74:98

**Technical Publications:**

- Anderson, R., J. Armstrong, J. Fralish, and P. Benjamin. 1984. The Biology of Ginseng in Illinois, Illinois Dept. of Conservation, Springfield, pp. 32, (Technical Publication).
- Sauer, Suzanne. and R. C. Anderson. 2002 Presettlement vegetation of the Spring Creek area. Fon du Lac Park District. Pp 28.
- Fralish, James S., Andrew Carver, Roger C. Anderson, Suzanne Sauer, Charles Ruffner, David D. Close, Richard Swigart, and Eric M. White. 2002. Presettlement, Present, and Projected Forest Communities of the Shawnee National Forest, Illinois. Department of Forestry, Southern Illinois University, Carbondale, Department of Biological Sciences, Illinois State University, Normal. Pp. 145.

**Other Published Materials:**

- Anderson, R. C. 1971. Distribution of forest and prairie in Illinois about 1820. Colored 8-1/2 x 11 map. Printed by Ill. Nature Preserves Commission.

**II. INVITED SYMPOSIUM PRESENTATIONS AND SEMINARS**

**A. Co-authored and Authored Presented Papers and Posters at Professional Meetings (250)**

<b>1. Papers Presented by Anderson</b>	<b>108</b>
a. State Meetings -----	39
b. Regional Meetings -----	15

c. National Meetings -----	36
d. International Meetings -----	18
2. <b>Invited Symposium, Workshop and Conference Presentation ----</b>	<b>52</b>
<b>B. Seminars Presented -----</b>	<b>38</b>

**Invited Symposium, Conference and Workshop Presentations**

- Anderson, Roger. 1972. The use of fire as a management tool on the Curtis Prairie. Annual Tall Timbers Fire Ecology Conference, Lubbock, Texas.
- Anderson, Roger C., and Katharina Lettau. 1972. Seasonality of primary producers. Symposium on Phenology, ESA Meetings, Minneapolis, Minnesota (presented by Lettau).
- Anderson, R. C., C. S. Rodgers, and D. E. Birkenholz. 1982. Potential of native prairie grass to produce biomass for energy conversion on strip mine spoils. Biomass Energy Symposium. 16th Meeting Great Lakes Regional American Chemical Society, Normal, Illinois.
- Anderson, R. C., C. S. Rodgers, and D. E. Birkenholz. 1982. Potential of native prairie grass to produce biomass for energy conversion on strip mine spoils. Biomass Energy Symposium. 16th Meeting Great Lakes Regional American Chemical Society, Normal, Illinois (Invited Presentation).
- Anderson, Roger C. 1982. Eastern prairie-forest transition. **Keynote address** 8th North American Prairie Conference, Kalamazoo, Michigan
- Liberta, A. E., and R. C. Anderson. 1987. Response of VA mycorrhizae to soil moisture-nutrient gradients in tallgrass prairie. Ecol. Soc. Amer. and Bot. Soc. Amer. Meetings, Columbus, OH, ESA Bull. 68:351 (abstract).-presented by Anderson
- Anderson, R. C. 1987. Fire in North American Grasslands: A historical prospective. Ecol. Soc. Amer. and Bot. Soc. Amer. Meetings, Columbus, OH ESA Meetings, ESA Bull. 68:253. (Abstract)
- Anderson, R. C. 1987. **Keynote address:** The land where the prairie and the forest meet. Second Presentation: The role of fire in grassland and savanna maintenance. Sixth Annual Ohio Prairie Conference. Toledo, Ohio. Metropolitan Parks Districts.
- Anderson, R. C. 1988. An introduction to the North American Prairie. Central Illinois Prairie Conference. Invited Presentation, Peoria, IL, Sept. 24, 1988.
- Anderson, R. C. 1988. Presettlement forests of the Midwest. Oak woods management workshop. Sponsored by IL. Acad. of Sci. and Max McGraw Wildlife Foundation, Peoria, IL, Oct. 22, 1988.
- Anderson, R. C. 1989. Aspects of the seed biology of eastern gamagrass. Eastern Gamagrass Conference. Kerr Center for Sustainable Agriculture. Poteau, OK.
- Anderson, R. C. 1990. Response of tallgrass prairie to summer burns. Symposium: Prairie Restoration: the State of the Art. Society for Ecological Restoration 2nd Annual Meeting, Chicago, IL.
- Anderson, R. C. 1990. Lessons from the restoration of the Univ. of Wisconsin Arboretum's Leopold Pines. Symposium: Global climatic change - the implications for restoration ecology. Society for Ecological Restoration 2nd Annual Meeting, Chicago, IL.
- Anderson, R. C. 1990. The tallgrass prairie. Symposium: Our living heritage: The biological resources of Illinois. Sponsored by the Illinois DOE and the Illinois Natural History Survey. Univ. of Illinois, Champaign-Urbana.
- Anderson, R. C. 1991. White-flowered Trillium stem height as an index of deer browsing intensity. Management of white-tailed deer in Midwestern Natural Areas. A workshop sponsored by the Natural Areas Association, Champaign, IL.
- Anderson, R. C. 1991. Understanding the mycorrhizal ecology of a facultative mycotrophic species - little bluestem grass (*Schizachyrium scoparium*). Third European Symposium on Mycorrhizas, Sheffield, England.

- Anderson, Roger C. 1992. Upland forest of Central Illinois past and present. Forests of the prairie state. Illinois Forest Conference. Eastern Illinois University, Charleston, IL.
- Anderson, Roger C. 1992. Response of prairie/forest ecotonal shrubs to fire. Symposium: Fire effects and management. Natural Areas Conference. Indiana University, Bloomington, IN.
- Anderson, Roger C. and John E. Schwegman. 1993. Long-term effects of fire and absence of fire on a southern Illinois barrens. Symposium on barrens vegetation and restoration ecology in the eastern United States. Sponsored by the SE Chapter, Ecological Society of America. Annual Meeting Association of Southeastern Biologist, Virginia Beach, VA.
- Anderson, R. C. 1994. Effects of deer browse in grasslands. Divisional Meeting, Illinois Department of Conservation - Division of Natural Heritage, Allerton Park, September 13, 1994.
- Anderson, R. C. 1994. Influence of deer browsing on prairie forbs. Fourth Central Illinois Prairie Conference, Decatur, Illinois, September 17, 1994
- Anderson, Roger C. 1996. Role of Research in Ecological Restoration. **Keynote address**, Workshop on Ecological Restoration, University of Michigan, Ann Arbor (March 1, 1996).
- Anderson, Roger C. 1996. ParkLands Foundation, Private efforts in the restoration of and endangered ecosystem, the oak savanna, in central Illinois. Symposium on Endangered Species/Ecosystems and Private Lands. Illinois Academy of Science, Illinois Wesleyan University, Bloomington, Illinois (October 18, 1996).
- Anderson, Roger C. 1997. Symposium on Criteria for success in Evaluation Restorations "Criteria for evaluating prairie restorations," Ninth Annual International Conference of the Society of Ecological Restoration, Fort Lauderdale, Florida, November 15, 1997.
- Anderson, Roger C. 1997. Aims and Methods in Restoration of Savanna Ecosystems. (**Keynote Address**) Workshop on Ecological Restoration Sponsored by the Illinois Academy of Science and Augustana College, Green Wing Environmental Laboratory, Amboy, IL, September 19, 1997.
- Anderson, Roger C. 1997. Root-weight age relationships in wild ginseng: implications for a minimum harvest size. Ginseng Workshop, West Virginia University, Morgantown, WV, May 15, 1997.
- Anderson, Roger C. 1997. Natural history of midwestern oak savanna. **Keynote Address** Plenary Session, Midwest Oak Savanna and Woodland Conference. Madison, Wisconsin, July 30, 1997.
- Anderson, Roger C. 1997. Moderator, Roundtable: Making Good Restoration Decisions, Midwest Oak Savanna and Woodland Conference, University of Wisconsin-Madison, July 30, 1997, Participants: Nancy Braker, Director of Science and Stewardship, Wisconsin Chapter, TNC; Steve Packard, Director of Science and Stewardship, Illinois Chapter TNC, Jon Mendelson, Professor of Environmental Science, Governor's State University.
- Anderson, Roger C. 1998. "Illinois Prairie: Pleistocene to plow" Presented at the Fourteenth Annual Institute on History and Social Sciences, sponsored by the Department of History, Illinois State University, March 16, 1998.
- Anderson, Roger C. 1999. Department of Botany, Botany Club, Eastern Illinois University, The silent invasion: the ecology of garlic mustard (*Alliaria petiolata*), March 31, 1999.
- Anderson, Roger C. 1999. Influence of large herbivores on diversity of tallgrass prairie. 5<sup>th</sup> Central Illinois Prairie Conference, September 18, 1999, Parkland College, Champaign
- Anderson, Roger C. 2001. Fire and grazing effects on the productivity and diversity of tallgrass prairie. 12<sup>th</sup>. March 10, 2001, Northern Illinois Prairie Workshop, College of DuPage
- Anderson, Roger C. 2001. Grassland Restoration. Ecological Restoration Course. U.S. Environmental Protection Agency, Region 5. Argonne, National Laboratory, Argonne, IL, May 23, 2001.

- Anderson, Roger C. 2001. Forest Park Nature Center and The Peoria Park District. Prairie Possibilities: A workshop on Ecology, restoration and Reintroduction of Prairie Systems in Illinois, Peoria, Illinois. Introduction to the tallgrass prairie. October 6, 2001.
- Anderson, Roger C. 2002. Invasive species in oak woodlands, *Alliaria petiolata* (garlic mustard). Janet Meakin Poor Research Symposium: The Ecology and Management of Oak Woodlands. Chicago Botanic Garden, Glencoe, Illinois, January 15, 2002.
- Anderson, Roger C. 2002. Plant indicators of deer browsing intensity. Telecommunication conference with a powerpoint presentation to “Pennsylvania Deer Management Forum” sponsored by the Pennsylvania Office of National Audubon Society and the Pennsylvania Habitat Alliance. Panel members included academics, U. S. Forest Service Personnel, Pennsylvania Game Commissioners, and National Audubon and The Nature Conservancy Personnel, February 15, 2002.
- Anderson, Roger C. 2002. The tallgrass prairie mosaic. Conservation in Fragmented Habitats 7<sup>th</sup> Annual Stewardship Forum. The Morton Arboretum and Chicago Wilderness. Lisle, Illinois, February 16, 2002.
- Anderson, Roger C. 2002. Barrens: Historic occurrence and restoration efforts. Shawnee Ecological Symposium. Sponsored by the Department of Forestry – Southern Illinois University, Carbondale, Illinois. April 23, 2002.
- Anderson, Roger C. 2003. Factors Related to Regulation of ginseng harvest. Root .State Ginseng Coordinators Meeting Sponsored by the US. Fish and Wildlife Service, Missouri Botanical Garden, St. Louis.  
[\[PPT\]international.fws.gov/ginseng/Final%20State%20Ginseng%20Coordinators%202003.ppt](http://international.fws.gov/ginseng/Final%20State%20Ginseng%20Coordinators%202003.ppt), February 21, 2003.
- Anderson, Roger C. 2003. Pondering tallgrass prairie ecology: fire and grazing effects. **Keynote address.** Sixth Central Illinois Prairie Conference. Sponsored by Grand Prairie Friends. Parkland College, Champaign, September 20, 2003.
- Anderson, Roger C. 2004. “Discussion workshop – Savanna Ecosystems,” Illinois Native Plant Society Annual Meeting, Peoria, Illinois, June 5, 2004.
- Anderson, Roger C. 2006. Panelist: Round Table Discussion about Herbicide Alternatives. Midwest Invasive Plant Symposium. A Round Table Discussion about Herbicide Alternatives - David G. Borneman, City of Ann Arbor, MI; Lisa A. Brush, Michigan Stewardship Network; Mary Blackmore, Blackmore in Nature, Forreston, IL; Roger C. Anderson, IL State University, Normal; Ray W. Newman, Chippewa National Forest, Cass Lake, MN. North Central Weed Science Society, Invasive Plants Association of Wisconsin, Midwest Invasive Plant Network. Milwaukee, Wisconsin, December 14, 2006.
- Anderson, Roger C. 2007. Speaker 76<sup>th</sup> Annual Banquet Peoria Academy of Science. The history and Ecology of Illinois Prairies. Peoria, Illinois, March 30, 2007.
- Anderson, Roger C. 2007. Perspective on thirty years of prairie research: Our evolving understanding of patterns and processes." Centennial Scientist and **Keynote Speaker.** Celebrating the 100th year of the Illinois State Academy of Science April 20, 2007
- Anderson, Roger C. 2007. Influence of white-tailed deer (*Odocoileus virginianus*) browsing on tallgrass prairie. Symposium: Conservation biology of eastern tallgrass prairie: integrating issues of management and restoration for the 21<sup>st</sup> century. Plant Biology and Botany 2007 Joint Congress. Chicago, Illinois. July 11, 2007.
- Anderson, Roger C. 2007. Fire History and Evidence in understanding North American Tallgrass Prairie. Workshop: Lessons from fire history: past and future. University of Missouri, Columbia, Missouri. October 25, 2007.

- Anderson, Roger C. 2008. Invasives and Biofuels. Midwest Invasive Plant Network. Midwest Invasive Plant Network. Indianapolis, Indiana. December 10, 2008.  
<http://mipn.org/2008%20MIPN%20conference/MIPN%20Symposium%202008,%20Wednesday%20AM/Invasives%20and%20Biofuels%20Dec%2010%202008%20Final%20power%20pt%202003.pdf>
- Anderson, Roger C. 2008. Fire and Plant Invasion in the Midwest. Midwest Invasive Plant Network. (Presentation and Panel Discussion). Midwest Invasive Plant Network. Indianapolis, Indiana. December 10, 2008.
- Anderson, Roger C. 2009. **Science Keynote Address**, Midwest Oak Savannas and Woodlands: Historical and Current Perspectives. Midwest Savanna and Woodland Conference, Lourdes College, Sylvania, Ohio. July 29, 2009.
- Anderson, Roger C. 2010. Interacting effects of fire and large herbivores on prairie forbs. A Symposium on Fire, The Illinois Prescribed Fire Council. Starved Rock Lodge and Conference Center, Utica, IL. February 10, 2010.
- Anderson, Roger C. 2010. So many weapons, so much success; The Ecology of Garlic Mustard an invasive plant species. Botany Club, Eastern Illinois University, Charleston, IL. March 10, 2010.
- Anderson, Roger C. 2011. **Keynote Address**. Midwest oak woodland and savannah: origins historic changes, and futuristic trends. Third Midwest-Great Lakes SER Chapter Meeting, University of Illinois Springfield, April 1, 2011.

#### Invited Seminars

- 1968 Dept. of Botany, Southern Illinois University, Carbondale - "Aspects of the biology of *Trientalis borealis*" (April, 1972)
- 1971 Dept. of Botany, Iowa State University, Ames, Iowa - "Autecology of *Trientalis borealis*" (March, 1971)
- 1972 Dept. of Botany, University of Wisconsin - Madison "The use of fire as a management tool on the Curtis Prairie" October, 1972
- 1972 Dept. of Biology, Univ. of Wisconsin-LaCrosse, "Problems of a City Wilderness" (October, 1972)
- 1973 Dept. of Biology, Central State University - Edmond, Oklahoma - "Autecology of *Trientalis borealis*" (April, 1973)
- 1974 University of Oklahoma Biological Station, Kingston, OK, - "Fire Ecology" (July, 1974)
- 1975 Dept. of Zoology, University of Oklahoma, Norman, OK - "Fire Ecology" (February, 1975)
- 1976 Dept. of Biology, Illinois State University, Normal, IL - "Role of fire in the tallgrass prairie" (June, 1976)
- 1976 Dept. of Biology, Illinois State University, Normal, IL - "Autecology of *Trientalis borealis*" (October, 1976)
- 1979 Dept. of Biological Sciences, Illinois State University, Normal, IL - "The phenological strategies of prairie plants as related to climate and their pollinators" (March, 1979)
- 1979 Dept. of Biology, Western Michigan University, Kalamazoo, MI - "The phenological strategies of prairie plants as related to climate and their pollinators" (April, 1979)
- 1979 University of Oklahoma Biological Station, Kingston, OK "The phenological strategies of prairie plants as related to climate and their pollinators" (June, 1979)
- 1980 University of Michigan Biological Station, Pellston, MI - "Why *Trientalis borealis* the northern starflower flowers" (June, 1980)
- 1981 Department of Biology, Indiana State University, Terre Haute, IN - "The phenological strategies of prairie plants related to climate and their pollinators" (Sept. 1981)

- 1981 Department of Biology, Northern Illinois University, DeKalb - "Why *Trientalis borealis* the northern starflower flowers" (November, 1981)
- 1984 Department of Biological Sciences, Illinois State University, Normal, Illinois - "Interaction of plant species and vesicular-arbuscular mycorrhizal fungi across a soil-moisture nutrient gradient" (March, 1984).
- 1984 Illinois State Museum, Springfield, IL - "Prairie-forest ecotone" (May, 1984)
- 1985 Dept. of Biology, University of Wisconsin, Milwaukee, "Mycorrhizal ecology of prairie plants" (May, 1985)
- 1985 Environmental Research Division, Argonne National Laboratory, Argonne, IL - "Gradient analysis in the tall grass prairie" (May, 1985)
- 1988 Dept. of Botany, Miami University, Oxford, Ohio - "Mycorrhizae mutualism or parasitism: it depends" (March, 1988)"
- 1988 Department of Biological Sciences, Illinois State University, Normal, IL - "Mycorrhizae mutualism or parasitism: it depends" (April, 1988)
- 1988 Archbold Biological Station, Lake Placid, Florida - "Mycorrhizae mutualism or parasitism: it depends" (October 1988)
- 1991 Dept. of Biology, Bradley University, Peoria, Illinois "Deer browsing influence on vegetation" (September, 1991)
- 1991 Department of Biological Sciences, Illinois State University, Normal, IL - "Deer browsing influence on vegetation" (September, 1991)
- 1996 Dept. of Biology, Bradley University, Peoria, Illinois, The role of fire in prairie ecology and restoration, April 10, 1996
1998. A vision for the College of Natural Resources: Preparing for an uncertain future. The College of Natural Resources, University of Wisconsin-Stevens Point, April 13, 1998.
1999. Biology Department Seminar, Illinois State University, Normal, The silent invader: the ecology of garlic mustard (*Alliaria petiolata*) with a taste of Sweden. January 21, 1999.
1999. Plant Sciences Department Seminar, Southern Illinois University, Carbondale, Fire, barrens, and succession: implication for management of small remnants, March 8, 1999.
2000. Illinois Natural History Survey, Champaign, Illinois. Strategies for success of an exotic plant species garlic mustard (*Alliaria petiolata*).
2001. The Morton Arboretum, Lisle, Illinois. Biodiversity of Tallgrass prairie: Historic Patterns, Fire and grazing effects. Chicago Wilderness Biodiversity Seminar, Associated Colleges of the Chicago Area. November 6, 2001.
2001. Geology/Geography Department. Illinois State University. Fire and Grazing Effects on Tallgrass Prairie. November 12, 2001
2003. Illinois Wesleyan University, Bloomington, Illinois. Natural Science Colloquia Series. Pondering tallgrass prairie ecology: fire and grazing effects. October 31, 2003.
2005. Department of Biology. Northeastern Illinois University. Chicago, IL. Fire and large mammal effects on tallgrass prairies, April 5, 2005.
2006. Department of Biology, Central Florida University, Orlando, FL. Does the invasive plant garlic mustard escape competition from native species through phenological niche separation? March 27, 2006.
2006. Archbold Biological Station, Lake Placid, FL. Does the invasive plant garlic mustard escape competition from native species through phenological niche separation? March 31, 2006.
2007. Department of Biology, Illinois State University, Normal, IL. Aspects of the Ecology of Natal Grass, an Invasive Species in Florida Scrub Vegetation, March 22, 2007.

2009. University of Wisconsin Arboretum-Madison 125 Anniversary Seminar. Ecology of Garlic Mustard, February 20, 2009. Tele-video Presentation.
2010. School of Biological Sciences, Illinois State University, Normal, IL. So many weapons, so much success; Ecology of Garlic Mustard an invasive plant species. April 1, 2010.
- Anderson, Roger C. 2010. Fire, climate change, humans, and the tallgrass prairie. Midewin Lecture Series. Midewin National Tallgrass Prairie, Wilmington, IL. May 13, 2010.

**XIV. PAPERS PRESENTED TO PROFESSIONAL SOCIETIES AND ORGANIZATIONS  
(Name of the person making the presentation is italicized if the paper was not presented by R. C. Anderson)**

- Anderson, Roger C. 1968. The influence of daylength and temperature on tuber formation in *Trientalis borealis*. Ecological Society of America (ESA) Meetings, Bull. ESA 49:68, Madison, Wisconsin (Abstract).
- Ugent, Donald* and Roger C. Anderson. 1969. The climatic tension zones of Illinois and their bearing on plant distribution. Illinois Acad. of Science Meetings, Decatur, Illinois.
- Anderson, R. C. 1969. A record of the past--Heron Pond, Illinois Acad. of Science Meetings, Decatur, Illinois.
- Anderson, R. C. 1969. A comparative study of the influence of temperature on the rate of shoot development of *Trientalis borealis*. Ill. Acad. of Science Meeting, Decatur, Illinois.
- Anderson, Roger C. 1970. A new prairie map for Illinois. Ill. Acad. of Science Meeting, Chicago, Illinois.
- Anderson, Roger C. 1970. The influence of temperature on the rate of shoot development of *Trientalis borealis* in Wisconsin. ESA Meetings, ESA Bull. 51(2):26, Bloomington, Indiana. (Abstract).
- Anderson, Roger C. 1970. Prairie restoration in southern Illinois. Second Midwest Prairie Conference, Madison, Wisconsin.
- Fralish, James S., James L. Chambers, and Roger C. Anderson. 1971. The compositional gradient for undisturbed upland forests in southern Illinois. Ecological Society of America Meetings, ESA Bull. 52:27, Ft. Collins, Colorado.(Abstract).
- Anderson, Roger C. 1973. The influence of deer on vegetation. Annual meeting of the Wisconsin Academy of Science, Ripon, Wisconsin.
- Anderson, Roger C. 1973. The response of Wisconsin tall-grass prairie to burning. Oklahoma Academy of Science (OAS), Oklahoma City, Oklahoma.
- Anderson, Roger C. 1974. Presettlement vegetation of Williamson County, Illinois. Botany Section, Oklahoma Academy of Science, Durant, Oklahoma.
- Bryant, Jeff*, and Roger C. Anderson. 1974. Phenology and production of a Central Oklahoma Grassland. Collegiate Section, OAS, Durant, Oklahoma (presented by Bryant).
- Anderson, Roger C. 1975. Phenology and productivity of a central Oklahoma grassland. SWAN Meeting, University of Oklahoma Biological Station, Kingston, Oklahoma.
- Anderson, Roger C. 1975. Influence of deer on hemlock regeneration in Wisconsin. OAS Meeting, Tulsa, Oklahoma.
- Harrison, Terry, and Roger C. Anderson. 1975. Introgressive hybridization between *Quercus velutina* and *Q. marilandica* in Oklahoma. OAS Meeting, Tulsa, Oklahoma.
- Anderson, Roger C., and James S. Fralish. 1976. A compositional gradient for upland forests in southern Illinois. SWAN Meeting, Hays, Kansas.
- Anderson, Roger C. 1976. The influence of deer on the structure and composition of hemlock forests in Wisconsin. SWAN Meeting, Hays, Kansas.



- Anderson, Roger C. 1976. The influence of deer on the structure and composition of hemlock forests in Wisconsin. ESA Meetings, New Orleans, Louisiana. ESA Bull. 57:28 (abstract).
- Anderson, Roger C. 1976. The role of fire in grassland management. A symposium on the grasses and grasslands of Oklahoma. Sponsored by the OAS and the Noble Foundation. Alva, Oklahoma.
- Thomson, P. M., and R. C. Anderson. 1976. An ecological investigation of the Oakwood Bottoms Greentree Reservoir in Southern Illinois. First meeting of the Central Hardwood Forest Conference, Carbondale, Illinois.
- Adams, Dwight E., and Roger C. Anderson. 1976. Effect of fire on an abandoned prairie. Oklahoma Academy of Science, Alva, Oklahoma .
- Anderson, Roger C. 1977. The influence of deer on the structure and composition of hemlock forests. Joint meeting, Illinois and Missouri Academy of Science, St. Louis, Missouri. Trans. Ill. Acad. of Science 70:194. (abstract).
- Anderson, R. C. 1977. Phenology and productivity of grassland sites in central Oklahoma. ESA Meetings. ESA Bull. 58: (abstract), East Lansing, MI.
- Anderson, Roger C. 1978. Phenology and productivity of a central Oklahoma grassland. Ill. Acad. of Science Meeting, Normal, Illinois.
- Rodgers, Cassandra Sue, and Roger C. Anderson. 1978. The presettlement vegetation of McLean Co. Ill. Acad. of Science Meeting, Normal, Illinois.
- Adams, Dwight E., and Roger C. Anderson. 1978. The response of a central Oklahoma grassland to burning. 1. Acad. of Science Meeting, Normal, Illinois.
- Anderson, Roger C. 1978. Germination mechanisms in Tripsacum dactyloides L. Athens, Georgia, ESA Meetings. ESA Bull. 59:50 (abstract).
- Rodgers, Cassandra Sue, and Roger C. Anderson. 1978. The presettlement vegetation of McLean Co. Athens, Georgia, ESA Meetings. ESA Bull. 59:109 (abstract).
- Adams, Dwight E., and Roger C. Anderson. 1978. The response of a central Oklahoma grassland to burning. SA Meetings. Athens, Georgia, ESA Bull. 59:109 (abstract).
- Anderson, Roger C., and Dwight E. Adams. 1978. Species replacement pattern in central Illinois white oak forests. Central Hardwoods Conference II, West Lafayette, Indiana.
- Anderson, Roger C., and Dwight E. Adams. 1978. Phenology and productivity of a central Oklahoma grassland. 6th North American Prairie Conference, Columbus, Ohio.
- Anderson, Roger C. 1978. Germination mechanisms in Tripsacum dactyloides L. 6th North American Prairie Conference, Columbus, Ohio.
- Nelson, Dennis C., and Roger C. Anderson. 1979. Distribution of vegetation on Goose Lake Prairie Nature Preserve. ESA Meetings. Stillwater, OK, ESA Bull. 60:103 (abstract).
- Adams, Dwight E., and Roger C. Anderson. 1979. Composition and dynamics of central Illinois forests. Stillwater, OK, ESA Meetings. ESA Bull. 60:82 (abstract)
- Anderson, R. C., and L. Brown. 1979. Influence of prescribed burning on colonizing black locust. Central Hardwoods Conference II, University of Missouri, Columbia.
- Anderson, Roger C., and Dwight E. Adams. 1979. Species replacement patterns in central Illinois white oak forests. Stillwater, OK, ESA Meetings. ESA Bull. 60:82 (abstract).
- Callahan, John, and Roger C. Anderson. 1979. Aspects of litter fall and accumulation of central Illinois white-red oak forests. Ill. Acad. of Science Meeting, Carbondale, Illinois .
- Anderson, Roger C. 1979. Germination mechanism in Tripsacum dactyloides. Ill. Acad. of Science Meeting, Carbondale, Illinois.
- Adams, D. E., and Roger C. Anderson. 1979. Composition and dynamics of central Illinois forest. Ill. Acad. of Science Meeting, Carbondale, Illinois.

- Anderson, R. C., and L. Brown. 1980. Influence of prescribed burning on colonizing black locust. Ill. Acad. of Science Meeting, Lisle, Illinois.
- Nelson, D. C., and R. C. Anderson. 1980. Distribution of vegetation on Goose Lake Prairie Nature Preserve. Ill. Acad. of Science Meeting, Lisle, Illinois.
- Rodgers, C. S., and R. C. Anderson. 1980. The pre-settlement vegetation of Mason Co., Illinois. Ill. Acad. of Science Meeting, Lisle, Illinois.
- Furrow, A. M., and R. C. Anderson. 1980. Influence of cold stratification and temperature on the germination of Tripsacum dactyloides. Ill. Acad. of Science Meeting,
- Anderson, R., and D. Birkenholz. 1980. Growth of prairie grasses and domestic forage on strip mine soils. Ill. Acad. of Science Meeting, Lisle, Illinois.
- Anderson, R., and D. Birkenholz. 1980. Growth of prairie grasses and domestic forage on strip mine soils. 6th North American Prairie Conference, Columbia, Missouri (presented by Irene Cull)
- Haug, J. L., R. C. Anderson, and A. E. Liberta. 1981. Inhibition of selected corn fungal pathogens by *Pseudomonas* isolates from Tripsacum dactyloides caryopses. Knoxville, TN, Assoc. of Southern Biologists Meeting. ASB Bull. 28:50 (abstract).
- Anderson, R. C. 1981. Influence of cold stratification and temperature on the germination of Tripsacum dactyloides. Assoc. of Southern Biologists Meeting. Knoxville, TN, ASB Bull. 28:75 (abstract).
- Anderson, R. C. 1981. The growth of Tripsacum dactyloides (Eastern gama grass) under various levels of inorganic nutrients. Knoxville, TN, Assoc. of Southern Biologists Meeting. ASB Bull. 28:75 (abstract).
- Rodgers, C. S., and R. C. Anderson. 1981. Prairie grass response to strip mine spoil amended with sewage sludge. ESA Meetings. Bloomington, IN, ESA Bull. 62:143 (Abstract).
- Anderson, R. C., and M. Beare. 1981. Breeding system and pollination ecology of *Trientalis borealis*. ESA Meetings. Bloomington, IN, ESA Bull. 62:173 (abstract).
- Rodgers, C. S., and R. C. Anderson. 1981. Prairie response to strip mine spoil amended with sewage sludge. Ill. Acad. of Science Meeting, Bloomington, Illinois.
- Anderson, R. C. 1981. Growth of Tripsacum dactyloides (Eastern Gama Grass) under various levels of inorganic nutrients. Ill. Acad. of Science Meeting, Bloomington, Illinois.
- Anderson, R. C., and M. H. Beare. 1981. Breeding system and pollination ecology of *Trientalis borealis*. Ill. Acad. of Science Meeting, Bloomington, Illinois.
- Benjamin, P., and R. Anderson. 1982. Influence of collecting on the reproductive capacity of wild ginseng (Panax quinquefolium) in Illinois. Ill. Acad. of Science Meeting, Decatur, Illinois.
- Callahan, J., and R. Anderson. 1982. Variation in reproductive output for Acer saccharum in ordinated forest stands in central Illinois. Ill. Acad. of Science Meeting, Decatur, Illinois.
- Anderson, Roger C. 1982. Growth of prairie grasses on strip mine spoil. Ill. Acad. of Science Meeting, Decatur, IL
- Anderson, R. C., C. S. Rodgers, and D. E. Birkenholz. 1982. Growth of prairie grasses on strip mine spoil. Poster session, ESA Meetings. University Park, PA, ESA Bull. 66:121 (abstract).
- Anderson, R. C., A. E. Liberta, L. A. Dickman, and A. J. Katz. 1983. A technique for determining spatial variation in VAM spore density and its application to field sampling. Mycological Society of America, Ames, Iowa (poster session) (abstract).
- Anderson, R. C., A. E. Liberta, and L. A. Dickman. 1983. Interaction of plant species and vesicular arbuscular mycorrhizal (VAM) fungi along a moisture gradient. ESA Meetings, ESA Bull. 64:97. Grand Forks, ND, (Abstract).
- Johnson, R. G., and R. C. Anderson. 1983. The seed bank of a tallgrass prairie (poster session). ESA Meetings, ESA Bull. 64:149 (abstract). Grand Forks, ND.

- Rodgers, C. S., and R. C. Anderson. 1983. Prairie and domestic grass establishment on unamended and sludge amended strip mine spoil (poster session). ESA Meetings, ESA Bull. 64:151. Grand Forks, ND (abstract).
- Kebart, K.*, and R. C. Anderson. 1984. Phenology of a central Illinois tallgrass prairie. Illinois Acad. of Science Meetings, April, 1984, Dekalb, Illinois.
- Schwegman, J.*, and R. C. Anderson. 1984. Vegetational effect of ten years of fire exclusion on a southern Illinois barren remnant. 9th North American Prairie Conference, Moorhead, Minnesota.
- Dickman, L. A., A. E. Liberta, and R. C. Anderson. 1984. Ecological interactions of little bluestem and vesicular-arbuscular mycorrhizal fungi. ESA Meeting, ESA Bull. 66:105. (Fort Collins, CO) (Abstract).
- Anderson, R. C., and A. E. Liberta. 1985. VAM spore abundance and diversity in an Illinois corn field and adjacent tallgrass prairie. Page 281. In Proceedings of the 6th North American Conference on Mycorrhizae. (R. Molina, ed.) Oregon State Univ. Press, Corvallis.
- Anderson, R. C., B. C. Ebbers, and A. E. Liberta. 1985. Growth and vesicular-arbuscular mycorrhizal (VAM) colonization of prairie cordgrass (*Spartina pectinata*) under varied soil moisture conditions. Ecol. Soc. Amer. Meetings, ESA Bull. 66:136), (abstract) Minneapolis, MN.
- Ebbers, B.*, R. Anderson, and A. Liberta. 1985. Mycorrhizal ecology of prairie dropseed (*Sporobolus heterolepis*) at Goose Lake Prairie, Illinois. Ecol. Soc. Amer. Meetings, ESA Bull. 66:168 (abstract), Minneapolis, MN,
- Benjamin, P.*, and R. C. Anderson. Influence of collecting on the reproductive capacity of wild ginseng (*Panax quinquefolium*) in Illinois. Ecol. Soc. Amer. Meetings (Abstract ESA Bull. 66:140), Minneapolis, MN, June 1985.
- Dhillon, S.*, and R. C. Anderson. 1985. Comparison of insect abundance on burned and unburned sand prairie in central Illinois. Ecol. Soc. Amer. Meetings (Abstract ESA Bull. 66:164), Minneapolis, MN.
- Liberta, A. E., and R. C. Anderson. 1985. Comparison of VAM species composition, spore abundance, and inoculum potential in an Illinois prairie and selected agricultural sites. AIBS Meetings (Abstract Mycol. Soc. Amer. Newsl. 36:31), Gainesville, FL, August 1985 (poster session).
- Anderson, R. C., and A. E. Liberta. Spatial and temporal variation in vesicular-arbuscular mycorrhizal inoculum potential in a central Illinois sand prairie community. AIBS Meetings, Amer. J. Bot. 72:846 (abstract), Gainesville, FL, August 1985.
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- Myers, Caroline V., Roger C. Anderson and Diane L. Byers. 2001. Influence of shading on the growth and photosynthesis of the invasive exotic plant garlic mustard *Alliaria petiolata* grown under simulated early spring conditions. Abstracts The Ecological Society of America 86<sup>th</sup> Annual Meeting, Pp. 164. Madison, Wisconsin, August 6, 2001.
- Rickey, Marcia A., Roger C. Anderson and Debra L. Nelson. 2001. *Tradescantia ohioensis* as an indicator of deer browsing intensity in northeastern Illinois prairies. Abstracts The Ecological Society of America 86<sup>th</sup> Annual Meeting, Pp. 335. Madison, Wisconsin, August 7, 2001.
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- S. L. Sauer, R. C. Anderson, R. Swigart, J. Fralish, and A. Carver. 2002. Modifying distance methods to estimate historical tree density from government land office survey records. Abstract. Transactions of the Illinois State Academy of Science (supplement to volume 95):88, 94<sup>th</sup> Annual Meeting of Illinois State Academy of Science, SIU- Edwardsville, April 19, 2002.
- M. A. Rickey, and R. C. Anderson. 2002. Characterization of three *Phragmites australis* sites and populations through soil analysis and photosynthesis measurements. Abstract. Transactions of the Illinois State Academy of Science (supplement to volume 95):7, 94<sup>th</sup> Annual Meeting of Illinois State Academy of Science, SIU- Edwardsville, April 19, 2002.
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- S. L. Sauer, R. C. Anderson, R. Swigart, J. Fralish, and A. Carver. 2002. Modifying distance methods to estimate historical tree density from government land office survey records. . Botanical Society of America Meetings. Madison, Wisconsin, August 7, 2002.

- Smith, Japhia, and R. C. Anderson. 2002. Using vital attributes modeling to predict long-term woodland vegetation responses to a variety of burning regimes. Botanical Society of America Meetings. Madison, Wisconsin, August 7, 2002.
- Antonsen, Hilde, Roger C. Anderson, and Steven A. Juliano. 2002. Reanalyzing data on effects of nutrients on *Schizachyrium scoparium* (little bluestem) with high and low colonization. Botanical Society of America Meetings. Madison, Wisconsin, August 7, 2002. (Poster)
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- Myers, Caroline V., Roger C. Anderson, and Diane Byers. 2003. Influence of varied light regimes on the growth and photosynthesis of an invasive, non-indigenous plant garlic mustard [*Alliaria petiolata* (M. Bieb) Carvara and Grande ]. Transactions of the Illinois State Academy of Science (supplement to volume 96):47, 95<sup>th</sup> Annual Meeting of Illinois State Academy of Science, Illinois State University and Heartland Community College, Normal, April 4, 2003. (Poster)
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- Antonsen, H., RC. Anderson, and SA. Juliano Effects of supplemental nutrients on *Schizachyrium scoparium* (little bluestem) with high and low AM colonization. Ecological Society of America 88<sup>th</sup> Annual Meeting Abstracts. P.14. Savannah, Georgia, August 4-8, 2003.
- Sauer, Suzanne L., and Roger C. Anderson. 2003. Modifying distance methods to estimate historical tree density from government land office survey records. Ecological Society of America 88<sup>th</sup> Annual Meeting Abstracts. P.296. Savannah, Georgia, August 4-8, 2003.

- Smith, Japhia, and Roger C. Anderson. 2003. Historical change and future predictions of vegetation structure in a central Illinois woodland. Ecological Society of America 88<sup>th</sup> Annual Meeting Abstracts. P.312. Savannah, Georgia, August 4-8, 2003.
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- S. L. Sauer, and R. C. Anderson. 2004. Historic vegetation of east bluffs of the Illinois River in central Illinois. Transactions of the Illinois State Academy of Science (supplement to volume 97):25, 96<sup>th</sup> Annual Meeting of Illinois State Academy of Science, Eastern Illinois University, April 2, 2004.
- Anderson, R. C., M. R. Anderson, D. Nelson, and M. A. Rickey. 2004. White-tailed deer (*Odocoileus virginianus* Zimmermann) effects on tallgrass prairie forbs: diversity and community quality. 19<sup>th</sup> North American Prairie Conference, Univ. of Wisconsin-Madison, August 11, 2004.
- Jones, S. L., and R. C. Anderson 2004. Analysis of historical vegetation patterns in the eastern portion of the Illinois Lesser Shawnee Hill. Ecological Society of America Meetings, Portland, Oregon, August 5, 2004.
- Anderson, M. R., R. C. Anderson, and R. Goad. 2004. Seed dispersal and seedling survival in a tropical rainforest tree. Ecological Society of America Meetings, Portland, Oregon, August 5, 2004. (Poster)
- Jones, Suzanne L., and Roger C. Anderson. 2004. Analysis of historical vegetation patterns in the eastern portion of the Illinois Lesser Shawnee Hills. Natural Areas Conference, Chicago, IL, October 14, 2004.
- Anderson, Roger C., and Caroline V. Myers. 2004. Seasonal variation in photosynthetic rate of garlic mustard (*Alliaria petiolata*). Natural Areas Conference, Chicago, IL, October 16, 2004.
- Anderson, R. C., S. L. Sauer, and R. Swigart. 2005. Pattern of witness tree selection by surveyors in the government land office survey records. Transactions of the Illinois State Academy of Science (supplement to volume 98):26, 97<sup>th</sup> Annual Meeting of Illinois State Academy of Science, Knox College, Galesburg, Illinois, April 7, 2005.
- Megan, J. Timpe, and Roger C. Anderson. Importance of early spring growth on the success of garlic mustard (*Alliaria petiolata*). Transactions of the Illinois State Academy of Science (supplement to volume 98):45, 97<sup>th</sup> Annual Meeting of Illinois State Academy of Science, Knox College, Galesburg, Illinois, April 7, 2005. (Poster)
- Bauer, Jonathan, and Roger C. Anderson. 2005. Competition between first- and second-year garlic mustard plants (*Alliaria petiolata* Brassicaceae) and native vegetation. Transactions of the Illinois State Academy of Science (supplement to volume 98):46, 97<sup>th</sup> Annual Meeting of Illinois State Academy of Science, Knox College, Galesburg, Illinois, April 7, 2005.
- Smith, Japhia, and Roger C. Anderson. 2005. Relationships between ground layer herbs and standing dead and living trees in a central Illinois old-growth forest. Ecological Society of America with INTERCOL, Montreal, Quebec, Canada, August 11, 2005.
- Thurau, Richard G., Andrew D. Carver, James S. Fralish, J.C. Randolph, Charles M. Ruffner, and Roger C. Anderson .2006. Large-Scale Mapping of Ecological Land Types in the Shawnee National Forest, Illinois Utilizing Geographic Information Systems. 15th Central Hardwood Conference, Knoxville, Tennessee, February 27 - March 1, 2006.
- Bauer, J., R. C. Anderson, and M. R. Anderson. 2006. Alternating patch characteristics in *Alliaria petiolata* (Garlic Mustard). Transactions of the Illinois State Academy of Science (supplement to volume 99):20, 98<sup>th</sup> Annual Meeting of Illinois State Academy of Science, University of Illinois, Chicago. April 20, 2006.

- Mullarkey, A., A., J. Smith, and R. C. Anderson. Compositional changes in a central Illinois woodland. Transactions of the Illinois State Academy of Science (supplement to volume 99):37, 98<sup>th</sup> Annual Meeting of Illinois State Academy of Science, University of Illinois, Chicago. April 21, 2006. (Poster)
- Anderson, Roger, Jones, Suzanne, Swigart, Richard 2006. Patterns of witness tree selection by surveyors in the Government Land Office survey records. Ecological Society of America Meetings. Memphis, TN, August 10, 2006. <http://www.esa.org/memphis/contributedOrals.php>
- Bauer, J. T., R. C. Anderson, and m. R. Anderson. 2006. Alternating patch characteristics in *Alliaria petiolata* (Garlic mustard). Ecological Society of America Meetings. Memphis, TN, August 8, 2006. <http://www.esa.org/memphis/contributedOrals.php>
- Timpe, M., and R. C. Anderson. 2006. The importance of a fluctuating resources to the success of an exotic invasive herb, garlic mustard (*Alliaria petiolata*). Ecological Society of America Meetings. Memphis, TN, August 10, 2006. <http://www.esa.org/memphis/contributedOrals.php>
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- Anderson, Roger C. 2006. Growth and arbuscular mycorrhizal (AM) fungal colonization of two prairie grasses grown in soil from three prairie restorations of varied ages Soils in Restoration Ecology Conference, DePaul University, December 19, 2006. (Poster)
- Anderson, R. C., D. Nelson, E. Corbett, and M. R. Anderson. 2006. Changes in flowering stem density and diversity of prairie forbs as influenced by deer browsing. 20<sup>th</sup> North American Prairie Conference, Univ. of Nebraska, Kearney, Nebraska, July 23-26, 2006. (Poster)
- Mullarkey, A., and R. Anderson. 2007. Effect of mating system on progeny quality in the invasive biennial *Alliaria petiolata*. Plant Biology and Botany 2007 Joint Congress. Chicago, Illinois. July 7-11, 2007.
- Anderson, Roger C., and Eric S. Menges. 2007. Response of Natal grass (*Melinis repens*), an invasive species in Florida scrub vegetation, to supplemental additions of nitrogen and phosphorus. Joint meeting of the Ecological Society of America and the Society for Ecological Restoration. San Jose, California, August 9, 2007.
- Anderson, Roger C., and Eric S. Menges. 2008. Response of Natal grass (*Melinis repens*), an invasive species in Florida scrub vegetation, to supplemental additions of nitrogen and phosphorus. Illinois State Academy of Science Meetings, Urbana-Champaign, IL, April 5, 2008. Trans. IL State Acad. Science 101 :13. Illinois State Academy of Science Meetings, Urbana-Champaign, IL, April 5, 2008. Trans. IL State Acad. Science 101:13.
- Herold, Jamie, Baumhardt, Patrice E. and Anderson, Roger C. 2008. Influence of cold-moist stratification on germination of seeds of prairie plants. Illinois State Academy of Science Meetings, Urbana-Champaign, IL, April 5, 2008. Trans. IL State Acad. Science 101 :13. Illinois State Academy of Science Meetings, Urbana-Champaign, IL, April 5, 2008. Trans. IL State Acad. Science 101:13.
- Mullarkey, Alicia, Anderson, Roger C. and Byers Diane L. 2008. Expression of inbreeding depression on the self-compatible invasive plant, garlic mustard (*Alliaria petiolata*). Illinois State Academy of Science Meetings, Urbana-Champaign, IL, April 5, 2008. Trans. IL State Acad. Science 101 :13. Illinois State Academy of Science Meetings, Urbana-Champaign, IL, April 5, 2008. Trans. IL State Acad. Science 101:13.
- Jonathan Thomas Bauer; Roger C. Anderson; M. Rebecca Anderson. 2008. Intraspecific competition in the invasive, biennial garlic mustard and the response of native vegetation to garlic mustard removal. Society for Conservation Biology Meetings. Chattanooga, Tennessee, .July 14, 2008

- Anderson, Roger C., and Eric S. Menges. 2008. Response of Natal grass (*Melinis repens*), an invasive species in Florida, to varied temperature conditions. Ecological Society of America Meetings, Milwaukee, Wisconsin, August 7, 2008
- Alicia A. Mullarkey, Roger C. Anderson, and Diane L. Byers. 2008. Expression of inbreeding depression on the self-compatible invasive plant, garlic mustard (*Alliaria petiolata*). Ecological Society of America Meetings, Milwaukee, Wisconsin, August 7, 2008
- Thurau, Richard G , James L. Fralish, and Roger C. Anderson, 2008. A GIS model of ecological land types in the Shawnee National Forest. Ecological Society of America Meetings, Milwaukee, Wisconsin, August 7, 2008.
- Slater, Mitchell, and Roger C. Anderson. 2009. Impacts of preferential herbivory on tree species composition and seedling abundances in an Illinois closed-canopy forest site. . Illinois State Academy of Science Meetings, Southern Illinois University-Edwardsville, April 17, 2009. Trans. IL State Acad. Science Supplement 102:14.
- Anderson, R. C., Corbett, and M. R. Anderson. 2009. Changes in flowering stem density and diversity of prairie forbs as influenced by deer browsing and burning. Illinois State Academy of Science Meetings, Southern Illinois University-Edwardsville, April 17, 2009. Trans. IL State Acad. Science Supplement 102:11.
- Anderson, R. C., E. A. Corbett, and M. R. Anderson. 2009. Changes in flowering stem density and diversity of prairie forbs as influenced by deer browsing and burning. Society for Ecological Restoration International Meetings. Perth Australia, August 25, 2009.
- Timpe, M., and R. C. Anderson. 2009. Partial phenological niche separation favors *Alliaria petiolata* (Garlic Mustard) a Eurasian invasive species in eastern deciduous forest herbaceous ground layers in North America. Society for Ecological Restoration International Meetings. Perth Australia, August 27, 2009.
- Jones, S. L., and R. C. Anderson. 2010. Analysis of historical vegetation patterns in the Eastn Portion of the Illinois Lesser Shawnee Hills, USA. 17<sup>th</sup> Central Hardwoods Forest Conference. Lexington, KY, April 6, 2010.
- Anderson, Roger C., Anderson, Mary Rebecca, Bauer, Jonathan T., Slater, Mitchell, Herold, Jamie, Baumhardt, Patrice and Borowicz, Victoria. 2010. Effect of removal of garlic mustard (*Alliaria petiolata*, Brassicaceae) on arbuscular mycorrhizal fungi (AMF) inoculum potential in forest soils. Illinois State Academy of Science Meetings, Millikin University, Decatur, IL, April 10, 2010
- Anderson, R. C. 2010. Oak woodlands and savanna: Historic and futuristic perspectives. Invited paper – Organized Oral Session. Vegetation dynamics, structures and traits of the Midwestern oak-savannas under changing climates. Ecological Society of America Meetings. University of Pittsburgh, August 3, 2010.
- Bauer, J. T., R. C. Anderson, and M. R. Anderson. 2010. Effect of four years of garlic mustard (*Alliaria petiolata*) removal on native vegetation and mycorrhizae. Invited paper – Organized Oral Session. Garlic mustard: Lessons learned from multiple dimensions of ecological invasion study. Ecological Society of America Meetings. University of Pittsburgh, August 3, 2010.
- Slater, M. A., and R. C. Anderson. 2010. Impacts of preferential herbivory on tree species composition and seedling abundance in an Illinois closed-canopy forest site. Ecological Society of America Meetings. University of Pittsburgh, August 6, 2010.
- Timpe, Megan J. and Roger C. Anderson. 2011. Phenological niche separation from native species increases reproductive success of an invasive species; *Alliaria petiolata* (Brassicaceae) – garlic mustard. Third Midwest-Great Lakes SER Chapter Meeting, University of Illinois Springfield, April 1, 2011.

- Timpe, Megan J. and Roger C. Anderson. 2011. Phenological niche separation from native species increases reproductive success of an invasive species; *Alliaria petiolata*. Illinois State Academy of Science Meetings. Eastern Il. University, Charleston, April 6, 2011. Trans. Il State Acad. Sci, Supplement to vol 104:77.
- Anderson, Roger C. 2011. Changes in trees species composition, abundance, and diversity in a remnant historic prairie grove in central, Illinois USA over a twenty-eight year period. 20<sup>th</sup> Annual Meeting of the Society for Ecological Restoration. August 21-26, Merida, Yucatan, Mexico. Book of Abstracts. SERS 2011 World Conference on Ecological Restoration, Page 223. [www.ser.org/pdf/SER\\_Book\\_of\\_Abstracts\\_FINAL\\_03.pdf](http://www.ser.org/pdf/SER_Book_of_Abstracts_FINAL_03.pdf).
- Jamie Herold, M. Rebecca Anderson, Jonathan T. Bauer, Victoria Borowicz, and Roger C. Anderson. 2011. Comparison of the effect of early and late removal of second-year garlic mustard (*Alliaria petiolata*) on first-year plants and deciduous forest spring and summer dominant herbaceous groundlayer species in central Illinois, USA. 20<sup>th</sup> Annual Meeting of the Society for Ecological Restoration. August 21-26, Merida, Yucatan, Mexico. SERS 2011 World Conference on Ecological Restoration, Page 223. [www.ser.org/pdf/SER\\_Book\\_of\\_Abstracts\\_FINAL\\_03.pdf](http://www.ser.org/pdf/SER_Book_of_Abstracts_FINAL_03.pdf).

## **XV. COMMUNITY SERVICE**

### **A. Publications for General Audience**

#### **Articles**

- Anderson, Roger C. 1966. Ecocinema - A Plan for Preserving Nature. Soil Survey Horizons 7:7-9.
- Anderson, Roger C. 1967. Birds, Bugs, and Biotrons. The University of Wisconsin Arboretum News. Vol. 16, No. 1:1-3.
- Anderson, Roger C. 1972. The Prairie. Outdoor Illinois, February, 1972. p. 19-26.
- Anderson, Roger C. 1970. A Challenge to Our Friends. The University of Wisconsin Arboretum News. Vol. 19, No. 4:1-3. (Reprinted Arboretum and Botanical Gardens Bulletin AABGA 5:89-90, July 1971).
- Anderson, Roger C., and William C. Ashby. 1970. Lusk Creek. Outdoor Illinois 9:20-22.
- Anderson, Roger C. 1972. The use of fire as a management tool on the Curtis Prairie. The University of Wisconsin Arboretum News. Vol. 21, No. 3:1-9.
- Anderson, Roger C. 1972. Arboretum Whitetails. The University of Wisconsin Arboretum News. Vol. 21, No. 2:9-10.
- Schwehr, David, and Roger C. Anderson. 1972. The Leopold Pines. The University of Wisconsin Arboretum News. Vol. 21, No. 1:1-16.
- Anderson, Roger C. and Harry Stroebe. 1973. Trapping the Arboretum deer herd. Wisconsin Conservation Bulletin. Vol. 38, No. 5:20-21.
- Anderson, Roger C. 1974. Articles written for the Outdoor New, Oklahoma Wildlife Federation Newspaper Dec. "Forests of Oklahoma", June. "Stalking Wild Poisons", July "Reading the Landscape"
- Anderson, Roger C. 1989. History, fires, trees and prairie flowers. ParkLands Foundation Newsletter (June-July 1989).
- Anderson, Roger C. 1992. Savannah restoration at the Merwin Preserve. ParkLands Foundation Newsletter (Dec.-Jan. 1992).
- Nelson, Amy, Kevin Bastien, and Roger Anderson. 1992. Reconstruction our vegetational history, ParkLands Foundation Newsletter (August-December 1992).

#### **Other Materials**



- Scheer, Holly and Roger C. Anderson 1995. "Guide to the Freedom Prairie" guide to a restored prairie located in Normal, Illinois
- Anderson, R. C. 1995. Self-guided nature trail guide for the University of Illinois Restored Prairie at Allerton Park (Schroth Trail Exhibits).
- Anderson, Roger C., Matt Fritsch, and Dale E. Birkenholz. 1999. Nature Trail Guide, ParkLands Foundation, Merwin Preserve.

**B. Radio and television presentations** related to my professional expertise - This is not a complete record -

- 1970 - TV Channel 3, Harrisburg, Il - Preservation of Lusk Creek
- 1971 - WISM radio, Madison, WI- Arboretum Problems, Party line show - TV Channel 15 - Today in Madison, Arboretum Problems
- 1972 - WHA radio, Madison, WI - Madison Arboretum - WISM radio, Madison, WI - Madison Arboretum - WTSO radio, Madison, WI - Madison Arboretum - Channel 3 TV, Madison, WI - Arboretum Deer - WTSO radio, Madison, WI - Fish Hatchery Rd. - WHA radio, Madison, WI - Radio Tower placement on the Arboretum property - Channel 27 TV, Madison, WI - What a family can do in Madison during the winter
- 1977 - 15 minute radio interview with Illinois Dept. of Conservation personnel on prescribed burning, which was distributed by IDOC
- 1981 - Channel 10 News ISU - Why do leaves change color and fall
- 1992 - Channel 19 News, Peoria - Ozone depletion
- 1993 - Channel 31 News, Peoria - Global Warming - The Mackinaw River
- 1994 - Channel 10 - ISU, Managed deer hunt on ParkLands Foundation Property - Channel 25 - Peoria - Outdoor Illinois Program - effect of white-tailed deer on vegetation, ParkLands Foundation management deer hunt
- 1996 - WJLT Local Public Radio, Interview on a recently published book, which I had co-edited (Savannas, barrens, and rock outcrop plant communities of North America.)
- 2006 - Presentations on the potential for Biofuel Plants to become invasive species. Ethanol and Invasive Plants WGLT, Air dates 10/5, 10/7, 10/8 2006
- NPR Market Place Planting of *Arundo donax* (Giant Reed) for biofuel production in Florida Air time, December 6, 2006

**C. Presentations to general audiences**

I have given over 157 presentations to the general public on topics such as environmental issues, wild flowers, prairie ecology, and fire ecology to garden clubs, 4-H clubs, Scout organizations, Rotary Clubs, Audubon groups, Elderhostels, International Exchange Club, Kiwanis Clubs, Church groups, and other similar organizations since 1968.

**D. Significant Public Presentations**

1. "Wrap up speaker," Illinois Natural Areas Conference, March 1979, Olgesby, Illinois.
2. Climate, fire, man and the tallgrass prairie, Chippewa Nature Center, March 1981, Midland, Michigan.
3. **Keynote** address, Northern Illinois Prairie Workshop, Oglesby, IL.
4. Adult education course lecture, Fire and the tallgrass prairie. Field Museum of Natural History, June 1985, Chicago, IL.
5. Third Central Illinois Prairie Conference, sponsored by Grand Prairie Friends, Charleston, Illinois, September 28, 1991, Charleston, IL.
6. Arts and Sciences Week Lecture, Illinois State University, Normal, Illinois, October 29, 1992.

7. Distinguished Professor Lecture, Prairie Visions, Illinois State University, Normal, Illinois, November 29, 1995
8. Illinois Chapter of The Nature Conservancy, Volunteer Stewardship Network Regional Leaders Meeting, "Role of fire in shaping presettlement Illinois and fire's role in maintaining natural areas in the present" , Normal, Illinois, December 9, 1995.
9. Participated in a panel discussion on "Ecological Restoration: The challenges of Healing Nature in an Ecologically Illiterate Society," during Illinois State University Arts and Sciences Week, October 9, 1997.
10. Participated in a panel discussion, "Protecting the Shawnee National Forest For Future Generations: Policies to Ensure Forest Health." With Louise Odegaard (National Forest Supervisor), Mark Donham (RACE Representative), J. Lon Carlson (ISU Dept. of Economics), Moderated by Angelo Capparella, ISU Dept. of Biology, Sponsored by ISU Dept. of Recreation Services, Student Environmental Action Coalition and John Wesley Powell Chapter of the Audubon Society, Nov. 13, 1997.
11. Participant in land ethics panel discussion as part of the Living Ethics Symposium held on the Illinois State University Campus with Angelo Capparella (Biology, Moderator); Kurt Meine (International Crane Foundation, Baraboo, Wisconsin; Julie Gowen (Philosophy); and Joseph Graybill (History), Tuesday September 29, 1998.
12. Morning with the Professors, Academy of Seniors, Senior Professionals of Illinois State University. "Prairies in the Prairie State." May 9, 2003.

#### **E. Community Organizations**

- 1970 First President, and one of the founder of the Southern Illinois Audubon Society, Carbondale.
- 1970-73 Advisor, Friends of the University of Wisconsin-Madison Arboretum Board.
- 1970-73 Editor of the Arboretum News, University of Wisconsin-Madison
- 1976 President, Edmond Naturalist, Edmond, OK. 1979
- 1980-82 Vice-president of the John Wesley Powell Chapter of the Audubon Society, Bloomington
- 1980-82 Member and Secretary, City of Bloomington, IL Miller Park Zoological Society Board, Bloomington, IL.
- 1982-85 Chairman, McLean County Parks and Recreation Advisory Committee
- 1983-85 Member, Board of Directors of the M.O.R.E. Foundation (McLean County Organization for Outdoor Recreation and Education).
- 1983-2003, 2004- Present Member, Parklands Foundation Board, Vice-President Parklands Foundation (1987-92), President (1992 - 95). - The ParkLands Foundation is nonprofit private foundation based in McLean County, Illinois. Its primary function is to purchase natural lands and preserve them for public use and enjoyment. The Foundation currently owns 3,200 acres land. The largest of the holdings is the 700 acre Merwin Nature Preserve that has seven miles of hiking trails and a nature trail guide. The site is extensively used by the general public and school groups as an outdoor education facility. ISU uses the site for teaching and research. The current membership in ParkLands is about 350.
- 1990 –Advisor, Volunteer Steward Network of the Nature Conservancy in Illinois.
- 2000 – 2007 Member, McLean County Greenway Advisory Committee

