

CURRICULUM VITAE

ROBERT J. BUSCHBACHER

*Program Coordinator
Amazon Conservation Leadership Initiative*

*Interim Director
Tropical Conservation and Development Program*

*School of Forest Resources and Conservation and
Center for Latin American Studies
University of Florida*

Education

Ph.D. University of Georgia. 1984. Ecology.

B.A. Cornell University. 1976. Biology (concentration in Ecology).

Current Position

Interim Director, Tropical Conservation and Development Program.

Program Coordinator, Amazon Conservation Leadership Initiative, a \$4 Million grant from the Gordon and Betty Moore Foundation. 2005 to present. Capacity-building program for the Amazon-Andes region that includes scholarships and non-degree fellowships for study at UF, and post-docs, faculty exchanges and workshops to build the capacity of Amazon-region universities. www.sfrc.ufl.edu/ACLI

Visiting professor: Tropical Conservation and Development Program, Center for Latin American Studies, University of Florida. 2001 to present. Teach Conservation Skills courses.

Previous Position at University of Florida

2002 to 2008. Program Coordinator, Working Forests in the Tropics Program, a \$2.8 Million NSF-IGERT grant. Coordinate selection process and supervise progress for 25 PhD-plus fellowships, small grants program, international field courses and other student activities. www.sfrc.ufl.edu/WFT

Positions at WWF, January 1987 – September 2000

September 1995 - September 2000. **Conservation Program Director, WWF-Brasil.** Responsible for overseeing all program activities of WWF-Brasil, including policy and communications components. Major achievements include: improving project design and evaluation; increasing impact of field projects through multiplication, communications and policy; development and implementation of 5-year strategic plan. Tripled technical staff (to 15) and budget (to \$7 million).

January 1994 - September 1995. **Senior Program Officer**, based in Belém, Brazilian Amazon. Responsible for developing and overseeing field projects to demonstrate sustainable commercial use of natural resources, including community logging in extractive reserves of Rondônia, a community palm-heart processing plant in Amapá, and agroecological land reform settlements near Una Biological Reserve, Bahia.

April - November 1993. **Acting Vice-President for the Latin America and Caribbean Program.** Substituting my supervisor upon her sudden illness, assumed worldwide coordination of WWF's programs in Latin America, responsible for budgeting, planning, fundraising, and program design and implementation. Supervised 40 staff and a total annual budget of \$14 million.

1992 - 1993. **Director of Brazil Program.** As Director of WWF-US's largest country program, directly supervised 7 professionals, and coordinated the work of the entire WWF Network (including a field office with 7 professional staff and participation by WWF-International, WWF-UK and WWF-Sweden). Major responsibilities included strategic planning, program design, coordination and fundraising. Major accomplishments were a more cohesive and focused program strategy, decentralized administrative structure, and transfer of program oversight from Washington to Brazil (through selection of WWF's first Brazilian Country Representative).

1987 - 1992. **Director of Tropical Forestry Program.** Initiated, and directed for 5.5 years, only the second WWF program to focus on the integration of conservation with sustainable development. Responsibilities included development and implementation of field and policy projects to promote sustainable forest management; research and publication on policy issues related to tropical forest management; establishment of organizational policy on these issues; fund raising; and outreach to the public, media, government and industry. The program started with no staff or dedicated funds, and grew to a staff of five professionals and an annual budget of \$1.8 million.

Language Skills

Portuguese, professional level fluency.
Spanish, Advanced Low (ACTFL).
German, Intermediate.

Teaching Experience

Gestao Colaborativa de Sistemas Socio-Ecologicos Complexos na Amazonia Brasileira, a 360-hour Specialization Course in Mato Grosso, Brazil that consists of 4 2-week field modules and monthly online class meetings over a 2-year period. In partnership with the State University of Mato Grosso, UNEMAT. July 2010-July 2012.

Conservation Entrepreneurship: Business and Management Practices in International Environmental Conservation, a graduate course of my own creation. University of Florida Tropical Conservation and Development Program, Spring Semesters of 2002, 2003 and 2004, Fall Semester 2004, 2005, 2006; Spring Semester 2009; Fall 2010.

Impacting Conservation and Development Policy, with Jon Dain. A professional skills course of the Tropical Conservation and Development Program, University of Florida. Fall 2008.

Brazil Culture and History, a 3-credit individualized graduate reading course. Spring 2007.

Maya Forest Policy, an 80-hour graduate-level field course, co-taught with 2 graduate students and UF Professors Tom Ankersen and Grenville Barnes. Summer 2006. 14 students from 6 countries, 4 universities, 2 NGOs and 1 government agency.

Forest Policy in the Brazilian Amazon, a 100-hour graduate-level field course that was a collaborative effort of the University of Florida, Federal University of Acre, and Federal University of Pará – co-taught with UF Professors Daniel Zarin and Marianne Schmink. Summer 2004 with 13 students. A different version, located in Mato Grosso and Brasilia, was taught in Summer 2005.

Biodiversity Conservation – Global Perspectives, a non-majors undergraduate course focusing on sustainability. Wildlife Ecology and Conservation Department, University of Florida, Fall 2001 through Fall 2003. 4 semesters, average 80 students.

Conservation Biology, a graduate course. Wildlife Ecology and Conservation Department, University of Florida, Fall 2001. 16 students.

Conservation and Development in Brazil a graduate seminar course in the University of Florida Tropical Conservation and Development Program, Spring 2001.

Applied Ecology for Economists, a one-month intensive module, with lecture and field components, of the Ecology and Economics M.S. program, Chulalongkorn University, Thailand. 1997.

Lecturer on *Applied Ecology* at WWF courses: Políticas Públicas e Meio Ambiente; Economia e Meio Ambiente. 1999.

Laboratory instructor for *Introductory Biology* (190 students over 3 quarters) and *Ecological Energetics* (15 students). University of Georgia. 1978-1980.

Research Experience

1985-1986. Fulbright Fellowship at the Center for Research on the Humid Tropics, Brazilian Agricultural Research Agency (EMBRAPA-CPATU), Belém, Pará, Brasil. Investigated soil ecology and nutrient dynamics of different Amazonian land uses.

1984-1985. Co-principal investigator for Man and the Biosphere project to study ecosystem recovery following abandonment of pastures formed from Amazon rainforest in Pará, Brazil.

1980-1984. Dissertation research entitled "Changes in Productivity and Nutrient Cycling following Conversion of Amazon Rainforest to Pasture," conducted in San Carlos de Rio Negro, Venezuela.

Publications

Doctoral and post-doctoral research on Amazon pastures:

Buschbacher, R.J., C. Uhl, and E.A.S. Serrão. 1988. Abandoned pastures in eastern Amazonia. II. Nutrient stocks in the soil and vegetation. *Journal of Ecology* 76:682-699.

Uhl, C., R.J. Buschbacher, and E.A.S. Serrão. 1988. Abandoned pastures in eastern Amazonia. I. Patterns of plant succession. *Journal of Ecology* 76:663-681.

Buschbacher, R.J. 1987. Cattle productivity and nutrient cycling on an Amazon pasture. *Biotropica* 19(3): 200-208.

Buschbacher, R.J. 1986. Tropical deforestation and pasture development. *Bioscience* 36:22-28.

Uhl, C. and R.J. Buschbacher. 1985. A disturbing synergism between cattle ranch burning practices and selective tree harvesting in the eastern Amazon. *Biotropica* 17(4): 265-268.

Montagnini, F. and R.J. Buschbacher. 1989. Nitrification rates in two undisturbed tropical rain forests and three slash-and-burn sites of the Venezuelan Amazon. *Biotropica* 21:9-14.

Buschbacher, R.J., C. Uhl and E.A.S. Serrão. 1990. Reforestation of degraded Amazon pasture lands. In Mohan K. Wali, ed. *Environmental Rehabilitation*. SBP Academic Publishers, The Hague, Holland.

Buschbacher, R.J. 1987. Deforestation for sovereignty over remote frontiers. Pages 46-57 in C.F. Jordan, ed. *Amazonian Rain Forests: Disturbance and Recovery*. Springer Verlag, N.Y.

Buschbacher, R.J., C. Uhl, and E.A.S. Serrão. 1987. Large-scale development in eastern Amazonia. Pages 90-99 in C.F. Jordan, ed. Amazonian Rain Forests: Disturbance and Recovery. Springer Verlag, N.Y.

Uhl, C., D. Nepstad, R. Buschbacher, K. Clark, B. Kauffman, and S. Subler. 1990. Studies of ecosystem response to natural and anthropogenic disturbances provide guidelines for designing sustainable land use systems in Amazonia. In A. Anderson, ed. Alternatives to Deforestation: Steps toward Sustainable Use of the Amazon Rain Forest. Columbia University Press, New York.

Uhl, C. and R. Buschbacher. 1989. Ainda a ecologia: a questao das queimadas. In: Estudos e Problemas Amazonicos. Instituto do Desenvolvimento Economico-Social do Pará. Belém, Pará, Brazil.

Uhl, C., D. Nepstad, R. Buschbacher, K. Clark, B. Kauffman, and S. Subler. 1989. Disturbance and regeneration in Amazonia: lessons for sustainable land-use. *The Ecologist* 19(6): 235-240.

Uhl, C. and R.J. Buschbacher. 1988. Queimada: o corte que atraí. *Ciência Hoje* 7:24-28.

Buschbacher, R.J., C. Uhl, and E.A.S. Serrão. 1984. Forest development following pasture use in the north of Pará, Brazil. In: Proceedings of the First Symposium on the Humid Tropics, Volume 6. Empresa Brasileira de Pesquisa Agropecuaria, Belem, Pará, Brazil.

Uhl, C. and R.J. Buschbacher. 1987. Potential productive capacity of abandoned pasture lands in the Brazilian Amazon. Pages 35-36 in *People and the Tropical Forest*, U.S. Man and the Biosphere Program.

Unpublished Technical Reports:

Strategy Design for Packard Foundation's Amazon Carbon Initiative, a 3-pronged approach to reduce carbon emissions from Amazonian deforestation. With UF Professor Daniel Zarin. 2005.

External evaluation of WWF Guianas Program Sustainable Forest Resources Management Project. Team leader. 2005.

Program Strategy Document for WWF-Brazil Freshwater Conservation Program. Sole author. 2004.

External evaluation of WWF-Brazil Freshwater Conservation Program. Sole author. 2004.

Environmental Impact Assessment, for USAID, of low-impact forestry project, Awa Indigenous Territory, Ecuador. Team leader. 2002.

External evaluation of WWF-UK International Program. Included assessment of sub-program in Colombia, as well as desk review of 35 projects from Africa, Asia and Latin America. Team leader. 2001-2002.

External evaluation of Oaxaca Forest Conservation Program, WWF Mexico. Team leader. 2000.

External evaluation of Brazilian Agricultural Agency's strategic plan, at the national level (rapporteur) and for Humid Tropics Research Center (EMBRAPA - CPATU). 1992.

Environmental Assessment, for the World Bank, of Sharavathi Tailrace Hydroelectric Dam expansion and compensatory reforestation plans. Karnataka, India. Sole author. 1987.

Technical publications on sustainable resource management supervised at WWF-Brazil:

Mitraud, S. 2003. Manual de Ecoturismo de Base Comunitária: ferramentas para um planejamento responsável. WWF-Brasil. Brasília. [Sustainable Ecotourism Manual]

Mitraud, S. 2001. Uso Recreativo do Parque Nacional Marinho de Fernando de Noronha: um exemplo de planejamento e implementação. WWF-Brasil. Technical Series Number 8. [Sustainable Use Plan for a Marine National Park]

Fialho, D. 2000. Monitoring and Evaluation of Conservation and Sustainable Development Projects: an experience from Brazil. WWF-Brasil. Technical Series Number 6.

Buschbacher, R. 2000. 500 Anos de Destruição Ambiental no Brasil. WWF-Brasil. Technical Series Number 5. [Historical Analysis of Brazilian Natural Resource Use]

Lemos de Sá, R. 2000. Manejo de Fauna na Reserva Xavante Rio das Mortes, MT: cultura indígena e método científico integrados para a conservação. WWF-Brasil. Technical Series Number 4. [Sustainable Hunting Manual in an Indigenous Reserve]

Tamaio, I. and D. Carreira. 2000. Caminhos e Aprendizagens: educação ambiental, conservação e desenvolvimento. WWF-Brasil, Brasília. [Environmental Education Case Studies]

Dietz, L. and I. Tamaio. 2000. Aprenda Fazendo: apoio aos processos de educação ambiental. WWF-Brasil, Brasília. [Environmental Education Tools]

Pufal, D., R. Buschbacher and M.A. Garcia. 2000. Brazilian Cerrado Case Study, pp. 95-125 in Wood, A., P. Stedman-Edwards and J. Mang, eds. The Root Causes of Biodiversity Loss. Earthscan, London.

Buschbacher, R. 1999. Expansão Agrícola e Perda da Biodiversidade no Cerrado: origens históricas e o papel do comércio internacional. WWF-Brasil. Technical Series Number 7. [Role of Agroindustry in Biodiversity Loss of the Cerrado]

Freitas, A. 1999. ICMS Ecológico: um instrumento econômico para a conservação. WWF-Brasil, Brasília. [Analysis of a Fiscal Incentive for Conservation]

Lemos de Sá, R. and L. Ferreira. 1999. Áreas Protegidas ou Espaços Ameaçados? o grau de implementação e a vulnerabilidade das unidades de conservação federais Brasileiras de uso indireto. WWF-Brasil. Technical Series Number 3. [Sustainability Analysis of Brazil's Protected Areas]

Buschbacher, R. 1998. Manejo Florestal Comunitário na Amazônia. WWF-Brasil. Technical Series Number 2. [Documents Community-level Sustainable Forestry in the Amazon]

Rodrigues, V. 1996. Muda O Mundo, Raimundo: educação ambiental no ensino básico do Brasil. WWF-Brasil, Brasília. [Teacher's Guide for Environmental Education.

Technical publications of WWF Tropical Forestry Program:

Perl, M., G. Batmanian, R.J. Buschbacher and M. Kiernan. 1992. Views from the Forest: Natural Forest Management in Latin America. WWF, Washington, D.C.

Buschbacher, R.J. 1990. Natural forest management in the humid tropics: ecological, social and economic considerations. *Ambio* 19(5): 253-258.

Buschbacher, R.J. 1990. Ecological analysis of natural forest management in the humid tropics. Pages 59-79 in R. Goodland, ed. *Race to Save the Tropics: Ecology and Economics for a Sustainable Future*. Island Press, Washington, D.C.

Buschbacher, R.J. and C. Elliott. 1989. Forest industries: challenges and opportunities for the utilization and conservation of tropical forests. Pages 136-141 in *Mesa Redonda Internacional: Oportunidades e limitações para o desenvolvimento da indústria baseada em madeiras tropicais na América Latina*. Instituto Brasileiro de Desenvolvimento Florestal and International Tropical Timber Organization.

Buschbacher, R.J. 1987. Why don't ecologists get more respect? *The Conservation Foundation Newsletter* 1987, Number 2:2. (Reprinted in *The Environmental Professional* 9(2): 120 and the University of Georgia Institute of Ecology Intercom.)

Related Professional Activities

Presentations:

Tropilunch Seminars on Mato Grosso field courses (with Simone Athayde and Wendy-Lin Bartels): Fall 2009 and Fall 2010.

Conservation and Development Forum on Packard Foundation Amazon Carbon Initiative (with Daniel Zarin), University of Florida, 2006.

Institute of Ecology Seminar on the Applicability of Ecology Graduate Training to Professional Work in Conservation. University of Georgia. 2005.

Forestry Seminar on Innovative Graduate Education, University of Florida. 2005.

Working Forests in the Tropics Seminar on Evaluation of the WWF Guianas Forestry Program. University of Florida. 2005.

Tropilunch Seminar on Southern Bahia Agroecology Movement, University of Florida. 2004.

Botany Seminar on Brazil Protected Areas Conservation Initiative, University of Florida. 2003.

Working Forests in the Tropics seminar on Evaluation of the Awa Forestry Project. 2003.

Tropilunch Seminar on Integrated Conservation and Development Projects, University of Florida. 2002.

Invited speaker to give "An NGO view on conservation and development" to semi-annual meeting of Consultative Group on International Agricultural Research, San Juan, Puerto Rico.

Invited speaker on forestry issues at Forest '92: Second International Symposium on Environmental Studies of Tropical Rainforests, Rio de Janeiro. 1992.

Presented papers at annual meetings of the Ecological Society of America 1982 through 1987, at International Society of Tropical Ecology meetings in 1987, and at American Association for Advancement of Science annual meeting in 1990.

Presented four research seminars in Portuguese at EMBRAPA-CPATU in Belém, Brazil. 1984-1986.

Presented seminars on ecology, conservation and management of tropical forests at North Carolina State University, Rutgers University, Smithsonian Tropical Research Institute, Yale University, John Hopkins University, Universidade de Mato Grosso and Chulalongkorn University.

Sustainable Resource Use Program Design, Planning and Evaluation:

Assisted Packard Foundation in developing a \$5 million portfolio of projects aimed at reducing carbon emissions from deforestation in the Brazilian Amazon. Summer 2005 through present.

External evaluation of WWF Guianas Program Sustainable Forest Resources Management Project. Team leader. 2005.

Conducted external evaluation of WWF-Brazil Freshwater Conservation Program. 2004.
Consulted on development of original program strategy in 2001 and wrote the revised program strategy in 2004.

Team leader for external evaluation of USAID-funded Awa Forestry Project, Ecuador. 2003.

Team leader for external evaluation of WWF-UK International Program. 2002.

Consultant to WWF for preparation of Mexico Forest Conservation Program. 2001-2002.

Consultant to WWF International on developing a Program Audit function for internal monitoring of program effectiveness. 2001.

Advisor to the Carter Center on the design of a tropical forestry program. 1990.

Advisor to the University of Maryland and the University of Georgia on the development of new graduate degree programs in Conservation and Sustainable Development. 1988-89.

Participation in Sustainability-Oriented NGOs:

Advisory Board Member, Conservation Trust for Florida, 2003 – present.

Founding member and member of the Board of Directors, Instituto Internacional de Educação no Brasil (IIEB). 2000-2002.

Founding member and member of the Board of Directors, Instituto Brasil de Educação Ambiental (IBEA). 1997-2001.

Advisory Board Member for two Brazilian NGOs: IMAZON (Instituto do Homem e Natureza na Amazônia) and JUPARÁ (Assessoria Agro-ecológico Comunitário)

Founding Board Member of the Environmentor's Project, an environmentally oriented mentoring program for disadvantaged inner-city youth, Washington, D.C.

International Policy Fora on Forest Sustainability:

Representative of conservation organizations on the U.S. delegation to the International Tropical Timber Organization. 1988 to 1991 (six international meetings).

Steering Committee member for the ITTO-funded Antimari sustainable forestry research and development project. State of Acre, Brazil. 1988-1990.

Participant in Inter-American Development Bank environmental NGO consultation, Tropical Forestry Action Plan NGO consultation, World Bank forestry policy NGO consultation, PP-G7 Annual Meeting, UN Conference on Environment and Development, etc.

Invited expert at Brazilian Environment Ministry's workshop to design a Monitoring and Evaluation system for PD/A Demonstration Projects component of the Pilot Project to Conserve the Brazilian Rainforest. 1998.

Participant in Inter-governmental Panel on Climate Change technical consultation, SP, Brazil.

Presented testimony to U.S. Congress committee hearings on tropical timber imports, boycotts, and certification.

Media:

Print, television and radio spokesperson for WWF on forestry and conservation issues, including television and radio appearances in Brazil, US and Europe, and print interviews and citations in Brazil, Japan, Newsweek, New York Times, etc.

Featured guest on a one-hour Worldnet Videoconference on Tropical Rainforest Management, conducted in Portuguese and transmitted live among Washington, Brasilia, Sao Paulo and Rio de Janeiro.

Technical advisor on the documentary portion of a two-hour live television special called "Amazonia ao vivo," produced in Brazil in 1990.

Technical advisor on the preparation of Vanishing Rain Forests environmental education package produced by WWF to accompany the Smithsonian Institution exhibit, "The Tropical Rainforest: A Disappearing Treasure." 1988.

Other:

Traveled extensively throughout tropical regions, including research sites and community conservation projects in Brazil, Mexico, Venezuela, Colombia, Ecuador, Peru, Costa Rica, Panama, Dominica, Puerto Rico, India, Thailand, South Africa, Cameroon, Cote d'Ivoire, Tanzania and Kenya. 1979-present.

Participated in professional meetings and events in England, Holland, Switzerland, Germany, Italy, Sweden, Finland, Denmark, Italy, Japan, Indonesia, India, and Cote d'Ivoire.

Reviewer of proposals and publications for National Science Foundation, U.S. Agency for International Development, U.S. Man and the Biosphere program, Columbia University Press,

University of Florida Press, McGraw Hill, Forest Ecology and Management, Biotropica, Remote Sensing Reviews, etc.

Consultant to the Institute of Ecology, University of Georgia, on a proposal to assess environmental impacts of diking coastal marshes. 1985.

Attended Organization for Tropical Studies tropical ecology course in Costa Rica, 1979. Received RIAS grant for extension of course project.

Field technician, Okefenokee Swamp ecosystem study. 1978.

Environmental projects manager for EFS, a private consulting firm in Los Angeles, CA. Wrote environmental impact reports assessing energy, harbor, and commercial development. 1976-1978.

Awards and Honors

Fulbright Fellowship – the first Fulbright award ever to the UGA Institute of Ecology
University of Georgia University-wide Non-teaching Assistantship (merit-based, three years)
Cornell University - three academic scholarships
St. John's University full academic scholarship (declined)
New York State Regents' Scholarship (two)
National Merit Finalist
St. John's Preparatory School full academic scholarship
Eagle Scout – the first in Troop 139 Queens