

Dr. Gary W. Barrett

Present Position

Eugene P. Odum Chair in Ecology
University of Georgia
Eugene P. Odum School of Ecology
Athens, Georgia 30602-2202

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Education

B.S. Biology, *cum laude*, Oakland City University, Oakland City, Indiana, 1961
M.S. Biology, Marquette University, Milwaukee, Wisconsin, 1963
Ph.D., Zoology (Ecology), University of Georgia, Athens, Georgia, 1967
Dissertation Advisor: Dr. Eugene P. Odum

Research Interests

Stress effects on ecosystem dynamics; mammalian population dynamics; applied ecology; agroecosystem ecology; restoration ecology; landscape ecology; career trends in ecological research and education

Professional Experience

Assistant Professor of Biology, Drake University, 1967-1968
Assistant Professor of Zoology, Miami University, 1968-1972
Associate Professor of Zoology, Miami University, 1972-1977
Professor of Zoology, Miami University, 1977-1986
Acting Director, Institute of Environmental Sciences, Miami University, 1970-1971
Deputy Director, Institute of Environmental Sciences, Miami University, 1971-1977
Deputy Director for Research, Institute of Environmental Sciences, 1977-1981
Coordinator, Environmental Education, Miami University, 1976-1977
Co-Director, Ecology Research Center, Miami University, 1977-1992
Director, Ecology Program, National Science Foundation, 1981-1983
Distinguished Professor of Ecology, Miami University, 1986-1994
Director, Institute of Ecology, University of Georgia, 1994-1996
Eugene P. Odum Chair in Ecology, University of Georgia, 1994-

Professional Recognition and Honors

Mu Tau Kappa, Honorary Society, 1960

Phi Sigma, Biology Honorary, 1962
 Scholarship, Duke University Marine Laboratory, Beaufort, North Carolina, Summer, 1963
 Teaching Assistantship, Marquette University, 1961-1963
 Teaching Assistantship, University of Georgia, 1963-1965
 Research Assistantship, AEC Institute of Radiation Ecology, University of Georgia, Summers, 1964-1965
 Recipient of NIH Predoctoral Research Fellowship, National Institute of General Medical Sciences, 1965-1967
 Ohio Board of Regents Committee on Environmental Quality, 1970-1977
 Advisor to Governor John Gilligan's Citizens Task Force on Environmental Protection, 1971-1972
 Recipient of Most Outstanding and Effective Teaching Award, Miami University, 1971
 Recipient of the Alumnus of the Year Award, Oakland City University, Board of Trustees, 1971
 Research Leave, NREL, Colorado State University, Fort Collins, Colorado, Winter Quarter, 1975
 Chair, State-wide Steering Committee for Environmental Manpower Symposium that was the basis for the Environmental Quality Award from the Region V, United States EPA for outstanding contributions in the field of Environmental Education, 1975
 Award of Distinction, Institute of Environmental Sciences, Miami University, 1977
 Sigma Xi Researcher of the Year, Miami University, 1986
 Award for Outstanding Professional Achievement, Affiliate Societies Council of the Engineering and Science Foundation of Dayton, 1987
 Honorary Doctor of Science Degree, Oakland City University, 1987
 Approach to Agroecosystem Ecology featured in the "Assignment Discovery" and "Earth Minute" segments of the national television Discovery Channel and Planet Productions, Incorporated, respectively, 1990-1991
 Elected Fellow, American Association for the Advancement of Science, 1990
 Alumni Enrichment Award, Miami University Alumni Association, 1991
 Certificate of Appreciation for Outstanding Service, Member of the Committee on the Use of Treated Municipal Wastewater Effluents and Sludge in the Production of Crops for Human Consumption, National Research Council, National Academy of Sciences, 1993-1996
 Board of Trustees, The Georgia Conservancy, 1996-1997
 Member, Council of Scientific Society Presidents, 1998
 AIBS Presidential Citation Award in Recognition of Leadership and Contributions to the Biological Sciences, 2000
 Recognition by the Ecological Society of America (ESA) for leading the successful fundraising effort to match the Eugene P. Odum (\$25,000) gift to ESA regarding the E. P. Odum Award for Excellence in Ecology Education, 2001
 Recipient of the United States International Association for Landscape Ecology (US-IALE) Distinguished Landscape Ecologist Award, 2001
 Appointed Associate Editor of Ecosystem Health, 2001-2002
 Recipient of the Excellence in Undergraduate Research Mentoring Award, University of Georgia, 2005
 Appointed to the EPA Board of Scientific Counselors (BOSC) Subcommittee to review the

Science To Achieve Results (STAR) and Greater Research Opportunities (GRO) Fellowship programs, 2006

Recipient of the first Lifetime Achievement Award in Environmental Sciences from the Institute of Environmental Sciences (IES), Miami University, 2007

Recognition by the Association of Ecosystem Research Centers (AERC) for long-term service, 2007

Appointed to the Board of Editors of *Southeastern Naturalists*, 2007-2011

Recipient of the Purple Heart Award presented by the Odum School of Ecology Graduate Students for Extraordinary Fidelity and Dedication, 2009

Faculty Mentor of Alexander D. Wright, most outstanding paper in the Biological Sciences Section of the 89th Annual Meeting of Georgia Academy of Science held 25-26 March 2011 in Gainesville Georgia, 2011

Faculty Mentor of Erin E. Froetschel, recognized, including membership, for her research presentation at the 11th Annual Sigma Xi Meeting and International Research Conference, and celebrating the 125th anniversary of Sigma Xi, held 10-13 November 2011 in Raleigh North Carolina, 2011

Faculty Mentor of James O. Moree, selected by the Board of Directors of the American Society of Mammalogists (ASM) for the 2011 Graduate Internship within the Public Policy Office of the American Institute of Biological Sciences (AIBS) located in Washington DC, 2011

Professional Activities

Professional Society Memberships

American Association for the Advancement of Science

American Institute of Biological Sciences

American Society of Mammalogists

American Society of Naturalists

Association of Ecosystem Research Centers

Association of Southeastern Biologists

British Ecological Society

Ecological Society of America

Georgia Academy of Science

International Association for Ecology

International Association for Landscape Ecology

Sigma Xi

Society for Conservation Biology

Society of Ecological Restoration

American Association for the Advancement of Science (AAAS)

Affiliate Representative of ESA to Biological Sciences-Section G, 1986-1989

Affiliate Representative of AIBS to Biological Sciences-Section G, 1988-1992

AAAS Fellow, 1990

American Institute of Biological Sciences (AIBS)

Council, 1984-1996
 Board of Directors, 1987-1989; 1997-1999
 Education Committee, 1987-1988
 Nominating Committee, 1987-1988
 AIBS Representative to the Biological Sciences Section of the AAAS, 1988-1992
 Special Science Programs Committee, 1988-1991
 Distinguished Service Award Committee, 1989
 AIBS Society Interaction Committee, 1993-1994
 ESA Representative to AIBS, 1990-1996
 AIBS Executive Committee, 1997-1999
 President-Elect, AIBS, 1997
 President, AIBS, 1998
 Council of Scientific Society Presidents, 1998
 Recognition of and appreciation for Outstanding Leadership as President of AIBS, 1998
 Immediate Past-President, AIBS, 1999
 Chair, Nominating Committee, 1999
 Finance Committee, 1999
 Co-Chair, Planning Committee for Fifty-first Annual AIBS Meeting, 22-25 March 2000
 Chair, Ad Hoc Endowment Committee, 2000
 AIBS Development and Public Policy Review Committee, 2002-2005
 ASM Representative to AIBS, 2005-2007
 ASM-AIBS Graduate Student Public Policy Internship Committee, 2005-2012

American Society of Mammalogists (ASM)

Education and Graduate Students Committee, 1976-1983; 1987-1992
 Chair, Education and Graduate Students Committee, 1978-1979
 Program Committee, 1980-1983
 Chair, ASM Local Committee for the Sixty-first Annual Meeting held at Miami University, 1981
 Jackson Award Committee, 1983-1986
 Resolutions Committee, 1984-1988; 1996-1998; 2003-2005
 ASM Representative to the AIBS, 1984-1986; 2005-2006
 Committee on Acceptable Field Methods in Mammalogy, 1986-1987
 Chair, Legislation and Regulations Committee, 1986-1988; Member of Committee, 1996-1997
 Chair, Seventy-fifth Anniversary Committee, 1991-1994
 Patron Member, 1996-
 Animal Care and Use Committee, 1996-2000
 Chair, Resolutions Committee, 2000-2002
 Planning and Finance Committee, 2000-2002
 ASM-AIBS Graduate Student Public Policy Internship Committee, 2005-2012

Association of Ecosystem Research Centers (AERC)

Miami University (Ecology Research Center) Representative to AERC, 1987-1993

AERC Representative to the AIBS, 1987-1988
 Treasurer, 1987-1989
 Executive Committee, 1987-1989
 Board of Directors, 1994-1996
 President-Elect, 1994-1995
 President, 1995-1996
 University of Georgia (Odum School of Ecology) Representative to AERC, 1994-2007

Ecological Society of America (ESA)

Education Committee, 1976-1980
 Chair, Education Committee, 1977-1980
 Special Study Committee, 1980-1981
 Murray F. Buell Award Committee, 1981-1983
 ESA Representative to the Institute of Ecology (TIE), 1982-1983
 Distinguished Service Award Committee, 1984-1985
 Chair, Applied Ecology Section, 1985-1987
 Program Committee, 1986-1987
 ESA Representative to the Biological Sciences Section of the AAAS, 1986-1989
 Certified Senior Ecologist, 1988 (Renewed 1993, 1998, and 2003)
 Nominating Committee, Applied Ecology Section, 1989
 ESA Corporate Award Committee, 1991-1994
 ESA Subcommittee for Eminent Ecologist and Distinguished Service Citation, 1992-1993
 ESA Representative to the AIBS, 1990-1996
 E. P. Odum Award Committee for Excellence in Ecology Education, 2000-2002
 ESA Board of Professional Certification, 2000-2003 (Re-elected 2003-2005)
 Vice Chair, ESA Board of Professional Certification Committee, 2003-2004
 Chair, ESA Board of Professional Certification Committee, 2004-2005

International Association for Ecology (INTECOL)

Chair, Symposium on Stress Ecology, II INTECOL Meeting, Jerusalem, Israel, 1978
 Chair, Symposium on Integrative Paradigms in Applied Ecology for the 1990s, IV INTECOL Meeting, Syracuse University, Syracuse, New York, 1986
 INTECOL Program Planning Committee, V INTECOL Meeting, Yokohama, Japan, 1989-1990
 Co-Chair, Plenary Round Table Discussion on Integrating Ecology and Economics, VII INTECOL Meeting, Florence, Italy, 1998

International Association for Landscape Ecology (IALE)

Sponsor of the Initial Workshop on Landscape Ecology in the United States while serving as NSF Ecology Program Director, 1983
 Representative, United States Working Group on Agroecosystems, 1987-1990
 President, United States Regional Association of IALE, 1988-1990
 Co-Chair (with John L. Vankat), Fifth Annual United States Regional Association of IALE

Meeting, Miami University, Oxford, Ohio, 21-24 March 1990
 Co-Program Chair and Co-Host (with Terry L. Barrett), Twenty-fifth Anniversary Symposium of
 United States Regional Association of IALE, University of Georgia, Athens, Georgia, 5-9
 April 2010

National Science Foundation (NSF)

Panel Member, Program for Long-Term Ecological Research (LTER), 1980-1981
 Site Reviewer, Experimental Program to Stimulate Competitive Research (EPSCOR), North
 Dakota, 1980; Nevada, 1986-1989
 Director, Ecology Program, 1981-1983
 Administered the Applied Science component within the Division of Biotic Systems and
 Resources (BSR), 1981-1983
 Resolution from the State Senate of Ohio in recognition of appointment as NSF Ecology
 Program Director, 1981
 Certificate for successful completion of Workshop for NSF Program Managers, conducted by
 Harbridge House, Boston, Massachusetts, 1981
 Certificate of Training on Labor Relations for NSF Supervisors and Managers, conducted by the
 United States Office of Personnel Management, 1982
 Assisted in the development of the Research Postdoctoral Fellowship Program in BSR, 1983
 Panel Member, Academic Research Facilities Modernization Panel, 1990

National Research Council (NRC)

Selected by the NRC, National Academy of Sciences, to participate in an Ecosystem Risk
 Assessment and Monitoring Workshop, Airlie, Virginia, 1989
 Committee on the Use of Treated Municipal Wastewater Effluents and Sludge in the Production
 of Crops for Human Consumption, NRC, Water Science and Technology Board, 1993-1996
 Steering Committee on Professional Societies and Ecologically-Based Pest Management, NCR,
 Board of Agriculture, 1998-2000

Ohio Academy of Science (OAS)

Chair, Ecology Committee, 1975-1977
 Vice President, Ecology Section, 1977-1978
 Elected Fellow of the Academy, 1977

Sigma Xi

Elected Member, University of Georgia, 1967
 Founding Charter Member, Miami University Chapter, 1972
 Researcher-of-the-Year, Miami University Chapter, 1986
 Vice President, Miami University Chapter, 1986-1987
 President, Miami University Chapter, 1987-1988

Consulting

Dames and Moore, Chicago, Illinois, 1974
 Green Bay Ecosystem Management, Green Bay, Wisconsin, 1985
 Wetlands Research, Incorporated, Chicago, Illinois, 1985-1988
 American Cyanamid Company, Princeton, New Jersey, 1986-1988

Invited Academic External Reviews

Department of Environmental Sciences, University of Virginia, Charlottesville, Virginia, 1985;
 1989
 Department of Biology, Rutgers University at Camden, Camden, New Jersey, 1987
 Masters Degree Program in Sustainable Systems, Slippery Rock University, Slippery Rock,
 Pennsylvania, 1990
 Doctoral Degree Program in Ecological Sciences, Department of Biological Sciences, Old
 Dominion University, Norfolk, Virginia, 1997
 Doctoral Degree Program for the Ohio Board of Regents, Department of Biological Sciences,
 University of Cincinnati, Cincinnati, Ohio, 2000
 Review of the Research, Educational, and Service Program of The Land Institute, Salina,
 Kansas, 2001
 Natural Systems Agriculture Advisory Committee, The Land Institute, Salina, Kansas, 2002

Manuscript Reviews for Journals such as:

Ecology, Ecological Applications, Ecological Monographs, Science, BioScience, Journal of
 Wildlife Management, American Midland Naturalist, Journal of Environmental Quality,
 Landscape Ecology, Condor, Journal of Mammalogy, Environmental Conservation,
 Journal of Sustainable Agriculture, Oecologia, Prairie Naturalist, Biological
 Conservation, and Southeastern Naturalist

Program Development

Founder of the Institute of Environmental Sciences (IES), Miami University, 1969
 Founder of the Ecology Research Center (ERC), Miami University, 1969
 Directed the acquisition and development of the Brookville Ecological Research Center (BERC)
 located on the Brookville Reservoir in southeastern Indiana and administered jointly with
 Earlham College, Richmond, Indiana, 1969-1979
 Prime mover in the acquisition of the Nike Launcher Site, (became the Environmental Science
 Center) as an educational and research center for the IES, Miami University, 1970
 Helped write, develop, and administer the Masters Degree Program in Environmental Science at
 Miami University, 1970
 Helped in the curricular development of the Interdisciplinary Studies Program at the Western
 College of Miami University, 1970
 Prime mover in the Undergraduate Area of Concentration in Environmental Education at
 Miami University, 1976-1977
 Helped develop and administer the Peffer-Western Environmental Education Program (PWEPP)

- at Miami University, 1976-1977
- Prime mover in the establishment of several IES internship agreements with national organizations (e.g., Battelle-Columbus Laboratories and Oak Ridge National Laboratory), 1973-1981
- Led in the establishment of a Section of Ecology in the Ohio Academy of Science, 1977
- Helped establish a permanent standing committee on Education and Graduate Students in the American Society of Mammalogists, 1978
- Helped establish the Education Committee as a permanent standing committee in the Ecological Society of America, 1978
- Established the Nominating and Awards Committee as permanent standing committees in the US-IALE, 1989
- Administered the acquisition of the McGarity Wetlands Preserve as a educational site for the University of Georgia, 1996
- Administered the development of the HorseShoe Bend (HSB) Experimental Center, University of Georgia, 1995-
- Helped administer the development and approval of a new B.S. Degree in Ecology, 1995; and a new M.S. Degree in Ecology, Institute of Ecology, 1996
- Administered over \$1,000,000 in renovation and construction of facilities, Institute of Ecology, 1994-1997
- Chair, Facilities Committee, Odum School of Ecology, prime mover in the development of HorseShoe Bend Ecology Experimental Site and Martha H. and Eugene P. Odum Spring Hollow Watershed as research, service and educational facilities, University of Georgia, 1997-2012
- Chair, Odum School of Ecology, *Eugene P. Odum Lecture Series*, responsible for inviting speakers, and organizing the annual Eugene P. Odum Lecture, 2009-2012

Graduate Students

- 1970 – Carol Bulan, M.S.
- 1972 – Lucinda Vogtsberger, M.S.
- 1973 – Cheryl Suttman, M.En.
- 1974 – Diana Adams, M.S.
Ann Crowner, M.En.
Claire Puchy, M.En.
- 1975 – James Rowley, M.En.
- 1976 – Brad Gottfried, Ph.D.
Richard Mills, M.S.
Karen Stueck, M.S.
Gail Wakefield, M.En.
- 1977 – Karen Dooley, M.En.
Nancy Dunkle, M.En.
Robert Noyes, M.S.
Steve Spencer, M.En.
- 1978 – Mark Knight, M.En.
- 1979 – Theodore Boggs, M.En.
Anthony Sasson, M.En.

- John Sedlacek, M.En.
 Warren Taylor, M.Ed.
 1980 – Thomas Anderson, Ph.D.
 Tricia Gregory, M.En.
 Sydna Herren, M.En.
 William Rusin, M.En.
 1981 – Scott Springer, M.En.
 1982 – Barbara Knuth, M.En.
 Mark Maly, M.S.
 William Peterjohn, M.En.
 1983 – Janice Kemp, Ph.D.
 1985 – Elyne Minkin, M.S.
 1986 – Gregory Lorenz, M.S.
 1988 – Christina Haviland, M.S.
 1989 – Patrick Bohlen, M.S.
 1990 – Steven Harper, M.S.
 1991 – Vincent LaPolla, M.S.
 1992 – Christopher Brueske, M.En.
 Brett Dietz, M.En.
 Brain Okey, M.S.
 1993 – Susan R. Brewer, M.S.
 1995 – Rachel Collins, M.S.
 John Peles, Ph.D.
 1997 – David R. Bowne, M.S.
 2001 – Karen E. Mabry, M.S.
 2002 – Cory C. Christopher, M.S.
 Laura E. Skelton, M.S.
 2006 – Chrissa Carlson, M.S.
 2010 – Nathan Pratt, M.S.

Postdoctoral Scholars

Nicholas Rodenhouse, 1986-1988; Ph.D., Dartmouth College
 Eric Bollinger, 1988-1990; Ph.D., Cornell University
 Daniel Pavuk, 1990-1992; Ph.D., Ohio State University
 John Peles, 1995-1997; Ph.D., Miami University

Invited Seminars at Other Universities and Organizations

Xavier University, 1970
 Butler University, 1970; 1979
 Denison University, 1971; 1978
 Washington University, 1971
 University of Toledo, 1971; 1974
 Western Michigan University, 1972
 Youngstown State University, 1972

Wright State University, 1972; 1974
 Central State University, 1973
 Indiana State University, 1973
 Bowling Green State University, 1974
 State University of New York, Purchase, 1974
 Colorado State University, 1975
 University of Akron, 1976
 Ohio State University, 1976
 University of Wisconsin, Green Bay, 1976
 University of Georgia, 1977; 1988; 1993
 Wittenburg University, 1978; 2002
 University of Louisville, 1978
 University of Cincinnati, 1978
 Ohio Wesleyan University, 1979
 Illinois State University, 1979
 University of Tennessee, 1979
 Indiana University, 1980
 Rutgers University, 1981
 University of Maryland, 1982
 Field Museum on Natural History, Chicago, Illinois, 1982
 George Mason University, 1983
 Northern Kentucky University, 1983
 University of Virginia, 1983
 Ball State University, 1984
 American Academy of Arts and Sciences, 1986
 Duke University, 1987
 Harvard University, 1988
 Slippery Rock University, 1990
 New York Botanical Garden, Institute of Ecosystem Studies, 1991
 Joseph W. Jones Ecological Research Center, Ichauway, Georgia, 1994
 University of Rostock, Rostock, Germany, 1997
 The Land Institute, Salina, Kansas, 1999; 2001
 University of Minnesota, 2001
 Appalachian Laboratory, University of Maryland Center for Environmental Science, 2002
 Oglethorpe University, 2003
 Savannah River Ecology Laboratory, *Eugene P. Odum Lecture Series*, 2005
 Hendrix College, Arkansas Academy of Science, Keynote Speaker, 2005
 Southern Illinois University, 2005
 Miami University, *Roger E. Wilson Lecture Series*, 2007
 University of Georgia, Odum School of Ecology, 2008
 University of Cincinnati, 2008

Papers Presented at National and International Meetings

1. "Pesticide Stress Effects on Experimental Ecosystems," Eighteenth Annual Symposium on Systematics, 16 October 1971, Missouri Botanical Gardens, St. Louis, Missouri

2. "Effects of Fire on the Small Mammal Component of an Experimental Grassland Ecosystem," ASM Annual Meeting, 18-22 June 1972, University of South Florida, Tampa, Florida
3. "Effects on Diethylstilbestrol upon Feral House Mouse Population Dynamics under Experimental Field Conditions," ASM Annual Meeting, 13-18 June 1973, Pacific Grove, California
4. "The Tropic Dynamic Aspects of Equitability as an Indicator of Ecosystem Stress Effects," First International Congress of Systematic and Evolutionary Biology, 4-12 August 1973, University of Colorado, Boulder, Colorado
5. "Terrestrial Sampling for Nuclear Power Plant Impact Analysis," Annual National Meeting of Dames & Moore, 14-15 March 1974, Chicago, Illinois
6. "Model Ecosystems for Toxic Substance Screening," Meeting of the United States Environmental Protection Agency, 29-30 May 1974, Southeast Environmental Research Laboratory, Athens, Georgia
7. "Pesticide Stress Effects on Meadow Vole (*Microtus pennsylvanicus*) and House Mouse (*Mus musculus*) Populations during Ecosystem Development," ASM Annual Meeting. 1-4 June 1974, State University of New York, Binghamton, New York
8. "Environmental Science: The Interdisciplinary Science of the Future," Annual School Science and Mathematics Association Meeting, 7-9 November 1974, Cincinnati, Ohio
9. "Environmental Science: The Future is Now," National Science Teachers Association Conference, 2 October 1975, Indianapolis, Indiana
10. "Dual Training: The Academic Key to Careers in Energy Resource Management," Energy Research and Development Administration-Denver Research Institute Workshop on Multidisciplinary Research, 28-30 April 1976, Keystone, Colorado
11. "Effects of Food Location upon the Carrying Capacity of Feral House Mice (*Mus musculus*) Populations under Semi-Natural Habitat Conditions," (with Karen L. Steuck), AIBS Annual Meeting, 30 May-4 June 1976, Tulane University, New Orleans, Louisiana
12. "Effects of Energy (Food) Location on the Population Dynamics of the Feral House Mouse (*Mus musculus*) under Experimental Field Conditions," ASM Annual Meeting, 21-24 June 1976, Texas Tech University, Lubbock, Texas
13. "Effects of Positive and Negative Nitrogen Perturbations on an Old-Field Ecosystem," (with N. Gail Wakefield), AAAS Annual Meeting, 20-25 February 1977, Denver, Colorado
14. "A behavioral Study of the Dispersal of Feral House Mice in Response to Centralized and Decentralized Food Stations in a Semi-Natural Enclosed Environment," (with David J. Buerger), ASM Annual Meeting, 19-23 June 1977, Michigan State University, East Lansing, Michigan
15. "Effects of an Acute Herbicide Stress on the Small Mammal Component of an Experimental Grassland Ecosystem" (with Stephen R. Spencer), ASM Annual Meeting, 19-23 June 1977, Michigan State University, East Lansing, Michigan
16. "Energy Education: A Problem-Solving Approach," Environmental Education Consultation Conference, 11-13 December 1977, University of Colorado, Boulder, Colorado
17. "Stress Effects on Natural Ecosystems," Chair of Symposium, 4-5 February 1977, Battelle Auditorium, Columbus, Ohio
18. "Herbicide (2, 4-D) Stress Effects on an Experimental Grassland Ecosystem," AAAS Annual Meeting, 12-17 February 1978, Washington, D. C.

19. "Impact of Dam Building," Keynote Address, Energy Resources Workshop, United States Department of Energy, Education Program Division, 28 June 1978, University of Louisville, Louisville, Kentucky
20. "Stress Ecology," Chair of Symposium, Second International Congress of Ecology, 10-16 September 1978, Jerusalem, Israel
21. "Training and Personnel Trends in Ecology and Environmental Science," Chair of Symposium, 20-21 October 1978, Battelle Auditorium, Columbus, Ohio
22. "Effects of Positive and Negative Phosphorus Perturbation on an Old-Field Ecosystem," (with Mark J. Knight), AAAS Annual Meeting, 3-8 January 1979, Houston, Texas
23. "Career Trends in Mammalogy," Chair of Special Workshop, including giving two papers entitled "Educational and Employment Trends in Mammalogy," and "Educational Strategies for Training Mammalogists," ASM Annual Meeting, 17-21 June 1979, Oregon State University, Corvallis, Oregon
24. "Effects on Municipal Sludge and Fertilizer on the Arthropod Component of Two Experimental Grassland Communities," Poster Session, AAAS Annual Meeting, 3-8 January 1980, San Francisco, California
25. "Effects on Land Application of Sewage Sludge on Meadow Vole Population Dynamics," (with Thomas J. Anderson), Poster Session, ASM Annual Meeting, 8-12 June 1980, University of Rhode Island, Kingston, Rhode Island
26. "Career and Educational Opportunities in Ecology," Chair for Plenary Session of Symposium, ESA Annual Meeting, 3-7 August 1980, Tucson, Arizona
27. "Applied Ecology: The Transition Paradigm for the 1980s," National Conference on Meeting Environmental Workforce Needs, 23-25 February 1981, Washington, D.C.
28. "Social Structure of Feral House Mouse (*Mus musculus*) Populations: Effects of Resource Partitioning," (with Douglas H. Taylor and Robert F. Noyes), ASM Annual Meeting, 7-11 June 1981, Miami University, Oxford, Ohio
29. "Effects of Two Types of Nutrient Enrichment on Meadow Vole Populations from Contrasting Old-Field Communities," (with Mark S. Maly), Poster Session, ASM Annual Meeting, 7-11 June 1981, Miami University, Oxford, Ohio
30. "Effects of Milorganite on Two Grassland Ecosystems," EPA State-of-the-Art Seminar, 20-22 July 1981, College of St. Scholastica, Duluth, Minnesota
31. "Effects of Sewage Sludge and Fertilizer on the Producer Tropic Level of Contrasting Old-Field Communities," (with Walter P. Carson), ESA Annual Meeting, 16-20 August 1981, Indiana University, Bloomington, Indiana
32. "An Approach to Integrative research at Mount St. Helens," Cispus Environmental Center, 1-4 September 1981, Randle, Washington
33. "Demography of *Microtus pennsylvanicus* from Fertilized and Sludge-amended Old-Field Communities," (with Mark S. Maly), Poster Session, AAAS Annual Meeting, 3-8 January 1982, Washington, D. C.
34. "Dispersal Behavior of Feral House Mouse in Response to Centralized and Decentralized Food Stations in Semi-natural Enclosures," (with Barbara A. Knuth), Poster Session, AAAS Annual Meeting, 3-8 January 1982, Washington, D. C.
35. "A Comparative Study of Physiological Niche Partitioning Between *Ochrotomys nuttalli* and *Peromyscus leucopus*," (with Barbara A. Knuth), ASM Annual Meeting, 20-24 June 1982, Brigham Young University, Snowbird, Utah

36. "Food Chain Uptake of Cadmium by Meadow Voles from Sewage Sludge-amended Old-Fields," (with Mark S. Maly), ASM Annual Meeting, 20-24 June 1982, Brigham Young University, Snowbird, Utah
37. "Grant Opportunities in Ornithology," Panel Participant at American Ornithologists' Union Annual Meeting, 11-14 October 1982, The Field Museum of Natural History, Chicago, Illinois
38. "Preparing and Reviewing Grant Proposals in Mammalogy," Chair of Workshop, ASM Annual Meeting, 19 June 1983, University of Florida, Gainesville, Florida
39. "Impact of Spatial Patterning of Uncultivated Land on Crop Arthropods," (with Janice C. Kemp), ESA Annual Meeting, 8-11 August 1983, University of North Dakota, Grand Forks, North Dakota
40. "Status Report on the Ecology Program of the National Science Foundation," (with Garth W. Redfield), Poster Session, ESA Annual Meeting, 8-11 August 1983, University of North Dakota, Grand Falls, North Dakota
41. "Effects of Sevin on Small Mammal Populations in Agricultural and Old-Field Communities," Poster Session, ASM Annual Meeting, 24-28 June 1984, Humboldt State University, Arcata, California
42. "Holistic Approach to the Description and Movement of Stressed Ecosystems," Chair of Plenary Symposium, ESA Annual Meeting, 5-9 August 1984, Colorado State University, Fort Collins, Colorado
43. "Problem-Solving: An Algorithmic Approach to Ecosystem Resource Management," ESA Annual Meeting, 5-9 August 1984, Colorado State university, Fort Collins, Colorado
44. "Impact of Ecotones on Arthropod Populations in Soybean Agroecosystems," (with Deborah M. Zimmerman and Janice C. Kemp), Poster Session, ESA Annual Meeting, 17-21 June 1985, University of Minnesota, Minneapolis, Minnesota
45. "The Role of Landscape Heterogeneity in the Spread of Disturbance," Symposium Discussant, Annual Landscape Ecology Meeting, 15-17 January 1986, University of Georgia, Athens, Georgia
46. "The Importance of Corridors for Feral House Mouse (*Mus musculus*) Dispersal," (with Gregory C. Lorenz), ASM Annual Meeting, 15-19 June 1986, University of Wisconsin, Madison, Wisconsin
47. "Integrative Paradigms in Applied Ecology for the 1990s," Chair of Symposium, IV International Congress of Ecology, 10-16 August 1986, Syracuse University, Syracuse, New York
48. "Landscape Architecture in the Rural Landscape," Symposium Presentation, Annual Meeting of the American Society of Landscape Architects, 22-25 November 1986, San Francisco, California
49. "Stress Ecology," Conference on Long-Term Ecological Effects of Ionizing Radiations, 8-10 December 1986, University of Tennessee, Knoxville, Tennessee
50. "The Influence of Landscape Corridors on House Mouse, *Mus musculus*, Dispersal," (with Gregory C. Lorenz), Poster Session, AAAS Annual Meeting, 14-19 February 1987, Chicago, Illinois
51. "Spatial Patterning: Impact of Uncultivated Areas within Soybean Agroecosystems," Annual Landscape Ecology Meeting, 9-11 March 1987, University of Virginia, Charlottesville, Virginia

52. "Animal Welfare," Chair of Symposium, ASM Annual Meeting, 21-25 June 1987, University of New Mexico, Albuquerque, New Mexico
53. "The Influence of Corridors on Small Mammal Dispersal," International Symposium on Latin American Mammalogy, 28-30 June 1987, Cancun, Quintana Roo, Mexico
54. "Effects of Nine Years of Nutrient Enrichment on Old-Field Succession," (with Walter P. Carson and Connie McBride), Poster Session, ESA Annual Meeting, 9-14 August 1987, Ohio State University, Columbus, Ohio
55. "Applied Ecology: An Integrative Paradigm for the 1990s," Annual Meeting of the National Association of Biology Teachers, 15-17 October 1987, Cincinnati, Ohio
56. "Applied Ecology: An Integrative Paradigm," Annual State-of-the-Art-in-Biology (SOTAB) Meeting, 22-23 January 1988, University of Georgia, Athens, Georgia
57. "Landscape Corridors: Structure and Function," Chair of Symposium (with Joan Nassauer), AAAS Annual Meeting, 11-15 February 1988, Boston, Massachusetts
58. "The Influence of Landscape Corridors on Animal Dispersal Behavior," AAAS Annual Meeting, 11-15 February 1988, Boston, Massachusetts
59. "The Role of Applied Ecology in Undergraduate Education," AIBS Annual Meeting, 14-19 August 1988, University of California, Davis, California
60. "Effects of Ten Years of Contrasting Types of Nutrient Enrichment on Old-Field Succession," ESA Annual Meeting, 14-19 August 1988, University of California, Davis, California
61. "Role of Sustainable Agriculture in Rural Landscapes," International Conference on Sustainable Agriculture (with Nicholas Rodenhouse and Patrick Bohlen), 19-23 September 1988, Ohio State University, Columbus, Ohio
62. "Long-Term Effects of Nutrient Enrichment on Secondary Succession," AAAS Annual Meeting, 14-19 January 1989, San Francisco, California
63. "Ecosystem Risk Assessment and Monitoring," Invited Workshop Participant sponsored by the National Academy of Sciences, 2-3 March 1989, Airlie, Virginia
64. "Bioenergetics of the Golden Mouse, *Ochotomys nuttalli*, on Experimental Sumac Seed Diets," (with Melissa A. Jewell and Molly K. Anderson), Poster Session, ASM Annual Meeting, 11-13 June 1989, University of Alaska, Fairbanks, Alaska
65. "Effects of Drought on Old-Field Plant Communities," (with Eric K. Bollinger and Steven J. Harper), ESA Annual Meeting, 6-10 August 1989, University of Toronto, Toronto, Canada
66. "Landscape Ecology: A Wildlife Management Perspective," Defenders of Wildlife Annual Meeting, North American Wildlife and Natural Resources Conference, 17 March 1990, Denver, Colorado
67. "Effects of Patch Shape on Dispersal and Population Dynamics of Meadow Voles (*Microtus pennsylvanicus*)," (with Steven J. Harper and Eric K. Bollinger), United States International Association of Landscape Ecology Annual Meeting, 21-24 March 1990, Miami University, Oxford, Ohio
68. "Avoidance of Inbreeding in the Meadow Vole (*Microtus pennsylvanicus*)," (with Eric K. Bollinger, Steven J. Harper, and J. Michael Kramer), Annual Midwest Ecology and Evolution Conference, 20-22 April 1990, Miami University, Oxford, Ohio
69. "Population Dynamics of the Meadow Vole, *Microtus pennsylvanicus*: Effects of Patch Shape," (with Steven J. Harper and Eric K. Bollinger), ASM Annual Meeting, 9-13 June 1990, Frostburg State University, Frostburg, Maryland

70. "Inbreeding Avoidance in the Meadow Vole (*Microtus pennsylvanicus*)," (with Eric K. Bollinger, Steven J. Harper, and J. Michael Kramer), Poster Session, ASM Annual Meeting, 9-13 June 1990, Frostburg State University, Frostburg, Maryland
71. "Mechanisms of Ecosystem Recovery Following Eleven Years of Nutrient Enrichment," (with Mary Benninger-Truax), Poster Session, ESA Annual Meeting, 29 July-2 August 1990, Snowbird, Utah
72. "Long-Term Effects of Nutrient Enrichment on the Trajectory of Secondary Succession," (with Michael J. Vanni), V International Congress of Ecology, 23-30 August 1990, Yokohama, Japan
73. "Inbreeding Avoidance and Dispersal in the Meadow Vole," (with Eric K. Bollinger and Steven J. Harper), ASM Annual Meeting, 15-19 June 1991, Kansas State University, Manhattan, Kansas
74. "Effects of Corridors and Corridor Width on Meadow Vole (*Microtus pennsylvanicus*) Dispersal," (with Vincent N. LaPolla), International Association for Landscape Ecology (IALE) World Congress, 21-25 July 1991, Carleton University, Ottawa, Ontario, Canada
75. "Landscape Ecology: Designing Sustainable Agricultural Landscapes," EPA sponsored Symposium entitled "Ecological Foundations for Sustainable Agriculture," 22-24 July 1991, Arlington, Virginia
76. "Mechanisms of Plant Community Recovery Following Long-Term Nutrient Enrichment in Old-Field Communities," (with Mary Benninger-Truax), ESA Annual Meeting, 4-8 August 1991, San Antonio Convention Center, San Antonio, Texas
77. "Inbreeding Avoidance and Dispersal in the Meadow Vole, *Microtus pennsylvanicus*," (with Eric K. Bollinger and Steven J. Harper), ESA Annual Meeting, 4-8 August 1991, San Antonio Convention Center, San Antonio, Texas
78. "Agrolandscape Ecology: An Emerging Paradigm," American Chemical Society Annual Meeting, Division of Environmental Chemistry, 9 April 1992, San Francisco, California
79. "Densities of the Green Cloverworm (*Plathypena scabra*) and Predaceous Arthropods in Simulated Intercropped Soybean Agrolandscapes," (with Daniel M. Pavuk), United States International Association of Landscape Ecology (IALE) Annual Meeting, 10 April 1992, Oregon State University, Corvallis, Oregon
80. "Inheritance of Albinism in the Meadow Vole (*Microtus pennsylvanicus*)," (with John A. Mugnano, Susan R. Brewer, and John D. Peles), ASM Annual Meeting, 14-18 June 1992, University of Utah, Salt Lake City, Utah
81. "Ability of *Microtus pennsylvanicus* to Produce Tannin-Binding Salivary Proteins in Response to Condensed Tannin-Binding Diets," (with Brett A. Dietz and Ann E. Hagerman), ASM Annual Meeting, 14-18 June 1992, University of Utah, Salt Lake City, Utah
82. "Relationships of Long-Term Nutrient Enrichment to Short-Term Disturbance in Experimental Old-Field Ecosystems," (with Mary Benninger-Truax), ESA Annual Meeting, 9-13 August 1992, Honolulu, Hawaii
83. "Effects of Hydrologic Loading Rate and Vegetation Composition on Sediment Deposition Rates in Experimental Freshwater Wetland Ecosystems," (with Christopher C. Brueske), INTECOL IV International Wetlands Conference, 13-18 September 1992, Ohio State University, Columbus, Ohio
84. "Experimental Landscape Corridors: Barriers to or Conduits for Small Mammal and Arthropod Dispersal," (with John D. Peles, Michael F. Lucas, and Susan R. Brewer),

- United States International Association of Landscape Ecology Annual Meeting, 24-27 March 1993, Oak Ridge National Laboratory, Oak Ridge, Tennessee
85. "Population Dynamics of Agouti and Albino *Microtus pennsylvanicus* Under Semi-Natural Field Conditions," (with John D. Peles and Michael F. Lucas), ASM Annual Meeting, 19-23 June 1993, Western Washington University, Bellingham, Washington
 86. "A Hierarchical Approach to Resource Management," EPA Workshop entitled "Contributions of Basic Mammalogy to Mammalian Ecotoxicology," 24 June 1993, United States EPA Environmental Research Laboratory, Corvallis, Oregon
 87. "Effects of Vegetative Cover on Population Dynamics and Dispersal Behavior in *Microtus pennsylvanicus*," (with John D. Peles), ESA Annual Meeting, 31 July-4 August 1993, University of Wisconsin, Madison, Wisconsin
 88. "Abundance and Parasitism of Green Cloverworm (*Plathypena scabra*) Larvae in Strip Intercropped Soybean Agroecosystems," (with Daniel Pavuk), Entomological Society of America Annual Meeting, 12-16 December 1993, Indiana Convention Center, Indianapolis, Indiana
 89. "Effects of Habitat Quality on Meadow Vole, *Microtus pennsylvanicus*, Population Dynamics," (with John D. Peles), ASM Annual Meeting, 18-23 June 1994, Smithsonian Institution, Washington, D. C.
 90. "Biological and Chemical Mechanisms of Ecosystem Recovery Following Long-Term Nutrient Enrichment: A Case Study in Restoration Ecology," (with Susan R. Brewer and Mary Benninger-Truax), ESA Annual Meeting, 7-11 August 1994, Knoxville, Tennessee
 91. "Cultural and Ecological Influences on the Functioning of Forests in Agricultural Wetlands," (with Kimberly E. Medley, Michael F. Lucas, Brian W. Okey, and Christine M. Butalla), ESA Annual Meeting, 7-11 August 1994, Knoxville, Tennessee
 92. "Gender and Age Specific Consequences of Fine-Grained Habitat Fragmentation on Meadow Vole (*Microtus pennsylvanicus*) Population Dynamics," (with Rachel J. Collins), Tenth Annual Landscape Ecology Symposium, United States International Association of Landscape Ecology, 22-26 April 1995, University of Minnesota, Minneapolis, Minnesota
 93. "The Use of Experimental Landscapes in Mammalian Ecology," (with John D. Peles), Eleventh Annual Landscape Ecology Symposium, 26-30 March 1996, Galveston Island, Galveston, Texas
 94. "Effects of Landscape Spatial Structure on Movement Patterns of *Sigmodon hispidus*," (with John D. Peles and David R. Bowne), ASM Annual Meeting, 15-19 June 1996, University of North Dakota, Grand Forks, North Dakota
 95. "The Impact of Uncultivated Corridors on Arthropod Populations within Simulated Agrolandscapes," XX International Congress of Entomology, 25-31 August 1996, Florence, Italy
 96. "Movement Patterns of *Sigmodon hispidus* in a Heterogeneous Landscape," (with David R. Bowne and John D. Peles), Twelfth Annual Landscape Ecology Symposium, United States International Association of Landscape Ecology, 16-19 March 1997, Duke University, Durham, North Carolina
 97. "Opportunities for Enhancing Ecological Literacy in Environmental and Natural Science Courses," Strategies for Ecology Education Development and Sustainability (SEEDS) Faculty Development Workshop, sponsored by a grant from the Andrew W. Mellon Foundation, 19-20 September 1997, Tuskegee University, Tuskegee, Alabama

98. "Microhabitat Selection by *Sigmodon hispidus* in an Experimental Landscape," (with David R. Bowne and John D. Peles), ASM Annual Meeting, 6-10 June 1998, Virginia Tech University, Blacksburg, Virginia
99. "The Twenty-First Century: The World at Carrying Capacity," VII International Congress of Ecology, 19-25 July 1998, Florence, Italy
100. "Managing Human-Impacted Systems," Chair of Plenary Session, AIBS Annual Meeting, 2-6 August 1998, Baltimore, Maryland
101. "Population Dynamics of *Peromyscus gossypinus* in an Experimental Landscape," (with Erin A. Dreelin and John D. Peles), ASM Annual Meeting, 20-24 June 1999, University of Washington, Seattle, Washington
102. "Agrolandscape Ecology: An Integrative Perspective," Natural Systems Agricultural Workshop, 17 July 1999, The Land Institute, Salina, Kansas
103. "Utilizing Model Systems (UMS) to Investigate Transverse Processes Across Levels of Organization," Special Symposium, Fifth World Congress of the International Association for Landscape Ecology, 29 July-3 August 1999, Snowmass Village, Colorado
104. "A Transdisciplinary Approach Towards the Sustainability of Regional Landscapes," (with Terry L. Barrett), Fifth World Congress of the International Association for Landscape Ecology, 29 July-3 August 1999, Snowmass Village, Colorado
105. "Effects of Invasive Exotic Vegetation on Bottomland Forest Dynamics," (with Nathan H. Nazdrowicz), AIBS Annual Meeting, 22-25 March 2000, Smithsonian Institution, Washington, D. C.
106. "Regional Influences of Utopian Artificial and Remnant Natural Landscape Patch Linkages," (with Terry L. Barrett), Fifteenth Annual Symposium, United States International Association for Landscape Ecology, 15-19 April 2000, Fort Lauderdale, Florida
107. "Movements of the Cotton Mouse (*Peromyscus gossypinus*) Through an Experimentally Fragmented Landscape," (with Karen Mabry), ASM Annual Meeting, 17-21 June 2000, University of New Hampshire, Durham, New Hampshire
108. "Movement Patterns of *Sigmodon hispidus* in an Experimental Landscape," (with Erin A. Dreelin), ASM Annual Meeting, 17-21 June 2000, University of New Hampshire, Durham, New Hampshire
109. "Landscape Ecology of Small Mammals: The Integration of Human-Dominated and Natural Systems," ASM Annual Meeting, 17-21 June 2000, University of New Hampshire, Durham, New Hampshire
110. "An Integrative Approach to Agriculture: From Agroecosystem to Agrolandscape Ecology," Feature Speaker for Symposium entitled Landscape, Human, and Animal Health Initiative, 8-9 March 2001, University of Minnesota, Minneapolis, Minnesota
111. "Landscape Ecology in the Twenty-First century: From Youth to Maturity," (with Terry L. Barrett), Invited Presentation at Sixteenth Annual Meeting, United States International Association for Landscape Ecology, 25-29 April 2001, Arizona State University, Tempe, Arizona
112. "Home Range Sizes of Two Small Mammal Species in a Bottomland Forest Peninsula," (with Alison L. Pruett and Cory C. Christopher), ASM Annual Meeting, 16-20 June 2001, University of Montana, Missoula, Montana

113. "Coexistence of *Ochrotomys nuttalli* and *Peromyscus leucopus* in a Southeastern Forested Peninsula," (with Cory C. Christopher), ASM Annual Meeting, 16-20 June 2001, University of Montana, Missoula, Montana
114. "Influence of Landscape Characteristics on Population densities of Three Small Mammal Species," (with Karen E. Mabry and Erin A. Dreelin), ASM Annual Meeting, 16-20 June 2001, University of Montana, Missoula, Montana
115. "Agrolandscape Ecology: Ten Challenges for the Twenty-First Century," Natural Systems Agriculture Summer Workshop, 22-28 July 2001, The Land Institute, Salina, Kansas
116. "A Comparison of Conventional and Alternative Cropping Systems Using Alfalfa (*Medicago sativa*) and Winter Wheat (*Triticum aestivum*)," (with Laura E. Skelton), Annual Meeting of the Georgia Academy of Science, 22-23 March 2002, Georgia College and State University, Milledgeville, Georgia
117. "Mechanisms of Coexistence between Similar Small Mammal Species," (with Cory C. Christopher), Annual Meeting of the Georgia Academy of Science, 22-23 March 2002, Georgia College and State University, Milledgeville, Georgia
118. "Earth Day: Past, Present, and Future," Invited Seminar Presentation, 22 April 2002, Biology Department, Wittenberg University, Springfield, Ohio
119. "Aesthetics as a Transcending Process Underpinning the Integration of Cultural and Natural Systems," (with Terry L. Barrett), Seventeenth Annual Symposium of the United States International Association for Landscape Ecology, 23-27 April 2002, University of Nebraska, Lincoln, Nebraska
120. "Interactions between the Golden Mouse (*Ochrotomys nuttalli*) and the White-Footed Mouse (*Peromyscus leucopus*): A Removal Experiment," (with Cory C. Christopher), ASM Annual Meeting, 15-19 June 2002, McNeese State University, Lake Charles, Louisiana
121. "Integrative Science: Gateway Towards Restoration Based on the Five Es (Ecology, Economics, Energetics, Ethics, and Education)," ESA Annual Meeting, 4-9 August 2002, University of Arizona, Tucson, Arizona
122. "A Comparison of Conventional and Alternative Agroecosystems Using Alfalfa and Winter Wheat," (with Laura E. Skelton), Ecological Society of America Annual Meeting, 4-9 August 2002, University of Arizona, Tucson, Arizona
123. "Comparison of the Bioenergetics of the White-Footed Mouse, *Peromyscus leucopus* and the Golden Mouse, *Ochrotomys nuttalli*," (with Maura O'Malley, Jennifer Blesh, and Michelle Williams), Georgia Academy of Science Annual Meeting, 21-22 March 2003, Reinhardt College, Waleska, Georgia
124. "Landscape Aesthetics: An Emergent Component in Managing Natural Capital," (with Terry L. Barrett), International Association of Landscape Ecology World Congress, 13-17 July 2003, Darwin, Australia
125. "Professional Certification and the Workplace," (with Kevin Erwin and Jeffrey Klopatek), ESA Annual Meeting, 3-8 August 2003, Savannah, Georgia
126. "Ethics and Ecologists," (with Kevin Erwin and Jeffrey Klopatek), ESA Annual Meeting, 1-6 August 2004, Portland, Oregon
127. "Challenges of Integrative Science," Southeastern Ecology and Evolution Conference, 11-13 March 2005, University of Georgia, Athens, Georgia
128. "Integrative Science: Challenges and Opportunities," Keynote speaker, Annual Meeting of the Arkansas Academy of Science, 8-9 April 2005, Hendrix College, Conway, Arkansas.
129. "Nesting Behavior of the Golden Mouse, *Ochrotomys nuttalli*," (with Thomas M. Luhring),

- ASM Annual Meeting, 15-19 June 2005, Southwest Missouri State University, Springfield, Missouri
130. "Effects of Botfly Parasitism (Cuterebridae) on Two Small Mammal Species, *Peromyscus leucopus* and *Ochrotomys nuttalli*," (with Chad Jennison and Luis Rodas), ASM Annual Meeting, 15-19 June 2005, Southwest Missouri State University
 131. "Quick Response to Natural Disasters," (with Diane Wickland), ESA Annual Meeting, 7-12 August 2005, Montreal, Canada
 132. "The Relationship Between Breeding Bird Diversity in Urban Forest Patches and Human-mediated Resources Located in the Surrounding Residential Matrix," (with Chrissa E. Carlson and Mary Cadenasso), Twenty-first Annual Symposium of the United States Regional Chapter of the International Association for Landscape Ecology, 28 March –1 April 2006, San Diego, California
 133. "Resource Partitioning and Sociality of *Peromyscus leucopus* and *Ochrotomys nuttalli*," (with Laura A. Gibbes, Luis R. Rodas, and Daniel A. Crawford), Ninety-first Annual Meeting of the Ecological Society of America, 6-11 August 2006, Memphis, Tennessee
 134. "The Relationship Between Breeding Bird Diversity in Urban Forest Patches and the Surrounding Residential Matrix," (with Chrissa E. Carlson and Mary Cadenasso), Ninety-first Annual Meeting of the Ecological Society of America, 6-11 August 2006, Memphis, Tennessee
 135. "USIALE: The First Twenty-five Years of Landscape Ecology in North America (1983-2008)," (with Terry L. Barrett), International Association of Landscape Ecology World Congress, 8-12 July 2007, Wageningen, The Netherlands
 136. "Aesthetic Landscapes of a Golden Mouse: The Undifferentiated Background," (with Terry L. Barrett), Twenty-third Annual Symposium of the United States Regional Association of the International Association for Landscape Ecology, 6-10 April 2008, Madison, Wisconsin
 137. "Integrative Science: Twelve Integrative Challenges and Approaches During the Twenty-first Century," 22 April 2008, Odum School of Ecology, Athens, Georgia
 138. "Facilitative Mutualism or Competition Between *Ochrotomys nuttalli* and *Peromyscus leucopus*?" (with Laura A. Gibbes and Terry L. Barrett), American Society of Mammalogists Annual Meeting, 21-25 June 2008, South Dakota State University, Brookings, South Dakota
 139. "Integrative Science: A 5-year B.S. Degree as a Vital Component," 6 October 2008, Department of Biological Science, University of Cincinnati, Cincinnati, Ohio
 140. "Artificial Nest Cavities Designed for Use of Small Mammals," (with Lara L. Catall, Daniel A. Crawford, and Terry L. Barrett), Georgia Academy of Science Annual Meeting, 3-4 April 2009, Spelman College, Atlanta, Georgia
 141. "Celebrating Twenty-five Years of USIALE in 2010," (with Terry L. Barrett) United States Regional Association of the International Association for Landscape Ecology Anniversary Symposium, 12-16 April 2009, Snowbird, Utah
 142. "Right Place, Right Time," Plenary presentation, United States Regional Association of the International Association for Landscape Ecology Twenty-fifth Anniversary Symposium, 5-9 April 2010, University of Georgia, Athens, Georgia
 143. "USIALE: Paradigm Shift in a Scientific Discipline," Past President presentation, United States Regional Association of the International Association for Landscape Ecology Twenty-fifth Anniversary Symposium, 5-9 April 2010, University of Georgia, Athens, Georgia

144. "Patterns of Reproduction in Northern and Southern Populations of *Ochrotomys nuttalli* and *Peromyscus leucopus* at the landscape scale" (with Nathan L. Pratt), United States Regional Association of the International Association for Landscape Ecology Twenty-fifth Anniversary Symposium, 5-9 April 2010, University of Georgia, Athens, Georgia
145. "Golden Mouse (*Ochrotomys nuttalli*) and White-footed Mouse (*Peromyscus leucopus*) Dietary Resource Partitioning under Experimental Field Conditions" (with Alexander D. Wright), Georgia Academy of Science Annual Meeting, 25-26 March 2011, Gainesville State University, Gainesville, Georgia
146. "Comparative Methods of Estimating Small-Mammal Population Abundance" (with Erin E. Froetschel and Terry L. Barrett), *Sigma Xi* Annual Meeting and International Conference, 10-13 November 2011, Raleigh, North Carolina

Extramural Research Support

1. NIH Predoctoral Fellowship Award, 1966-1967, \$10,900
2. NSF Grant entitled "Pesticide Stress Effects on Experimental Ecosystems," 1970-1972, \$30,400
3. NSF COSIP award, Summer 1971, \$1,000
4. Environmental Control Corporation Wastewater Treatment Grant, 1973-1975, \$1,000
5. Funds secured as Chair of Steering Committee for Environmental Manpower Symposium, 1974, \$5,400
6. NSF Student-Originated-Studies Grant (Faculty Advisor) entitled "Environmental Impact Analysis: Investigation of the Brookville Reservoir," 1975, \$9,740
7. Preble County Historical Society, Environmental Education/Community Center Planning Grant, 1975-1977, \$1,700
8. HEW Grant, United States Office of Education, entitled "Problem-Solving Community Education Workshops Focused upon an Impact Analysis of the Brookville Reservoir on Union County, Indiana," 1976-1977, \$7,805
9. HEW Grant, United States Office of Education, entitled "Energy Education Workshops for the Preble County School System," 1977-1978, \$9,445
10. University of California Lawrence Livermore Laboratory Grant for MAP3S Precipitation Chemistry Project in the Eastern United States, 1978, \$2,494
11. NSF Student-Originated-Studies Grant (Faculty Advisor) entitled "A Quantitative Comparison of Environmental Science Teaching Methodologies," 1978-1979, \$9,950
12. Subcontract (Principal Investigator) with Union Carbide Corporation, Nuclear Division, Oak Ridge National Laboratory (ORNL) to intern IES graduate students at ORNL, 1978, \$17,000
13. EPA Grant entitled "Effects of Sewage Treatment Plant Sludge on the Structure and Function of Two Grassland Ecosystems," 1978-1980, \$20,234
14. NOAA, Air Resources Laboratory Grant for MAP3S Precipitation Chemistry Project in the Eastern United States, 1978-1979, \$5,000
15. Subcontract (Principal Investigator) with ORNL to intern IES graduate students at ORNL, 1979, \$16,624
16. TVA, Internship Contract (Principal Investigator) between IES and TVA, 1980, \$1,690
17. EPA Grant entitled "Effects of Municipal Sludge (Milorganite) on the Structure and Function of Two Grassland Ecosystems," 1980-1984, \$57,257

18. Subcontract (Principal Investigator) with ORNL to intern IES graduate students at ORNL, 1980, \$33,237
19. NSF Grant entitled "Impact of Spatial Patterning on Arthropod Populations and Crop Productivity," 1980-1984, \$61,003
20. NSF Small College Research Grant (Principal Investigator) to support Dr. Janice C. Kemp, Central College, Pella, Iowa, entitled "The Impact of Ecotones on Fungal Infestation Levels of *Plathypena scabra* in Soybean Agroecosystems," 1984-1985, \$10,020
21. EarthWatch Grant (Principal Investigator) entitled "Ecological Approaches to Waste Disposal and Insect Pest Management," 1986, \$12,233
22. EPA Grant entitled "Long-Term Effects of Municipal Sludge on Ecosystem Development," 1986-1988, \$121,906
23. Ohio Eminent Scholars Program Award (Principal Author) for Endowment of a Chair in Applied Ecosystem Ecology, 1986, \$1,000,000
24. EarthWatch Grant (Principal Investigator) entitled "Ecological Approaches to Sewage Waste Disposal and Agroecosystem Ecology," 1987, \$11,789
25. American Cyanamid Company Grant (Co-Principal Investigator) entitled "Effects of COUNTER Insecticide on Experimental Agroecosystems," 1987, \$21,624
26. EPA Subcontract (Co-Principal Investigator) entitled "Effects of Climatic Change on Plant/Pest Interactions," 1987-1988, \$8,000
27. Ohio Board of Regents Research Challenge (Program Excellence) Grant (Principal Investigator) entitled "Control of Insect Pests in Lower-Input Soybean Agroecosystems," 1988, \$22,400
28. EarthWatch Grant (Principal Investigator) entitled "Ecological Approaches to Sewage Waste Disposal and Agroecosystem Ecology," 1988, \$13,200
29. NSF Grant (Principal Investigator) entitled "LTREB-Mechanisms of Ecosystem Recovery Following Ten Years of Nutrient Enrichment," 1989-1994, \$149,400
30. EPA Grant (Principal Investigator) entitled "Mechanisms of Ecosystem Recovery Following Ten Years of Sewage Waste Disposal," 1989-1992, \$242,694
31. NSF Research Experiences for Undergraduates (REU) Grant (Principal Investigator) entitled "LTREB-Mechanisms of Ecosystem Recovery Following Ten Years of Nutrient Enrichment," 1989, \$5,000
32. NSF Grant (Co-Principal Investigator) entitled "Dispersal in Microtines," 1990-1992, \$15,000
33. USDA Grant (Co-Principal Investigator) entitled "Influences of Intercropping on Arthropod Communities in Soybean Agroecosystems," 1991-1993, \$65,900
34. United States Forest Service Grant (Principal Investigator) entitled "A Forest Manipulation to Test the Effects of Corridors on Animal Dispersal," 1994-1995, \$33,400
35. United States Forest Service Grant (Co-Principal Investigator) entitled "Effects of Landscape Spatial Structure on Movement Patterns of *Sigmodon hispidus*," 1995-1996, \$19,780
36. NERP Grant, Savannah River Ecology Laboratory (Co-Principal Investigator) entitled "Flow Cytometric Analysis of the Effects of Fly Ash Contaminants on Small Mammals," 1996, \$7,800
37. National Center for Ecological Analysis and Synthesis Grant (Co-Principal Investigator) entitled "New Directions and Applications for Ecosystem Science in the Private Sector," 1996-1997, \$15,000

38. United States Forest Service Grant (Co-Principal Investigator) entitled “Effects of Landscape Structure and Vegetation Pattern on the Movement of Small Mammals within an Experimental Landscape,” 1996-1998, \$39,782
39. United States Forest Service Grant (Principal Investigator) entitled “Effects of Habitat Fragmentation on the Behavior of the Hispid Cotton Rat, *Sigmodon hispidus*,” 1998-1999, \$13,299
40. United States Forest Service Grant (Principal Investigator) entitled “Effects of Habitat Fragmentation on the Cotton Rat, *Sigmodon hispidus*,” Phase II, 1999-2001, \$31,745
41. Stoddard-Sutton-Burleigh Foundation Grant (Co-Principal Investigator) entitled “Peninsular Effects on Dense Populations of *Peromyscus leucopus* and *Ochrotomys nuttalli*,” 2000-2001, \$1,772
42. United States Forest Service Grant (Co-Principal Investigator) entitled “Habitat Use and Movement Patterns of Small Mammals within an Experimentally Fragmented Landscape,” Phase III, 2000-2001, \$3,000
43. The Land Institute Grant (Co-Principal Investigator) entitled “Comparison of Conventional and Low-Input Sustainable Agricultural Systems: An Ecosystem Approach,” 2001-2003, \$11,700
44. Georgia Power Gift (Principal facilitator) “Support of Undergraduate Research at HorseShoe Bend Ecology Experimental Site,” 2010, \$35,000

Extramural Funding Total as of 1 January 2010: \$2,213,332

Publications

Books

1. Barrett, G. W., and R. Rosenberg, eds. 1981. *Stress Effects on Natural Ecosystems*. New York: John Wiley & Sons, 305 pp.
2. Barrett, G. W., and G. N. Cameron. 1981. *Career Trends and Graduate Education in Mammalogy*. Lawrence, Kansas: Allen Press, 109 pp.
3. Barrett, G. W., and J. D. Peles, eds. 1999. *Landscape Ecology of Small Mammals*. New York: Springer-Verlag, 347 pp.
4. Barrett, G. W., and T. L. Barrett, eds. 2001. *Holistic Science: The Evolution of the Georgia Institute of Ecology (1940-2000)*. New York: Taylor & Francis, 366 pp.
5. Kress, J. W., and G. W. Barrett, eds. 2001. *A New Century of Biology*. Washington, D.C.: Smithsonian Institution Press, 159 pp.
6. Odum, E. P., and G. W. Barrett. 2005. *Fundamentals of Ecology*. Fifth Edition. Belmont, California: Thomson Brooks/Cole, 598 pp.
7. Barrett, G. W., and G. A. Feldhamer, eds. 2008. *The Golden Mouse: Ecology and Conservation*. New York: Springer, 239 pp.
8. Barrett, G. W., T. L. Barrett, S. J. Connelly, A. S. Mehring, and J. O. Moree, eds. 2011. *Ecology Exercise Book: An Ecosystem Approach*. Dubuque, Iowa: Kendall Hunt Publishing Company, 148 pp.

Journals

1. Barrett, G. W., and R. M. Darnell. 1967. Effects of dimethoate on small mammal populations. *American Midland Naturalist* 77: 164-175
2. Odum, E. P., G. W. Barrett, and H. R. Pulliam. 1968. Testing pesticides at the ecosystem level. *Association of Southeastern Biologists Bulletin* 15: 48
3. Pulliam, H. R., E. P. Odum, and G. W. Barrett. 1968. Equitability and resource limitation. *Ecology* 49: 772-774
4. Barrett, G. W. 1968. The effects of an acute insecticide stress on a semi-enclosed grassland ecosystem. *Ecology* 49: 1019-1035
5. Pulliam, H. R., G. W. Barrett, and E. P. Odum. 1969. Bioelimination of tracer ^{65}Zn in relation to metabolic rates in mice. In: *Proceedings of the Second National Symposium on Radioecology*, 15-17 May 1967, Ann Arbor, Michigan, pp. 725-730
6. Barrett, G. W. 1969. Bioenergetics of a captive least shrew, *Cryptotis parva*. *Journal of Mammalogy* 50: 629-630
7. Barrett, G. W., (Co-author). 1970. *A Proposed University Program for Environmental Quality in Ohio*. Ohio Board of Regents Inter-University Committee on Environmental Quality, Columbus, Ohio, 140 pp.
8. Bulan, C. A., and G. W. Barrett. 1971. The effects of two acute stresses on the arthropod component of an experimental grassland ecosystem. *Ecology* 54: 597-605
9. Barrett, G. W., and R. G. Kimmel. 1972. Effects of DDT on the density and diversity of tardigrades. *Proceedings of the Iowa Academy of Sciences* 78: 41-42
10. Hopkins, C. O., W. E. Hopkins, and G. W. Barrett. 1972. Importance percent values of a browsed southeastern Indiana forest. *Proceedings of the Indiana Academy of Sciences* 81: 160-164
11. Vogtsberger, L. M., and G. W. Barrett. 1973. Bioenergetics of captive red foxes. *Journal of Wildlife Management* 37: 495-500
12. Barrett, G. W. 1974. Book review of *Man in the Living Environment: A Report on Global Ecological Problems*. *Human Ecology* 2: 151-152
13. Pomeroy, S. E., and G. W. Barrett. 1975. Dynamics of enclosed small mammal populations in relation to an experimental pesticide application. *American Midland Naturalist* 93: 91-106
14. Barrett, G. W. 1975. Occurrence of an albino *Microtus pennsylvanicus* in Ohio. *Ohio Journal of Science* 75: 102
15. Baldwin, A. D., G. W. Barrett, C. E. Barthel, Jr., D. T. Fairburn, and R. E. Wilson. 1975. A new direction for the training of graduate students in environmental education. *Journal of*

Environmental Education 6: 50-56

16. Puchy, C. A., and G. W. Barrett. 1975. Environmental science: A new direction in science education. *Proceedings of the Indiana Academy of Science* 84: 432
17. Barrett, G. W., and C. V. Mackey. 1975. Prey selection and caloric ingestion rate of captive American Kestrels. *The Wilson Bulletin* 87: 514-519
18. Johnson, R. F., and G. W. Barrett. 1975. Effects of diethylstilbestrol on feral house mouse (*Mus musculus* L.) population dynamics under experimental field conditions. *Journal of Applied Ecology* 12: 741-747
19. Mills, R. S., G. W. Barrett, and M. P. Farrell. 1975. Population dynamics of the big brown bat (*Eptesicus focus*) in southeastern Ohio. *Journal of Mammalogy* 56: 591-604
20. Barrett, G. W. (Contributor). 1976. *Energy Related Multidisciplinary Research at Universities*, J. Craig and D. W. Cunningham, eds. Denver, Colorado: University of Denver Research Institute 37 pp.
21. Barrett, G. W., and K. L. Stueck. 1976. Caloric ingestion rate and assimilation efficiency of the short-tailed shrew, *Blarina brevicauda*. *Ohio Journal of Science* 76: 25-26
22. Fluharty, S. L., D. H. Taylor, and G. W. Barrett. 1976. Sun-compass orientation in the meadow vole, *Microtus pennsylvanicus*. *Journal of Mammalogy* 56: 1-9
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