

J. CAMPBELL PLOWDEN
Curriculum Vitae

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CAREER OBJECTIVES:

Conduct research, advocacy, and teaching related to the ecology, conservation, and management of tropical forests. Focus on strengthening indigenous and other traditional communities in the Amazon and other tropical forest regions by promoting the understanding, sustainable harvest and marketing of non-timber forest products.

EDUCATION:

Penn State University, Ph.D. Ecology, 2001. Dissertation: The Ecology, Management and Marketing of Non-timber Forest Products in the Alto Rio Guamá Indigenous Reserve (Eastern Brazilian Amazon)

University of Maryland, one year in Environmental Science Master's program, 1994; one year graduate courses, 1993

University of Pennsylvania, BA Biology, 1975

WORK HISTORY:

2010: Non-Timber Forest Product Exchange Program, Manila, Philippines; Co-evaluator (9/10-11/10)

- Member of two-person team contracted to evaluate organization and program effectiveness in three year review. Evaluation included field visits to project sites in Mindanao, Philippines and West Kalimantan, Indonesia.

2009: Penn State University, University Park, PA

Engineering Leadership Development Program, Instructor (1/09 –6/09)

-Led student trip to Peruvian Amazon and coordinated service learning based project course

2006: Center for Amazon Community Ecology, State College, PA

Founder/President/Executive Director (2/06 – present)

- Research on ecology, sustainable harvest and marketing of non-timber forest products in the Peruvian Amazon

2005: Environmental Investigation Agency, Washington, DC; Special Investigator (2/05-5/05)

- Investigated illegal logging in Honduras

2004: Amazon Watch, San Francisco, CA; Director of Research and Policy (3/04 – 12/04)

- Research, policy analysis, and advocacy related to environmental and social impacts of Peru's Camisea Gas Project

2003: Penn State University, University Park, PA

Forest Resources Cooperative Extension, Research Associate (9/03 – 9/05)

- Develop outreach materials related to forest ecology and management and community forestry

Intercollege Graduate Program in Ecology, Acting Head (6/01-6/02); Research Assistant; (9/00-6/01)

- Coordinated program, recruitment and administrative aspects of inter-college graduate program in ecology

- Supervised administrative and graduate student research assistants

- Organized faculty and student seminars and fieldtrips, alumni survey, career panel, and graduate student support.

Department of Biology, Teaching Assistant (8/00-12/00; 8/01-12/01)

- Instructor in upper-level field biology and applied ecology course

1995: Environmental Investigation Agency, Washington, DC; Special Investigator (3/95 - 7/95)

- Documented illegal sale of Sumatran tiger parts in Indonesia and surveyed tiger bone medicines in Japan

1995: Univ. of Maryland, College Park, MD; Natural Resources Management Program

Graduate Teaching Assistant (1/94 - 1/95)

- Program assistant and resource person for senior natural resource management research course

1993: Greenpeace International, Washington, DC**Tropical Forests Campaign, International Coordinator/Special Projects Manager (6/89 - 4/93)**

- Supervised project to train Indonesian environmentalists to document violations of forestry regulations (Jakarta)
- Supervised investigation of Japanese connections to deforestation in Brazil (Tokyo/Rio)
- Analyzed policies and managed database of US imports of tropical timber
- Hired and managed international staff of seven researchers and campaigners
- Documented logging in Brazil and Ivory Coast and supervised documentation of teak logging in Burma
- Supervised lobbying for revision of forest policies of World Bank and Inter-American Development Bank
- Lobbied for conservation initiatives at meetings of the International Tropical Timber Organization (ITTO)

1989: Greenpeace International, Washington, DC**Whale Campaign Coordinator (1/88 - 12/89)**

- Coordinated citizen's campaign to halt Icelandic whaling
- Coordinated Greenpeace efforts to free gray whales trapped in ice in Alaska with Soviet icebreakers

1987: The Humane Society of the US, Washington, DC; Whale Campaign Coordinator,**Wildlife Investigator (1/85 - 12/87)**

- Coordinated citizen's campaign to oppose Icelandic and Japanese "research" whaling in violation of International Whaling Commission (IWC) commercial whaling moratorium
- Documented wild bird trade in Peru, Argentina, and Brazil under contract with TERRA International

Greenpeace USA, Seattle, WA and Boston, MA; National Wildlife Coordinator,**Whale Campaign Coordinator (1/82 - 12/84)**

- Coordinated educational and lobbying effort for reauthorization of the Endangered Species Act
- Coordinated MV Rainbow Warrior expedition to Peru to secure compliance with IWC whaling moratorium
- Coordinated citizen's campaign to stop Norwegian whaling in violation of IWC whaling moratorium
- Documented pirate whaling operation in the Philippines

1981: Greenpeace International, Tokyo and Seattle; Japan Project Coordinator (5/79 - 5/80; 9/80 - 12/81)

- Documented activities and violations at whaling stations and whale meat markets in Japan and South Korea
- Documented pirate whaling in Taiwan and smuggling of whale meat through Korea to Japan
- Coordinated outreach to environmental groups and land-based direct action against coastal whaling in Japan

1979: Greenpeace Northwest, Seattle, WA; Fundraiser, Media Coordinator, Crewmember (3/77 - 4/79)

- Coordinator of Seattle walkathon and consultant on two walkathons in Denver
- Coordinated media relations in activities related to whaling, sealing, oil tankers, nuclear power and weapons
- Crewmember M.V. James Bay: medic, and photographer during 1977 encounter with Soviet whaling fleet
- Activist and reporter at anti-nuclear demonstrations

1976: Camp Dudley, Westport, NY; Camp counselor/Nature program director (7/75 - 8/75; 7/76 - 8/76)**PEER REVIEWED PUBLICATIONS:**

- Plowden, C. (in press). The sustainable harvest of copaiba oleoresin. In M. Guariguata and M. Stockdale (eds.). *Manejo sostenible de productos forestales no maderables: un manual practico*. CIFOR, Bogor, Indonesia.
- _____ (in press). The sustainable harvest of titica vine roots. In M. Guariguata and M. Stockdale (eds.). *Manejo sostenible de productos forestales no maderables: un manual practico*. CIFOR, Bogor, Indonesia.
- _____ (in press). The sustainable harvest of copal resin. In M. Guariguata and M. Stockdale (eds.). *Manejo sostenible de productos forestales no maderables: un manual practico*. CIFOR, Bogor, Indonesia.
- Wallace, R., L. Pereira, and C. Plowden (in press). *Titica: Heteropsis Spp.* in P. Shanley and G. Medina (eds.). *Fruit trees and Useful Plants in Amazon Life*. CIFOR, Bogor.
- Galuppo, S., C. Plowden and M. Serra (in press). *Amapá: Amazonian invigorator* in P. Shanley and G. Medina (eds.). *Fruit trees and Useful Plants in Amazon Life*. CIFOR, Bogor.

- Plowden, C. 2008. Challenges and lessons studying non-timber forest products with traditional communities in the Amazon. *Ethnobotany Research and Applications* 6:23-28.
- Wallace, R., L. Pereira, and C. Plowden 2005. Cipó-Titica: *Heteropsis Spp.* Pp. 75-83 in P. Shanley and G. Medina (eds.). *Frutíferas e Plantas Úteis na Vida Amazônica*. CIFOR/IMAZON, Belém, Brazil.
- Plowden, C. 2004. The ecology and harvest of andiroba seeds for oil production in the eastern Brazilian Amazon. *Conservation and Society* 2 (2): 251-272.
- _____. 2004. The ethnobotany of copaíba (*Copaifera*) in the Amazon. *Economic Botany* 58(4):729-733.
- _____, C. Uhl and F. de Assis Oliveira 2004. *Alipumilio* (Diptera: Syrphidae) fly association with Burseraceae tree resins in the eastern Brazilian Amazon. *Journal of Natural History* 38(15):1941-1947.
- _____. 2003. Production ecology of copaíba (*Copaifera spp.*) oleoresin in the eastern Brazilian Amazon. *Economic Botany* 57(4):491-501.
- _____, C. Uhl and F. de A. Oliveira. 2003. The ecology and harvest potential of titica vine roots (*Heteropsis flexuosa*: Araceae) in the eastern Brazilian Amazon. *Forest Ecology and Management* 182(1-3):59-73.
- _____. 2002. Breu resin (*Protium spp.*), Titica vine (*Heteropsis spp.*), Amapá (*Parahancornia spp.*), Copaíba (*Copaifera spp.*). Pp. 110-115, 116-122, 123-125, 126-135 in P. Shanley, A. Pierce, S. Laird and A. Guillen (eds.) *Tapping the Green Markets: Certification and Management of Non-timber Forest Products*. Earthscan, London.
- _____, C. Uhl and F. de Assis Oliveira. 2002. The harvest and sale of “breu” resin from Burseraceae trees in the eastern Brazilian Amazon. *Forest Chemicals Review* 112(4):10-15.
- _____, _____ and _____. 2002. Breu resin harvest by Tembé Indians and its dependence on a bark-boring beetle. Pp. 365-380 in J. Stepp, F. Wyndham, and R. Zarger (eds.). *Ethnobiology and Biocultural Diversity*, University of Georgia Press, Athens.
- Plowden, C. 2001. Politics and progress: challenges to sustainable harvest of forest products by Tembé Indians in the Brazilian Amazon - Response to editorial by Cunningham and Shanley. *People and Plants Handbook Special Issue, Managing Resources: Conservation and Community Development*, WWF/UNESCO/RBG, Kew. 6:2-4.
- _____. 2001. The Ecology, Management, and Marketing of Non-timber Forest Products in the Alto Rio Guamá Indigenous Reserve. Ph.D. Dissertation. Penn State University, University Park.
- _____. and D. Bowles. 1997. The illegal market in tiger parts in northern Sumatra, Indonesia. *Oryx* 31(1): 59-66.
- _____. and Y. Kusuda. 1988. Logging in the Brazilian rainforest. *Proceedings of Rainforest Alliance Symposium on the international tropical timber trade*.

SUBMISSIONS TO PEER-REVIEWED PUBLICATIONS:

- Plowden, C., C. Uhl and F. de Assis Oliveira. The harvest and marketing of titica vine roots (*Heteropsis spp.*: Araceae) in the eastern Brazilian Amazon. Submitted to: *Human Ecology*.

BOOK REVIEWS:

- Plowden, C. 2004. Diverse plants and people at the mouth of the world's greatest river. Review of “Amazon Sweet Sea: Land, Life, and Water at the River's Mouth” (by N. J. H. Smith, U. of Texas, Austin). *Tropinet* 15(4).
- _____. 2004. Plant resins: old friends of people, new frontiers for tropical biologists. Review of “Plant Resins: Chemistry, Evolution, Ecology and Ethnobotany” (by J. Langenheim, Timber Press, Portland). *Tropinet* 15(1).
- _____. 2004. Review of “Developing Ecological Consciousness: Path to a Sustainable World” (by C. Uhl, Rowman and Littlefield Publishers, Inc. Lanham, MD). *Friends Journal*, September.
- _____. 2004. Plant resins brought to life. Review of *Plant Resins: Chemistry, Evolution, Ecology and Ethnobotany* (by J. Langenheim, Timber Press, Portland). *Journal of Ethnobiology*, March 26.
- _____. 2003. New classic about plant resins. Review of *Plant Resins: Chemistry, Evolution, Ecology and Ethnobotany* (by J. Langenheim, Timber Press, Portland). *BioScience* 53(12):1233-1235.
- _____. 1990. A sea of sorrow. Review of “The Last Whales” (by L. Abbey, Grove Weidenfeld, New York). *Los Angeles Times Book Review*, Feb. 25, 1990: 3, 9.

OTHER PUBLICATIONS:

- Plowden, C. 2011. Campbell's Amazon Journal. Web blog at: <http://amazonecology.wordpress.com/category/campbells-amazon-journal/>.
- Plowden, C. 2007. Center for Amazon Community Ecology website: www.amazonecology.org. Principal author and webmaster
- Plowden, C. 2007. Campbell's Amazon Journal. Web blog at: <http://www.amazonecologycp.blogspot.com/>
- _____ 2007. New center opens. Amazon Connections 1(1):1,5
- _____ 2006. The Center for Amazon Community Ecology. 2 page brochure.
- Plowden, C. 1990. Testimony for Greenpeace on U.S. policy toward the International Whaling Commission and other marine mammal issues. Pp. 92-98 in Hearing before the subcommittee on human rights and international organizations of Comm. of Foreign Affairs, House of Representatives, 9/28/89. U.S. GPO, Washington, D.C.
- _____ 1989. Japanese whaling. Greenpeace USA, Washington, D.C., 2 pp.
- _____ 1988. ITTO launches timber trade projects. TERRA Newsletter Liana 3(1):1,6-7.
- _____ and Y. Kusuda. 1988. MDBs and U.S. get tougher on lending. TERRA Newsletter Liana 3(2):3
- Plowden, C. 1987. The battle for the Shiraho coral reef. TERRA Newsletter Liana 2(1/2):6.
- _____ 1988. Icelandic whaling. Greenpeace USA, Washington, D.C., 2 pp.
- _____ 1987. Whaling nations circumvent regulations. The Animals' Agenda (March).
- Plowden, C. and Y. Kusuda. 1987. Small-Type Commercial Whaling in Japan. Humane Society of the United States (HSUS), Washington, D.C., pp. 22.
- Plowden, C. 1987. Research loophole tightens for whalers. The HSUS News (Fall): 8-9.
- _____ 1987. Animal groups unite to oppose driftnet permit. The HSUS News (Fall):24-25.
- _____ 1987. Whaling nations circumvent regulations. The Animals' Agenda (March).
- _____ 1986. Around the Amazon in 80 days. TERRA newsletter Liana 1(1/2):1-2.
- _____ 1986. Environmental politics advances in Brazil. TERRA newsletter Liana 1(1/2):2-4.
- _____ 1986. The bird trade: where it all starts. The Humane Society News 32(4):35.
- _____ 1986. U.S. scientist backs away from Icelandic whaling research. The HSUS News (Winter) 31(1):26-27.
- _____ 1986. "Studying" whales to death. The Humane Society News (Fall) 31(4):20-21.
- _____ 1986. Supreme Court favors Japanese whaling; moratorium unravels. The Animals' Agenda (Sept.):20-21.
- _____ 1986. No, no, Norway. The HSUS News (Summer):33.
- _____ 1985. Testimony for the HSUS for hearing on U.S. Government Whaling Policy. Presented to House Subcommittee on Human Rights and International Organizations, 5/8/85. Pp. 6.
- _____ 1985. Analysis of Icelandic research whaling proposal. Institute for Study of Animal Problems. International Whaling Commission Annual Meeting (1985), IWC/37/OS ISAP.
- _____ 1985. Whaling moratorium: an agonizing step away. The HSUS News (Fall):12.
- _____ 1985. Pilot whale hunt attacked. The HSUS News (Fall):13.
- Thornton, A. and C. Plowden. 1984. Outlaw Whalers: Special Report 1984 (Whaling in the Philippines). Greenpeace International (GPI), Lewes, U.K., pp. 8.
- Plowden, C. 1983. Peru pressed to retract IWC objection. Greenpeace Examiner (Winter):12-13.
- _____ 1982. Japanese factory ship still operating. Pp. 11 in J. Frizzell (ed.) Outlaw Whalers 1982, GPI, Lewes.
- Frizzell, J. and C. Plowden. 1981. Japan defies factory ship ban. Update in J. Frizzell (ed.) Outlaw Whalers 1981, GPI, Lewes.
- Frizzell, J. and C. Plowden. 1981. The cold harpoon vs. humane killing. Pp. 22-23 in J. Frizzell (ed.) Outlaw Whalers 1981 Update, GPI, Lewes.
- Plowden, C. and R. Clark. 1980. The Taiwanese pirate whalers. In C. Plowden and J. Frizzell (eds.) Outlaw Whalers 1980. GPI, Lewes.
- _____ 1980. Japan's small-scale coastal whaling: the unregulated minke hunters. Pp. 12-14 in C. Plowden and J. Frizzell (eds.) Outlaw Whalers 1980, GPI, Lewes.
- _____ 1979. On board Brazilian whaling. Greenpeace Chronicles (Summer)
- _____ 1979. Eye-witness account of Chilean whaling. Greenpeace Chronicles (March):4-5.

PUBLISHED PHOTOGRAPHS:

Photographs related to environmental themes have appeared in various periodicals, books, calendars, compact disks, websites and exhibitions including: Time Magazine; Seattle Times; The Ecologist; Denver Botanical Garden Conservatory; U.S. State Dept. Forest Biodiversity brochure; The Animal's Voice; Museum and Arts; Architecture; The Record; The Crafts Report; Breakthroughs in Health and Science; Rainforests; The Rainforests; The Study of Economics; Physical Science; Highlights - the Fun Zone; Gallery; Outlaw Whalers; Unregulated Whaling 1983; Pirate Whaling; Greenpeace Chronicles; Greenpeace Examiner; Greenpeace Magazine; The Greenpeace Calendar; The Humane Society News; Animals' Agenda; Animal Welfare Institute brochure; Defenders of Wildlife Magazine; Weekly Reader; Earth-the Science of Our Planet; De Basis Agenda; Plant Resins: Chemistry, Ecology, Evolution and Ethnobotany; Addressing the Underlying Causes of Deforestation and Forest Degradation: Case Studies, Analysis and Policy Recommendations; Buying Destruction: A Greenpeace Report for Corporate Consumers of Forest Products; Orangutan Foundation International website; Rainforest Alliance website; Greenpeace Africa Photo and Video website; A Friendly Voice; Amazon Connections; Center for Amazon Community Ecology website

EXHIBITIONS

- 2011: Intimate views of Amazônia: an exhibition of Amazon portraits and nature photographs. Schlow Public Library, State College, PA, Sept. 1 – 30.
- 2010: Intimate views of Amazônia: an exhibition of Amazon portraits and nature photographs. Elk Creek Café, Milheim, PA, Jan. 5 – Feb. 2.

PRESENTATIONS AND WORKSHOPS (Since 1996):

- 2012: Community building and conflict resolution. Sandy Spring Friends School, Sandy Spring, MD, Jan. 17.
- 2011: Challenges and opportunities for Amazon forest-based communities. Altrusa International of Centre County, State College, PA, Nov. 16
- 2011: Challenges and opportunities for Amazon communities. Arts Monongahela, Morgantown, WV, Oct. 9
- 2011: Communication skills in caring for the earth – experiential workshop. West Virginia Friends Fall Gathering, Morgantown, WV, Oct. 8.
- 2011: Water quality, Amazon deforestation and opportunities for community based conservation. United Nations Association of Centre County Fall Social, State College, PA, Sept. 14
- 2011: A Friend's challenge working with Amazon forest-based communities. Baltimore Yearly Meeting Annual Session, Frostburg, MD, Aug. 4
- 2011: Community building through techniques of the Alternatives to Violence Project – experiential workshop. Baltimore Yearly Meeting Annual Session, Frostburg, MD, Aug.3
- 2011: Blending science, traditional knowledge and creative design. Interinstitutional Consortium for Indigenous Knowledge (ICIK) and University Libraries seminar, University Park, PA, Feb. 23.
- 2010: Challenges and opportunities for Amazon forest-based communities. The Public Library for Union County, Lewisburg, PA., August 11.
- 2010: Making perfume with breu resin weevils and snake belts with palm fiber: creative approaches to ecology, conservation and supporting communities in the Amazon (in Spanish). Ethnobiology Forum, National Agricultural University at La Molina, Lima, Peru, August 2.
- 2010: Turning tree resin into perfume and spiny palms into snake belts: creative approaches to ecology, conservation and supporting native communities in the Peruvian Amazon, Penn State Univ. School of Forestry Research Seminar Series, April 23.
- 2010: Making perfume with breu resin weevils and snake belts with palm fiber: creative approaches to ecology, conservation and supporting communities in the Amazon (in Portuguese). National Institute for Amazon Research (INPA), Seminário da Amazônia (lecture), Manaus, Brazil, April 15.
- 2010: The ecology, sustainable harvest and marketing of non-timber forest products in the Alto Rio Guamá Indigenous Reserve (in Portuguese). Tekohaw Village, Gurupi River, Brazil, March 29.
- 2010: The insect ecology and sustainable harvest of copal resin and non-timber forest products in the Amazon. Lectures and lab. The Hotchkiss School A.P. Environmental Science and Biology classes, Lakeville, CT. Feb. 22-23.

- 2010: The Center for Amazon Community Ecology: working for conservation with traditional communities in the Amazon rainforest, Elk Creek Café, Milheim, PA, Jan. 10.
- 2009: The ecology, sustainable harvest, and marketing of non-timber forest products with traditional communities in the Peruvian Amazon (in Spanish). Congress of Maijuna Native Association, Sucusari Village, Peru. July 18.
- 2009: The challenges for sustainable harvest of non-timber forest products in the Amazon. Lectures and lab. The Hotchkiss School A.P. Environmental Science and Biology classes, Lakeville, CT. Feb. 23-24.
- 2008: Boats, bats and forest communities in the Peruvian Amazon. Friendly Forum of State College Friends Meeting, State College, PA. Dec. 14
- 2008: Keeping the Amazon Amazon: the Triple Bottom Line. Sponsored by Sierra Club Moshannon Group, State College, PA. Sept. 18.
- 2008: The insect ecology and sustainable harvest of copal resin at Jenaro Herrera (in Spanish). Tropical botany field course, Instituto de Investigacion de la Amazonia Peruana, Jenaro Herrera, Loreto, Peru. July 21.
- 2008: The ecology and sustainable harvest of copal resin in northeastern Peru. Grand Valley State University Amazon field course, Iquitos, Peru. July 5.
- 2008: The insect ecology and sustainable harvest of copal resin at Jenaro Herrera (in Spanish). Tropical forestry field course, La Molina National Agrarian University, Jenaro Herrera, Loreto, Peru. June 21.
- 2008: Challenges and opportunities for Amazon forest-based communities. Ahimsa Village Sustainability Seminar Series, Julian, PA. February 15.
- 2007: Challenges and opportunities for Amazon forest-based communities. Elmcroft Retirement Community, State College, PA. November 27.
- 2007: Challenges and opportunities for Amazon forest-based communities. Clinton Friends Meeting, Clinton, NY. October 27.
- 2007: Personal paths to environmental activism. Environmental Studies 499, Univ. of Pennsylvania, Philadelphia, PA. October 24.
- 2007: Amazon rainforest ecology and communities. Fairways at Brookline, State College, PA. October 16.
- 2007: Challenges and opportunities for Amazon forest-based communities. The Inn at Brookline, State College, PA. October 5.
- 2007: Challenges and opportunities for Amazon forest-based communities. Earth House invited speaker, Penn State University, University Park, PA. Sept. 26.
- 2007: Conservation and community: development in the Amazon rainforest. Upper Susquehanna Friends Quarterly Meeting, Hughesville, PA. Sept. 15.
- 2007: Introduction to the insect ecology and sustainable harvest of copal resin at Jenaro Herrera (in Spanish), Science Friday seminar, Institute for Investigation of the Peruvian Amazon (IIAP), Iquitos, Peru.
- 2007: Challenges and opportunities for Amazon forest-based communities (in Spanish), Jenaro Herrera Investigation Center (IIAP), Jenaro Herrera, Peru. July 25, 2007.
- 2007: Community life and conservation in a Peruvian Amazon river town. State College Friends Meeting Friendly Forum, State College, PA. June 10. Co-presenter: Marissa Plowden.
- 2007: Challenges and opportunities for Amazon forest communities. Foxdale Village, State College, PA. May 22.
- 2007: Strategies for saving the Amazon rainforest. State College Area High School. Co-sponsored by Technology Student Association, State College, PA. May 1.
- 2007: The Ecology and sustainable harvest of non-timber forest products in the Amazon. 6th grade science class, State College Friends School, State College, PA. Feb. 16.
- 2007: The challenges for sustainable harvest of non-timber forest products in the Amazon. Lecture and lab. The Hotchkiss School Environmental Science class, Lakeville, CT. April 2.
- 2007: Coming of age festival with the Tembé Indians. Video presentation and talk at State College Friends School, State College, PA. February 6.
2007. Challenges and opportunities for Amazon forest-based communities. Interinstitutional Consortium for Indigenous Knowledge (ICIK) Seminar, Penn State University. January 31.
- 2007, 2005, 2004, 2003, 2002, 2001. Estimating the sustainable harvest of an Amazon tree resin. Laboratory in A.P. Environmental Science classes, the Hotchkiss School, Lakeville, CT. 4/11-12/05; 5/17-18/2004; 3/31-4/1/2003; 3/25-27/2002; 2/18-20/2001
2006. Community ecology in the Amazon rainforest. Lecture at The Seabrook of Hilton Head, S.C. December 27.

2006. Threats to tropical rainforests and opportunities for sustainable development of Amazon communities. Guest lecture at Juniata College class in Sociology. April 27 & December 7.
2006. Challenges and opportunities for Amazon forest-based communities to sustainably harvest and market non-timber forest products. Paper presented at 29th Ann. Conference of the Soc. of Ethnobiology, State College, PA, March 10.
2004. Production ecology of andiroba, copaiba, and titica. Seminars hosted by IPAM (Amazon Research Institute) at São Domingos, Nazaré, Piní, Prainha communities in Tapajós National Forest. 12/14-22
2003. The production ecology and harvesting economics of copaiba (*Copaifera*) oleoresin in the eastern Brazilian Amazon. Paper presented at 44th annual meeting of the Society for Economic Botany, Tucson, June 4.
2002. The role of non-timber forest product harvest in Amazon indigenous agroforestry. Guest lecture at Penn State Univ. class in Agroforestry: Science, Design, and Practice (Forestry 497B), Oct. 30.
2002. Amazon indigenous community development and its challenges for maintaining tropical forest resources. Guest lecture at Penn State Univ. class on Human Dimensions of Natural Resources (Rural Soc. 555), Oct. 23.
2002. Plant herbivory and its effects on human collection of non-timber forest products. Guest lectures in Penn State Univ. class on Plant Ecology (Horticulture 445), Oct. 9 & 11.
2002. The ecology and harvest potential of titica vine roots (*Heteropsis* spp.) in intact, burned and logged forests in the eastern Brazilian Amazon. Paper and poster presented at 43rd annual meeting of The Society for Economic Botany, Bronx, NY, June 26. Co-authors: C. Uhl and F. de Assis Oliveira.
2002. Ecology and harvest of “breu” resin (*Burseraceae*) and titica vines (*Heteropsis* spp.). “Bambi” Seminar lecture, Smithsonian Tropical Research Institute, Barro Colorado Island, Panama, June 7.
2002. Ecologia, coleção e comercialização da resina “breu” (*Burseraceae*) e o cipó titica (*Heteropsis* spp.) na Reserva Indígena Alto Rio Guamá, Pará (in Portuguese). INPA Seminário da Amazônia (lecture), Manaus, Brazil, May 29.
2002. The commercial harvest of “breu” resin from *Burseraceae* trees in the eastern Brazilian Amazon and the role of *Sternocoelus* weevils in its formation. Poster presented at the Working Forests in the Tropics conference at the Univ. of Florida, Gainesville, FL, Feb. 26. Co-authors: C. Uhl and F. de Assis Oliveira.
2002. Marine mammal and tropical forest conservation: international environmental problem case studies. Guest lecture at Penn State Univ. class in Ecology and Environmental Problem Solving (Biology 597D), Feb. 4.
2001. History of environmental activism with marine mammals and the rainforests. Guest lecture at Penn State Univ. class in Literature and the Natural World (English 180), April 20.
2000. Tropical deforestation: causes, consequences and alternatives. Guest lecture at Penn State Univ. class Introduction to International Agriculture (Agricultural Economics and Rural Sociology, I. A.100), Nov. 10.
2000. Breu resin harvest by Tembé Indians and its dependence on a bark-boring beetle. Paper presented at 7th International Congress of Ethnobiology, Athens, GA, Oct. 26. Co-authors: C. Uhl and F. de Assis Oliveira.
2000. Breu resin harvest in the eastern Brazilian Amazon and its link to a bark-boring beetle. Paper presented at meeting of Society for Economic Botany, Columbia, SC, June 21. Co-authors: C. Uhl and F. de Assis Oliveira.
2000. Studying sustainable harvest of non-timber forest products in the Alto Rio Guamá Indigenous Reserve: scientific and social challenges. Seminar at Amazon Environmental Research Institute (IPAM), Belém, March 20.
2000. The quest for sustainable living in a tropical forest: modern challenges for a traditional people in the Brazilian Amazon. Earth Day keynote address at Hotchkiss School, Lakeville, CT, April 18.
1996. Indigenous land rights and forest management in the eastern Brazilian Amazon: the case of the Alto Rio Guamá Indigenous Reserve. Presentations given at Baltimore Yearly Meeting Friends in Unity with Nature “Earth Day 9 program, Sandy Spring, MD (4/20), Bethesda Friends Meeting (4/21), The Hotchkiss School Earth Day keynote presentation, (4/24), State College Friends Meeting (4/28). Co-presenter: Muxi Tembé.

AWARDS AND GRANTS:

- 2011:** Rufford Small Grants for Conservation – second grant (CACE grant)
- 2011:** Marjorie Grant Whiting Center for Humanity, Arts and the Environment (CACE grant)
- 2010:** Marjorie Grant Whiting Center for Humanity, Arts and the Environment (CACE grant)
- 2009:** Rufford Small Grants for Conservation grantee (CACE grant)
- 2009:** Philadelphia Yearly Meeting, International Outreach Granting Group grantee
- 2009:** State College Friends Meeting, Walker-Spanier Fund grantee
- 2008:** Lyman Fund grantee
- 2002:** Society for Economic Botany. Honorable Mention for best paper presented by a young scientist at annual meeting

- 2001: Penn State Univ. J. Brian Horton Award in Ecology
- 2001: Penn State Univ. Ecology Program Research Assistantship
- 2000: Penn State Univ. Biology Department Honorable Mention for Best Teaching Assistant Award
- 2000: Penn State Univ. Ecology Program Professional Meeting Travel Award
- 2000/2001: Penn State Univ. Dept. of Biology Teaching Assistantship
- 1997: Rainforest Alliance Kleinhans Fellowship (2 years)
- 1997: Food, Conservation and Health Foundation Grant
- 1995: National Science Foundation Graduate Research Fellowship (3 years)
- 1993: The Hotchkiss School Alumni Association Community Service Award

OTHER PROFESSIONAL ACTIVITIES AND CERTIFICATES:

- 2012: Official reviewer for manuscript “Spatial, temporal and economic constraints to the commercial extraction of a nontimber forest product: copaiba (*Copaifera* spp.) oleoresin in Amazonian reserves” submitted to Economic Botany.
- 2011: Official reviewer for manuscripts “Multiple Use or Conflict of Use? Forest Management Innovations by Smallholders in Amazonian Logging Frontiers” submitted to Forest Ecology and Management.
- 2010: Official reviewer for manuscript “Determinants of yield in a non-timber forest product: *Copaifera* oleoresin in Amazonian extractive reserves” submitted to Forest Ecology and Management.
- 2009: Master’s thesis referee for Caroline de Oliveira Silva at INPA, “Production of breu resin (Burseraceae) in the rural settlement of Cristo Rei do Uatuma-Amazonas.”
- 2009: Official reviewer for manuscript “How do nontimber forest product harvest and ecological variation affect the demography of African Mahogany *Khaya senegalensis*?” submitted to Conservation Biology.
- 2008: Official reviewer for manuscript “Bridging the gap: “Can conservation biologists and developing country practitioners better communicate for improved biodiversity conservation?” submitted to Biotropica.
- 2007: Penn State Small Business Development Center Seminar: Tax and accounting for small businesses
- 2006: Official reviewer for manuscript “How to conciliate environment and development: an ethnobotanical approach on the use of non wood forest products by the bordering households of the “Parc National Kaboré Tambi, Burkina Faso” submitted to The Journal of Transdisciplinary Environmental Studies.
- 2006: Member, Society for Ethnobiology
- 2006: Penn State Small Business Development Center: First Step Seminar: Starting a Business; Second Step Seminar: Preparing a Business Plan
- 2006: Reviewer of Amazonas state (Brazil) Department of Environment and Sustainable Development draft rules for regulating the harvest of titica vine roots.
- 2005: Master’s thesis referee for Juliana Menegassi Leoni at INPA, “Ecology and sustainable harvest of plants used by Baniwa Indians for making handicrafts in the upper Rio Negro region, Amazonas, Brazil
- 2004: Official reviewer for manuscript “Effect of shading trap nests on colonization by cavity-nesting bees and wasps” submitted to The Canadian Entomologist.
- 2003: Scientific reviewer for P. Johansson. Tropical rainforests. Enslow Publishers, Berkeley Hts., NJ.
- 2002: Continuing education course in Game of Logging 1. Sustainable Forestry Initiative of Pennsylvania.
- 2000: Official reviewer for C. Shakleton. 2001. Re-examining local and market orientated use of wild species for the conservation of biodiversity. Environmental Conservation 28(3):270-278.
- 1995 – 2006: Member, Society for Economic Botany

VOLUNTEER ACTIVITIES:

- 2007 – Present: Alternatives to Violence Project USA – Committee on Local and Regional Groups, Co-representative for PA & NJ region.
- 2006 - Present: Center for Amazon Community Ecology - Founder/President/Executive Director
- 2003 - 2009: State College Friends School – Board of Trustees (served as Co-clerk, member of Executive Committee, Finance Committee, ad-hoc Marketing and Enrollment Committee, Building and Grounds Committee)
- 2003 - 2008: International Friendship House – Member Board of Trustees
- 2002 - 2003: State College Peace Center – Media skills workshop facilitator

2002 - Present: Central Pennsylvania Alternatives to Violence Project (AVP) – Co-coordinator/Treasurer and conflict resolution workshop facilitator at Huntingdon State Prison and community groups

2002: Mueller Building Environmental Impact Reduction Committee – Penn State Biology Dept. comm. Member

1999-2001: Ecology Graduate Student Organization (of Penn State) - Co-founder and President

2000: Producer of *Cantigas em Temb * (collection of Temb  Indian chants), Bel m, Brazil.

1995 - Present: State College Friends Meeting, State College, PA – Member Care and Concern Committee, Religious Education Committee (1995-1997; 2011 to present), Temb  Indian Support Committee (1998-2004)

1993 -1995: Bethesda Friends Meeting, Bethesda, MD – Junior high school Sunday school teacher

1985 -1993: Tropical Ecosystem Research and Rescue Alliance International, Washington, D.C. - Founder/President

1976 -1978: Open Door Clinic, Seattle, WA. - Crisis intervention counselor and first aid worker

1974 -1976: Men Organized Against Rape, Philadelphia, PA - Co-founder/Peer counselor

FOREIGN TRAVEL EXPERIENCE AND LANGUAGE SKILLS:

Lived in Australia, Brazil and India as a child. As an adult have spent one to two years each in Brazil, Japan and Peru. Have also spent several weeks to several months in Ecuador, Chile, Argentina, Taiwan, South Korea, Indonesia, the Philippines, Malaysia, Mexico, Honduras, Panama, Cote D'Ivoire, South Africa, Iceland, United Kingdom, Germany, France, and the Netherlands. Have working knowledge of Portuguese, Spanish and Japanese. Studied French in high school and college.