

CURRICULUM VITAE

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EDUCATION

B.S.: April, 1972, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA, minors in Chemistry and English, overall GPA (137 semester credits)-3.45.

Undergraduate honors: Pennsylvania State Scholarship, Senatorial Scholarship, Honors Major in Biology, Cum Laude graduate, Dean's List - 8 semesters.

Ph.D.: April, 1980, Department of Biological Sciences, Section of Ecology, Evolution and Systematics, University of Pittsburgh, Pittsburgh, PA, overall GPA (61 semester credits)-3.93.

Dissertation: The Comparative Social Behavior of *Kerodon rupestris* and *Galea spixii* in the Xeric Caatinga of Northeastern Brazil - Michael A. Mares, major advisor.

Language proficiency: Read French (competent) and Italian (adequate); Read, write, understand, and speak Spanish (proficient); Read, write, understand, and speak English and Portuguese (fluent)

EMPLOYMENT HISTORY AND TEACHING EXPERIENCE

Research/Teaching/Tenure Track Positions

- 2007-present **Department Head and Full Professor**, Department of Wildlife and Fisheries Sciences, Texas A&M University. Responsible for the administration, financial management and strategic leadership of the teaching, research and extension programs for the department, including 27 faculty FTEs, 12.7 extension FTEs, 5 off-campus research scientists, 12 technical staff, 12 administrative staff, and approximately 400 undergraduate and 200 graduate students. Also a member of the Interdisciplinary Faculty of Toxicology.
- 2002-2007 **Senior Vice-President and Executive Director**, Center for Applied Biodiversity Science, previously **Vice-President, Field Assessment and Monitoring** (2003), and **Senior Director** TEAM Initiative (2002-2003). As Executive Director, responsible for all operations of the Center for Applied Biodiversity Science, the research division of Conservation International. In previous positions, responsible for the development of a standardized protocols for the monitoring and assessment of biodiversity in tropical forest ecosystems, and for the creation of a network of tropical field stations for the implementation of the monitoring protocol. Field station network will generate a shared web-based data bank on tropical forest condition, worldwide. Stations will also be responsible for education, training, and capacity building of local conservation scientists. Also supervised the Rapid Assessment Program within CABS.
- 1996-2004 **Caesar Kleberg Chair in Wildlife Ecology and Full Professor**, Department of Wildlife and Fisheries Sciences and Intercollegiate Faculty of Toxicology, Texas A&M University. Taught: Conservation, Ecology, and Management of Wildlife in the Tropics (Grad), Theory of Research-Statistical Methodologies (Grad), Tropical Field Biology in Dominica (UG), Wildlife Conservation and Management (UG), and lecture in Mammalogy (UG) and Conservation Biology (Grad).
- 1989-1996 **Director**, Archbold Tropical Research Center, Clemson University. Responsible for administration of a consortium of universities and agencies, fund raising, coordination of research, and development of curricular activities. Managed projects in Argentina, Belize, Brazil, Costa Rica, Dominica, Mexico, and Panama. **Associate Professor** (1989-1993), **Full Professor** (1993) with appointments in the Department of Environmental Toxicology and Department of Aquaculture, Fisheries, and Wildlife, and the Department of Park, Recreation, and Tourism Management. **Section Leader** (1994-1996) for Terrestrial Ecotoxicology, Institute of Wildlife and Environmental Toxicology. Taught Conservation Biology (UG), Conservation and Ecology of Wildlife in the Tropics (Grad.), and Advanced Wildlife Toxicology (Grad.).

- 1987-1989 **Associate Professor**, Huxley College of Environmental Studies and Department of Biology, Western Washington University, Bellingham, WA 98225. Taught undergraduate classes in General Ecology, Biometrics, Population Ecology, Conservation of Biological Diversity, and graduate courses or seminars in Environmental Impact Assessment, Advanced Wildlife Assessment Techniques, Community Ecology, Coevolution, and Territoriality.
- 1981-1987 **Assistant Professor**, Huxley College of Environmental Studies, Western Washington University, Bellingham, WA 98225. Taught Ecology; Ecosystems Analysis; Population Ecology; Terrestrial Ecosystems Analysis; Wildlife, Forest, and Park Management; Statistics for Environmental Studies; and selected seminars: Behavioral Ecology, Theoretical Ecology, Conservation Biology, and Special Topics in Statistical Analysis.
- 1979-1981 **Assistant Professor**, Departamento de Biologia Animal, Universidade de Brasília, DF, Brazil 70910. Taught Vertebrate Zoology, Animal Ecology and undergraduate independent research projects in Zoology and Ecology.
- 1978 **Graduate assistant** in the National Science Foundation - Undergraduate Research Program at the Pymatuning Laboratory of Ecology.
- 1976-1978 **Research assistant** on the Academia Brasileira de Ciências Project Number 85, Ecology, Evolution, and Zoogeography of Mammals of Northeastern Brazil.
- 1972-1978 **Teaching assistant**, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. Assistant in General Biology, Animal Physiology, Population and Evolutionary Biology, Environmental Biology, Vertebrate Field Biology and Experimental Vertebrate Ecology.

Visiting/Adjunct Positions and Special Appointments

- 2007-present **Senior Research Fellow** in the Center for Applied Biodiversity Sciences at Conservation International, Arlington, VA.
- 2004-2007 **Visiting Scientist**, Department of Environmental Sciences, University of Virginia, Charlottesville, VA.
- Adjunct Graduate Faculty**, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX.
- 1999-2002 **Senior Research Fellow** in the Center for Applied Biodiversity Sciences at Conservation International, Washington, DC.
- 1997 **Adjunct Professor**, Institute of Wildlife and Environmental Toxicology and Department of Environmental Toxicology, Clemson University, Clemson, SC.
- 1995 **Visiting Professor**, Programa Interdisciplinar de Pós-Graduação e Pesquisas Ambientais (Interdisciplinary Program in Environmental Research/Graduate Education), Universidade Federal de Minas Gerais, Belo Horizonte, MG, Brazil. Taught workshop on Concept, Planning, and Implementation of Programs and Centers in the Area of Conservation; sponsored by CAPES, the Brazilian governmental agency for graduate training and education.
- 1995 **Visiting Scientist**, United States Information Service, to deliver keynote address at the VI Congresso Nordestino de Ecologia in João Pessoa, deliver seminars in Belém and Manaus, and visit with scientists, environmentalists, and government officials at universities and research laboratories in Rio de Janeiro, João Pessoa, Belém, and Manaus, all in Brazil.
- 1988 **Visiting Scientist**, Conselho Nacional de Desenvolvimento Científico e Tecnológico (Brazilian National Research Council), Brasília, DF, Brazil. Participated in an Environmental Impact Assessment of a proposed hydroelectric project.
- 1986 **Visiting Professor**, Departamento de Zoologia, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte, MG, Brazil. Taught course in Conservation and Wildlife Management and assisted in the development of a graduate program in Wildlife Ecology and Management.

RESEARCH EXPERIENCE

- 2002-present Development of a long-term monitoring and assessment program for biodiversity in the tropics; creation of a data sharing network for information on tropical forest condition; studies of patterns of biodiversity in the tropics; development of new models integrating fractal geometry and topology for the evaluation of fragmentation on biodiversity; patterns of morphological variation in Amazonian marmosets; cultural values and conservation in rural communities in Guyana, ecology and conservation of macaw species in Peru.

1998- 2004	Community ecology of small mammals along an altitudinal gradient in El Cielo Biosphere Reserve, Tamaulipas, Mexico; pesticide impacts on amphibian populations in the Lower Rio Grande Valley and in the high Sierra Nevada of California; assessment of contaminant impacts on bat populations in Texas; research on patterns of biodiversity in managed forest lands in East Texas; comparisons of the use of created and natural wetlands by waterfowl; studies on the environmental services provided by rice agriculture on the Texas coastal plain.
1990-1997	The AMISCONDE Initiative - a conservation, restoration, and sustainable development initiative in the buffer zone of the La Amistad Biosphere Reserve in the Talamanca Mountains of Costa Rica and Panama that also included environmental education components such as seed money for the construction at the Simon Bolivar Zoo in San José, Costa Rica of an environmental education center.
1989-1996	Conservation biology and technology transfer in Latin America and the Caribbean; effects of pesticides on the population biology of wildlife species; use of mycorrhizae in tropical reforestation; use of remote sensing and GIS to develop a habitat map for Costa Rica; gap analysis of important wildlife species in Costa Rica.
1983-1989	Density, diversity, and microhabitat preferences of small mammals in central Brazilian savanna and wetland habitats; termite distributions in savanna habitats; wildlife toxicology; structure of small mammal communities in Pacific Northwest forests; wildlife management in Pacific Northwest forest lands; conservation education in Brazil.
1981-1982	Importance of resource distribution and social status as determinants of individual variation in home range size; studies on optimal foraging in a granivorous rodent.
1979-1981	Behavior and ecology of free-ranging marmosets (<i>Callithrix jacchus penicillata</i>) in central Brazil; examinations of scent marking behavior in a nocturnal cricetid rodent <i>Oxymycterus roberti</i> ; research on the comparative thermoregulatory behavior of some Neotropical turtles.
1976-1978	Two-year study of the comparative behavior of two species of sympatric caviid rodents (<i>Kerodon rupestris</i> and <i>Galea spixii</i>) in northeastern Brazil, assisted by a grant (to M.A. Mares) from the Brazilian Academy of Sciences. Also assisted in a large-scale survey of the mammals of the Xeric Caatinga of northeastern Brazil and did research on the behavior of <i>Polychrus acutirostris</i> (Iguanidae) in northeastern Brazil.
1975-1978	Determining factors of home range size in <i>Tamias striatus</i> ; insular biogeography of birds in a freshwater lake.
1972-1974	Population and reproductive data on eastern chipmunks, <i>Tamias striatus</i> , and collection of caloric and nutrient (nitrogen analysis) data on natural foods of chipmunks (research assistant -Pymatuning Laboratory of Ecology).
1972	Assimilation efficiencies of various natural and laboratory foods in eastern chipmunks, <i>Tamias striatus</i> (UG thesis).

ADMINISTRATIVE EXPERIENCE

Department Head, Department of Wildlife and Fisheries Sciences, Texas A&M University. 03/01/2007 – present. As department head I have the following administrative duties:

- Supervise total staff of approximately 60, including about 45 Ph.D. level research, teaching and extension faculty, postdocs, and research scientists.
- Provide strategic vision for department.
- Manage the departmental budget for teaching, research and extension.
- Represent the department to the Vice-Chancellor and Dean of the College of Agriculture and Life Sciences, the Director of the Texas Agricultural Experiment Station, the Director of the Texas Cooperative Extension Service, and other aspects of the higher administration where required.
- Coordinate curricular development and planning for approximately 400 undergraduate students in three major emphases: Aquatic Ecology and Conservation, Vertebrate Zoology, and Wildlife Ecology and Conservation.
- Manage the graduate teaching program at the M.S. and Ph.D. level for nearly 200 graduate students.
- Promote enhancement of diversity at the faculty, staff, undergraduate and graduate levels.

Executive Director and Senior Vice-President, Center for Applied Biodiversity Science, Conservation International. 11/01/2003 – 02/28/2007. As Executive Director, I had the following administrative duties:

- Supervise staff of approximately 75, including about 30 Ph.D. researchers.
- Provide overall vision and priorities for the Center, including new research opportunities and research partnerships.
- Provide oversight for fundraising, grant preparation and submission, and financial management, managing an annual budget of over 17 million dollars, in collaboration with CABS fiscal support staff.
- Coordinate activities and establish priorities of the following research programs (Climate Change, Conservation Synthesis, Rapid Assessment Program, Tropical Ecology, Assessment and Monitoring Initiative, Marine Management Area Science, Scientific Publishing and Information Resources, Regional Analysis and GIS Mapping, Human Dimensions, and Threatened Species Programs).
- Represent CABS to the Executive VP, CFO, president, CEO, and Board of Conservation International.
- Present CABS initiatives, proposals, and projects at national and international meetings, to donors, to agencies, and to potential research collaborators.

Vice President, Field Assessment and Monitoring (promoted from Senior Director for the Tropical Ecology, Assessment and Monitoring (TEAM) Initiative), Center for Applied Biodiversity Science, Conservation International. 8/1/2002-10/31/2003. As vice president I was responsible for the following administrative activities:

- Establish priorities for the creation of a network of tropical forest field station, located in Conservation International's Hotspots and tropical wilderness areas.
- Coordinate the development of a standardized protocol for the monitoring and assessment of indicators of the condition of biodiversity in the tropics. Indicators include climate, plant, invertebrate and vertebrate variables.
- Supervise the Washington, DC based staff, project coordinators located in each of the hotspots, and in-country field and technical staff responsible for the protocol implementation.
- Collaborate with the Conservation Knowledge Department of Conservation International on the development of a web-based data bank on the monitoring protocol accessible by the scientific community.
- Integrate TEAM activities with the Regional Analysis and GIS mapping program at Conservation International.
- Supervise staff and collaborate with the Rapid Assessment Program at CI on inventory, monitoring and assessment activities at CI priority conservation regions.

Director of the Archbold Tropical Research Center 1989-1996. As director I was responsible for the following administrative activities:

- Coordinate activities of the member consortium institutions of the Center.
- Manage the Center's Springfield Environmental Laboratory on the island of the Commonwealth of Dominica, including the supervision of the general manager, a resident research coordinator, and the staff.
- Plan and coordinate all teaching/training activities at the Springfield Environmental Laboratory.
- Coordinate the research activities of visiting scientists at the Springfield Environmental Laboratory.
- Pursue fund-raising activities. Donors of equipment and supplies included the Smithsonian Institution Museum of Natural History, the USDA Forest Service, the National Park Service, Springs Industries, Inc., Beacon Manufacturing Company, the Monsanto Agricultural Company, Quaker State Corporation, Dr. Frank Woods, Mr. Walter B. Cook, Ms. Elizabeth Fuller, the Estate of John D. Archbold, and supporters of the late John D. Archbold.
- Obtain and supervise grants and contracts. Grants and contracts obtained from: McDonald's Corporation, Coca Cola Foundation, Keystone Foods, OSI Industries, L+O International, Nestlé, the USDA Forest Service, USAID Program for Science and Technology Cooperation, World Wildlife Fund/Biodiversity Support Program, Sophie Danforth Conservation Biology Fund, American Cyanamid Company, and Clemson University Provost Award Fund.

Section Leader for Terrestrial Ecotoxicology in the Institute of Wildlife and Environmental Toxicology 1994-1996. As section leader I was responsible for the following activities:

- Coordinate research activities in the area of terrestrial ecotoxicology.
- Oversight of section personnel, including two faculty, one postdoc, one administrative assistant, graduate students, and grant temporary employees.
- Coordinate use and management of the two field research facilities of the Institute of Wildlife and Environmental Toxicology: the Edith Angel Environmental Research Center in Chariton, Iowa, and the Miley Environmental Education and Research Center, in Hampton County, South Carolina.

INTERNATIONAL AND OVERSEAS EXPERIENCE

<i>Argentina</i>	1990, 2007. Two weeks - invited speaker, international symposia.
<i>Brazil</i>	1976, 1977, 1978, 1979, 1980, 1981, 1983, 1985, 1986, 1988 (2 trips), 1990, 1992, 1993 (2 trips), 1995 (2 trips), 1998, 2000, 2002, 2003 (2 trips), 2004, 2005 (2 trips), 2006 (3 trips). Total over six years time spent in country - research, teaching, consultant, program development, keynote speaker at conference, Global Mammal Assessment workshop participant.
<i>Colombia</i>	2002. One week - research planning conference.
<i>Canada</i>	1985, 1997, 2002, 2004, 2005. Three weeks - invited speaker/international symposia, conferences, committees, workshop participant
<i>Cambodia</i>	2006. One week - Evaluation of Conservation International wildlife trade program.
<i>China</i>	2005. One week - Workshop on CI China program.
<i>Costa Rica</i>	1990, 1991 (3 trips), 1992 (2 trips), 1993 (3 trips), 1994 (3 trips), 1995 (2 trips), 1996, 1997, 1998, 2004, 2008. Seventeen weeks total - research, program development, international symposium, project site visit and planning..
<i>Dominica</i>	1989, 1990 (2 trips), 1991 (2 trips), 1993, 1994, 1998, 2000, 2001, 2002, 2003, 2004, 2006, 2008. Total time in country, 31 weeks - meetings, program development, teaching and research, study abroad trip.
<i>England</i>	2001, 2005. Ten days - museum visit, international symposium.
<i>France</i>	2005 - One week, personal travel.
<i>Guatemala</i>	1996. One week - international panel/workshop.
<i>Guyana</i>	2006. One week - program review and planning.
<i>Honduras</i>	2008. One week - Global Mammal Assessment workshop.
<i>Hong Kong</i>	2006. Two days - Conservation International-related travel.
<i>Ireland</i>	1999. One week - Personal travel.
<i>Italy</i>	1989, 2001. Three weeks - international symposium and invited participant, Species Survival Committee of the IUCN; invited participant, UNESCO-FAO meeting on biodiversity monitoring.
<i>Madagascar</i>	2006. Two weeks - International symposium and invited speaker, research site visits.
<i>Mexico</i>	1987, 1997, 1999. Three weeks - international symposia and research.
<i>Panama</i>	1976, 1992, 1993 (2 trips), 1994, 1995, 1996, 1997, 1998, 2002. Six weeks total - consultant, project planning, symposium speaker, and research.
<i>Peru</i>	2003. One week. Activity - project site visit and planning.
<i>Philippines</i>	2006. One week - program review and planning.
<i>Puerto Rico</i>	1993, 1998, 2000, 2001, 2002, 2004, 2006. Three weeks - invited speaker/international workshop, study abroad trips.
<i>Scotland</i>	2003. One week - international conference.

<i>South Africa</i>	2001, 2003. Four weeks - invited paper, two international symposia, field work.
<i>Spain</i>	1998. One week - invited paper, international symposium.
<i>St. Maarten</i>	1994. One day - Personal travel.
<i>Suriname</i>	2003 (2 trips). Three weeks - Research planning and site selection.
<i>Thailand</i>	2005. One week - International congress.

PROFESSIONAL SERVICE

Professional Societies

American Association for the Advancement of Science (AAAS) - since 1993
 American Society of Mammalogists - since 1974
 American Society of Naturalists - since 1979
 Association for the Study of Animal Behavior – 1979-2007
 Association for Tropical Biology - since 1979
 Interciencia Association – 1986-2006
 Ecological Society of America - since 1979
 National Geographic Society - since 1983
 Society of Environmental Toxicology and Chemistry - 1994-2002.
 Society for Conservation Biology - since 1988
 Society of Sigma Xi - since 1980
 The Wildlife Society – since 2007

Professional Activities: Editorial and Review

Reviewer for the following scientific journals: *Acta Oecologica, Acta Theriologica, Actualidades Biológicas, American Midland Naturalist, American Naturalist, American Scientist, Animal Behavior, Animal Conservation, Annals of the Carnegie Museum of Natural History, Ararajuba, Arquivos do Museu Nacional - Rio de Janeiro, Behavioral Ecology and Sociobiology, Biodiversity and Conservation, Biological Conservation, BioScience, Biotropica, Conservation Biology, Copeia, Ecology, Ecological Applications, Environmental Pollution, Environmental Science and Technology, Environmental Toxicology and Chemistry, Forest Ecology and Management, Journal of Mammalogy, Journal of Tropical Ecology, Journal of Wildlife Management, Journal of Zoology, Mammalia, Mammalian Species, Mastozoologia Neotropical, Oikos, Revista de Mastozoologia, Southwestern Naturalist, Studies on Neotropical Fauna and Environment.*

Reviewer of grant proposals and/or manuscripts for the National Science Foundation, the Environmental Protection Agency, the Council for International Exchange of Scholars (Fulbright Commission), the National Geographic Society, The Nature Conservancy, the Wildlife Conservation Society, Earthwatch, the Lincoln Park Zoo Field Conservation Fund, the Interdisciplinary Research Initiative grants program at Texas A&M University, the Research Support Foundation of the State of São Paulo, Brazil (FAPESP), the Brazilian Agency for Agricultural Research (EMBRAPA), the British Petroleum Conservation Programme, the University of Oklahoma Press, Springer-Verlag, Academic Press, the University of Chicago Press, and Time Life, Inc.

Co-editor of book *Wildlife Toxicology and Population Modeling: Integrated Studies of Agroecosystems*, Lewis Publishers (1994).

Consulting editor for Time Life Inc. for the volume *The Land and Wildlife of South America* in the series Life Nature Library.

Co-editor of the 1997 Annual Review Issue of the journal **Environmental Toxicology and Chemistry** on "Tropical Ecotoxicology."

Co-editor of book *GIS Methodologies for Developing Conservation Strategies: Tropical Forest Recovery and Wildlife Management in Costa Rica*, Columbia University Press (1998).

Editorial Board Member for Terrestrial Toxicology, **Environmental Toxicology and Chemistry** (2000-2002).

Editorial Board Member of the online journal **Sustainability: Science, Practice, & Policy** (2004-2006).

Associate Editor for **Mastozoologia Neotropical** (2006-present).

Professional Activities: Boards, Committees and Panels

Member of the International Relations Committee of the American Society of Mammalogists (1984-1986, 1988-1990, and 1994-2002).

Consultant for the World Wildlife Fund in Brazil (1986).

Member of the Species Survival Committee/New World Marsupial Specialist Group of the International Union for the Conservation of Nature and Natural Resources (IUCN), appointed 1989.

Member of the evaluation panel in Biology for the National Science Foundation's Graduate Fellowship Program, conducted by the Fellowship Program Division of the National Research Council-National Academy of Sciences (1990, 1991 and 1992).

Member of the evaluation panel in the Teacher Preparation and Enhancement Program for the National Science Foundation, Directorate for Science and Engineering Education (1990).

Chairperson of the International Relations Committee of the American Society of Mammalogists (1990-1994).

Member of the Council for International Exchange of Scholars (Fulbright Commission), Area Advisory Committee for Latin America (1991, 1992, Committee Chair in 1993).

Consulting Contributor to the National Research Council project published as National Research Council (1991) *Microlivestock: Little Known Small Animals with a Promising Economic Future*. National Academy Press, Washington, DC.

Invited Participant, National Conference on the National Institutes for the Environment, May 27-29, 1992, Chevy Chase, MD.

Contributor to the Needs and Rationale Statement for the Committee for the National Institutes of the Environment (1992-1993).

Listed in *Who's Who in Science and Engineering*, 1st and 2nd Eds. (1992-1993).

Peer Reviewer for the U. S. EPA Office of Research and Development Graduate Fellowship Program (1996).

Member of the U.S. EPA Ecological Committee on FIFRA Risk Assessment Methods (ECOFRAM), Terrestrial Effects Workgroup (1997-1998).

Member of the panel on Action Priorities for the Conservation of the Biodiversity of the Cerrado and Pantanal, sponsored by FUNATURA, Conservation International, Fundação Biodiversitas, and Universidade de Brasília, March 23-27, 1998 in Brasília, Brazil.

Peer Reviewer for the U.S. EPA Draft Wildlife Research Strategy (2000).

Member of the Scientific Advisory Panel for the Institute of Environmental and Human Health, Texas Tech University and Texas Tech University Health Sciences Center (2000-2006).

Member of the U.S. EPA Peer Review Panel for Wildlife Risk Assessment (2001).

Invited Participant, Special Meeting on the Biosphere Reserve Integrated Monitoring Programme of UNESCO, September 4-6, 2001, Rome Italy.

Member of the Jackson Award Committee of the American Society of Mammalogists (2002-present).

Invited Participant, National Center for Ecological Analysis and Synthesis working group "A Collaborative Research Effort in Climate Change and Biodiversity for the Tropical Andes", January 8-10, 2002, Santa Barbara, CA.

Invited Participant, National Center for Ecological Analysis and Synthesis workshop "Biodiversity Informatics for Conservation", April 21-23, 2003, Santa Barbara, CA.

Invited Participant, Workshop on Acoustic Monitoring of Endangered Species, Bioacoustics Research Program, Cornell Laboratory of Ornithology, October 16-17, 2003, Ithaca, NY.

Member of the Science Panel of the Ocean Conservation and Tourism Alliance (2004-2005).

Invited Participant, USGS - Landscape/Species Modeling Workshop, University of Arizona, January 21-22, 2004, Tucson, AZ.

Invited Participant, Planning Workshop for a Neotropical Ecological Observatory as part of proposed NEON Network, Florida International University, April 9-10, 2004, Miami, FL.

Invited Participant, Simpósio Internacional Projetos Ecológicos de Longa Duração (Symposium on Brazilian LTER Network), July, 2004, Manaus, Brazil.

Invited Panel Speaker, "Mass Extinction Today: Does Anyone Care." Society of Environmental Journalists Annual Conference, October, 2004, Pittsburgh, PA.

Invited Panel Speaker, "Birds, Butterflies and Bats: Cross-Border Migration and Wildlife Management." Society of Environmental Journalists Annual Conference, September, 2005, Austin, TX.

Member, Conservation International Program Management Group review of the CI-China Program, April, 2005, Kunming and Lijiang, China.

Invited Participant, Global Mammal Assessment Workshop for the small mammals of Bolivia, Paraguay and Brazil, October, 2005, Vitoria, Brazil.

Invited Participant, Tropical Ecology, Assessment and Monitoring (TEAM) Network meeting, February, 2006, Foz de Iguaçu, Brazil.

Member, CI-Guyana Strategy Review, February, 2006, Georgetown, Guyana.

Member, Conservation International Program Management Group review of the CI-Philippines Program, November, 2006, Manila, Philippines.

Invited Panel Speaker, "Integrating Science and Policy." Evolutionary Change in Human Altered Environments: An International Summit, February, 2007, UCLA, Los Angeles, CA.

Invited Participant, Global Mammal Assessment Workshop for the small mammals of MesoAmerica and the Caribbean, January, 2008, Zamorano, Honduras.

Professional Activities: Conference and Symposium Organization

Member of the Organizing Committee for the VIII Congresso Brasileiro de Zoologia in Brasília, Brazil (1981).

Organized and Chaired session "Population Effects of Toxic Substances on Wildlife" at Wildlife Toxicology Symposium, 8th Annual Meeting of Society of Environmental Toxicology and Chemistry, Pensacola (1987).

Member of the steering committee for the Second International Symposium of Latin American Mammalogy, Buenos Aires, Argentina (1990).

Organized and Chaired session "International Cooperation" at the Second International Symposium of Latin American Mammalogy, Buenos Aires, Argentina (1990).

Co-convenor of the international conference "The Population Ecology and Wildlife Toxicology of Agricultural Pesticide Use: A Modeling Initiative for Avian Species", with R. J. Kendall, July 22 to July 27, 1990, Kiawah Island, South Carolina.

Co-convenor of workshop on Latin American Mammalogy at the 75th Anniversary Meeting of the American Society of Mammalogists, with Victor Sanchez-Cordero, June 18-23, 1994, Washington, DC.

Co-chair of EPA/National Wildlife Federation workshop "Lead Shot Exposure in Non-Waterfowl Species", with R.J. Kendall, October 8-13, 1994, Blaine, Washington.

Meeting coordinator for agreement holder (Clemson University - TIWET) at the second FAO/IAEA/SIDA coordination meeting on Agroecological Effects Resulting from the Use of Persistent Pesticides in Central America, September 24-29, 1995, Pendleton, SC.

Member of the steering committee for the workshop "Monitoring the Status of Biodiversity in Tropical Forest Habitats" hosted by the Center for Applied Biodiversity Science of Conservation International, October 4-8, 1999, Washington, DC.

Co-convenor of a workshop on "Networks in Tropical Ecology", with Oliver Phillips, University of Leeds, Annual Meeting of the Association for Tropical Biology and Conservation, July 7-10, 2003, Aberdeen, Scotland.

Organized and Chaired session "Conservation Science" at the Conservation International Annual Planning Symposium "Scaling Up Biodiversity Conservation", April 26-28, 2004, Washington, DC.

Organized and Chaired Baselines of Status and Trends for the 2010 Target. IUCN, CI, WWF, USGS, NASA-NGO Conservation Group. Special Event at the 10th Meeting of the Subsidiary Body on Scientific, Technical and Technological Advice of the Convention on Biological Diversity. Bangkok, Thailand, 7-11 February, 2005.

Co-convenor of a workshop on "Multi-scale Cyberinfrastructure to Support Biodiversity Research and Conservation" with Sandy Andelman, Conservation International, Joint Meeting of the Ecological Society of America and INTECOL, August 7-12, 2005, Montreal, Canada.

Organized and co-chaired session "Africa's Importance for Biodiversity- Opportunities and Constraints" at the Conservation International Global Symposium 2006, Defying Nature's End: The African Context, June 20-24, 2006, Antananarivo, Madagascar.

Co-organized and co-chaired workshop "A Avaliação Global de Mamíferos: Integrando Ecologia, Biogeografia, e Conservação" at the I Congresso SulAmericano de Mastozoologia, October 5-8, Gramado, RS, Brazil.

Member, Policy Advisory Committee for "Evolutionary Change in Human Altered Environments: An International Summit" February 8-10, 2007, UCLA, Los Angeles, CA.

DEPARTMENT AND UNIVERSITY SERVICE

- 1979-1981 **Universidade de Brasilia.**
Graduate Instruction
1) Member of graduate faculty in Ecology
2) Served on two MS thesis committees
- 1981-1989 **Western Washington University.**
Graduate Instruction
1) Member of graduate faculty in Biology and Environmental Studies
2) Served on 19 MS thesis committees
3) Major advisor of six MS candidates (two were completed and four were in progress when I left WWU)
- Huxley College Committee Service*
1) Community Affairs (1 yr.)
2) Curriculum (2 yrs.-1 yr. chair)
3) Personnel (4 yrs.)
4) Ad Hoc Committee on Core Curriculum (1 yr.-chair)
5) Ad Hoc Committee on Biology-Environmental Studies Cooperative Program (1 yr.-chair)
6) Graduate Program Committee (3 yrs.-2 yrs. chair)
- Biology Department Service*
1) Graduate Program Committee (2 yrs.)
- University Service*
1) Faculty Senate (2 yrs.)
2) Presidential Search Committee (One of three faculty members selected-1 yr.)
3) Animal Welfare Review Committee (1 yr.)
4) Graduate Council (1 yr.)
5) Steering Committee for creation of a Program in Third World Studies(1 yr.)
- 1989-1996 **Clemson University**
Graduate Instruction
1) Member of six MS and two Ph.D. committees
2) Advisor or co-advisor of three MS and three Ph.D. students
- Department of Aquaculture, Fisheries and Wildlife*
1) Ad Hoc Committee for the development of a proposal for the Ph.D. program in Aquaculture, Fisheries and Wildlife (1 yr.)
2) Ad Hoc Committee for the development of a plan for the use of a privately endowed fund (3 yrs.)
- Department of Environmental Toxicology*
1) Peer Review Committee for Tenure and Promotion (3 yrs.-2 yrs., chair)
2) Outstanding Graduate Student Selection Committee (1 yr.)
3) Department Policy Committee (2 yrs., 1 yr. chair)
- University Service*
1) Member of the President's Task Force on International Programs (1 yr.)
2) Member of the Committee for the creation of the Environmental Policy Center (1 yr.)
- 1996-2002 **Texas A&M University**
Graduate Instruction
1) Member of the graduate faculty
2) Member of seven Ph.D. committees and one MS committee
3) Advisor or co-advisor of two MS students finishing degrees at Clemson, seven MS candidates at Texas A&M, and eight Ph.D. candidates at Texas A&M
- Department of Wildlife and Fisheries Sciences*
1) Peer Review Committee for Tenure and Promotion (6 yrs.)
2) Graduate Selection Committee (2 yrs.)
3) Graduate Affairs Committee (5 yrs.)
4) Seminar Committee (Chair, 5 yrs.)
5) Faculty Advisory Board (3 yrs.)
6) Chair, Wildlife Ecology Lecturer Search Committee
7) Chair, Terrestrial Ecologist Assistant Professor Search Committee

University Service - College of Agriculture and Life Sciences and Texas A&M University
1) Member of the Faculty Advisory Committee for the Mapping Sciences Laboratory (2 yrs.)
2) Member of the University Distinguished Lecturers Committee (3 yr. appointment)

2007-present

Texas A&M University

Graduate Instruction

- 1) Member of the graduate faculty
- 2) Member of three Ph.D. and one MS committees
- 3) Advisor or co-advisor of one MS and two Ph.D. candidates at Texas A&M

University Service - College of Agriculture and Life Sciences and Texas A&M University

- 1) Member of the Department Heads Council
- 2) Texas Agricultural Experiment Station Repositioning Committee
- 3) Casa Verde Costa Rica Field Station Advisory Committee (Chair)
- 4) Member of the Search Committee for the Vice-Chancellor of Texas A&M AgriLife and Dean of the College of Agriculture and Life Sciences

GRADUATE STUDENT AND POSTDOC ADVISEMENT

Universidade de Brasilia

Committee member on two MS Theses

Western Washington University

Committee member on 19 M.S. Theses

Siobhan Sullivan, B.S., Evergreen State College - "The effects of habitat fragmentation and plant community structure on shrub-steppe passerines in Washington State." **Major advisor**: M.S. thesis defense, April, 1987. Current employment - wildlife artist and consultant.

Elizabeth Block, B.S., University of California, Santa Cruz - "The effects of the Pesticide COUNTER on wild and laboratory deer mice (*Peromyscus maniculatus*): an integrated field and laboratory study." **Co-advisor** with Dr. R.J. Kendall: M.S. thesis defense, December, 1988. Current employment – environmental consulting.

Clemson University

Committee member on 6 M.S. Theses and 2 Ph.D. Dissertations

Basil Savitsky, B.A., M.S., University of South Carolina - "Gap analysis as a geographic information system tool for conservation decision making in Costa Rica." **Co-advisor** with Dr. Robert Becker, Department of Parks, Recreation, and Tourism Management. Ph.D dissertation defense, April, 1995. Current employment - Assistant Professor, Department of Geography, Florida State University.

Colmore Christian, B.S., University of Michigan; M.S., Clemson University - "Outdoor recreation and tourism related environmental impacts in a tropical island setting: Commonwealth of Dominica." **Co-advisor** with Dr. Thomas Potts, Department of Parks, Recreation, and Tourism Management. Ph.D. dissertation defense, December, 1995. Current employment – Assistant Professor, Center for Forestry, Ecology and Wildlife, School of Agricultural and Environmental Sciences, Alabama A&M University.

Jeannine Denise Maldonado, B.S., SUNY-College of Environmental Science and Forestry - "Endomycorrhizal inoculum potential in natural and managed montane soils in Costa Rica." **Co-advisor** with Dr. Frank Tainter, Department of Forest Resources. M.S. thesis defense, April, 1996. Current employment - English-Spanish Technical Translator/Editor, Chicago.

Michael I. Goldstein, B.S., Colorado State University - "Toxicological assessment of a Neotropical migrant on its non-breeding grounds: case study of the Swainson's hawk, *Buteo swainsoni*, in Argentina." **Major advisor**, Department of Environmental Toxicology. M.S. Thesis defense, July, 1997. Completed a Ph.D. in the Department of Wildlife and Fisheries Sciences, Texas A&M University, Current employment - Regional Wildlife Ecologist, USDA Forest Service, Juneau, AK.

Kathryn Lawrence, B.S., Southern Methodist University; M.S., American Graduate School of International Management (Thunderbird) - Ph.D. candidate, project: The place of tourism in a changing society: five communities in Belize. **Co-advisor** with Dr. Wes Burnett, Department of Parks, Recreation and Tourism Management. All but dissertation. Current employment - Manager of International Marketing and Tourism, Greater El Paso Chamber of Commerce, El Paso, Texas.

Dr. Ross Wagenseil, B.A., Harvard University, M.S. and Ph.D., Clemson University - Postdoctoral Research Assistant, Forest Management Demonstration Project, Springfield Environmental Laboratory, Dominica (1992-1995). Current employment - private consultant in environmental engineering and GIS.

Committee member on 9 Ph.D. Dissertations and 3 M.S. Theses

Degree completed

Elizabeth D. Brusati, B.S., University of California-Davis - "Comparing functions of natural and created marshes for shorebirds and wading birds." **Major advisor**, Department of Wildlife and Fisheries Sciences. M.S. thesis defense, August, 1999. Subsequently completed a Ph.D. degree at the University of California, Davis. Currently Project Manager, California Invasive Plant Council, Berkeley, CA.

Katherine W. McFadden, B.S., University of California, Santa Cruz - "Photogrammetry as a tool for estimating size and condition in the Hawaiian monk seal (*Monachus schauinslandi*), the harbor seal (*Phoca vitulina*), and the Northern elephant seal (*Mirounga angustirostris*)." **Co-advisor** with Dr. Graham Worthy, Department of Wildlife and Fisheries Sciences. M.S. thesis defense, August 1999. Subsequently completed a Ph.D. degree at Columbia University. Currently Assistant Professor, School of International and Public Affairs, Columbia University.

Jody K. Sandel, B.S., Texas A&M University - "Insecticides and bridge-roosting colonies of Mexican free-tailed bats (*Tadarida brasiliensis*) in Texas." **Co-advisor** with Dr. Don Clark, Brazos Field Station, USGS, Department of Wildlife and Fisheries Sciences. M.S. thesis defense, October, 1999. Currently Wildlife Biologist, USDA Forest Service Fire Plan Team - Boulder Ranger District, Arapaho-Roosevelt National Forest, Boulder, CO.

Dianne Haynes Stromann, B.S., Texas A&M University - Non-thesis professional paper: "Integrating single-species management and ecosystem management." **Major advisor**, Department of Wildlife and Fisheries Sciences. M.Agr. (non-thesis masters), defense, March, 2000. Currently Early Education Specialist, The Nature Conservancy, Collegeport, TX.

Ivan Castro-Arellano, B.S., Universidad Nacional Autonoma de Mexico – **Major advisor**, Department of Wildlife and Fisheries Sciences. Non-thesis M.S., May, 2000. Subsequently completed a Ph.D., Department of Wildlife and Fisheries Sciences, Texas A&M University.

Michael I. Goldstein, B.S., Colorado State University, M.S., Clemson University - "Spatial complexity and scaling issues affecting biodiversity in managed forests." **Major advisor**, Department of Wildlife and Fisheries Sciences. Ph.D. dissertation defense, October, 2000. Currently Regional Wildlife Ecologist, USDA Forest Service, Juneau, AK.

Tarisha A. Smith Land, B.S., Grand Canyon University - "Population size and contaminant exposure of bats using caves on Fort Hood Military Base." **Co-advisor** with Dr. Don Clark, Brazos Field Station, USGS, Department of Wildlife and Fisheries Sciences. M.S. thesis defense, March, 2001. Currently teaching high school in Texas.

Melissa L. Parker, B.S., M.S., Clemson University – "An assessment of the potential for pesticide exposure and effects on the Rio Grande Leopard Frog (*Rana berlandieri*)." Ph.D. dissertation defense, March, 2002. **Co-advisor** with Dr. Don Clark, Brazos Field Station, USGS, Department of Wildlife and Fisheries Sciences. Currently wildlife biologist, HDR Alaska, Inc., Anchorage, AK.

Elizabeth T. Kennedy, B.S., Southern Illinois University, M.S. Clemson University - "A socio-economic analysis of the development and conservation strategies within the Amistad Conservation and Development Initiative for the La Amistad Biosphere Reserve." Ph.D. dissertation defense, March, 2002. **Co-advisor** with Dr. Diana M. Burton, Department of Forest Science. Currently Senior Director, Conservation Outcomes, Regional Programs Division at Conservation International, Washington, DC.

Diana L. Doan-Crider, B.S., University of Montana, M.S., Texas A&M University-Kingsville – "Black bear movements and spatiotemporal variation in relation to mast and fruit productivity and distribution in the Serranias del Burro, Coahuila, Mexico." Ph.D. dissertation defense, December 2002. **Co-advisor**, Department of Wildlife and Fisheries Sciences (Joint Ph.D. Program with Texas A&M-Kingsville) with Dr. David Hewitt, Texas A&M-Kingsville. Current employment, Mexican Black Bear Coordinator, IUCN Bear Specialist Group and Secretary, International Association for Bear Research and Management, Kingsville, TX.

Katia Z. Amstalden, D.V.M., Universidade Federal de Mato Grosso do Sul – Non-thesis professional paper: "Canine distemper virus in wildlife." **Major advisor**, Department of Wildlife and Fisheries Sciences. M.S. (non-thesis masters), defense, November, 2003.

Ivan Castro-Arellano, B.S., Universidad Nacional Autonoma de Mexico, M.S., Texas A&M University - "Ecological patterns of the rodent communities at El Cielo Biosphere Reserve, Tamaulipas, Mexico." Ph.D. dissertation defense, May, 2005. **Major advisor**, Department of Wildlife and Fisheries Sciences. Current employment: Postdoctoral Fellow, Department of Ecology and Evolutionary Biology, University of Connecticut.

Deborah Cowman, B.S., Coe College, M.S., Texas A&M University - "Pesticides and frog declines in the Sierra Nevada mountains, California." Ph.D. dissertation defense, September, 2005. **Major Advisor**, Department of Wildlife and Fisheries Sciences. Current employment: Executive Director, Brazos Valley Museum of Natural History, Bryan, TX..

Degree in progress

John M. Aguiar, B.S., University of Richmond, M.S., Old Dominion University - Ph.D. Candidate, Department of Wildlife and Fisheries Sciences, project: Patterns of morphological variation in the genus *Callithrix* in relation to landforms and protected areas. Currently writing and also employed as Coordinator for the IUCN/SSC Group, Center for Applied Biodiversity Science, Conservation International. **Major advisor.**

Laura Weber, B.A., American University, M.A., University of Arizona - Ph.D. Candidate, Department of Wildlife and Fisheries Sciences, project: Cultural values and conservation: do individualism, collectivism and locus of control correlate with conservation effectiveness around Iwokrama Forest, Guyana? **Co-advisor** with Dr. Douglas Slack, Department of Wildlife and Fisheries Sciences.

Krista Adamek, B.S., University of British Columbia; Diploma of Technology in Fish, Wildlife and Recreation, British Columbia Institute of Technology – M.S. Candidate, Department of Wildlife and Fisheries Sciences, project: Ecology and conservation of *Ara* spp. in southeastern Peru. **Major advisor.**

Dr. John Lamoreux B.A., Earlham College, M.F.S., Yale University and Ph.D., University of Virginia - Assistant Research Scientist, Global Mammal Assessment, 2007-present.

External Examiner - Foreign Graduate Research Programs

Alberto Costa de Paula, "Relações espaciais de pequenos mamíferos em uma comunidade de mata de galeria do Parque Nacional de Brasília." Member MS thesis review panel, 1983. Universidade de Brasília, Brazil.

Ricardo Bonfim Machado, "Padrões de fragmentação da Mata Atlântica em três municípios da bacia do Rio Doce (MinasGerais) e suas consequências para a avifauna." Member MS thesis review panel, 1995. Universidade Federal de Minas Gerais, Brazil.

Selvino Neckel de Oliveira, "Efeitos da alteração do habitat na dinâmica reprodutiva de *Phyllomedusa tarsius* (Amphibia-Anura) na Amazônia Central." Member Ph.D. dissertation review panel, 2002. Instituto Nacional de Pesquisas da Amazônia - INPA, Brazil.

Ivo Rohling Ghizoni Junior, "Dinâmica populacional de *Bolomys lasiurus* (Ronentia: Muridae) em uma savanna na Amazônia Central." Member MS thesis review panel, 2003. Instituto Nacional de Pesquisa da Amazônia - INPA, Brazil.

Constança de Sampaio e Paiva Camilo-Alves, "Adaptações dos tamanduás-bandeira (*Myrmecophaga tridactyla* Linnaeus, 1758) à variação da temperatura ambiente no Pantanal da Nhecolândia, MS." Member MS thesis review panel, 2003. Universidade Federal de Mato Grosso do Sul, Brazil.

Thomas Daniel Lambert, "Small mammals of the south-eastern Amazon and the ecological consequences of selective logging." Member Ph.D. dissertation committee, 2004, Graduate Faculty of Forestry, University of Toronto.

Manoel dos Santos Filho, "Efeitos da fragmentação sobre a comunidade de pequenos mamíferos em floresta estacional semidecidual submontana no Mato Gross, Brasil." Member Ph.D. dissertation review panel, 2005, Instituto Nacional de Pesquisa da Amazônia - INPA, Brazil.

AWARDS, CONSULTATIONS, GRANTS AND CONTRACTS

Honors and Awards

- 1980 Full member of Sigma Xi.
- 1983 Faculty research award for best paper at the 44th Annual Meeting of the Association of Southeastern Naturalists, University of Southwestern Louisiana, Lafayette. Paper was co-authored with M.R. Willig and M.A. Mares.
- 1984 Received a merit-step promotion due to productivity in research from Western Washington University.
- 1989 Received a merit-step promotion due to productivity in research from Western Washington University (first availability of merit since 1984).
- 1992 Listed in *Who's Who in Science and Engineering, 1st Ed.*
- 1995 Invited as keynote speaker at the VI Congresso Nordestino de Ecologia, João Pessoa, Brazil.
- 1996 Appointed to endowed position, Caesar Kleberg Chair of Wildlife Ecology, at Texas A&M University.
- 2001 Invited as keynote speaker at the Biodiversity Monitoring Symposium, Conservation International Annual Meeting, Washington, DC.
- 2005 Invited as keynote speaker at the III Congresso Brasileiro de Mastozoologia, Vitória, Brazil.

Consultant Work

1983 Technical Consultant on NSF Grant "Ecology of small mammals in the Brazilian Cerrado" awarded to M.A. Mares, University of Oklahoma. Received transportation costs to and from Brazil.

1984/89 Statistical Consultant on many grants and contracts awarded to the Institute of Wildlife Toxicology (R. J. Kendall, Director), Huxley College of Environmental Studies, Western Washington University. Includes grants from the Environmental Protection Agency, Ciba-Geigy Agricultural Chemical Division, the U. S. Navy, and the American Cyanamid Company.

1986 Consultant on the project "Planning and establishment of a graduate course in Wildlife Conservation at the Federal University of Minas Gerais (UFMG), Brazil," World Wildlife Fund-U.S. Project No. 489.

1987/89 Consultant on Environmental Protection Agency-Office of Pesticide Programs Grant to "Review and evaluate data to assess the ecological risks associated with pesticide use" awarded to KBN Engineering and the Institute of Wildlife Toxicology, Western Washington University.

1988 Consultant to evaluate current and future ecological research on wildlife in the Pantanal wetland ecosystem of Brazil, Centro de Pesquisa Agropecuaria do Pantanal, Empresa Brasileira de Pesquisa Agropecuaria (EMBRAPA) and Interamerican Institute for Cooperation in Agriculture.

1993 Consultant to advise on the plan for the creation of the APA-Sul (Area of Environmental Protection) in the "Quadrilátero Ferrífero" region of the state of Minas Gerais, Brazil, Fundação Biodiversitas.

Consultant to The Nature Conservancy for the International Workshop on the Conservation Status of Neotropical Mammals, held in Panama City, Panama.

1994 Consultant to Time Life, Inc. on the book *The Land and Wildlife of South America* in the series, Life Nature Library.

Attending consultant for agreement holder (Clemson University - TIWET) at the first FAO/IAEA/SIDA coordination meeting on Agroecological Effects Resulting from the Use of Persistent Pesticides in Central America, San José, Costa Rica.

1995 Consultant and meeting coordinator for agreement holder (Clemson University - TIWET) at the second FAO/IAEA/SIDA coordination meeting on Agroecological Effects Resulting from the Use of Persistent Pesticides in Central America, Pendleton, SC.

1996 Attending consultant for agreement holder (Clemson University - TIWET) at the third FAO/IAEA/SIDA coordination meeting on Agroecological Effects Resulting from the Use of Persistent Pesticides in Central America, Guatemala City, Guatemala.

1997 Adjunct member of the Life Sciences Planning Team and consultant (provide scientific information and write story lines for the Design Development documents) for the Life Sciences exhibits for the Natural Wonders Gallery for the Oklahoma Museum of Natural History, University of Oklahoma, Norman, OK.

2001 External consultant for research priorities and experimental design for the Mendocino Redwood Company, Ft. Bragg, CA.

Grants and Contracts

1980 Received a travel grant from the National Research Council of Brazil to visit various Primate Research Centers in the United States - **\$2,725.00.**

1981 Received the G. Murray McKinley Postdoctoral fellowship from the Pymatuning Laboratory of Ecology to study "The determinant factors of individual variation in home range size in *Tamias striatus*." - **\$2,000.00.**

1982 Received a renewal of the G. Murray McKinley Postdoctoral fellowship from the Pymatuning Laboratory of Ecology to continue the 1981 research on *Tamias* home range size. - **\$2,900.00.**

Received a grant from the Padilla Bay National Estuarine Sanctuary to survey the mammal fauna of the upland habitats and provide a management plan - **\$1,000.00.**

Received a Summer Research Grant (for summer 1983) from the Bureau for Faculty Research of Western Washington University to study small mammal ecology in Brazil - **\$2,250.00.**

1984 Received funding from the Organization of American States and Brazilian agencies to assist in a survey of the mammals of the Pantanal region of Brazil, in Summer 1985 - **\$4,644.00.**

1986 Received a Summer Research Grant from the Bureau of Faculty Research of Western Washington University to assist in the development of a graduate program in conservation and ecology at the Federal University of Minas Gerais - **\$3,500.00.**

Environmental Protection Agency grant "Effectiveness of artificial nest boxes in the determination of pesticide impacts on birds: Parathion effects on starling reproduction biology as an example." Secondary Investigator, with R. Kendall (PI), and L. Brewer (Co-PI), Institute of Wildlife Toxicology, Huxley College of Environmental Studies, Western Washington University - **\$99,381.00**.

1987 Environmental Protection Agency grant "Evaluation of environmental contamination in wildlife in the Puget Sound Basin." Co-PI with R. Kendall (PI), Institute of Wildlife Toxicology, Huxley College of Environmental Studies, Western Washington University - **\$42,373.00**.

1989 American Cyanamid Company Agricultural Research Division grant "The development of new methodologies in avian field testing: multivariate approaches to analysis of reproductive data and mathematical modeling of long-term population effects." Project Director, with R. J. Kendall (PI), Institute of Wildlife Toxicology, Huxley College of Environmental Studies, Western Washington University - **\$30,692.50**.

National Institute of Environmental Health Sciences grant "On-site evaluation of bioavailability and ecotoxicity of toxic substances utilizing an enhanced avian population assay." To Institute of Wildlife and Environmental Toxicology, Clemson University, R. J. Kendall (PI), C. M. Bens, L. W. Brewer, G. P. Cobb, III, M. J. Hooper, and T. E. Lacher, Jr. - **\$700,000.00**.

U. S. Forest Service Cooperative Research Grant No. 29-483 "Tropical forest ecology in the East Caribbean Basin." Principal Investigator - **\$6000.00**.

1990 U. S. Forest Service Cooperative Research Grant No. 29-569 "Tropical forest ecology in the East Caribbean Basin, Phase II." Principal Investigator - **\$6000.00**.

1991 Provost Research Award, Clemson University, "Ecology and conservation of the vertebrates of the Savannas of Central Brazil." - **\$2000.00**.

U. S. Forest Service Cooperative Research Grant "Tropical forest ecology in the Eastern Caribbean Basin, Phase III." Principal Investigator - **\$6000.00**.

American Cyanamid Company Agricultural Research Division Grant "The Centro de Investigaciones de Ecotoxicologia de Banano (ECOBANA) at Escuela de Agricultura de la Region Tropical Humeda (E.A.R.T.H.)." To Institute of Wildlife and Environmental Toxicology, Clemson University, R. J. Kendall (PI), and J. A. Zaglul, T. E. Lacher, Jr., M. Soto, R. Vargas, and S. Vega (Collaborative Investigators) - **\$50,000.00**.

AMISCONDE: La Amistad Binational Conservation Initiative: Diagnostic Phase. Project funded by the McDonald's Corporation, jointly administered by the Archbold Tropical Research Center (T. E. Lacher, Jr., Director) and Conservation International (L. Madrigal, Washington Coordinator and M. Ramirez, Project Manager in Costa Rica and Panama). - **\$174,371.50**.

1992 U.S. Forest Service Region 8 project "Forest management demonstration project: Dominica, West Indies." Principal Investigator - **\$164,000.00**, year 1 of 3 year project.

U. S. Forest Service Cooperative Research Grant "Tropical forest ecology in the Eastern Caribbean Basin, Phase IV." Principal Investigator - **\$6,000.00**.

USAID Program in Science and Technology Cooperation Grant "Gap Analysis mapping of diversity of biological resources." T. E. Lacher, Jr. (Archbold Tropical Research Center) and C. Vaughan (Universidad Nacional, Heredia, Costa Rica), Co-PI's - **\$149,994.00** for 3 year (1992-1995) project.

AMISCONDE: La Amistad Binational Conservation Initiative: Implementation Phase. Jointly administered project by the Archbold Tropical Research Center (T. E. Lacher, Jr., Director) and Conservation International (L. Madrigal, Washington Coordinator and M. Ramirez, Project Manager in Costa Rica and Panama), beginning Fall 1992 - funded by McDonald's Corporation and family of suppliers - **\$405,627.76**, fiscal year (June 1 1992- July 31 1993) 1 of 6 year project.

1993 U.S. Forest Service IITF project "Forest management demonstration project: Dominica, West Indies." Principal Investigator - **\$76,500.00**, year 2 of 3 year project.

World Wildlife Fund Biodiversity Support Program Grant "Outdoor recreation and tourism related environmental impacts in a tropical island setting - case study of the Commonwealth of Dominica." C. Christian (PI) and T. E. Lacher, Jr. (CoPI) - **\$15,000.00**.

Sophie Danforth Conservation Biology Fund, supplemental funding for "Outdoor recreation and tourism related environmental impacts in a tropical island setting - case study of the Commonwealth of Dominica." C. Christian (PI) and T. E. Lacher, Jr. (CoPI) - **\$1,000.00**.

AMISCONDE: La Amistad Binational Conservation Initiative: Implementation Phase. Jointly administered project by the Archbold Tropical Research Center (T. E. Lacher, Jr., Director) and Conservation International (L. Madrigal, Washington Coordinator and M. Ramirez, Project Manager in Costa Rica and Panama) - funded by McDonald's Corporation and family of suppliers - **\$615,651.00**, fiscal year 2 of 6 year project.

1994 U.S. Forest Service IITF project "Forest management demonstration project: Dominica, West Indies." Principal Investigator - **\$15,000.00**, year 3 of 3 year project.

AMISCONDE: La Amistad Binational Conservation Initiative: Implementation Phase. Jointly administered project by the Archbold Tropical Research Center (T. E. Lacher, Jr., Director) and Conservation International (L. Madrigal, Washington Coordinator and M. Ramirez, Project Manager in Costa Rica and Panama) - funded by McDonald's Corporation and family of suppliers - **\$520,500.78**, fiscal year 3 of 6 year project.

1995 AMISCONDE: La Amistad Binational Conservation Initiative: Implementation Phase. Jointly administered project by the Archbold Tropical Research Center (T. E. Lacher, Jr., Director) and Conservation International (J. Nations and L. Madrigal, Washington Coordinators and M. Ramirez, Project Manager in Costa Rica and Panama) - funded by McDonald's Corporation and family of suppliers - **\$474,460.00**, fiscal year 4 of 6 year project.

1996 National Wildlife Federation project "Preliminary assessment of pesticide-related mortality in Swainson's hawks (*Buteo swainsonii*) in Argentina." M. J. Hooper and T. E. Lacher, Jr. (CoPIs) - **\$2,500.00**.

AMISCONDE: La Amistad Binational Conservation Initiative: Implementation Phase. Jointly administered project by the Archbold Tropical Research Center-Clemson University, Texas A&M University (T. E. Lacher, Jr., Caesar Kleberg Chair) and Conservation International (J. Nations, Washington Coordinator and M. Ramirez, Project Manager in Costa Rica and Panama) - funded by McDonald's Corporation and family of suppliers - **\$475,304.00**, fiscal year 5 of 6 year project.

1997 AMISCONDE: La Amistad Binational Conservation Initiative: Implementation Phase. Jointly administered project by Texas A&M University (T. E. Lacher, Jr., Caesar Kleberg Chair) and Conservation International (J. Nations, Washington Coordinator and M. Ramirez, Project Manager in Costa Rica and Panama) - funded by McDonald's Corporation and family of suppliers - **\$151,870.00**, fiscal year 6 of 6 year project.

Interdisciplinary Research Initiatives Program, Office of the Vice President for Research and Associate Provost for Graduate Studies, Texas A&M University. "The Development of a Fractal Topology Approach to Wildlife Conservation Modeling." T.E. Lacher, Jr. and P. Lima-Filho (CoPIs) - **\$19,000.00**

Texas-Mexico Initiative Challenge Grants/W.K. Kellogg Foundation. "Managing Agroecosystems: An Integrated Model for Agriculture and Conservation in the Mexico/U.S. Border Corridor." W. Grant (PI), E.C Andrade Limas, J. Christiansen, R. Conner, E.C. Enkerlin Hoeflich, W. Hamilton, T.E. Lacher, Jr., T. Linton, T. Peterson, and P. Thompson, (CoPIs) - **\$15,000.00**

1998 Texas Agricultural Experiment Station Faculty Research Development Program. "Infrastructure Development: Equipment Funds for Enhanced GIS Capabilities for Faculty and Students." K. Risenhoover (PI) and T.E. Lacher, Jr. (CoPI) - **\$20,000.00**

Texas Agricultural Experiment Station Water Resources Institute Project. "Ecological, Economic, and Policy Impacts of Commodity Price Support Reduction on Texas Rice-Wetlands." Research team: A. Vedlitz, R. Woodward, R.D. Slack, and T.E. Lacher, Jr. - **\$77,469.00**.

Texas Agricultural Experiment Station Faculty Research Development Program. "Maintenance of Biodiversity using a Model with Integrated Multiple Land Use Objectives." T.E. Lacher, Jr. (PI), R.D. Slack, and M. Messina (CoPIs) - **\$40,800.00**

The Nature Conservancy. "Ecology and Management of Bat Communities using Cave Features on Ft. Hood Military Base." T.E. Lacher, Jr. (PI) - **\$60,567.85**.

U.S. Geological Survey. "Exposure and Effects of New Generation Insecticides on Mexican Free-Tailed Bat Populations." T.E. Lacher, Jr. (PI), D. Clark, USGS Project Officer - **\$15,500.00**.

1999 U.S. Geological Survey. "Research on Endocrine Disruption and Pesticide Exposure in the Rio Grande Leopard Frog in Texas." T.E. Lacher, Jr. (PI), D. Clark, USGS Project Officer - **\$50,000.00**.

U.S. Geological Survey. "Exposure and Effects of New Generation Insecticides on Mexican Free-Tailed Bat Populations." Second year renewal. T.E. Lacher, Jr. (PI), D. Clark, USGS Project Officer - **\$15,500.00**.

Renewable Resources Extension Act. "Developing Information Systems to Support Land Use Decisions at the Local Level." N. Wilkins (PI), C. Watt, T.E. Lacher, Jr., and M. Messina (CoPIs) - **\$90,000.00**.

2000 Margot Marsh Biodiversity Foundation/Conservation International, "Conservation of the Dwarf Marmoset, *Callithrix humilis*: Ecology, Behavior and Distribution in an Amazonian Mosaic." T.E. Lacher, Jr. (PI) - **\$3,000.00**.

National Science Foundation – Research Experiences for Undergraduates, "Undergraduate Research in Biodiversity and Ecological Processes in Fluctuating Environments." R.L. Honeycutt and J.S. Bonner (PIs), R. Autenreith, T.E. Lacher, Jr., and D.L. Roelke, (CoPIs) - **\$194,385.00**.

National Science Foundation, "Biocomplexity, Incubation Activity: Applications of Mathematical Methods and Scientific Computation to Complex Ecological Problems." P. Lima Filho (PI), T.E. Lacher, Jr., M.S. Pilant, P.F. Stiller, and J.R. Walton (CoPIs) - **\$96,918.00.**

Center for Applied Biodiversity Science, Conservation International. "Research support for monitoring and assessment of biodiversity in the Neotropics." T.E. Lacher, Jr. (PI) - **\$106,514.00.**

U.S. Geological Survey. "The Role of Pesticides in the Decline of Amphibians in the Sierra Nevada Mountains." T.E. Lacher, Jr. (PI) - **\$27,000.00.**

Chicago Zoological Society. "Small Mammal Community Patterns in El Cielo Biosphere Reserve." T.E. Lacher, Jr. (PI) - **\$2,117.00.**

2001 U.S. Geological Survey. "The Role of Pesticides in the Decline of Amphibians in the Sierra Nevada Mountains." Second year renewal. T.E. Lacher, Jr. (PI) - **\$38,600.00.**

2002 U.S. Geological Survey. "The Role of Pesticides in the Decline of Amphibians in the Sierra Nevada Mountains." Supplemental funding. T.E. Lacher, Jr. (PI) - **\$7,500.00.**

U.S. Geological Survey. "The Role of Pesticides in the Decline of Amphibians in the Sierra Nevada Mountains." Supplemental funding. T.E. Lacher, Jr. (PI) - **\$4,050.00.**

2003 U.S. Geological Survey. "The Role of Pesticides in the Decline of Amphibians in the Sierra Nevada Mountains." Supplemental funding. T.E. Lacher, Jr. (PI) - **\$10,350.00.**

2007 National Science Foundation. "IGERT: Applied Biodiversity Science – Bridging Ecology, Culture, and Governance for Effective Conservation in the Americas." L. Fitzgerald, (PI), U. Kreuter, T.E. Lacher, Jr., A. Stronza, and K. Winemiller (CoPIs) - **\$3,002,038.00**

Matching Support and Fundraising,

1984 Received an IBM Computer and associated hardware from the Department of Computer Science of Western Washington University to develop software for instruction in Ecology.

1988 Awarded a paid academic quarter research leave from the Bureau of Faculty Research of Western Washington University to participate in a study on mammalian ecology in the savanna-tropical forest transition zone in central Brazil.

Invited visiting scientist on the project "Patterns of species interactions and microhabitat selection in a savanna-forest contact zone in Brazil," Brazilian National Research Council and Centrais Eletricas do Norte do Brasil (ELETRONORTE) - International travel and all in-country research and living expenses.

Articulated a cooperative agreement between Huxley College of Environmental Studies, Western Washington University and the Mt. Baker Ranger District of the Mt. Baker-Snoqualmie National Forest to support graduate student research in wildlife ecology on Forest Service lands. Agreement to support two MS students per year (salary and research expenses) for an indefinite period. I placed three students under Forest Service support while at Western Washington University.

1989-1996 Donations of supplies, equipment, and matching support to the Archbold Tropical Research Center from: Smithsonian Institution Museum of Natural History, the USDA Forest Service, the National Park Service, Springs Industries, Inc., Beacon Manufacturing Company, the Monsanto Agricultural Company, Quaker State Corporation, Dr. Frank Woods, Mr. Walter B. Cook, Ms. Elizabeth Fuller, the Estate of John D. Archbold, and supporters of the late John D. Archbold.

2002 Gordon and Betty Moore Foundation, awarded to Conservation International. "Centers For Biodiversity Conservation; Tropical Ecology Assessment and Monitoring Initiative to establish Scientific Field Stations; and Global Conservation Fund." I was a collaborating senior research fellow and co-writer on the Tropical Ecology, Assessment and Monitoring (TEAM) Initiative component to establish Scientific Field Stations and was hired by Conservation International as founding director of the program- Total funding over 10 years for full project \$261,000,000.00 and funding for the TEAM component is **\$40,000,000** over 10 years.

2005 Gordon and Betty Moore Foundation, awarded to Conservation International, "Advancing Marine Protected Areas Science." T.E. Lacher, Jr., R. McManus and G. Fonseca (Grant Team) - **\$12,540,000.00** over 5 years.

Gordon and Betty Moore Foundation, awarded to Conservation International, Center for Applied Biodiversity Science. Special FY06 allocation of support to the Center for Applied Biodiversity Sciences. - **\$2,162,000.00.**

Gordon and Betty Moore Foundation, awarded to Conservation International, Center for Applied Biodiversity Science. Core support funding reprogramming replace allocations previously from the Moore Family Foundation. - **\$4,236,000.00** over 2 years.

FarWorks, awarded to Conservation International, Center for Applied Biodiversity Science, Wildlife Trade Program, "Taking the Profit out of the Illegal Asian Wildlife Trade." - **\$1,999,902.00** over 2 years (final amount contingent upon calendar sales).

2006 Gordon and Betty Moore Foundation, awarded to Conservation International, Center for Applied Biodiversity Science. Core funding support for operations and research to the Center for Applied Biodiversity Sciences. - **\$23,200,000.00** over 4 years.

2007 Eric & Susan Kern Estate, for the Department of Wildlife and Fisheries Sciences. Estate gift for coastal wildlife & habitat preservation, **\$1,700,000.00**.

The Brittingham Conservation Foundation, for the Cliff W. Spencer '98 Scholarship Fund, for students in the Department of Wildlife and Fisheries Sciences, **\$25,000.00**.

Total grants, contracts and fundraising: **\$93,988,455.39**

PRESENTATIONS

Contributed Papers and Posters/Abstracts

- 1980 VIIIth International Congress of Primatology, Italy (co-author).
60th Annual Meeting of the American Society of Mammalogists, University of Rhode Island (co-author).
VII Congresso Brasileiro de Zoologia, Mossoró, RN, Brazil (co-author).
- 1981 VIII Congresso Brasileiro de Zoologia, Brasília, DF, Brazil (1st author).
61st Annual Meeting of the American Society of Mammalogists, Miami University (one 1st author and one co-author).
- 1982 62nd Annual Meeting of the American Society of Mammalogists, Brigham Young University (1st author).
- 1983 44th Annual Meeting of the Association of Southeastern Biologists, University of Southwestern Louisiana (co-author).
- 1984 64th Annual Meeting of the American Society of Mammalogists, Humboldt State University (one 1st author and one co-author).
XI Congresso Brasileiro de Zoologia, Belem, PA, Brazil, (1st author).
1st Annual Meeting of the Pacific Northwest Association of Toxicologists, Seattle, WA, (co-author).
- 1985 6th Annual Meeting of the Society of Environmental Toxicology and Chemistry-Wildlife Toxicology Symposium, St. Louis, MO, (2 co- authored papers).
- 1987 67th Annual Meeting of the American Society of Mammalogists, University of New Mexico (first author).
First International Symposium on Latin American Mammalogy, Cancun, Quintana Roo, Mexico (first author).
8th Annual Meeting of the Society of Environmental Toxicology and Chemistry-- Wildlife Toxicology Symposium, Pensacola, Florida (co-author).
- 1988 68th Annual Meeting of the American Society of Mammalogists, Clemson University (one first author, one co-author).
9th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Washington, D.C. (co-author).
- 1989 Annual Meeting of The Wildlife Society, Oregon and Washington Chapters, Hood River, Oregon (co-author).
69th Annual Meeting of the American Society of Mammalogists, University of Alaska, Fairbanks (first author).
6th Annual Meeting of the Pacific Northwest Association of Toxicologists, Vancouver, B.C., Canada (co-author).
- 1990 11th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Arlington, VA (co-author).
- 1991 71st Annual Meeting of the American Society of Mammalogists, Kansas State University (first author).
12th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Seattle, WA (co-author).

- 1992 72nd Annual Meeting of the American Society of Mammalogists, University of Utah, Salt Lake City (first author).
13th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Cincinnati, OH (first author).
- 1993 73rd Annual Meeting of the American Society of Mammalogists, Western Washington University, Bellingham (first author).
- 1994 74th Annual Meeting of the American Society of Mammalogists, Smithsonian Institution, Washington, DC (first author).
15th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO (co-author).
- 1995 75th Annual Meeting of the American Society of Mammalogists, University of Vermont, Burlington, VT (speaker and participant in round table discussion).
2nd World Congress of the Society of Environmental Toxicology and Chemistry, Vancouver, BC, Canada (one first author, one co-author).
- 1996 76th Annual Meeting of the American Society of Mammalogists, University of North Dakota, Grand Forks, ND (first author).
- 1997 7th International Theriological Congress, Acapulco, Mexico (co-author).
- 1998 Annual meeting of the Texas Chapter of the Wildlife Society, Corpus Christi, TX (co-author).
Annual Meeting of the Raptor Research Foundation, Ogden, UT (co-author).
International Society of Ecological Economics Fifth Biennial Meeting, Beyond Growth: Policies and Institutions for Sustainability, Santiago, Chile. (co-author)
- 1999 Annual meeting of the Texas Chapter of the Wildlife Society, Amarillo, TX (co-author).
79th Annual Meeting of the American Society of Mammalogists, University of Washington, Seattle, WA (first author).
Annual Meeting of The Wildlife Society, Austin, TX (2 co-author).
World Marine Mammal Conference, Maui, HA (co-author).
Annual Meeting of The American Chemical Society, New Orleans, LA (co-author).
9th National Extension Wildlife, Fisheries, and Aquaculture Conference, Portland, OR (co-author).
- 2000 Annual conference of the Association of American Geographers, Pittsburgh, PA, (co-author).
Annual Meeting of the Society for Conservation Biology, Missoula, MT (co-author).
Annual Meeting of The Wildlife Society, Nashville, TN (2 co-author).
Annual Meeting of the Society of Wetland Scientists, Quebec, Canada (co-author).
- 2001 Annual Meeting of the Western Section, The Wildlife Society, Sacramento, CA (co-author).
Annual Meeting of the Society for Conservation Biology, Hilo, Hawaii (co-author).
Annual Graduate Student Wildlife Symposium, College Station, TX (co-author).
Annual Meeting of The Wildlife Society, Reno, NV (2 co-authors).
- 2002 Annual Meeting of the Association for Tropical Biology, Symposium on Tropical Forests: Past, Present, Future, Panama City, Panama (first author).
Annual Meeting of the Society for Environmental Toxicology and Chemistry, Salt Lake City, UT (co-author).
XIX Congress of the International Primatological Society, Beijing, China (co-author).
ASTM Symposium on Multiple Stressor Effects in Relation to Declining Amphibian Populations (co-author).
- 2003 US EPA Regional Meeting, San Francisco, CA (co-author).

- 2004 Annual Meeting of the Association for Tropical Biology, Miami, FL (co-author).
VII Congreso Nacional de Mastozoología, San Cristóbal de Las Casas, Chiapas (co-author).
- 2005 International Biogeography Society 2005 meeting. "Conservation Biogeography." Shepherdstown, West Virginia (co-author).
Annual Meeting of the Society for Environmental Toxicology and Chemistry, Baltimore, MD (co-author).
Annual Meeting of the American Society of Mammalogists, Springfield, Missouri (2 co-authored papers).
Annual Meeting of the Society for Conservation Biology, Brasilia, Brazil (co-author).
Annual Meeting of the Association for Tropical Biology, Symposium on Floristics in the Western Hemisphere, Uberlândia, Brazil (co-author).
Annual Meeting of the American Society of Ichthyologists and Herpetologists, Tampa, FL (co-author).
- 2006 Annual Meeting of the American Society of Mammalogists, Amherst, Massachusetts (co-author).
- 2007 Annual Meeting of the American Society of Mammalogists, Albuquerque, NM (1 first author, 1 co-author).

Presentations at Home Institution, Departments/Workshops, and Civic Groups

- 1981-1989: Western Washington University - Department of Biology (2 times), Sigma Xi- Bureau for Faculty Research Seminar (4 times), Washington Agriculture and Forestry Education Foundation (4 times); Washington Native Plant Society.
- 1989-1996: Clemson University - Numerous university departments, civic groups, elementary schools, and garden clubs, Department of Biological Sciences Seminar, Governor's School for Science and Math, Hartsville, SC (2 times), Environmental Policy Workshop on Sustainable Development, Department of Environmental Toxicology.
- 1996-2002: Texas A&M University - Society for Conservation Biology, Department of Rangeland Ecology and Management, Department of Wildlife and Fisheries Sciences Seminar series (3 times), The Hispanic Lecture Series.
- 2007 – present: Texas A&M University - The Wildlife Society, Western Conclave keynote address; student chapter of The Wildlife Society.

Invited Papers

- 1978 "A quantitative analysis of aggressive behavior in two species of coexisting rodents from northeastern Brazil." Presented at the National Zoological Park, Smithsonian Institution, Washington, D.C.
- 1981 "The utilization of observations on wild populations of primates in the organization and maintenance of breeding colonies." Presented (*in Portuguese*) at the III Symposium of the Brazilian Society of Primatology in Brasília, Brazil.
- "Perspectives for behavioral research in South America." Presented at the Conference on South American Mammalian Biology at the Pymatuning Laboratory of Ecology, University of Pittsburgh, Linesville, PA.
- "The comparative social behavior of two species of sympatric Neotropical rodents." Presented at Miami University of Ohio, Texas Tech University and Western Washington University.
- 1984 "Social spacing in small mammals: the role of individual variation." Co-author on presentation by M.A. Mares at American Society of Zoologists' Symposium "Territoriality: Conceptual Advances in Field and Theoretical Studies," in Denver.
- 1985 "The structure of Neotropical mammal communities: an appraisal of current knowledge." Presented at the Symposium "Ecology of Neotropical Mammals," at the Fourth International Theriological Congress in Edmonton, Canada.
- "Optimal foraging and nutrient constraints." Presented at the University of Oklahoma, Department of Zoology series.
- 1987 "Ecological relationships, modeling, and environmental pollution." Presented at U.S. Fish and Wildlife Service sponsored "Wildlife Toxicology: A Continuing Education Workshop" organized by Institute of Wildlife Toxicology, Huxley College of Environmental Studies, Western Washington University.
- 1988 "Research perspectives in wildlife ecology in the Pantanal." Presented (*in Portuguese*) to the Centro de Pesquisa Agropecuária do Pantanal-EMBRAPA, Corumbá, MS, Brazil.
- "Methods for the analysis of microhabitat selection: examples with Cerrado mammals." Presented (*in Portuguese*) to the Instituto de Biologia, Universidade de Brasília, Brasília, DF, Brazil.
- 1990 "Conserving biological diversity through cooperative training programs." Presented at the Second International Symposium of

Latin American Mammalogy, Buenos Aires, Argentina.

"Conservation and environmental problems in the Brazilian Pantanal." Presented (*in Portuguese*) at the Second International Symposium of Latin American Mammalogy, Buenos Aires, Argentina.

"Univariate and multivariate approaches to the analysis of ecotoxicological data." Presented (co-author, by M. Willig) at the symposium on "The Population Ecology and Wildlife Toxicology of Agricultural Pesticide Use: a Modeling Initiative for Avian Species." Kiawah Island, SC.

1992 "The Archbold Tropical Research Center and research in tropical ecology and conservation." Presented (*in Portuguese*) to the Centro de Pesquisa Agropecuária do Pantanal-EMBRAPA, Corumbá, MS, Brazil.

"The developing role of Departments of Wildlife, Fisheries, and Range Science in land grant universities." Presented to Department of Wildlife and Range Science, University of Florida.

"Gap analysis mapping of diversity of biological resources." Co-author on presentation by C. Vaughan at the USAID Program for Science and Technology Cooperation Networking Meeting in August, Honolulu, Hawaii.

"The application of a proven GIS technique in a new setting: prospects for gap analysis in Costa Rica. Co-author on presentation by B. Savitsky at Twelfth Annual Meeting of the International Association for Impact Assessment, August, Washington, DC.

1993 "Patterns and processes in mammalian community structure and latitudinal diversity gradients." Presented to the Department of Biology, University of Tulsa, Tulsa, Oklahoma.

"Academia and government: cooperation in the Caribbean Basin." First author on presentation by R. Wagenseil at the Association for Tropical Biology Annual Meetings, June, San Juan, Puerto Rico.

"Mammalian communities in the principal South American ecosystems." Presented (*in Spanish*) at the Taller Internacional de Mamíferos Neotropicales, May, Panama City, Panama.

"The AMISCONDE Initiative: restoration, conservation, and development in the La Amistad Buffer Zone." Presented at the Paseo Pantera Workshop, International Wildlife Management Congress, September, San José, Costa Rica.

"The AMISCONDE Initiative: restoration, conservation, and development in the La Amistad Buffer Zone." Presented (*in Portuguese*) at the international conference, On Common Ground: Interdisciplinary Approaches to Biodiversity Conservation and Land Use Dynamics in the New World, December, Belo Horizonte, Brazil.

1994 "Conservation biology and environmental risk assessment." Presented at the regional symposium, A Watershed Approach to Ecological Risk Assessment, January, Savannah, Georgia.

"Environmental and economic approaches to the conservation of tropical biota." Presented (*in Spanish*) to banana grower's representatives and to audience of government, conservation groups, and the media. March, San José, Costa Rica.

"GIS/remote sensing research activities on the humid tropics at Clemson University." Presented at the Landsat Pathfinder Meeting, May, Washington, DC.

1995 "The AMISCONDE Initiative: conservation, restoration, and sustainable development in tropical montane watersheds." Presented to the Environmental Studies Program, University of Kansas, January, Lawrence, Kansas.

"Basic and Applied Approaches in Population Biology at Different Ecological Scales." Presented to the Department of Zoology, Oklahoma State University, March, Stillwater, Oklahoma.

"New Trends in Ecology." *Keynote address* presented (*in Portuguese*) at the VI Congresso Nordestino de Ecologia, September, João Pessoa, Brazil, sponsored by the United States Information Agency. Also presented (*in Portuguese*) at the Núcleo de Altos Estudos Amazônicos, Universidade Federal do Pará, October, Belém, Brazil, and the Centro de Ciências do Ambiente, Universidade do Amazonas, October, Manaus, Brazil, both sponsored by the United States Information Agency.

1996 "Wildlife Conservation in the Neotropics: Integrating Sustainable Development and Landscapes." Presented to the Department of Wildlife and Fisheries Sciences, Texas A & M University, March, College Station, Texas.

"Multidisciplinary Approaches in Population Ecology and Conservation Biology." Presented to the Department of Biological Sciences and the Institute for Environmental Sciences, Texas Tech University, April, Lubbock, Texas.

"Wildlife Conservation in the Neotropics: Integrating Sustainable Development and Landscapes." Presented to the Caesar Kleberg Wildlife Research Institute, Texas A & M University - Kingsville, December, Kingsville, Texas.

- 1997 "Integrating Rural Economic Development and Conservation in the Tropics: The AMISCONDE Initiative." Presented to Texas Parks and Wildlife Division, April, Austin, Texas.
- "Ecological and Behavioral Diversification in the Hystricognathi: A New World-Old World Comparison." Presented at the symposium on Evolution and Biology of Old World and New World Hystricognath Rodents, Seventh International Theriological Congress, September, Acapulco, Mexico.
- 1998 "Mammals of Brazilian Semi-arid Ecosystems: Ecology, Biodiversity and Conservation." Presented at the symposium on Diversity and Conservation of Brazilian Mammals, Euro-American Mammal Congress, July, Santiago de Compostela, Spain.
- 2001 "Leveraging Science for Global Biodiversity Monitoring." Keynote address presented at the Biodiversity Monitoring Symposium, Conservation International Annual Meeting, April, Washington, DC.
- "Mammalian Range Sizes in South America: Human Disturbance and Risk of Extinction." Presented at the symposium on Effects of Natural and Man-Made Disturbances on Mammal Populations, Eighth International Theriological Congress, August, Sun City, South Africa.
- "Field Station-based Monitoring of Tropical Biodiversity at Conservation International." Presented at the special meeting on the Biosphere Reserve Integrated Monitoring Programme of UNESCO, September, Rome, Italy.
- "A Global Network of Field Stations for Assessing and Protecting Biodiversity." Presented at the Scientific Advisory Committee on Global Site Monitoring Networks, Data and Databases meeting, October, Boston, Massachusetts.
- "A Global Network of Field Stations for Assessing and Protecting Biodiversity." Presented at The Institute for Environmental and Human Health, Texas Tech University, October, Lubbock, Texas.
- 2002 "The TEAM Initiative: Establishing a Field Station Based Monitoring Network for Tropical Forest Biodiversity." Presented at the LTER-EMAN International Symposium: Role of monitoring, indicators and research in developing and implementing sustainable ecosystem management, April, Chateau Cartier Resort, Quebec.
- "Monitoring Biodiversity through Field Stations: Tropical Ecology, Assessment and Monitoring Initiative (TEAM)." Presented at the workshop Empowering Basic and Applied Conservation Research and Action from Large-Scale, Long-Term Plots in the Neotropics, North American Ornithological Conference, September, New Orleans, LA.
- "Monitoramento de Biodiversidade Através de Estações Ecológicas: Tropical Ecology, Assessment and Monitoring Initiative (TEAM)." Presented (*in Portuguese*) at the Estação Científica Ferreira Penna of the Museu Goeldi, November, Para State, Brazil.
- 2003 "Monitoramento de Biodiversidade Através de Estações Ecológicas: Tropical Ecology, Assessment and Monitoring Initiative (TEAM)." Presented (*in Portuguese*) at the Instituto Nacional de Pesquisas da Amazônia, January, Amazonas State, Brazil.
- "Monitoring Biodiversity through Field Stations: Tropical Ecology, Assessment and Monitoring Initiative (TEAM)." Presented at the offices of Conservation International-Suriname to representatives of the scientific, NGO, and government communities and also to a group of university students, February, Paramaribo, Suriname.
- "TEAM data management protocol." Presented at the Biodiversity Informatics for Conservation workshop at the National Center for Ecological Analysis and Synthesis, April, Santa Barbara, California.
- "Monitoring Biodiversity through Field Stations: Tropical Ecology, Assessment and Monitoring Initiative (TEAM)." Presented (*in Spanish*) to the Spanish language OTS class at Los Amigos Research Station, May, Los Amigos Conservation Area, Peru.
- "Standardized data in long-term monitoring of tropical forests: the TEAM Initiative." Presented (by P. Batra) at the workshop Networks in Tropical Ecology at the Annual Meeting of the Association for Tropical Biology and Conservation, July, Aberdeen, Scotland.
- "Data sharing and the importance of standard metadata." Presented at the workshop Networks in Tropical Ecology at the Annual Meeting of the Association for Tropical Biology and Conservation, July, Aberdeen, Scotland.
- "Monitoring biodiversity in the global system: the TEAM model." Plenary presented at the workshop Building Comprehensive Protected Area Systems at the World Parks Congress, September, Durban, South Africa.
- "Monitoring biodiversity in the global system: the TEAM model." Presented at the Botanical Research Institute of Texas, September, Ft. Worth, Texas.
- "The TEAM Initiative: Perspectives for Suriname." Presented at the Workshop for the Central Suriname Nature Reserve Monitoring Plan, November, Paramaribo, Suriname.
- "Long-Term Monitoring of Tropical Forests: Networks, Data Standardization, and Information Sharing." Presented at the University of California at Davis Department of Evolution and Ecology seminar series, December, Davis, California.

2004 "IT Future at CABS: Becoming an Information Portal for Biodiversity." Presented at the Conservation International Information Management Meeting, February, Washington, DC.

"The Center for Applied Biodiversity Science: Overview of Structure and Research Capability." Presented at the Symposium on Conservation Science, Conservation International Annual Planning Meeting, April, Washington, DC.

"Monitoring biodiversity in a global network: the TEAM Initiative model". Presented at the Simpósio Internacional Projetos Ecológicos de Longa Duração, July, Manaus, Brazil.

"How do NGOs do Conservation Biology? Conservation International as a Case Study." Department of Environmental Sciences, Conservation Biology seminar, October, University of Virginia, Charlottesville, VA.

2005 "The Tropical Ecology Assessment and Monitoring (TEAM) Initiative: Understanding the Future of Biodiversity through a Global Scientific Network." Poster presented at Subsidiary Body on Scientific, Technical and Technological Advice - SBSTTA-10 meeting "Working together for biodiversity: regional and international initiatives contributing to achieving and measuring progress towards the 2010 target." February, Bangkok, Thailand.

"Cranial Morphology of Callitrichid Genera: Variability and Diversification." J.M. Aguiar and T.E. Lacher, Jr. Invited poster presented at "Advances in Marmoset and Goeldi's Monkey (Callimico) Research: Anatomy, Behavioral Ecology, Phylogeny, and Conservation." American Association of Physical Anthropologists Meeting, April, Milwaukee, WI.

"How do NGOs do Conservation Biology? Conservation International as a Case Study." Guest lecture at the School for International and Public Affairs, June, Columbia University, New York, New York.

"Padrões e Processos em Ecologia e Conservação: Uma Questão de Escala." *Keynote address* presented (*in Portuguese*) at the III Congresso Brasileiro de Mastozoologia, October, Vitória, Brazil.

2006 "How do NGOs do Conservation Biology? Conservation International as a Case Study." Guest lecture at the School for International and Public Affairs, August, Columbia University, New York, New York.

"Research, Teaching and Extension: The Land Grant Mission in a Global Intellectual Marketplace." September, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX.

"Conservation Science, Planning, and Prioritization in the NGO and Academic Worlds" Department of Environmental Sciences, Conservation Biology seminar, September, University of Virginia, Charlottesville, VA.

"Conservation Science, Planning, and Prioritization in the NGO and Academic Worlds" Department of Biology seminar series, September, University of Central Florida, Orlando, FL.

2007 "Summary and Synthesis" Evolutionary Change in Human-Altered Environments: An International Summit, February, Institute of the Environment, UCLA, Los Angeles, CA.

"Research Update: Department of Wildlife and Fisheries Sciences at Texas A&M University." Wildlife 2007: Texas Wildlife Association's 22nd Annual Convention, June, San Antonio, TX.

"Transboundary Conservation on the US-Mexico Border: The Big Bend-Carmen Conservation Corridor." Presented (*in Spanish*) October, II Congresso Latinoamericano de Parques Nacionales y Otras Áreas Protegidas, Bariloche, Argentina.

"Conservation Science, Planning, and Prioritization in the NGO and Academic Worlds" Department of Marine Biology seminar series, November, Texas A&M University-Galveston, Galveston, TX.

"Marine mammal, industrial, environmental, research, and native concerns: More agreement than disagreement, and a way forward." Co-author with presenter Bernd Würsig, Keynote address, Society of Marine Mammalogy, November, Cape Town, South Africa.

PUBLICATIONS AND TECHNICAL/INSTRUCTIONAL REPORTS

Monographs, Books, and Edited Volumes

- Lacher, T.E., Jr. 1981. The comparative social behavior of *Kerodon rupestris* and *Galea spixii* and the evolution of behavior in the Caviidae. **Bulletin of the Carnegie Museum** 17:1-71.
- Kendall, R.J., L.W. Brewer, T.E. Lacher, Jr., B.T. Marden, and M.L. Whitten. 1989. *The use of starling nest boxes for field reproductive studies: provisional guidance document and technical support document*. EPA/600/8-89/056. National Technical Information Services publication number: PB89 195 028/AS, i-vii + 82 pp.
- Kendall, R.J. and T.E. Lacher, Jr. (eds.). 1994. *Wildlife Toxicology and Population Modeling: Integrated Studies of Agroecosystems*. (Special publication series, Society of Environmental Toxicology and Chemistry), Lewis Publishers, Chelsea, MI, 576 pp.
- Lacher, T.E., Jr. and R.J. Kendall (eds.). 1997. Annual Review Issue: Tropical Ecotoxicology. **Environmental Toxicology and Chemistry** 16(1), 118 pp.
- Savitsky, B.G. and T.E. Lacher, Jr. (eds.). 1998. *GIS Methodologies for Developing Conservation Strategies: Tropical Forest Recovery and Wildlife Management in Costa Rica*. Columbia University Press, New York, 237pp.
- Alston, L.T., T.E. Lacher, Jr., R.D. Slack, A. Vedlitz, R.T. Woodward, J.C. Franklin, N. Canzoneri, A.A. Torres Conkey, D.F. Cowman, J. Harris, A. Henry, E. Kennedy, M. Krohn, K. Mizell, J. Nicholson, K. Tierce, and Yong-Suhk Wui. 2000. *Ecological, Economic and Policy Alternatives for Texas Rice Agriculture*. A report by the Institute for Science, Technology, and Public Policy in the George Bush School of Government and Public Service to the Texas Water Resources Institute/Agricultural Program, Texas A&M University System (TWRI Report TR-181, 160 pp., order from twri@twri.tamu.edu).

Journal Articles, Book Chapters, Published Contributions, On-Line Publications, and Published Maps

- Mares, M.A., M.D. Watson and T.E. Lacher, Jr. 1976. Home range perturbations in *Tamias striatus*: Food supply as a determinant of home range and density. **Oecologia** 25:1-12.
- Lacher, T.E., Jr. 1979. Rates of growth in *Kerodon rupestris* and an assessment of its potential as a domesticated food source. **Papeis Avulsos do Museu de Zoologia, São Paulo** 33:67-76.
- Mares, M.A., R. Adams, T.E. Lacher, Jr. and M.R. Willig. 1980. Home range dynamics in chipmunks: responses to experimental manipulation of population density and distribution. **Annals of the Carnegie Museum of Natural History** 49:193-201.
- Fonseca, G.A.B. da, T.E. Lacher, Jr., C. Alves, Jr. and B. Magalhães-Castro. 1980. Ecological aspects of free-living *Callithrix jacchus penicillata*. **Antropologia Contemporanea** (VIII Intern. Congr. of Primatology) 3:197.
- Lacher, T.E., Jr., G.A.B. da Fonseca, C. Alves, Jr., and B. Magalhães-Castro. 1981. Exudate-eating, scent-marking and territoriality in wild populations of marmosets. **Animal Behaviour** 29:306-307.
- Mares, M.A., M.R. Willig, K.E. Streilein and T.E. Lacher, Jr. 1981. The Mammals of Northeastern Brazil: a preliminary assessment. **Annals of the Carnegie Museum of Natural History** 50:81-137.
- Vitt, L.J. and T.E. Lacher, Jr. 1981. Behavior, habitat, diet and reproduction of the Iguanid lizard, *Polychrus acutirostris*, in the Caatinga. **Herpetologica** 37:53-63.
- Lacher, T.E., Jr. 1982. Behavioral research in South America, Pp. 209-230. **In: Mammalian Biology in South America**, M.A. Mares and H.H. Genoways, eds. Special Publication Series, Vol. 6, Pymatuning Laboratory of Ecology, University of Pittsburgh Press, Pittsburgh, PA, 539 pp.
- Mares, M.A., T.E. Lacher, Jr., M.R. Willig, R. Adams, N.A. Bitar, A. Klinger and D. Tazik. 1982. An experimental analysis of social spacing in *Tamias striatus*. **Ecology** 63:267-273.
- Lacher, T.E., Jr. M.R. Willig and M.A. Mares. 1982. Food preference as a function of resource abundance with multiple prey types: An experimental analysis of optimal foraging theory. **American Naturalist** 120:297-316.
- Lacher, T.E., Jr. 1982. Contributing author. **In: Mammal Species of the World: A Taxonomic and Geographic Reference**. J.H. Honacki, K.E. Kinman and J.W. Koepl, eds. Allan Press, Inc. and the American Systematics Collections, Lawrence, KS.
- Lacher, T.E., Jr., G.A.B. da Fonseca, C. Alves, Jr., and B. Magalhães-Castro. 1984. Parasitism of trees by marmosets in a central Brazilian gallery forest. **Biotropica** 16:202-209.
- Fonseca, G.A.B. da and T.E. Lacher, Jr. 1984. Exudate-feeding by *Callithrix jacchus penicillata* in semideciduous woodland (Cerradão) in central Brazil. **Primates** 25:441-450.

- Redford, K.H., G.A.B. da Fonseca and T.E. Lacher, Jr. 1984. The relationship between frugivory and insectivory in primates. **Primates** 25:433-440.
- Lacher, T.E., Jr. 1984. The Cavies. Pp. 690-693, **In: *Encyclopedia of Mammals***, D. MacDonald, ed., Facts on File, Inc., New York, NY, 960 pp.
- Mares, M.A., M.R. Willig, and T.E. Lacher, Jr. 1985. The role of the Brazilian Caatinga in South American biogeography: Tropical mammals in an arid zone. **Journal of Biogeography** 12:57-69.
- Galindo, J., R.J. Kendall, C. Driver, and T.E. Lacher, Jr. 1985. The effect of Methyl Parathion on the susceptibility of bobwhite quail (*Colinus virginianus*) to domestic cat predation. **Behavioral and Neural Biology** 43:21-36.
- Lacher, T.E., Jr., I. Egler, C.J.R. Alho, and M.A. Mares. 1986. Termite community composition and mound characteristics in two grassland formations in Central Brazil. **Biotropica** 18:356-359.
- Lacher, T.E., Jr., and M.A. Mares. 1986. The structure of Neotropical mammal communities: An appraisal of current knowledge. Proceedings of the Symposium "Ecology of Neotropical Mammals," IV International Theriological Congress. **Revista Chilena de Historia Natural** 59: 121-134.
- Lacher, T.E., Jr., C.J.R. Alho, Z.M.da Silva Campos and H.C. Gonçalves. 1986. Densidades y preferencias de microhabitat de los mamíferos en la Hacienda Nhumirim, sub-region Nhecolândia, Pantanal del Mato Grosso del Sur. **Ciencia Interamericana** 26:30-38.
- Lacher, T.E., Jr., C.J.R. Alho and I.G.T. Pereira. 1986. The relation between cloacal temperature and ambient temperature in five species of Brazilian turtles. **Revista Brasileira de Biologia** 46:563-566.
- Mares, M.A. and T.E. Lacher, Jr. 1987. The use of space in small mammals: Patterns of individual variation. **American Zoologist** 27:293-306.
- Alho, C.J.R., T.E. Lacher, Jr., Z.M. da Silva Campos, and H.C. Gonçalves. 1987. Mamíferos da Fazenda Nhumirim, Subregião Nhecolândia, Pantanal do Mato Grosso do Sul: I- Levantamento preliminar de espécies. **Revista Brasileira de Zoologia** 4: 151-164.
- Mares, M.A. and T.E. Lacher, Jr. 1987. Ecological, morphological and behavioral convergence in rock-dwelling mammals. Pp. 307-348, **In: *Current Mammalogy***, H.H. Genoways, ed., Vol 1. Plenum Press, New York, NY.
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