

CURRICULUM VITAE

[updated May, 2026]

CHRISTEN MARCHER WEMMER

Present* and Past Affiliations:

Honorary Fellow*, California Academy of Sciences, San Francisco
Research Associate, Denver Zoological Society, Denver, Colorado
Scientist Emeritus*, National Zoological Park, Washington, D.C.
Research Associate, National Museum of Natural History, Washington, D.C.

Temporary Appointments:

Assistant Director for Conservation and Captive Breeding (Supervisory Wildlife Biologist, GM-15) (1984 to 1993).

Acting Director (Supervisory Wildlife Biologist, GS-15) (April 1983 - April 1984), National Zoological Park, Smithsonian Institution, Washington, DC 20008

Acting Director (September 1998 – October 2000) Institute for Conservation Biology, Smithsonian Institution, Washington, DC 20560

Past Appointments:

Senior Scientist
(Senior Level 0486) (2003-2004)
Smithsonian National Zoological Park
Washington D.C. (retired from federal service 31 July 2004)

Associate Director for Conservation
(Senior Level 0486) (1993-2003)
Conservation and Research Center
National Zoological Park
1500 Remount Road
Front Royal, VA 22630

Curator-in-Charge (Supervisory Wildlife Biologist, GS-14) (1977 to 1984),
Department of Conservation
Conservation and Research Center
National Zoological Park, Front Royal, VA 22630

Supervisory Mammalogist (Supervisory Wildlife Biologist, GS-12/1) (1974 - 1976), Office of Animal Management, Conservation and Research Center
National Zoological Park, Front Royal, VA 22630

Curator of Small Mammals and Carnivores
(1972 - 1974), Chicago Zoological Park
Brookfield, Illinois

Personal:

Born July 6, 1943; San Antonio, Texas

Married, two children:

Wife: Shirlee Regina (nee Toso)

Lauren Christine Wemmer (married)

B.S. (Biology) Virginia Polytechnic Institute & State Univ.

M. Sc. (Wildlife Mgmt.) University of Minnesota

Ph.D. (Conservation Biology) University of Minnesota

Jillian Erica Wemmer

B.S. (Geology) Virginia Polytechnic Institute & State Univ.
M. Sc. (Meteorology) University of Oklahoma

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YouTube Channel: Camera Trap Codger

Academic Degrees:

1972	Ph.D., University of Maryland (Zoology)
1967	Master of Arts, San Francisco State College (Biology)
1965	Bachelor of Arts, San Francisco State College (Biology)

Teaching Experience:

1965 - 1967	Teaching Assistant, San Francisco State College (Vertebrate Natural History, Mammalogy)
1967 - 1970	Graduate Assistant, University of Maryland (First year undergraduate Zoology courses, Invertebrate Zoology, Ecology)

Field Experience:

Mexico	Mt. Orizaba, Veracruz June - August, 1964 June - August, 1965
Malaysia	November 1-10, 1986 April 1 - May 1, 1988 October 13-24, 1991 August 4-9, 1992
Nepal	January - February, 1977 March - April, 1980 April, 1981 September 1-10, 1981 February 22 - March 19, 1985 October 18-31, 1986 October 24 - November 2, 1991
Nepal/India	December (3 weeks), 1982 November - December (3.5 weeks), 1983 February - March (4 weeks), 1984 April 8 - May 14, 1985
India	October 13-17, 1986 October 14 - November 12, 1987 January, 1989 January, 1990 November, 1992 February, 1993 June, 1993
Indonesia	Java and Sulawesi October - November, 1978 October - November, 1979 September - October, 1980 May - June, 1990
Thailand	November 12 - December 10, 1987 March 22 - April 1, 1988

	November 5-17, 1999 October 22-30, 2004 March 2006 May 1-8, 1988 August 10-15, 1992 November 12 – December 18, 1994 February - March, 1995 May – June, 1996 September – October, 1998 April – May, 1999 January – February, 2000 July – August, 2000 January – February, 2001 January – February, 2002 June 20-28, 2002 October 20-31, 2002 December 1-19, 2002 August 2003 December 2003 May 2004 November, 2004 March 2005 March 2006 July 2006 November 2006 February 2013
Burma	
Brazil	August 1987 November 12 - December 16, 1988
Guatemala	May 6-26, 1989 February 4-21, 1991
Morocco	November - December, 1990
Sri Lanka	July 21-August 4, 1992 February, 1993

Scientific Coordinator: Smithsonian-Nepal Tiger Ecology Project (with Ross Simons, Program Manager, Office of the Assistant Secretary of Science, Smithsonian Institution), 1977-1988

Scientific Advisor: Asian Elephant Ecology Project
Bombay Natural History Society
Funded by U.S. Fish and Wildlife Service
Foreign Currency Program
1987-1992

<u>Related Experience:</u>	1967	Zoological preparator Division of Mammals, National Museum of Natural History (summer)
	1968	Animal Keeper, Scientific Research Department, National Zoological Park (summer)
<u>Academic Affiliations:</u>	1985 - 1988	Adjunct Associate Professor, College of Agriculture and Life

Sciences, Virginia Polytechnic Institute and State University,
Blacksburg, Virginia

1985- 2004

Adjunct Associate Professor, Department of Zoology,
University of Maryland, College Park, Maryland

2004- 2008

Visiting Professor, Yangon University, Myanmar

Fellowships or Grants Awarded:

1970 - 1971	Smithsonian Predoctoral Fellowship, National Zoological Park
1978 - 1980	"Biology and Distribution of the Sulawesi Civet" (with Larry Collins), Smithsonian Scholarly Studies Program (total costs for 3 years, \$11,916; FONZ Research Grant, \$12,000)
1979 - 1980	"Animal Communication" (with J.F. Eisenberg, E.S. Morton, K. Ralls), Smithsonian Scholarly Studies Program (total costs for 3 years, \$131,826)
1986	"Captive ungulate management training", Directorate of International Activities, Smithsonian Institution (total costs for support of two biologists for 6 months each, \$15,200)
1986	"Monitoring Estrous Cycles in Endangered Eld's Deer", Women's Committee of the Smithsonian Associates (\$2,500)
1987	"Third World Zoo Biology and Zoo Animal Management Training Program", Directorate of International Activities (courses in Thailand and West Malaysia, \$25,000)
1987	"Training Conservationists Internationally", Pew Charitable Trusts, Philadelphia, PA - with R. Rudran (to conduct training courses in third world countries, \$200,000)
1987	"An Experimental Investigation of Female Choice in the Burmese Brow-antlered Deer (<i>Cervus eldi thamin</i>)", Smithsonian Institution's Scholarly Studies Program (\$19,000)
1987	"The Role of Mast Crop in Determining Species Abundance and Distribution in Eastern Deciduous Forests" (with Bill McShea), Bailey Research Trust (\$10,475)
1988	"Educating Nationals of Tropical Countries in Wildlife Conservation and Management" (with R. Rudran), Women's Committee of the Smithsonian Associates (funding for a video documentary on wildlife conservation and management course) (\$2,136)
1988	"Training Vietnamese Nationals for the Kouprey Recovery Program" (with David Wildt), Smithsonian International Exchanges Program (\$11,100)
1989	Institutional Support for Wildlife Conservation Education in Southeast Asia (with Anne Marie McShea), Women's Committee of the Smithsonian Associates (\$3,000)
1989	Smithson Society Award of \$35,000 to Establish a Worldwide Electronic Bulletin Board at the Conservation and Research Center
1989	Pew Charitable Trusts Award to Conduct an International Zoo Association Workshop, proposal written for submission by the AAZPA (\$30,000)
1989	"International Conservation Training", Pew Charitable Trusts, Philadelphia, PA - with R. Rudran (to conduct training courses in third world countries, \$300,000)

1990	U.S. Agency for International Development, "Population Biology and Genetics of the Asian Elephant" (\$150,000)
1990	"Genetic and Nutritional Studies of the Asian Elephant", Scholarly Studies Program of the Smithsonian (\$58,110)
1993	Regent's Publication Program of the Smithsonian Institution" (\$7,904)
1995	"Elephant House multi-media exhibit to educate the public about in-situ and ex-situ conservation efforts for elephants", Smithsonian Women's Committee (\$22,500)
1995	"Chatthin Wildlife Sanctuary Education Program", Smithsonian Educational Outreach Program (\$10,845)
1997	"Biodiversity conservation of Chatthin Wildlife Sanctuary, Burma", Friends of the National Zoo (\$5,000)
1998	"Education in Northern Virginia", Smithsonian Institution Women's Committee (\$8,000)
	"Reintroduction of Przewalski horses", Friends of the National Zoo (\$5,000)
	"Declining Amphibian Study Manual", Friends of the National Zoo (\$3,862)
	"South American deer surveys", Friends of the National Zoo (\$15,000)
	"Environmental Education Planning Workshop" (with David Jenkins), Friends of the National Zoo (\$15,000)
	"Sea turtle research and education", Friends of the National Zoo (\$7,000)
1999	"Biodiversity Inventories of Myanmar (Burma): The Fifth Year", Smithsonian Institution Abbott Endowment Fund (\$10,500)
2000	"CRC Environmental Education Program", Friends of the National Zoo (\$20,000)
	"Thamin PHVA in Myanmar", Friends of the National Zoo (\$12,000)
	"Visiting Scientist Support", Friends of the National Zoo (\$5,000)
	"Managing three critical elephant ranges in Myanmar" Disney Wildlife Conservation Fund (\$12,500) U.S. Fish & Wildlife Service Asian Elephant Conservation Fund (\$42,292)
	"Myanmar butterfly conservation project", Disney Wildlife Conservation Fund (\$20,000)
2001	"Sustaining Conservation Programs at the Smithsonian's Conservation & Research Center (CRC)", The Christensen Fund (\$1.2 million)
	"International Training in Wildlife Conservation". The William H. Donner Foundation (\$50,000).
	"Ethics and the Elephant, conference and book project", Walt Disney Co. (\$75,000)
2002	"Burma Elephant Conservation", Jacob Bleibtreu Foundation (\$30,000).
	"Managing three critical elephant ranges in Myanmar", U.S. Fish & Wildlife Service Asian Elephant Conservation Fund (\$50,000)

- 2003** "National Conservation Assessment of Myanmar's Wild Elephant Population", U.S. Fish & Wildlife Service Asian Elephant Conservation Fund (\$50,000) (Leimgruber & Wemmer)
- 2004** "Strengthening the Role of Civil Society in Biodiversity Conservation in Burma through Education, Capacity Building, and Collaborative Research" (Wemmer, Leimgruber and Brunner), Blue Moon Fund (\$90,970)

Publications:

- 1969** Wemmer, C. Impaling behavior of the loggerhead shrike, *Lanius ludovicianus* Linnaeus. *Zeitschrift für Tierpsychologie*, 26:208-224.
- 1971** Wemmer, C. Birth, development and behavior of the fanaloka *Fossa fossa* at the National Zoological Park, Washington, D.C. *International Zoo Yearbook*, 11:113-115.
- 1974** Wemmer, C. and Fleming, M.J. Ontogeny of playful contact in a social mongoose, the meerkat, *Suricata suricatta*. *American Zoologist*, 14:415-426.
- 1974** Ewer, R.F. and Wemmer, C. Behavior of the African civet (*Civetticus civetta*) in captivity. *Zeitschrift für Tierpsychologie*, 34:359-394.
- 1974** Wemmer, C. Design for polar bear maternity dens. *International Zoo Yearbook*, 14:222-223.
- 1974** Wemmer, C. The small feline house--habitats for small cats. *Brookfield Banderlog* No. 41:3-13.
- 1975** Eisenberg, J.F., Collins, L.R., and Wemmer, C. Communication in the Tasmanian devil (*Sacrophilus harrisii*) and a survey of auditory communication in the Marsupialia. *Zeitschrift für Tierpsychologie*, 37:379-399.
- 1975** Wemmer, C. and Fleming, M.J. Management of meerkats, *Suricata suricatta*, in captivity. *International Zoo Yearbook*, 15:74-77.
- 1975** Wheeler, J.W., von Endt, D.W., and Wemmer, C. 5-Thiomethylpentane 2,3-dione. A unique natural product from the striped hyena. *Journal of the American Chemical Society*, 97:442.
- 1976** Wemmer, C. and Johnson, G. L. Egg-breaking behavior in a yellow-throated marten (*Marten flavigula*, Mustelidae; Carnivore). *Zeitschrift für Säugetierkunde*, 41:48-60.
- 1976** Wemmer, C., von Ebers, M., and Scow, K. An analysis of the chuffing vocalization in the polar bear (*Ursus maritimus* Phipps). *Journal of Zoology*, 180:425-439.
- 1977** Wemmer, C. Comparative ethology of the large-spotted genet, *Genetta tigrina*, and related viverrid genera. *Smithsonian Contributions to Zoology*, No. 239, 98 pp.
- 1977** Wemmer, C. and Scow, K. Communication in the Felidae with emphasis on scent marking and contact patterns, pp. 749-766, In: *How Animals Communicate* (Chapter 29). T. Sebeok, ed. Indian University Press.
- 1977** Wemmer, C. Can wildlife be saved in zoos? Captive breeding for survival. *New Scientist*, 75 (1068):585-587.

- 1978** Wemmer, C. and Collins, L.R. Communication patterns in two phalangerid marsupials, the gray cuscus (*Phalanger gymnotis*) and the brush possum (*Trichosurus vulpecula*). *Säugetierkundliche Mitteilungen*, 26(3):161-172.
- 1979** Wemmer, C. The saber tooth syndrome and social organization in carnivorous mammals. *Säugetierkundliche Mitteilungen*, 27:127-132.
- 1980** Wemmer, C. and Murtaugh, J. Olfactory aspects of rutting behavior in the Bactrian camel (*Camelus bactrianus ferus*), pp. 107-124, In: Chemical Signals in Vertebrates and Aquatic Animals. D. Muller-Schwarze and R.M. Silverstein, eds. Plenum Press.
- 1981** Mishra, H., Wemmer, C., Leyrat, J.C., and Maskey, T.M. On chemical immobilization and capture of Rhinoceros in Nepal. In *Wild is Beautiful*, edited by T.C. Majupuris, pp. 466-471. S. Devi, Gwalior, India.
- 1982** Wheeler, J., Ayorinde, F., Wemmer, C., and Murtaugh, J. Volatile components of the occipital gland secretion of the Bactrian camel. *Journal of the American Chemical Society*, 8(1):177-183.
- 1982** Wemmer, C., and Mishra, H.R. Observational learning by an Asiatic elephant of an unusual sound production method. *Mammalia*, 46:556-557.
- 1982** Wemmer, C. and Watling, D. Eye color polymorphism in the babirusa pig. *Malayan Nature Journal*, 36:135-136.
- 1982** Wemmer, C. and West, J. The dermal shield of the lesser mouse deer, *Tragulus javanicus*. *Malayan Nature Journal*, 36:137-139.
- 1983** Wemmer, C., Collins, L., Beck, B., and Leja, B. Ethogram (Chapter 8). In *The Biology and Captive Management of an Extinct Species, Père David's Deer*, edited by B. Beck and C. Wemmer, pp. 193. Park Ridge, N.J., Noyes Publications.
- 1983** Wemmer, C. Morphological characteristics and systematic position. In *The Biology and Management of an Extinct Species, Père David's Deer*, edited by B. Beck and C. Wemmer, pp. 15-25. Park Ridge, N.J., Noyes Publications.
- 1983** Wemmer, C. Social behavior, social structure, and implications for management. In *The Biology and Captive Management of an Extinct Species, Père David's Deer*, edited by B. Beck and C. Wemmer, pp. 126-132. Park Ridge, N.J., Noyes Publications.
- 1983** Wemmer, C., West, J., Watling, D., Collins, L., and Lang, K. The external characters of the Celebes palm civet, *Macrogalidia musschenbrocki*. *Journal of Mammalogy*, 64:133-136.
- 1983** Wemmer, C. and Wilson, D.E. Structure and function of hair crests and capes in African carnivora. In *Behavior and Ecology of Mammals*, edited by J.F. Eisenberg and D. Kleiman, American Society of Mammalogists, Special Publication Number 7:239-264.
- 1983** Mishra, H. and Wemmer, C. Auf Nashornfang mit Elephanten. *Das Tier*, No. 10 (October):14-17.
- 1983** Wemmer, C. and Portillo, T.P. Towards semen collection of exotic ungulates using non-electric methods. In *AAZPA Annual Conference Proceedings*, pp. 195-202.
- 1984** Wemmer, C. Antiphonal calling in the Indian Eagle Owl (*Bubo bubo bengalensis*). *Journal of the Bombay Natural History Society*, 81(3), 693-694.

- 1985** Wemmer, C. Black-footed ferret research: views of a zoo biologist. In *Proceedings of the Black-footed Ferret Workshop*, edited by S.H. Anderson and D.B. Inkley. Wyoming Game and Fish Dept., Laramie, Wyoming.
- 1985** Wemmer, C. A decade of research at the Conservation and Research Center. *Zoogoer*, March/April, pp. 10-15.
- 1985** Wemmer, C., Mishra, H.R., and E. Dinerstein. Unusual use of the trunk for sound production in a captive Asian elephant: a second case. *Journal of the Bombay Natural History Society*, 82:187.
- 1985** Montali, R.J., Freeman, R.A., Collins, L., Wemmer, C., and Bush, M. Pathology survey of captive cervids at the National Zoological Park. Proceedings of the International Symposium on Diseases in Zoo Animals, Turino, Italy.
- 1985** Wemmer, C. and Stüwe, M. Reducing deer populations in large enclosures with drives. *Wildlife Society Bulletin*, 13:245-248.
- 1985** Stüwe, M. and Wemmer, C. Dynamik einer Weisswedelhirsch - Population (*Odocoileus virginianus*) höher Dichte. *Zeitschrift für Jagdwissenschaft*, 31:221-229.
- 1986** Wemmer, C. and Watling, D. Ecology and status of the Sulawesi palm civet (*Macrogalidia musschenbroeki* Schlegel). *Biological Conservation*, 35:1-17.
- 1986** Wemmer, C., Simons, R., and Mishra, H.R. Case history of a cooperative international conservation program: The Nepal Tiger Ecology Project. Bombay Natural History Society Centenary Symposium, Dec. 6-10, 1983.
- 1987** Mishra, H. and Wemmer, C. The Comparative Breeding Ecology of Four Cervids in Royal Chitwan National Park, Nepal. In *Biology and Management of the Cervidae*, edited by C. Wemmer, pp. 259-271. Symposia of the National Zoological Park, Smithsonian Institution Press, Washington, D.C.
- 1987** Wemmer, C. and Wilson, D. Cervid Brain Size and Natural History. In *Biology and Management of the Cervidae*, edited by C. Wemmer, pp. 189-199. Symposia of the National Zoological Park, Smithsonian Institution Press, Washington, D.C.
- 1987** Hutchins, M. and Wemmer, C. Wildlife conservation and animal rights: are they compatible? In *Advances in Animal Welfare Science*, edited by M.W. Fox and L.D. Mickley, pp. 111-137. Humane Society of the United States, Washington, D.C.
- 1987** Poduschka, W. and Wemmer, C. Observations on chemical communication and its glandular sources in selected Insectivora. In *Chemical Signals in Vertebrates*, edited by D. Duvall, Dietland Muller-Schwarze, and Robert M. Silverstein, pp. 609-616. Olfactory Communications Symposium, Laramie, Wyoming.
- 1987** Wemmer, C., Smith, J.L.D., and Mishra, H.R. Tigers in the wild: the bio-political challenges. In *Tigers of the World*, edited by R. Tilson and U.S. Seal, pp. 396-405. Park Ridge, N.J., Noyes Publications.
- 1987** Mishra, H.R., Wemmer, C., and Smith, J.L.D. Tigers in Nepal: Management Conflicts with Human Interests. In *Tigers of the World*, edited by R. Tilson and U.S. Seal, pp. 449-463. Park Ridge, N.J., Noyes Publications.
- 1987** Smith, J.L.D., Wemmer, C., and Mishra, H.R. A Tiger Geographic Information System: The First Step in a Global Conservation Strategy. In *Tigers of the World*, edited R. Tilson and U.S. Seal, pp. 464-474. Park Ridge, N.J., Noyes Publications.

- 1987** Wemmer, C. and Derrickson, S. Reintroduction: the zoobiologist's dream. Prospects and problems of reintroducing captive bred wildlife. In *AAZPA Annual Conference Proceedings*, pp. 48-65.
- 1987** Dinerstein, E. and Wemmer, C. Fruits *Rhinoceros* Eat: Dispersal of *Trewia nudiflora* (Euphorbiaceae) in Lowland Nepal. *Ecology*, 69(6):1768-1774.
- 1987** Wemmer, C. M. (1987). Schooling behavior in tadpoles of the frog *Rana leptodactyla*. *Journal of the Bombay Natural History Society*, 84(2), 463-465.
- 1988** Dinerstein, E., Wemmer, C., and Mishra, H. Adoption in greater one-horned rhinoceros (*Rhinoceros unicornis*). *Journal of Mammalogy*, 69(4):813-814.
- 1988** Collins, L., Wemmer, C., and Smith, J. The Small Animal Facility at the Conservation and Research Center of the National Zoological Park. *International Zoo Yearbook*, 27:327-334.
- 1988** Wemmer, C. and Montali, R. Latrine use and the subcaudal gland of the brow-antlered deer, *Cervus eldi thamin*. *Journal of Mammalogy*, 69(4):815-818.
- 1988** Wemmer, C. and Grodinsky, C. Reproduction in Captive Female Brow-antlered Deer (*Cervus eldi thamin*). *Journal of Mammalogy*, 69(2):389-393.
- 1988** Wemmer, C., Halverson, T., Rodden, M., and Portillo, T. The Reproductive Biology of Female Père David's Deer (*Elaphurus davidianus*). *Zoo Biology*, 8:49-55.
- 1988** Wemmer, C. and Sunquist, M. Felid Reintroductions: Economic and Energetic Considerations. *Proceedings of the Fifth International Snow Leopard Symposium*, Srinagar, India, October 1986, edited by Helen Freeman, pp. 193-205.
- 1988** Ryder, O., Shaw, J., and Wemmer, C. Species, Subspecies, and *ex situ* Conservation. *International Zoo Yearbook*, 27, 134-140.
- 1989** Hölzenbein, S., Wemmer, C.M., and Marchinton, R.L. Radio-controlled Mechanical Drop-net Trigger. *Proceedings of the Annual Conference SEAFWA*, pp. 492-496.
- 1990** Wemmer, C. The Zoo Biology Training Course in Guatemala City. *Zoogoer*, May/June 1990, page 9.
- 1990** Wemmer, C. Keeping Score. *Zoogoer*, March-April, 1990, p. 12.
- 1990** Wemmer, C. International Biology Training: a Method, Progress, and Revelations. In *AAZPA Annual Conference Proceedings*, pp.409-415.
- 1990** Wemmer, C., Pickett, C., and Teare, J.A. Training Zoo Biology in Tropical Countries: A Report on a Method and Progress. *Zoo Biology*, 9(5):461-470.
- 1990** Rudran, A., Wemmer, C.M., and Singh, M. Teaching Applied Ecology to Nationals of Developing Countries. In *Race To Save the Tropics*, edited by Robert Goodland, pp. 125-140. Island Press, Washington, D.C.
- 1990** Monfort, S.L., Wemmer, C., Kepler, T.H., Bush, M., Brown, J.L., and Wildt, D.E. Monitoring ovarian function and pregnancy in Eld's deer (*Cervus eldi thamin*) by evaluating urinary steroid metabolite excretion. *Journal of Reproduction and Fertility*, 88:271-281.
- 1990** Monfort, S.L., Wemmer, C.M., Brown, J.L., and Wildt, D.E. Use of Urinary Hormone Assays for Evaluating Endocrine Patterns Associated With the Long-Day Breeding Season in Eld's Deer (*Cervus eldi*). *The Journal of Experimental Zoology*, Supplement 4:215-218.

- 1990** Miller, B., Biggins, D., Wemmer, C., Powell, R., Hanebury, L., Horn, D., Vargas, A. Development of Survival Skills in Captive-Raised Siberian Polecats (*Mustela eversmanni*) I: Locating Prey. *Journal of Ethology*, 8:89-94.
- 1990** Miller, B., Biggins, D., Wemmer, C., Powell, R., Calvo, L., Hanebury, L., Wharton, T. Development of Survival Skills in Captive-Raised Siberian Polecats (*Mustela eversmanni*) II: Predator Avoidance. *Journal of Ethology*, 8:95-104.
- 1990** Miller, B., Wemmer, C., and Biggins, D. Ferret future. *Zoogoer* 19(1):20.
- 1990** Miller, B., Wemmer, C., Biggins, D., and Reading, R. A proposal to conserve black-footed ferrets and the prairie dog ecosystem. *Environmental Management*, 14(6):763-769.
- 1991** Wemmer, C. Lessons from a Javanese Garden. *Zoogoer*, January-February, 1991, pp. 10-14.
- 1991** Miller, B., Biggins, D., Hanebury, L., Conway, C., Wemmer, C. Rehabilitation of a Species: The Black-Footed Ferret. Ninth Annual Proceedings of the National Wildlife Rehabilitation Association Meetings, February 21-24, 1991, Chicago, Illinois.
- 1991** Wemmer, C. and Anderson, D. Faunal Interest Groups: Zoo Conservation with a Regional Focus. Pp 395-402 In *AAZPA Annual Conference Proceedings*.
- 1991** Wemmer, C. Rambling thoughts on zoo biology and research. American Zoological parks and Aquariums regional Proceedings: 138-146.
- 1992** Mishra, H., Wemmer, C., Smith, J.L.D., Wegge, P. Biopolitics of saving Asian mammals in the wild: balancing conservation with human needs in Nepal. In *Mammal Conservation in Developing Countries. A new Approach*, edited by Per Wegge, pp. 9-35. NORAGRIC Occasional Papers Series C; Development and Environment No. 11.
- 1992** Smith, J.L.D., Mishra, H.R., and Wemmer, C. Large mammal conservation in Asia: the role of land use planning and geographic information systems. In *Mammal Conservation in Developing Countries. A new Approach*, edited by Per Wegge, pp. 64-71. NORAGRIC Occasional Papers Series C; Development and Environment No. 11.
- 1992** Wemmer, C. and Krishnamurthy, V. Methods for taking standard measurements of live domestic Asiatic elephants. In *The Asian Elephant: Ecology, Biology, Diseases, Conservation and Managaement*, edited by E.G. Silas, M. Krishnan Nair, and G. Nirmalan, pp. 34-37. Kerala Agricultural University, Trichur, Kerala India.
- 1993** Wemmer, C., Rudran, R., Dallmeier, F., and Wilson, D. Training developing country nationals is the critical ingredient to conserving global biodiversity. *BioScience*, 43(11):1-14.
- 1993** V. Krishnamurthy and C. Wemmer. Timber Elephant Management in the Madras Presidency of India (1844-1947). Pp. 465-472 In *International Symposium on the Conservation of the Asian Elephant*, edited by J.C. Daniel and D.K. Lahiri-Choudhury. Bombay Natural History Society, India.
- 1993** Monfort, S.L., J.L. Brown, M. Bush, T.C. Wood, C. Wemmer, A. Vargas, L.R. Williamson, R.J. Montali, and D.E. Wildt. Circannual inter-relationships among reproductive hormones, gross morphometry, behaviour, ejaculate characteristics and testicular histology in Eld's deer stags (*Cervus eldi thamin*). *Journal of Reproduction and Fertility*, 98:471-480.
- 1993** Monfort, S.L., L.R. Williamson, C.M. Wemmer, D.E. Wildt. Intensive management of the Burmese brow-antlered deer for effective captive breeding and conservation. *International Zoo Yearbook*, 32:44-56.

- 1993** Monfort, S.L., J.L. Brown, T.C. Wood, C. Wemmer, A. Vargas, L.R. Williamson, and D.E. Wildt. Seasonal patterns of basal and GnRH-induced LH, FSH and testosterone secretion in Eld's deer stags (*Cervus eldi thamin*). *Journal of Reproduction and Fertility*, 98:481-488.
- 1994** Muralidharan, K. and C. Wemmer. Transporting and Storing Field-Collected Specimens for DNA Without Refrigeration for Subsequent DNA Extraction and Analysis. *BioTechniques*, 17(3):420-422.
- 1994** Waugh, D.R. and C. Wemmer. Training in zoo biology: two approaches to enhance the conservation role of zoos in the tropics. In *Creative Conservation, Interactive Management of Wild and Captive Animals*, edited by P.J.S. Olney, G.M. Mace, and A.T.C. Feistner, pp. 207-240. Chapman and Hall, London.
- 1994** Schwede, G., H. Hendrichs, and C. Wemmer. Early Mother-Young Relations in White-tailed Deer. *Journal of Mammalogy*, 75(2):438-445.
- 1994** Schwede, G., H. Hendrichs, and C. Wemmer. Sibling relations in young white-tailed deer fawns *Odocoileus virginianus*. *Mammalia*, 58(2):175-181.
- 1994** Wemmer, C. Memories of Rat Rustlin' on the Panhandle. *Spilogale: The Journal of Asinology*, 75(1):14-15 (Humor; under Arris, A. Strangebug).
- 1994** Wemmer, C. and Derrickson, S. Collection Planning and the Modern Zoo. *Zoo Biology*, 13.
- 1995** Krishnamurthy, V. and C. Wemmer. Veterinary care of Asian timber elephants in India: Historical Accounts and Current Observations. *Zoo Biology*, 14:123-133.
- 1995** Wemmer, C. Gaonbura Sahib - A.J.W. Milroy of Assam. In *A Week with Elephants*, edited by J.C. Daniel & Hemant Datye, pp. 483-496, Bombay Natural History Society & Oxford University Press, Bombay, India.
- 1995** Brown, J.L., Wemmer, C., and Lehnhardt, J. Urinary Cortisol Analysis for Monitoring Adrenal Activity in Elephants. *Zoo Biology*, 14:533-542.
- 1996** Rappole, J. H., Wemmer, C., and Robinson, M. Importance of animal manipulation in conservation studies. *Earthwatch Magazine*, November.
- 1997** Krishnamurthy, K. and C. Wemmer. Timber Elephant Management in the Madras Presidency of India (1844-1947). In *A Week with Elephants*, edited by J.C. Daniel & Hemant Datye, pp. 456-472, Bombay Natural History Society & Oxford University Press, Bombay, India.
- 1996** Wemmer, C. and T.H. Kunz. Mammalian Sign. Pp. 157-176 In *Mammalian Diversity Manual*, edited by Don Wilson.
- 1996** Kunz, T.H., Wemmer, C., and Hayssen, V. Assessment of Sex, Age and Reproductive Condition in Mammals. Pp. 279-290 In *Mammalian Diversity Manual*, edited by Don Wilson.
- 1996** Hutchins, M., Dresser, B., Wemmer, C. Ethical Considerations in Zoo and Aquarium Research. pp. 253-276 In *Ethics on the Ark: Zoos, Animal Welfare and Wildlife Conservation*, edited by B. Norton, M. Hutchins, T. Maple, and E. Stevens. American Association for the Advancement of Science, Washington, DC.
- 1996** Wemmer, C., Erixon-Stanford, M., and Gardner, A.L. Natural History Museums and Cyberspace. *Museum International*, 48(2):35-39.

- 1997** Wemmer, C., Rodden, M., and Pickett, C. Publication Trends in Zoo Biology: A Brief Analysis of the First 15 Years. *Zoo Biology*, 16:3-8.
- 1996** Wemmer, C. Integrating Deer Specialist Group Activities with Biodiversity Research and Protected Area Conservation in Myanmar. *Species* : 48-49.
- 1997** Wemmer, C. The Challenge of Conserving Large Mammals, with an Emphasis on Deer. Pp. 55-66 In *The Science of Overabundance: Deer Ecology and Population Management*, edited by William J. McShea, H. Brian Underwood, and John H. Rappole. Smithsonian Institution Press, Washington, DC.
- 1997** Sukumar, R., Krishnamurthy, V., Wemmer, C., and Rodden, M. Demography of Captive Asian Elephants (*Elephas maximus*) in Southern India. *Zoo Biology*, 16:263-272.
- 1998** Shrestha, S.P., Ullrey, D.E., Bernard, J.B., Wemmer, C., and Kraemer, D.C. Plasma Vitamin E and Other Analyte Levels in Nepalese Camp Elephants (*Elephas maximus*). *Journal of Zoo and Wildlife Medicine*, 29(3):269-278.
- 1998** Godagama, W.K., Wemmer, C., and Ratnasooriya, W.D. The Body Condition of Sri Lankan Domesticated Elephants (*Elephas maximus maximus*). *Ceylon Journal of Science*, 26:1-6.
- 1998** Godagama, W.K., Wemmer, C., and Ratnasooriya, W.D. Spinal conformation of domesticated Sri Lankan elephants (*Elephas maximus maximus*). *Ceylon Journal of Science*, 26:7-11.
- 1998** Stüwe, M., Abdul, J.B., Nor, B.M., and Wemmer, C.M. Tracking the movements of translocated elephants in Malaysia using satellite telemetry. *Oryx*, 32(1):68-74.
- 1997** Hosack, D. A., Miller, K. V., Marchinton, R. L., Wemmer, C. M., and Monfort, S. L. Stag exposure augments progesterone excretion in Eld's deer hinds (*Cervus eldi thamin*). *Mammalia* 62,(3): 341-50.
- 1998** McShea, W. J., Leimgruber, P., Aung, M., Monfort, S., and Wemmer, C. The range collapse of thamin (*Cervus eldi*) and the extent of remaining habitat in central Myanmar. *Animal Conservation* 2: 173-83.
- 1999** Wildt, D.E. and Wemmer, C. Sex and wildlife: the role of reproductive science in conservation. *Biodiversity and Conservation*, 8:965-976.
- 1999** Asher, G. W., Monfort, S. L., and Wemmer, C. Comparative reproductive function in cervids: implications for management of farm and zoo populations. *Journal of Reproduction & Fertility* 54: 143-56.
- 2000**
- 2001** Wemmer, C. The Thamin and a Place called Chatthin. *Zoogoer* 29(5):12-19.
- 2000** Wemmer, C. The elephant wallah's microcosm. *Elephant* 2(4):55-60.
- 2001** Wemmer, C. and Karanth, K.U. Attitudes and Latitudes: Observations and Platitudes. Pp. 208-218 In *AZA Field Conservation Manual*, edited by W.G.Conway, M. Hutchins, M. Souza, Y. Kapetanakis, and E. Paul. Wildlife Conservation Society and Zoo Atlanta, Atlanta.
- 2001** Wemmer, C. and Robinson, J. Innocence Abroad: Conservation Planning and Implementing for the Novice. Pp. 219-226 In *AZA Field Conservation Manual*, edited by W.G.Conway, M. Hutchins, M. Souza, Y. Kapetanakis, and E. Paul. Wildlife Conservation Society and Zoo Atlanta, Atlanta.
- 2001** Robinson, J. and Wemmer, C. Conserving Wumpats: The Role of Partners and Partnerships. Pp. 118-123 In *AZA Field Conservation Manual*, edited by W.G.Conway, M. Hutchins, M. Souza, Y. Kapetanakis, and E. Paul. American Zoo and Aquarium Association, Bethesda, Maryland.

- 2001** Rudran, R. and Wemmer, C. Teaching Conservation Biology to Developing Country Nationals: The National Zoo's Experience. Pp. 240-244 *In AZA Field Conservation Manual*, edited by W.G.Conway, M. Hutchins, M. Souza, Y. Kapetanakis, and E. Paul. Wildlife Conservation Society and Zoo Atlanta, Atlanta.
- 2001** Wemmer, C. The Weak Link of Conservation – Training and Environmental Education. Pp. 228-231 *In AZA Field Conservation Manual*, edited by W.G.Conway, M. Hutchins, M. Souza, Y. Kapetanakis, and E. Paul. Wildlife Conservation Society and Zoo Atlanta, Atlanta.
- 2001** McShea, W.J., Aung, M., Poszig, D., Wemmer, C., and Monfort, S. Forage, habitat use, and sexual segregation by a tropical deer species (*Cervus eldi thamin*) in a dipterocarp forest. *Journal of Mammalogy*, 82:848-857.
- 2001** Fleischer, R. C., Perry, E. A., Muralidharan, K., Stevens, E. E., and Wemmer, C. M. Phylogeography of the Asian Elephant (*Elephas maximus*) Based on Mitochondrial DNA. *Evolution*, 55(9):1882-1892.
- 2002** Wemmer, C. Opportunities Lost: Zoos and the Marsupial That Tried To Be a Wolf. *Zoo Biology*, 21:1-4.
- 2003** Leimgruber, P., J. B. Gagnon, C. Wemmer, D.S. Kelly, M.A. Songer, E.R. Selig (2003). Fragmentation of Asia's remaining wildlands: implications for Asian elephant conservation. *Animal Conservation* 6: 347-359.
- 2004** Miller, B., W.C. Conway, R.P. Reading, C. Wemmer, D. Wildt, D. Kleiman, S. Monfort, A. Rabinowitz, B. Armstrong, and M. Hutchins. Evaluating the conservation mission of zoos, aquariums, botanical gardens, and natural history museums. *Conservation Biology* 18(1):86-93.
- 2004** Wemmer, C., Zug, G., and W.J. Kress. Smithsonian Collaborations in Myanmar: a compilation of projects and activities between 1994 and 2003. Smithsonian Institution, 24 pages (printed report with illustrations)
- 2004** Aung, M. K. K. Swe, T. Oo, K. K. Moe, P. Leimgruber, T. Allendorf, C. Duncan, C. Wemmer. The environmental history of Chatthin Wildlife Sanctuary, a protected area in Myanmar (Burma). *Journal of Environmental Management* 72:205-216
- 2005** Wemmer, C. and M. Sunkist. Obituary: John Frederick Eisenberg 1935-2003. *Journal of Mammalogy*. 86(2):429-437.
- 2006** Wemmer, C, Leimgruber, P, Kelly, Y. Htut, D. M. Aung. Managing wild elephants in Alaungdaw Kathapa National Park & Htamanthi Wildlife Sanctuary, Sagaing Division, Myanmar. Smithsonian National Zoological Park, Washington, D.C. 54 pp.
- 2007** Wemmer, C., V. Krishnamurthy, S. Shrestha, L.-A Hayek, M. Thant, K.A.Nanjappa. Assessment of body condition in Asian elephants. *Zoo Biology* 25(3):187-200.
- 2008** Leimgruber, P., Senior, B., Uga, Aung, M., Songer, M.A., Mueller, T., Wemmer, C., Ballou, J.D. Modeling population viability of captive elephants in Myanmar (Burma): implications for wild populations. *Animal Conservation*, 11(3): 198-205.
- 2009** Allendorf, T., K.K. Swe, T. Oo, Y. Htut, M. Aung, M. Aung, P. Leimgruber, and C. Wemmer. Community attitudes toward three protected areas in Upper Myanmar (Burma). *Environmental Conservation*, 33(4):344-352. (2006)
- 2010** Leimgruber, P., Zaw Min, O. O., Aung, M., Kelly, D. S., Wemmer, C., Senior, B., & Songer, M., Current status of Asian elephants in Myanmar. *Gajah*, 35, 76–86. (2011)

- 2011** Wemmer, C. Subsistence Living in the Burmese Forest. Pp ____ - _____. In William J. McShea, Stuart J. Davies, and Naris Bhumpakphan. *The Ecology and Conservation of Seasonally Dry Forests in Asia*, Smithsonian Institution Scholarly Press, 2011,
- 2012** Songer, M., Aung, M., Sway, K.K., Oo, T., Allendorf, T. Wemmer, C. and Leimgruber, P. Proximity and Economics as driving forces for forest use and conservation attitudes in dry forests of Asia—A case study from Chatthin Wildlife Sanctuary in Myanmar (Burma). Chapter in book edited by Jeff McNeely (Society for Conservation Biology)

Books:

- 1983** *The Biology and Management of an Extinct Species: Père David's Deer.* Edited by B. Beck and C. Wemmer. Noyes Publications, Park Ridge, New Jersey, 193 pp.
- 1987** *The Biology and Management of the Cervidae.* Edited by C. Wemmer. Symposia of the National Zoological Park, Smithsonian Institution Press, Washington, D.C.
- 1995** *The Ark Evolving: Zoos and Aquariums in Transition.* Edited by C. Wemmer. Symposium of the American Association of Zoological Parks and Aquariums. Conservation and Research Center, Front Royal, Virginia.
- 1998** *Deer. Status Survey and Action Plan.* Edited by C. Wemmer. IUCN/SSC Deer Specialist Group, Gland, Switzerland, 106 pp.
- 2008**
- 2009** *Elephants and Ethics, toward a morality of coexistence.* Johns Hopkins University Press, Baltimore, (Edited by C. Wemmer and Kate Christen) 512 pp.
- 2010**
- 2011** **Unpublished.** *A Zoo Biologist's Manual*, with J. Andrew Teare and Charles Pickett.
- 2024** *A Camera Trapper's Companion.* BRG Scientific, Washington D.C. 290 pp.

Newsletters:

Newsletter of the Deer Specialist Group. Species Survival Commission, IUCN (editor).
Conservation and Research Center Newsletter. (Ed.) (ca.1990-1998)

Films:

- 1975** Wemmer, C. and LaFrance, L. Play behavior in the meerkat, *Suricata suricatta* (Viverridae, Carnivora). *Encyclopedia Cinematographica* (Gottingen, DBR).
- 2009
- present 65 films about wildlife behavior using camera trapping footage, coedited with collaborators. YouTube channel titled: "Camera Trap Codger"

Published Abstracts:

- 1971** Scent-marking and anointing: parallel evolution of mammalian behavior. *American Zoologist*, 11(4):623 (Abst. No. 26).
- 1987** Rudran, R., Wemmer, C., and Singh, M. The application of ecology to enhancing economic development in the humid tropics. AIBS Workshop, April 12, 1987, Columbus, Ohio.
- 1987** Monfort, S.L., Wemmer, C., Bush, M., Kepler, T.H., and Wildt, D.E. Effective Diagnosis of Pregnancy and Parturition Onset in Eld's deer (*Cervus eldi*): Evaluation of Urinary Hormonal Metabolites. Proceedings of the American Association of Zoo Veterinarians Conference.
- 1988** Monfort, S.L., Kepler, T.H., Wemmer, C., Bush M., and Wildt, D.E. Urinary Steroid Metabolites Excretion in Eld's Deer (*Cervus eldi*) A Noninvasive Method for Monitoring Ovarian Function in Cervidae. Eleventh International Congress on Animal Reproduction and Artificial Insemination, Dublin, Ireland, June 1988.

Book Reviews:

Kummer, H. Social organization of Hamadryas baboons, a field study. *Journal of Mammalogy*, 51(1):208-209.

Shirk, P. and Swank, W. African antelope. *Smithsonian Magazine*, August, 1971, p. 62.

Schaller, G.B. The Serengeti Lion. *Field Museum Bulletin*, November, 1972.

Kruuk, H. The spotted hyena. *Journal of Mammalogy*, 1972, 54(2):553-554.

Rudnai, J.A. The social life of the lion. A study of the behavior of wild lions (*Panthera leo massaica* Newmann) in the Nairobi National Park, Kenya. *Quarterly Review of Biology*, 1975, 50:357.

Lopez, B.H. Of wolves and men. *Smithsonian Magazine*, 1978, 9(8):194-195.

Gauthier-Pilters, H. and Dagg, A.I. The camel, its evolution, ecology, behavior and relationship to man. *Science*, 214:653-654.

Riney, T. Study and management of large mammals. *BioScience*, 1983, 33(1):623.

Supervision of Graduate Students:

Postdoctoral Programs:

Richard Yahner (Ph.D., University of Ohio): The function of barking in Reeve's muntjac (*Muntiacus reevesi*).

Joel Berger (Ph.D., University of Colorado): Ontogeny of play and combat in onagers (*Equus hemionus*) and Grant's zebras (*Equus burchelli*).

Sharon Pfeifer (Ph.D., University of Colorado): Weaning conflict and weaning delay strategies in the scimitar-horned oryx (*Oryx dammah dammah*).

Michael Stüwe (Ph.D., University of Bielefeld): Population biology and genetics of reintroduced populations of alpine ibex.

Brian Miller (Ph.D., University of Wyoming): Reintroduction Techniques for the Black-footed Ferret (*Mustela nigripes*) Using a Congeneric Surrogate, the Siberian Polecat (*Mustela eversmanni*).

Ph.D. Programs:

Hemanta Mishra (Ph.D. program, University of Edinburgh; Iain Taylor, advisor): Social organization and use of space in the axis deer (*Axis axis*) in Royal Chitwan National Park, Nepal.

James L. David Smith (Ph.D. program, University of Minnesota, 1984; Peter A. Jordan, advisor): Dispersal, communication, and conservation strategies for the tiger (*Panthera tigris*) in Royal Chitwan National Park, Nepal.

Michael Stüwe (Ph.D. program, University of Bielefeld; 1986 Hubert Hendrichs, advisor): Behavior and ecology of a semi-enclosed white-tailed deer (*Odocoileus virginianus*) population.

Georg Schwede (Ph.D. program, University of Bielefeld; 1986 Hubert Hendrichs, advisor): Mother-Offspring Relations in White-tailed Deer.

Stefan Holzenbein (Ph.D. program, University of Georgia; 1988, Larry Marchinton, advisor): Spatial Organization and Social Behavior of Maturing White-tailed Deer Males (*Odocoileus virginianus*).

Brian Miller (Ph.D. program, University of Wyoming; 1988): Conservation and Behavior of the Endangered Black-footed Ferret (*Mustela nigripes*) with a Comparative Analysis of Reproductive Behavior Between the Black-footed Ferret and the Congeneric Domestic Ferret (*Mustela putorius furo*).

Tashi Wangchuk (Ph.D. program, University of Maryland; 2002): Conservation biology of the golden langur (*Trachypithecus geei*) in Bhutan. (Committee member)

Master's Programs:

Frank Kohn (M.A., Connecticut College, New London, Connecticut, 1979): Olfactory communication in the binturong, *Arctictis binturong*: (Carnivora: Viverridae).

Stefan Fleischer (M.A., University of Bielefeld, 1986; Hubert Hendrichs, advisor): Activity and mobility of white-tailed deer (*Odocoileus virginianus*) during the rut.

Georg Schwede (M.A., University of Bielefeld, 1985; Hubert Hendrichs, advisor): (N.B.: Schwede participated in a joint master's research project with Fleischer, as practiced in the German academic system).

Kathleen Mahlke Johnson (M.A., University of Maryland, 1986): Thermal lability in the captive binturong (*Arctictis binturong*).

Jay Narayan Mehta (Master's program, Department of Fisheries and Wildlife, Virginia Polytechnic Institute and State University, 1986; Dr. Gerald Cross, advisor): White-tailed deer density and habitat relationships.

Pan Khang Aun (Master's of Science [Zoology], Department of Zoology, University of Malaya, April, 1991): Biological Studies of Sambar Deer, *Cervus unicolor*, in Peninsular Malaysia.

Laura Kay (Master's of Science [Zoology], Department of Zoology, University of Maryland, August, 1995): Attractive but Unreceptive Phase in the Estrous Cycle of Macropods.

Khin Maung Oo. (Ph. D. 2006, Yangon University, Myanmar; 2006). Ecology of the Burmese Hare (*Lepus penguensis*) in Chatthin Wildlife Sanctuary, Myanmar (co-advisor with Dr. Win Maung, Department of Zoology)

Khant Khant Chaw, (Ph. D. 2006, Yangon University, Myanmar; 2004). The ecology of mound building in the indaing earthworm (Megachilidae, Oligochaeta) in Chatthin Wildlife sanctuary, Myanmar. (co-advisor with Dr. Win Maung, Department of Zoology)

Khin Ma Ma (Ph. D. 2005, Yangon University, Myanmar; 2006). The biodiversity of ants in Chatthin Wildlife Sanctuary, Myanmar. (co-advisor with Dr. Win Maung, Department of Zoology)

External Examiner of Advanced Degrees

Su Su, 2003. The ecology of the small carnivore community in Hlawga Wildlife Park, Myanmar. 169 pp. Ph. D. Dissertation, Department of Zoology, Yangon University, Myanmar

Yin Yin Toke, 2004. An analysis of wing morphology of some Myanmar echolocating bats. 121 pp Ph. D. Dissertation, Department of Zoology, Yangon University, Myanmar

Tin Tin Aye, 2005. Correlation between age, growth rate and sex reversal in sea bass *Lates calcarifer* (Bloch 1790) based on otolith, scale microstructure and length parameters. Ph. D. Dissertation, Department of Zoology, Yangon University, Myanmar.

Papers Presented at Meetings/Professional Lectures:

1967 Cooper Ornithological Society, Western Division Meeting, Berkeley, California.

Paper: Impaling behavior in the loggerhead shrike.

- 1970** American Society of Mammalogists Annual Meeting, College Station, Texas.
Paper: Predatory behavior of the genet, *Genetta tigrina*, in captivity.
- 1973** American Society of Zoologists, Annual Meeting, Houston, Texas
Symposium: "Social Play in Mammals"
Paper: Ontogeny of playful contact in the meerkat, *Suricata suricatta*.
- 1973** 13th International Ethology Conference, Washington, D.C.
Paper: Comparative ethology of genets and civets (family Viverridae)
- 1974** Discussion at the Second International Conference on the Ecology Conservation of the World's Cats.
World Wildlife Safari, Winston, Oregon.
- 1974** Deutsche Säugetier Gesellschaft Annual Meeting, Erlangen, Germany
Film presentation: Meerkat behavioral ontogeny

- 1974** Animal Behavior Society Meetings, University of Illinois, Urbana, Champaign, Illinois
- Paper: An analysis of the chuffing call in the polar bear (*Ursus maritimus* Phipps) (with K. Scow and M. von Ebers).
- 1974** Third International Conference on the Ecology and Conservation of the World's Cats, Seattle, Washington.
- Paper: The "do's and don'ts" of breeding small cats.
- 1974** Animal Behavior Society, Annual Meeting, Champaign-Urbana, Illinois Symposium: "Levels of nervous control of instinctive motivated behavior".
- Paper: A review of predatory behavior of carnivores.
- 1975** 14th International Ethology Conference, Parma, Italy
- Roundtable organizer: "Vocal communication in mammals".
- 1976** American Association for the Advance of Science, Boston, Massachusetts. Symposium: "Zoos and Wildlife Conservation".
- Paper: A long range breeding program for ungulates at Front Royal
- 1978** American Society of Mammalogists, 58th Annual Meeting, University of Georgia, Athens.
- Paper: Reproduction in the binturong (*Arctictis binturong*)
- 1979** American Society of Mammalogists, 59th Annual Meeting, Oregon State University, Corvallis.
- Paper: Rutting Behavior in the Bactrian Camel (*Camelus bactrianus*).
- 1981** American Society of Mammalogists, 61st Annual Meeting, Miami University, Oxford, Ohio
- Paper: Observations on the Celebes civet (*Macrogalidia musschenbrockii*) in the wild. (with J. West, D. Watling, L. Collins, and K. Lang).
- 1981** International Union of Directors of Zoological Gardens, Annual Meeting, National Zoo, Washington, D.C.
- Paper: Captive management of the brow-antlered and Père David deer.
- 1982** American Society of Mammalogists, 62nd Meeting, University of Utah, Snowbird.
- Paper: Antler form and function of Père David's deer (*Elaphurus davidianus*).
- 1982** International Workshop on the Management of Elephants in the Wild and Captivity (December, 1982), Jaldapara Wildlife Sanctuary, West Bengal, India.
- Paper: The Principle of Carrying Capacity (Keynote paper).
- 1982** V.P.I. Student Chapter of the Wildlife Society (11 January 1983), Blacksburg, Virginia.
- Lecture: White-tailed deer management and public controversy.

- 1983** American Society of Mammalogists, 63rd Annual Meeting, University of Florida, Gainesville.
Paper: The subcaudal gland and latrine use of the Eld's deer (*Cervus eldi thamin*).
- 1983** American Association of Zoological Parks and Aquariums (September 18-22), Vancouver, British Columbia, Canada.
Paper: Methods in the art of semen collection in exotic ruminants.
- 1983** University of Minnesota, Dept. of Fisheries and Wildlife, Minneapolis, Minnesota, 17 October 1983.
Lecture: The Front Royal white-tailed deer controversy.
- 1983** Minnesota Zoological Gardens, Apple Valley, Minnesota, 18 October 1983
Lecture: Research in the Zoo
- 1983** Bombay Natural History Society Centenary Meeting (December 6-10), Bombay, India.
Paper: The SI-Nepal Tiger Ecology Project: Case History of a Program in Cooperative International Conservation.
- 1984** Fish and Wildlife Service, USDI, staff meeting guest (26 April).
Lecture: Advances in conservation of endangered species at the National Zoo.
- 1985** World Wildlife Fund - India, Life Environment Awareness Foundation (LEAF), and Center for Wildlife Studies, Mysore, Karnataka, 8 May 1985.
Lecture: Ten years with the wild tigers of Nepal.
- 1985** State Museum and Zoo Centenary Celebration, Trichur, Kerala, 10 May 1985.
Lecture: Prospects for long term survival of the Asian elephant in captivity in India.
- 1985** American Society of Mammalogists, 65th Annual Meeting, University of Maine, Orono.
Paper: Female reproduction in a tropical cervid: the brow-antlered deer (*Cervus eldi thamin*). C. Wemmer and C. Grodinsky; paper presented by C. Grodinsky.
Paper: Dispersal of a riverine forest tree (*Trewia nudiflora*: Euphorbiaceae) by the greater one-horned rhinoceros (*Rhinoceros unicornis*). (E. Dinerstein, H.R. Mishra, and C. Wemmer).
- 1985** Unity College, Unity, Maine (4 October).
Lecture: Husbandry of the Asiatic Elephant -- Past, present, and future.
- 1985** Research Access Conference, Smithsonian Institution and Social Science Research Council, Washington, D.C. (6-7 November).
Lecture: Biological field studies: case studies of experiences in South America and South Asia (with R. Rudran).

- 1986** International Symposium, World Conservation Strategies for Tigers, Minnesota Zoo, Minneapolis/St. Paul (13-16 April).
- Lecture: Future challenges to managing tigers in the wild (with J.L.D. Smith and H.R. Mishra).
- 1986** American Society of Mammalogists, 66th Annual Meeting, University of Wisconsin, Madison, Wisconsin.
- Paper: Weaning dynamics of the Reeve's muntjak (*Muntiacus reevesi*) (with Carolyn Grodinsky).
- 1986** Applying Animal Behavior Research to Zoo Animal Management Workshop, Woodland Park Zoo, Seattle, Washington (19-26 July).
- Keynote Address: Reflections and Adventures of a Researcher in Zooland.
- 1986** Zoo Focus '86 - '87 Wildlife Lecture Series, The Friends of the Washington park Zoo, Portland, Oregon (18 November).
- Keynote Address: Breeding for Survival: Captive Propagation of Endangered Species at the National Zoo's Conservation and Research Center.
- 1986** The Fifth International Snow Leopard Symposium, The Wildlife Institute of India and the International Snow Leopard Trust, under the auspices of the Department of Environment, Forests, and Wildlife - Government of India (13-15 October).
- Paper: Snow Leopard Reintroduction: Economic and Energetic Considerations (with Mel Sunquist).
- 1987** American Association of Zoological Parks and Aquariums Annual Conference, Portland, Oregon, September 1987.
- Paper: Reintroductions: the zoobiologists dream. Prospects and problems of reintroducing captive bred wildlife (with Scott Derrickson).
- 1987** Kerala Forest Research Institute, Peechi
Bombay Natural History Society, Bombay, India
Zoological Society of Calcutta, Adipore Zoo, Calcutta, India
- Lecture: Reproduction and captive propagation of the Eld's deer.
- 1988** International Union for the Conservation of Nature and Natural Resources, SSC Meeting, San Jose, Costa Rica, February 1-10.
- Lecture: Wildlife reintroduction.
- 1988** University of Wyoming, Laramie, November 10.
- Lecture: Ecology of endangered ungulates.
- 1988** American Society of Mammalogists, 68th Annual Meeting, University of Alaska, Fairbanks, Alaska
- Paper: Biopolitics of International Conservation
- 1989** Symposium of the National Zoological Park on the History and Evolution of the Modern Zoo
- Lecture: The Step Beyond the Zoo: The Biopark

- 1990** American Association of Zoological Parks and Aquariums, Annual Conference.
Paper: International Zoo Biology Training: a Method, Progress, and Revelations
- 1991** The British Council course on Wildlife Economics and Management: Policy and Practice
Paper: The Value of Outreach Workshops
- 1991** American Association of Zoological Parks and Aquariums, Annual Conference.
Paper: Faunal Interest Groups: Zoo Conservation with a Regional Focus (with David Anderson)
- 1992** American Association of Zoological Parks and Aquariums Zoo and Aquarium Management School - Applied Zoo and Aquarium Biology School
Paper: Research in Zoos and Aquaria
- 1993** International Seminar on the Conservation of the Asian Elephant, Mudumalai Wildlife Sanctuary, Tamil Nadu, India, 13-18 June 1993
Paper: Gaonbura Sahib - A.J.W. Milroy of Assam
- 1995** The Society for Conservation Biology - Annual meeting, June 7-11, 1995, Fort Collins, Colorado
Paper: When hot spots become hot potatoes...
- 1998** The Society for Conservation Biology – Annual meeting, June 1998, Sydney, Australia
Lecture: A Year in the Life of a Village Rat-catcher
- 1998** Smithsonian / Capitol Hill Lecture Series – June 1998, Washington, DC
Lecture: The Biopolitics of Conserving Asia's Protected Areas, Tigers, Rhinos, & Elephants
- 2000** The Asian American Forum –February 2000, Washington, DC
Lecture: Charismatic Mega-vertebrates of Southeast Asia: Past and Present Programs to Save these Endangered Species
- 2000** Old Asian Hands – Spring Luncheon, May 16, 2000, New York, New York
Lecture: Smithsonian Projects in Myanmar
- 2000** GLOBE USA – Biodiversity and the Threat of Invasive Species briefing, May 22, 2001 – Washington, DC
- 2002** American Association for the Advancement of Science – June 2002, Washington, DC
Lecture: Climbing the Learning Curve: Smithsonian Experiences in International Conservation
- 2002** Natural Science Collections Alliance – June 7, 2002, Washington, DC
Lecture: Smithsonian Alliances for Conservation and Biodiversity Surveys in Myanmar (Burma)
- 2002** Second Conference on Environmental Education and Research for Sustainable Development – June 24 – 28, 2002, Yangon University, Myanmar

Lecture: Biodiversity Conservation in the Protected Areas of Myanmar

2003 Department of Zoology, Yangon University, Burma
August 25, 2003, Departmental Seminar
Home range and territoriality in mammals

2004 American Society for Environmental History and the National Council on Public History, Joint Annual Conference, 31 March – 4 April 2004, Victoria, B.C.
Lecture: The manifest destiny of “biodiversity institutions” in colonial Burma.

2005 Biodiversity and Nature Conservation Association, Yangon, Burma, March 6
Lecture: The Smithsonian's conservation project in Chatthin Wildlife Sanctuary

2006 Biodiversity and Nature Conservation Association, Yangon, Burma, March 12
Lecture: A history of Smithsonian's Nepal Tiger Conservation Project.

Special Services:

A. Smithsonian Institution Service

1. Alternate Committee Member: Committee for Evaluation of Professional Achievement (1981).
2. Scientific Consultant (Project Manager as of 1977-1987): SI-Nepal Tiger Ecology Project.
3. Committee Member (Environmental Sciences): Academic Program Committee (graduate and post-doctoral fellowships).

B. Editorial Reviewing and Consulting

Journal of Mammalogy
Animal Behavior
National Geographic
BioScience
Quarterly Review of Biology
Smithsonian Magazine
Carnivore (now defunct)
Canadian Journal of Zoology
Ecological Society of America
Journal of Zoology
Journal of Vertebrate Paleontology

C. Grant Reviewing

National Science Foundation
National Geographic Society
Guggenheim Foundation
World Wildlife Fund - U.S.
Wildlife Conservation Society
U.S. Fish & Wildlife Service
National Fish & Wildlife Foundation
Conservation International

D. Activities in Professional Organizations

American Society of Mammalogists member: Committee on Legislation and Regulations (1986-1988); Conservation of Land Mammals Committee (1986-1990); IUCN Representative (1989-present).

Society for the Study of Evolution member: 1965-1990

Animal Behavior Society: 1965-1994

The Wildlife Society: Ad hoc Committee on Management of Exotic Animals in North America

American Zoo and Aquarium Association: Professional member; Board of Directors (1988-1990); Chair of the SSP Subcommittee (1987-1989); and Vice Chairman on the Wildlife Conservation Management Committee; International Zoo Liaison Committee member (1987-1989); Chairman of the International Relations Committee (1990-1992); History Committee (1994-2000)

Appalachian National Scenic Trail Advisory Council (1978-1986)

Bombay Natural History Society: member

Malayan Nature Society: member

IUCN SSC Deer Specialist Group - Vice Chairman (1983-1988); Deputy Chairman, N. America (1988-1992); Chairman (1991-2000)

D. Activities in Professional Organizations (Continued)

IUCN SSC Mustelid and Viverrid Specialist Group member (1983-1985; 1985-1987)

IUCN SSC Trade Specialist Group member (1986 – ca. 2000).

National Research Council's Panel on Microlivestock member (November 1, 1986 - October 31, 1987).

Sociedade de Zoológicos do Brasil (Honorary member)

Society for Conservation Biology: Board of Governors (1993-1996).

Popular Films

2014: Appeared in BBC's 3 part film, "Wild Burma, Nature's Lost Kingdom":