

## Dr. Nicole Duplaix

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### Experience summary

Forty five years' professional activity in environmental sciences, international conservation and coordination of endangered species and habitat programs. International record in scientific field research and coordination of worldwide information systems. Experience in disseminating information through multimedia formats and public relations strategies. Competent in scientific and journalistic writing with 6 books, 100+ publications, 180 presentations, and 5 web sites. *National Geographic* (Creative) contract photographer and writer since 1980. Doctorate in Animal Biology with highest honors. Multilingual and travel to 126 countries.

### A. Education and Employment Information

#### 1. Education

*Doctorat és Sciences (Doctorate degree in Animal Biology)*, Faculty of Sciences - Orsay, University of Paris, France. Highest honors and congratulations of the Jury. 1981

*Diplôme d'Etudes Approfondies (DEA - equivalent M.Sc.degree)*. Animal Ecology. Faculty of Science, University of Paris, France. 1968

Biology Major. Manhattanville College, Purchase, New York. 1963-1965

French Baccalauréats, Paris, France, 1961-1962

#### 2. Employment

- Senior Instructor, Department of Fisheries & Wildlife, Oregon State University, Corvallis. 2006- present
- Contract freelance photographer and writer, National Geographic Society Creative, Washington, DC. 1980 – current. <http://www.nationalgeographic.com/imagesales>
- Founder and Chair, International Union for the Conservation of Nature, Species Survival Commission (IUCN/SSC) Otter Specialist Group. 1974 – present. Deputy Chair, '06-11 (volunteer position). Current Chair (paid position)
- Coordinator, Luckiamute Watershed Council, Western Oregon University, Monmouth, OR. 2008-2011
- Researcher and Instructor, Oceanic Society, Blackbird Cay Research Station, Turneffe Atoll, Belize. Research programs: reef ecology, dolphin ecology and behavior, reef fish identification. 2003 – 2006
- Project Leader, Researcher and Instructor. Giant Otters: Rapid River Bio-assessment Surveys and Training Programs in Suriname, Guyana, French Guiana and Brazil, funded by the Oceanic Society, World Wildlife Fund, Conservation International, Miami Metro Zoological Society. 1999 – 2006
- Web site writer and graphics editor, *Bonjour Paris* on America Online (AOL). 1994 –1995 and [www.2DocStock.com](http://www.2DocStock.com), a site on Australia, Provence and Suriname, 1999 – 2003
- Founder and President, Duplaix & Associates, Inc., International Environmental Consultants, Palm Beach Gardens, Florida. 1988 – 1992
- Director, Environmental Audit Group, GeoServices, Inc. Consulting Engineers, Boynton Beach, Florida. Oct. 1988 -- May 1989
- Editor, Technical Publications, South Florida Water Management District, West Palm Beach, Florida. May 1987 – Oct. 1988

- Director, Office of Communications, South Florida Water Management District, West Palm Beach, Florida. Feb.1985 – May 1987
- Director, Environmental Service Center, Florida Defenders, Tallahassee, FL. 1983.
- Founder IUCN-SSC TRAFFIC and Director TRAFFIC (USA), World Wildlife Fund-US, Washington, D.C.1978-1982
- Visiting Research Scientist, Office of Zoological Research, National Zoo, Smithsonian Institution, Washington, D.C.1978
- Scientific Assistant to the General Director, New York Zoological Society, Bronx Zoo.1975
- Editor, International Zoo Yearbook. The Zoological Society of London, U.K.1971-1975

## **B. Publications and Creative Activity**

### 1. Books

- Duplaix, N. & J.A. Davis. *Otters, Identification Manual for Customs Officials*. 30; CITES, Secretariat of the Convention on International Trade in Endangered Species of Wild Fauna and Flora, Gland, Switzerland.120 pp.,1983
- Duplaix, N. Editor. *Proceedings of the First Working Meetings of the Otter Specialist Group*.International Union for the Conservation of Nature (IUCN). Special Publications (Morges). 158 pp. 1978
- Duplaix, N. & Noel Simon. *World Guide to Mammals*. Crown Publishing. New York, NY 284 pp. 1976
- Kear, J. & N. Duplaix, Editors. *Flamingos, Proceedings of the First International Flamingo Symposium*. Trevor Poyser. 246 pp. 1975
- Duplaix, N., Editor, *International Zoo Yearbook*. **Vol. 12**, 416 pp. 1972; **Vol. 13**, 423 pp. 1973; **Vol. 14**, 423 pp. 1974; **Vol. 15**, 463 pp. 1975. The Zoological Society of London.

### 2. Refereed Papers

- Leuchtenberger, C., R. Sousa-Limac, N. Duplaix, W. Magnusson, G. Mourão (In press) A sentence is more than the sum of its words: vocal repertoire of the giant otter. IPAC Mammal Society Brazil.
- Duplaix, N, E. Evangelista, F. Rosas (In press) Advances in the study of Giant otter (*Pteronura brasiliensis*) ecology, behavior, and conservation: a review. *The Latin America Journal of Aquatic Mammals*.
- Groenendijk J., N. Duplaix (In press) Giant Otter Bibliography. *The Latin America Journal of Aquatic Mammals*.
- Groenendijk J., P. van Damme, V. Zambrana, M. Marmontel, D. Lima, F. Trujillo, J. C. Botello, Z. Van der Waal, S. Boher, H. Heither, V. Utreras, N. Duplaix, B. Thoisy, R. Pickles, J. L. Cartes, G. Gil, M. Recharte, R. Williams, M. Buschiazzi (In press) A summary of the Regional Giant Otter Distribution and Conservation Status Assessment. *The Latin America Journal of Aquatic Mammals*.
- Duckworth, J.W., G. Batters, J. L. Belant, E. L. Bennett, J. Brunner, J. Burton, D. W. S. Challender, V. Cowling, N. Duplaix, J. D. Harris, S. Hedges, B. Long, S. P. Mahood, P. J. K. McGowan, W. J. McShea, W. L. R. Oliver, S. Perkin, B. M. Rawson, C. R. Shepherd, S. N. Stuart, B. K. Talukdar, P. P. van Dijk, J-C. Vié, J. L. Walston, T. Whitten and R. Wirth (2012) Why South-East Asia should be the World's Priority for Averting Imminent Species Extinctions, and a Call to Join a Developing Cross-Institutional Programme to Tackle this Urgent Issue. *Sapiens*, 5 (2):77-95
- Wright, L. C. and N. Duplaix (In press) Status of Asian Small-clawed otter *Aonyx cinereus* in Borneo. *Raffles J. Zool.*:
- Sheperd, C. and N. Duplaix (In press) Predicted distribution of the Smooth-coated otter in Borneo. *Raffles J. Zool.*:
- Duplaix, N. Review and update of the status of 13 species of otters for the IUCN Red List: *Lontra canadensis*, *Lontra felina*, *Lontra provocax*, *Lontra longicaudis*, *Pteronura brasiliensis*, *Lutra lutra*,

- Lutra maculicollis*, *Lutra sumatrana*, *Enhydra lutris*, *Aonyx capensis*, *Aonyx congicus*, *Aonyx cinereus*, *Luroigale perspicillata*. 2012 <http://www.iucnredlist.org/initiatives/mammals>
- Kanchanasaka, B. and N. Duplaix (2013). Food Habits of the Hairy-nosed otter (*Lutra sumatrana*) and the Small-clawed otter (*Aonyx cinereus*) in Pru Toa Daeng Peat Swamp Forest, Southern Thailand. Proceedings of Xth International Otter Colloquium, *IUCN Otter Spec. Group Bull.* 28A: 139 - 161
  - Jacques, H., N. Duplaix, and G. Chapron. The Congo Clawless otter: State of Knowledge, and Needs for Further Research. *IUCN Otter Spec. Group Bulletin* 21A: 2004
  - N. Duplaix, C. Ribas (2005) Giant otter and Neotropical cormorant fishing association in the Pantanal, Brazil. *Friends of the Giant otter Bulletin* 13. Dec. 2005
  - Groenendijk, J., F. Hajek, N. Duplaix, et al., (2005) Surveying and Monitoring Distribution and Population Trends of the Giant Otter *Pteronura brasiliensis* – Guidelines for a Standardization of Survey Methods. *Habitat*, 12, 120 pp.
  - Duplaix, N. Giant otter cub killed by black caiman. *Friends of the Giant otter Bulletin* 10. June:4, 2004
  - Duplaix, N. Tail-waving and scent marking: the ontogeny of a behavior pattern. *Friends of the Giant otter Bulletin* 9. Jan.:7-8, 2004
  - Duplaix, N. Cub submissive panic posture. *Friends of the Giant otter Bulletin* 8. Aug.:4-5, 2003
  - Duplaix, N. Daisy Chain grooming, a new descriptive term. *Friends of the Giant otter Bulletin* 8. Aug.:5, 2003
  - Duplaix, N. Otters. Chapter in, *Encyclopedia of Mammals*. D. Macdonald, editor. NY: Facts on File:124-129.1987
  - Duplaix, N. How rare is the Egyptian vulture in South Africa? *Vulture News* 4:18. 1985
  - Duplaix, N. CITES, TRAFFIC, and the international black-market trade in rarities. In, *Proceedings of an International Symposium on the Extinction Alternative*. P.J. Mundy, editor: 72-73.1984
  - Duplaix, N. Otters, In, *Carnivores*. G. Batemen, editor. New York: Torstar Books: 116-121. 1984
  - Duplaix, N. *Contribution à l'Ecologie et à l'Ethologie de Pteronura brasiliensis (Carnivora, Lutrinae): Implications Evolutives*. Doctoraal Thesis, Univ. of Paris-Sud, 352 pp. 1982
  - Mack, D., N. Duplaix, & S.Wells. Sea Turtles, Animal of Divisible Parts: International Trade in Sea Turtle Products. In, *Biology and Conservation of Sea Turtles*. K. Bjorndal, editor. Smithsonian Institution Press:545-563.1982
  - Roet, E., D. Mack & N. Duplaix: Psittacines imported by the United States, '79 - '80. In, *Conservation of New World Parrots*. Roger Pasquier, editor. Smithsonian Institution Press: 21-55. 1981
  - Duplaix, N. & L. Grady. Is CITES for or Against Wildlife? *International Zoo Yearbook*, 20: 245-248. 1980
  - Duplaix, N. Observations on the ecology and behavior of the Giant River Otter *Pteronura brasiliensis* in Suriname. *Terre et Vie*. 34:495-620. 1980
  - Duplaix, N. Giant otters in Suriname. *Oryx*. 14(4):439. 1979
  - Duplaix, N. Status of the Giant otter *Pteronura brasiliensis* in Suriname. In, *Proceedings of the First Working Meetings of the Otter Specialist Group*. IUCN Special Publications (Morges): 48-55. 1978
  - Duplaix, N. & J. Vandever. Sea otter bibliography, *FAP/ACMRR Conference on Marine Mammals*, Bergen, Norway. MM/SC/54:1-32. 1976
  - Duplaix-Hall, N. River otters in captivity, a review. In, *Breeding Endangered Species in Captivity*, R.D. Martin, editor: 311-327, Academic Press. 1975
  - Duplaix-Hall, N. & Janet Kear. Breeding requirements of flamingos in captivity. In, *Flamingos*. J. Kear & N. Duplaix-Hall, editors: 131-141. 1975
  - Duplaix-Hall, N. Achievements in the breeding of rare and endangered species in zoos of the world. In, *The Contribution of Zoos to the Conservation of Nature*: 11-16. The World Wildlife Fund, "1001" Nature Trust Symposium, London, UK. 1974

- Duplaix-Hall, N., Notes on maintaining otters in captivity. *International Zoo Yearbook*. 12: 178-182. 1972
3. Technical Reports
- Larsen, D.P, S. Moellendorf, N. Duplaix, J. Dalglish, G. Oberst, J. Runyon. *Luckiamute Watershed Council, Willamette River Model Watershed Program*, 10-year Action Plan Parts 1 and 2. 2010
  - Oceanic Society Guyana Giant Otter Project, Research Results: 2002-2004  
<http://www.giantotterresearch.com/fieldreports.html>
  - Giant otter Final Report. *WWF-Guianas Rapid River Bio-assessments and Giant Otter Conservation Project - FG-40 FY2002*. 2003. 185 pp.  
<http://www.giantotterresearch.com/articles/articles.html>
  - *Giant otter Bibliography*. Assembled by Nicole Duplaix, Jessica Groenendijk, Christof Schenck, Elke Staib and Sheila Sykes-Gatz. 2002  
<http://www.giantotterresearch.com/articles/FINALGOBiblioDivided.html>
  - Duplaix, N., M. Lingaard, & C. Sakimin, *A Survey of Kaburi Creek, West Suriname and its Conservation Implications 2001*, Oceanic Society, Oceanic Society, 34 pp. 2001.  
<http://www.giantotterresearch.com/field%20reports/KaburiAnnualReport.pdf>
  - *Evaluation of the Animal and Plant Trade in the Guayana Shield Eco-region, Preliminary Findings*. World-Wildlife Fund and UNDP Guayana Forests & Environmental Conservation Project (WWF-GFCEP) 2001. 88pp. <http://www.giantotterresearch.com>
  - Editor, TRAFFIC (USA) newsletter. 1979-1981
  - Duplaix, N. & H.A. Reichart. *The History, Status and Conversation of the Manatee Trichechus manatus in Suriname*, Report under contract to the U.S. Department of the Interior, Endangered Species Bureau, Manatee Conservation Project. 35 pp. 1978
4. Popular Press
- Duplaix, N. Each of US. In *Writing Our Watershed*, G. Oberst, editor. Luckiamute Watershed Council, Monmouth, Oregon: 128-130. 2008
  - Duplaix, N. A Chorus of Otters. *Whale*. Winter 2003, Vol. 8: 8-12
  - Duplaix, N. Agents of Capitalism. In *From the Field, A Collection of Writing from National Geographic*. C. Mc Carry, editor. Washington: National Geographic Soc.: 230-232. 1997
  - Duplaix, N. South Florida Water: Paying the Price. *National Geographic*. July: 89-112, 1990
  - Duplaix, N. Fleas: The Lethal Leapers. *National Geographic*. May: 114-136. 1988
  - Macdonald, S. & N. Duplaix. The Otter, Symbol of Our Threatened Fauna. *Naturoopa* 45:14-19. 1983
  - Duplaix, N. Im Kielwasser der scheuen Riesenotter. *Das Tier Tierwelt* 2: 4-9. 1984
  - Duplaix, N. Giant Otters: "Big Water Dogs" in Peril. *National Geographic*. July: 130-142. 1980
  - Davis, J.A. & N. Duplaix. Neotropical otters. In, *Wildlife '76* N. Sitwell, editor. Danbury Press: 48-53. 1976
  - Duplaix, N. Translation. Herge. *King Ottokar's Scepter*. (from French). Golden Press, 62 pp 1959
5. Multimedia and film
- Co-producer/Screenplay/Voice-over script: *Little Tracker*. Provision, South Africa. 50 minutes. (1999). **Awards:** First Place Gold Camera Award, *US International Film and Video Festival*, Chicago, USA; Finalist, Golden Panda Award, *Wildscreen Festival 2000*, Bristol, UK; Finalist: *Jackson Hole Wildlife Film 2001 Festival*, Best Children's Category; Finalist: "Gold Panda" Awards for Documentary at the 6th Sichuan TV Festival, China.
  - Voice-over script: *Kalahari, Living on the Edge*. Provision, South Africa. 50 minutes. (1998) **Awards:** *South African Documentary TV award*: Best Directing, Best Production, Best Script and Best Wildlife Documentary)

- Talent/Coordinator: *Nouveaux Mondes: Capture and Transfer of African Wildlife*. Gedeon Programmes and France 2. 1h45m. 1999 (In French)
- Talent/Coordinator: *Nouveaux Mondes: Elephants of Kruger*. Gedeon Programmes and France 2. 1h45m. 1998 (In French)
- Web site writer, graphics/photo editor, *Bonjour Paris* on America Online (AOL). 1994-1995
- Scientific Advisor/Writer/Photos. *Mammals*. Interactive CD ROM. *National Geographic*. 1990. First Edition
- Spokesperson. Frequent radio and TV interviews on south Florida environmental and water issues for the South Florida Water Management District. 1985-1990
- Talent/Coordinator. *In Search of the Giant Otter*. BBC-Natural History, (1978). Updated and re-edited by WGBH for all PBS affiliates. (50 minutes). 1984
- Talent. Passport to Extinction. Focus program. WBBM Television, CBS affiliate, Chicago. (two one-hour specials). National distribution. 1981
- Talent. In Search of the Bigi Watra Dagoo (Giant Otters in Suriname). BBC Television (Bristol Natural History Unit.). World about Us series. Distributed worldwide. Edward Milner, producer. (50 minutes). 1978
- Talent. The Otter in Britain. BBC Television (Bristol Natural History Unit). World about Us series. Christopher Parsons, producer. Distributed worldwide. 1974
- Talent. BBC Radio (Overseas service): - Zoos and Conservation (20 minutes), - Why should there be National Parks in Africa? (20 minutes). - Are African snakes dangerous? (in French, 20 minutes). 1972-1973
- Talent. BBC (Home Service). Otters at Chester Zoo (10 minutes). 1969

#### 6. Professional Meetings, Seminars, Symposia and Conferences

- Joint Organizer, Presenter: *International Training Workshop on Asian Otter Research and Conservation*, Bangalore, India, 25-30 November, 2013.
- Joint Organizer, Presenter: *Wild Musteloid Conference*, Oxford, England. 18-21 March, 2013
- Joint Organizer: *European Otter Workshop*, Kinsale, Ireland, 17-19 April, 2013
- Keynote Speaker, *A importancia da conservacao das regioes que abrigam Ariranhas*. Oficina Aberta de Ecoturismo no Parque Estadual do Cantao, Tocantins, Brazil. 29 – 20 June, 2012.
- Joint Organizer and Chair: *First International Workshop for Latin American Otter Research and Conservation*, Corumba, Brazil, June 22-25, 2012
- Speaker: *The Otter Specialist Group 1974-2012*. IUCN Species Survival Commission, Chairs Conference, Abu Dhabi, UAE, February 2012
- Joint Organizer and Chair: *Xlth International Otter Colloquium: Otters in a Warming World*. Pavia, Italy, August 29 – September 5, 2011
- Joint Organizer, Presenter: *First Borneo Carnivore Symposium, Road Towards Conservation Action Plans*, Kota Kinabalu, Sabah, Malaysia, 18-24 June, 2011
- Joint Organizer, Presenter: *International Training Workshop on Asian Otter Research and Conservation*, Phnom Penh. February 24 to March 3, 2009
- Joint Organizer, Presenter: *Xth International Otter Colloquium: Otters – Ambassadors of Peace*, Hwacheon, South Korea, 10-16 October, 2007
- Joint-organizer, Presenter: *First South American Giant otter biologists meeting*, Centro de Conservação do Pantanal, Fazenda Sete, Miranda MS, 10-14 December, 2004
- Speaker: *Launching the Giant otter Status Survey in South America*. INPA Aquatic Mammal Research Center, Manaus, Brazil, 2004
- Organizer, Presenter. *Presentation of Findings: Giant otter conservation in the Guianas*. World Wildlife Fund Conference, Paramaribo, Suriname. July 2003
- Speaker: *Giant otter Habitat Use in the Guayana Shield and Current Threats*. IXth Otter Colloquium, University of Maryland, Frostburg. 2004

- Keynote address. *Global Heritage Species: A Blueprint for Survival*. Knowledge for the 90s: a New Horizon. Annual NCAB/AALAS Conference, Ellicott City, MD. 1991
- Speaker: *Biology and Status of the Giant Brazilian Otter*. Wildlife in the Everglades and Latin American Wetlands Symposium. Florida International University. Miami. 1991
- Keynote speaker. *The "Writes" of Spring. A Celebration of Ecological Consciousness*. Palm Beach Community College. 1990
- Joint organizer, Presenter. *Managing Megagrowth: Florida's New Mandate Conference*, Miami, FL 1987.
- Joint organizer, Presenter. *First Annual Everglades Conference*. Port Everglades, FL. 1986.
- Organizer, Chair, Presenter. *Fourth International Otter Colloquium and IUCN Otter Specialist Group Meeting*, Monterey, CA, 1986
- Organizer, Chair, Presenter. *Third International Otter Colloquium and IUCN Otter Specialist Group Meeting*, Strasbourg, France. 1983
- Keynote speaker: *International Trade in Endangered Species, An Appraisal*. Endangered Wildlife Trust Symposium, Pretoria, South Africa. 1983
- Keynote Speaker: *International Law and the Wildlife Trade*. Law School, University of Virginia, 1983
- Organizer, Chair, Presenter. *Second IUCN/SSC Otter Specialist Group Meeting*, U. of Florida, Gainesville, Florida. 1980
- Keynote Speaker: *The harvest of Northeastern furbearers, past and present*. Northeast Endangered Species Conference, Provincetown, MA. 1980
- Speaker: *TRAFFIC (USA)'S proposed international crocodile trade survey*. IUCN/SSC Crocodile Specialist Group meeting, University of Florida, Gainesville, FL. 1980
- Speaker: Recommendations of the IUCN-SS Otter Specialist Group. Sea Otter Conference, Santa Barbara, CA August 1979
- Speaker: *The behavior and ecology of the Great Brazilian otter Pteronura brasiliensis in Suriname*. American Society of Mammalogists, 58th Annual Meeting, Athens, GA. 1978
- Organizer, Chair, Presenter. 1976. *First IUCN/SSC Otter Specialist Group Meeting*, Paramaribo, Suriname
- Speaker: *Studying European otters in the wild*. The Mammal Society, Annual Meeting, UK. 1974
- Speaker: *The comparative behavior of otters, a review*. University of Christchurch, New Zealand and University of Melbourne, Australia. 1974
- Speaker: *How should one start a field study on otters?* Mammal Society, Annual Meeting, UK. 1973
- Speaker: *The comparative agonistic behavior of otters in captivity*. XIIth International Ethological Congress, Edinburgh, Scotland. September 1971
- Speaker: *The comparative vocalizations of otters*. XIth International Ethological Congress. Rennes University, France. September 1969

#### 7. Recent Grants and Contracts

- National Geographic Image Collection. Contract as photographer and writer. 1981- present
- IUCN-SSC Otter Specialist Group. Altman foundation annual grant. \$30,000 per year. 2012 – present
- IUCN-SSC Otter Specialist Group. Mohammed Bin Zayed Foundation, \$12,500 for otter conference. 2012
- Luckiamute Watershed Council. Oregon Watershed Enhancement Board and Meyer Memorial Trust. For Riparian restoration projects and Council support. \$3.2 million. 2008-2011
- World Wildlife Fund - US. Rapid River Bio-assessment and giant otter research. \$25,500. 2002-2004

### **C. Courses Developed at Oregon State University, Department Fisheries and Wildlife**

- FW360 *Origins of Fish and Wildlife Management: Evolution, Genetics and Ecology*. Science Technology and Society for BAC Core, Distance Education, prepared with Professor David Noakes. 2008
- FW106 U-Engage: *Go Wild, A Career in Critters and Fish*. Distance Education, prepared with Danielle Jarkowsky. 2011
- FW563 *Wildlife Conservation Biology*, Distance Education graduate course. 2011
- FW473 *Fish Ecology*, Distance Education, prepared with Professor David Noakes and Dr. Nathan Putnam. 2012
- FW573 *Fish Ecology and Conservation*, Distance Education and Classroom with Professor David Noakes. 2013
- *Otter Biology and Field Methodologies*. I am currently developing the curriculum of an online course for the IUCN-SSC Otter Specialist Group which will be available via E-campus at OSU. I am developing the curriculum with Professor Tom Serfass from the University of Maryland (Frostburg campus). It will be available both online and in DVD format for access to students from developing countries with poor internet access. Expected completion in early 2015.

#### **D. International teaching collaborative efforts**

- Scientific advisor, Instructor. Instituto Araguaia, Cantão State Park, Araguaia River, **Brazil**. Training course for otter field researchers. October 2012, ongoing
- Presenter, instructor. Asian Otter field methodology course in Phnom Penh, Cambodia to Thai, Indonesian, Pakistani, Vietnamese, Cambodian and Indian students. March 2009
- Expedition leader, instructor. Giant otter field methodology techniques, survey local fauna and flora. 10 undergraduate Biology majors, University of **Suriname**. Field trip to the Upper Coppename River, Central Suriname Nature Reserve. One week field trip. November 2004
- Field researcher, instructor. Reef ecology, dolphin ecology and behavior, reef fish identification, snorkeling skills Oceanic Society: Blackbird Caye Research Station. Turneffe Atoll, **Belize**, Central America. Taught student volunteers. Volunteer groups change weekly (6-8 participants), range in age from 13-86 years, education from high school to PhD level. 2004: 6 weeks. 2005: 5 ½ months. 2008: 2 weeks. 2009: 1 week.
- Field researcher, instructor. Giant otter ecology and behavior, field methodology, fauna and flora with an emphasis on bird identification. Oceanic Society: Guyana and Brazil Giant Otter Conservation Program, Karanambu Ranch, Rupununi, **Guyana** and Pixaim River, Pantanal, **Brazil**. Taught student volunteers 2002: 6 weeks (volunteer groups change weekly, 6-8 participants), 2003: 8 weeks, 2004: 8 weeks, 2005: 1 week. 2006: 2 weeks
- Instructor. Field workshop on standardizing Giant otter field techniques, Taught 23 Latin American field biologists from 8 countries. Porto Maldonado, **Peru** 12-19 November, 2002.
- Field expedition leader and instructor. Giant otter field methodology course and bird identification. **Guyana**: 1 graduate student University of Guyana, 10-day field course on the Rewa River, May 2002. **Suriname**: 1 graduate student (2 weeks, June 2002), 1 post doc student (1 week, November 2003), 3 field rangers (2-3 weeks, 2001-2004), 1 undergraduate student, University of Suriname (2 weeks, 2001). Funded by World Wildlife Fund-Guianas, Oceanic Society. **Brazil**: INPA (Aquatic Mammal Research Institute, Manaus): 1 week field trip with 1 post doc and 1 undergraduate student to compare field methods (October 2004) funded by Metro Dade Zoological Society, **Peru**: 1 week field trip with 3 post doc and 6 graduate students (hosted by the Frankfurt Zoological Society) to compare field methods. June 2003
- Instructor, Photojournalism in the Field. Institut Accords Education, Paris, **France**. One-semester course on photojournalism in extreme conditions: preparation, equipment, photo skills, presenting a proposal, shoot lists, budgeting, editing, travel skills. Three courses given. 1993

## E. Service to the Profession

### a. Scientific Boards:

- Founder and Chair, IUCN/SSC Otter Specialist Group. 1974-present. Currently Chair. Founded in 1974 and is part of International Union for the Conservation of Nature (IUCN), Species Survival Commission (SSC). The aims of the Group, as set out by IUCN guidelines, are to provide leadership for the conservation of all 13 otter species (Carnivora, Mustelidae, Lutrinae). 1) Determine and review on a continuing basis the status and needs of otters, and promote the implementation of necessary research, conservation and management programs by appropriate individuals, organizations and governments. 2) Train new otter field biologists in developing countries through workshops, meetings, conferences. Eight workshops were held in Suriname (2003), Brazil (2004), Peru (2005), Vietnam (2009), Cambodia (2010), Indonesia (2012), Brazil (2012) and the next one will be in India (November 2013). 3) Make known the status and conservation needs of otters, and promote the wise management of otter species worldwide. The Otter Specialist Group publishes a print and online peer-reviewed journal *IUCN-SSC Otter Specialist Group Bulletin* since 1981.
- Scientific advisor: Oceanic Society, San Francisco, CA, USA  
<http://www.oceanicsociety.org> 2000-ongoing
- Member, Species Survival Commission (SSC), International Union for the Conservation of Nature and Natural Resources (IUCN). 1972 - ongoing
- Reviewer, IUCN/SSC Red List, Mammals. 1972-1980 and current Red List, Otters: 2009-ongoing.
- Member, Steering Committee. IUCN/SSC Species Survival Commission. 1978-1988
- Regional Vice-Chair (North America) IUCN Species Survival Commission. 1981-1984
- Founder and Director TRAFFIC (U.S.A.), World Wildlife Fund, Washington, D.C. 1978-1982
- Co-founder and member, IUCN/SSC TRAFFIC Specialist Group (Trade Records Analysis of Fauna and Flora in Commerce). 1975-1985
- Founder and member, IUCN/SSC Animal Trade Information Service 1972-1975, became TRAFFIC in 1975
- Delegate to CITES (Convention on the International Trade in Endangered Species): 1978-1985
- Chair and Member, IUCN/SSC Zoo Group. 1972-1976
- Coordinator, International Zoo Studbooks of Endangered Species, Zoological Society of London, 1971-1975
- Member, Tropical Forest Task Force, Natural Resources Defense Council (NRDC). 1978-1989
- Executive Secretary, American Committee for International Conservation (IUCN-ACIC) 1978-1980
- Member, IUCN Critical Marine Habitats Group. 1976-1978
- Member, IUCN/SSC - International Fur Trade Federation (IFTF) Liaison Committee. 1972-1974
- Tropical Forest Task Force, Natural Resources Defense Council (NRDC). 1978- 1990
- Secretary/Treasurer and Board of Directors: Species Survival Foundation. 1982 -1988
- Member of Council, The Otter Trust, England. 1979 - 1983
- Executive Board Trustee, Rare Animal Relief Effort (RARE). 1977-1983
- Executive Secretary, American Committee for International Conservation (ACIC). 1980 -1983



- Zoo Standards Committee, Federation of Zoological Gardens of Great Britain and Ireland. 1973 -1974
- Council Member, The Mammal Society of Great Britain. 1973 -1974
- Member, Surveys and Groups Working Party. The Mammal Society. 1972 -1974
- Member, Conservation Committee, American Association of Zoological Parks and Aquariums (AAZPA). 1972-1974
- Founding Honorary Secretary, The Otter Trust, England. 1972-1979
- Founder and Board of Directors, Zoological Consultants Ltd. 1971-1980
- Vice-Chair, Gavin Maxwell Otter Project, World Wildlife Fund - U.K. 1970-1984

b. Reviewer for Refereed Journals

Journal of Natural History  
 Journal of Ethology  
 International Zoo Yearbook, Zoological Society of London  
 Journal of Mammalogy  
 Journal of Mammalian Biology  
 Journal of Zoo Biology  
 Mammalia  
 Journal of Ethology, Ecology and Evolution  
 J. of Aquatic Conservation: Marine and Freshwater Ecosystems  
 Pakistan Wildlife Journal  
 IUCN Otter Specialist Group Bulletin  
 Oryx (Fauna and Flora Preservation Society)  
 Journal of Small Mammal Conservation and Research,  
 Studies on Neotropical Fauna and Environment  
 Western North American Naturalist  
 Latin American Journal of Aquatic Mammals

c. Expert testimony

- Comments on the Lacey Act Amendments. Presented before the US Senate Committee on Resource Protection and to the House Subcommittee on Merchant Marine Fisheries. March 1980
- Comments regarding the U.S. government position on the proposed threatened status for the leopard in sub-Saharan Africa. Presented to the Director of the Fish & Wildlife Service. June 1980
- Comments regarding the U.S. government's position to list Psittacines (parrots) on Appendix I of CITES. Submitted to the Director of the Scientific Authority (ESSA). August to November 1980
- Comments on CITES Appendix I species in trade. Submitted to the Chief of the Wildlife Permit Office, US Department of Agriculture. September 1980
- Comments on the Lacey Act Amendments. Presented before the US Senate Committee on Resource Protection. November 1979.
- Export findings for the American alligator. Presented before the Endangered Species Scientific Authority (ESSA), Senate Subcommittee. July 1979
- World trade in crocodilian products. Presented before the House Subcommittee on Merchant Marine Fisheries. July 1979
- World trade in elephant ivory. Presented before the House Subcommittee on Merchant Marine Fisheries. July 1979

d. Professional Associations

Fellow, Linnaea Society, London, UK 1971 - present

Scientific Fellow, Zoological Society of London, London, UK 1970 - present  
Fellow, Royal Geographical Society, London, UK 1977 - present  
Fellow, The Wildfowl Trust, UK 1972 - present  
Fellow: World Wildlife Fund "1001" – A Nature Trust 1972- present  
Conservation Associate, New York Zoological Society, 1970-1986  
Member, Sigma Xi American Scientist, USA 2008 - present  
Member, Society for Conservation Biology, USA 1998 - present  
Member, American Society of Mammalogists, USA 1966 – present  
Member, Association for the Study of Animal Behaviour, 1970-1987  
Member: New York Academy of Sciences, USA 1980-present  
Member, American Association of Zoos and Aquaria, USA 1971- present  
Member, Fauna and Flora Preservation Society, UK and USA 1972 - present  
Member: Public relations Society of America 1987-1989

e. Community Service

Member: Executive Women of the Palm Beaches (1985-, Board of Directors, '87 - '90)  
Participant: Leadership Palm Beach County. (1986)  
Member: Leadership Palm Beach Co., Alumni Assoc. (1987- 1992)  
Participant: Leadership Florida. (1990 -1991, Board of Directors)  
Member: 1001 Friends of Florida. (1988-1991)

f. Awards

- Co-producer/Screenplay/Voice-over script: *Little Tracker*. Provision, South Africa. 50 minutes.(1999). Awards: First Place Gold Camera Award, *US International Film and Video Festival*, Chicago, USA; Finalist, Golden Panda Award, *Wildscreen Festival 2000*, Bristol,UK; Finalist: *Jackson Hole Wildlife Film 2001 Festival*, Best Children's Category; Finalist: "Gold Panda" Awards for Documentary at the 6th Sichuan TV Festival, China.
- Voice-over script: *Kalahari, Living on the Edge*. Provision, South Africa. 50 minutes.(1998) Awards: *South African Documentary TV* award: Best Directing, Best Production, Best Script and Best Wildlife Documentary)