

## **Curriculum Vitae (October 2017) CRAIG CARPENTER DOWNER**

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Born: Reno, NV: 4th Generation Nevadan, descendent of early pioneers.

### **Academic Background:**

Arts Baccalaureate degree in Biology: Plan Ecology, University of California-Berkeley. Honor Roll. 1972.

Master's of Science degree, University of Nevada, Reno. 1976. Biology; specialization: wildlife ecology. Study of movement patterns of grazing ungulates worldwide, and field study of Pine Nut Range wild horses, western Nevada.

PhD studies, Dept. of Systematics & Ecology, Univ. of Kansas-Lawrence. 1979 & 1985. All course requirements met for doctorate with excellent grades, A average. Top of class in Biometry.

PhD studies, Biology Dept., Univ. of Durham, UK. 1988-1993. (Candidature level attained, needed financial support to get diploma.) This was sponsoring Univ. for my Mountain Tapir Study in Ecuador.

Academic Visitor: Sch. Biol. Sci., Univ. Coll. N. Wales-Bangor 1994. Compiled mountain tapir data and composed four major publications for major journals, book publishers. Gave talks. Welsh Hiking Club.

Western Nevada College, Spring & Fall 2008, Spring 2009 Piano, Individual instruction. A's. Since 2006, I worked up my original melodies for *Wild Horse Rhapsody*: 45 minute CD on piano, w/ Joanne Grauer. Gave piano concert: original melodies & speech "These beautiful melodies that come to me" Reno 2009.

### **Partial List of Publications by Craig C. Downer:**

The Wild Horse Conspiracy, 2011 & new edition 2014. [www.amazon.com/dp/1461068983](http://www.amazon.com/dp/1461068983). Illustrated. Index and Bibliography. 313 pages. Excellent reviews received for book.

America's Wild Horses and Burros Must Make a Comeback! Horseback Magazine. Three parts, first week March, 2016. Links are: <http://horsebackmagazine.com/hb/archives/49953> for part 1; <http://horsebackmagazine.com/hb/archives/50019> for part 2; and <http://horsebackmagazine.com/hb/archives/50053> for part 3. A 60-page booklet by the same title and with color photo illustrations and borrowing from this article and other new sources published early 2017.

Avoid being manipulated by "selfish interests" in managing America's wild horses, ecologist tells board. <https://www.horsetalk.co.nz/2017/10/17/avoid-selfish-interests-wild-horses-ecologist/>

Let horses be wild, not slaves. Reno Gazette Journal, Reno, Nevada. One View editorial, pg. 4A. 8/25/15

Wild Horses: Living Symbols of Freedom, 1977. Western Printers and Publishers, Sparks, NV. Illustrated.

The horse and burro as positively contributing returned natives in North America. *American Journal of Life Sciences* 2014; 2(1): 5-23. <http://www.sciencepublishinggroup.com/j/ajls> doi: 10.11648/j.ajls.20140201.12

Wild and Free-Roaming Horses and Burros of North America: Factual and Sensitive Statement – How They Help the Ecosystem. *Natural Horse* (December 2005) 7(3): 10-11.

Deserts Ch. **In:** T. Hare, editor: *Nature Worlds*, MacMillan Reference. London, U.K.: Duncan Baird Publishers; 1994: 116 ff. Co-authored with R. Oxley.

Conservationist with a Heart: A Brief Sketch of the True Lady Wild Horse Annie, Velma B. Johnston. *Natural Horse* (July-August) 10(4): 22-24. Also presented at convention of Nevada Women's History Project in Carson City, NV and presented in altered version on their website: <http://www.nevadawomen.org>.

Twin Peaks HMA Post Roundup Survey. With J. Johnston. 2010. Published online.

Twin Peaks Wild Horse and Burro Herd Management Area Aerial Population Survey. Flight of 10/4/2012. With J. Johnston. 2012. Published online.

Northern California/Nevada Border Twin Peaks Wild Horse and Burro Herd Management Area Aerial Population Survey November 26, 2013. With J. Johnston and K. Scott. 2014. Published online.

Proposal for wild horse/burro reserve design as a solution to present crisis. *Natural Horse*. 2010; 12(5): 26-27. Also presented at BLM Wild Horse and Burro Workshop (6/14/2010) and National Wild Horse and Burro Advisory Board meeting (6/15/2010), both in Denver, Colorado.

Wild & Free-Roaming Horses & Burros of North America, *Natural Horse*, May, 2005, with photo illus.

Ecological Report on Salt River (AZ) Wild Horse Herd & Associated Ecosystem. 12/19/2012. For Respect for Horses, Chino Valley, AZ. 11 pages. Based on field survey & research. Sent to Tonto National Forest.

INSIGHTS: Wild Horses in the Wild - Targets of Ruthless Exploiters. *Environmental News Service*. 7/7/06 [www.ens-newswire](http://www.ens-newswire)

Commentary: Restoration can help wild horses come back. *Albuquerque Tribune*, N.M. Dec. 2006

The Past, Present & Future Status of Wild Horses: An Indispensable Challenge for Our Times. *Natural Horse*. Cover story. 9-10/2007.

Overgrazing is by humankind. *Bulletin of the Theosophy Science Study Group*. 1987; 25(5, 6): 57-60.

*Tapirus pinchaque* (Perissodactyla: Tapiridae). M. Padilla, R.C. Dowler, and C.C. Downer. 26 July 2010. American Society of Mammalogists. *Mammalian Species* 42(863): 166-182. Over decade in preparation. My works are extensively cited in this erudite and exhaustive publication.

The mountain tapir (*Tapirus pinchaque*) and Andean bear (*Tremarctos ornatus*): two charismatic, large mammals in South American tropical montane cloud forests. Co-authored along with J. Cavelier, D. Lizcano, and E. Yerena. Pages 172-181. **In:** L.A. Bruijnzeel, F.N. Scatena, & L.S. Hamilton, editors: Tropical montane cloud forests: science for conservation and management. Cambridge University Press, UK.

Status and Action Plan for the Mountain Tapir (*Tapirus pinchaque*). 1997. **In:** Tapirs: Status Survey and Conservation Action Plan (D.M. Brooks, RE. Bodmer, S.M. Matola, Eds.) .IUCN SSC TGS, Gland, Switz.

Observations on the diet and habitat of the mountain tapir (*Tapirus pinchaque*). *Journal of Zoology, London*. 7/2001. (Cover story)

Un Caso de Mutualismo en los Andes: Observaciones sobre Dieta-Habitat del Tapir de Montana. 1999. **In:** Manejo y Conservacion de Fauna Silvestre en America Latina Proc. Int'l. Conf. on Wldf. Mgmt., Santa Cruz de la Sierra, Bolivia (Dec. 1997): 415-427.

"Tapirs". **In:** Mammals IV. Vol. 15 of Grzimek's Animal Life Encyclopedia, eds. D.G. Kleiman, V. Geist, M. Hutchins, & M.C. McDade, 15:237-248. Farmington Hills, Mich.: Gale Group, 2003.

The Gentle Botanist. 1995 (August). *Wildlife Conservation*, 98(4):30-35. WCS-NYZS.

The Mountain Tapir, Endangered 'Flagship' of the High Andes. 1996 (Jan.). *Oryx* 30(1):45-58. FFPS, U.K.

Uphill Struggles. 1996 (Febr.). *BBC Wildlife*, 14(2):24-31. Received hundreds of responses worldwide.

Bigfoot of the Andes. 1996 (Nov.-Dec.). *Nature Conservancy (TNC)* 46(6):8-9.

Tame or Reclaim? (on Sangay N.P.). 1996 (Nov.). *Landscape Design (U.K.)*, 255:29-32.

*Deserts* chapter. 1994. (w/ R. Oxley). **In:** *Nature Worlds*. Pp. 114-121. Duncan Baird Publ., MacMillan UK.

A Paramo Paradise: Colombia's Las Hermosas National Park (w/ photos. Cover story). 1981 (Febr.). *Americas*. Organization of American States, Washington, DC. (In English, Spanish & Portuguese.)

Ambito Hogareno y Utilizacion de Habitat del Tapir Andino e Ingreso de Ganado en el Parque Nacional Sangay, Ecuador. 2002. Proceedings: Conf. Biodiversity Andean and Amazonian, INKA, Munich, Germany & Cusco, Peru. (Delivered keynote public address at this conference.) Also publ. in *Lyonia* 4:31-34. 2003.

Un registro de tapir de montana (*Tapirus pinchaque*) en el norte de la Cordillera Occidental de Colombia. Co-authored with Andres Arias-Alzate, Carlos A. Delgado-V., & Juan D. Sanchez-Londono. January 2010. *Mastozoologia Neotropical*. Volume 17, number 1. Mendoza, Argentina. Based on museum, literature, & field research by these Colombian biologists from Medellin & myself, article documents a new distribution of the mountain tapir in the Western Andes of northern Colombia in the recent past. Link: [www.scielo.org.ar/scielo.php?script=sci\\_arttext&pid=50327-93832010000100011](http://www.scielo.org.ar/scielo.php?script=sci_arttext&pid=50327-93832010000100011)

Bericht ueber eine oeffentliche Befragung ueber Bergtapire, Natur und Artenschutz bei den Anwohnern des Sangay National Park, Ecuador. ZGAP-Mitteilungen 18:10-12. 2002. Details of mtn. tapir and Sangay NP survey on attitudes and lifestyles, and possibility for progressive change to reverse destruction.

Two articles in *Trekking in Ecuador*, 2002, The Mountaineer Press, Seattle, i.e. one on the endangered mountain tapir & the other on the "living sponge" highland watershed. Both illus. by Kevin Burkhill, UK.

Saving the Andean Tapir. 1999. *The Latin American Travel Advisor*, Quito. Illustrated.

The mountain tapir. 2000. In *Ecuador, Peru and Bolivia: The Backpacker's Manual*. Bradt, UK.

Wilderness and the Indian Way of Life. 1998, Jan. *Pyramid Lake Tribal Newspaper*, Nixon, Nevada.

Purshi: Un Paraiso en los Andes. 1992 (June 9). *Hoy* (Ciencia section), Quito, Ecuador.

Critico Habitat del Tapir Andino en el Parque Nacional Sangay siendo destruido ... 1991. *Punto de Vista*, Quito.

Comentario sobre el tapir andino. 2002 (Sept) *Magazin del Norte*, Sullana, Peru. Major article concerning mtn. tapir and urgent need to conserve its habitat as well as population in northern Peru.

Agony of the Mountain Tapirs. 2005 (Dec) *Rumbos de Sol & Piedra*, Lima, Peru. pp. 34-48. Lavishly illustrated. International distribution. Positive impact for conservation in n. Peru. (Spanish & English.) Republished 2013.

Der Bergtapir, ein robuster Oberlebenskiinstler der nordlichen Anden - Wie lange noch? Pages 153- 182. In: Todd, S. & Ganslosser. U. Eds: *Die Tapir*, Ferlander Verlag publ., Germany, 2006. <http://dnb.ddb.de>

Cerro Negro: an important mountain tapir conservation area in the Piuran Andes, Piura and Cajamarca states, NW Peru. 2009. *Tapir Conservation* 18(1): 36-39.

Attitudes to tapirs, wilderness and wildlife conservation in and around Sangay National Park, Ecuador. 2003. *Tapir Conservation* 12(2): 14-15.

Contribute cover photo of Laguna Negra, Sangay N.P. & several photos of mtn. tapir, Sangay Volcano, & other plants, animals and scenes from this world heritage park where I did my study. Published in *Parques Nacionales y otras areas naturales protegidas del Ecuador*. 1992. Fundacion Natura, Quito.

#### **Work Experience and Presentations** (partial, from most recent):

**2017:** "The World's Endangered Species Today Present a Crisis of Conscience for Humanity." speech delivered at special storytelling annual event "Tamee peesha maneekwa" Ft. McDermitt Paiute-Shoshone Tribe, Nevada (8/5/17). Same speech delivered CA4Elephants Endangered Species event, California State Capitol (8/12/17). May-June: Completed ecological evaluation including finding from Lighthawk flight over Three Fingers Wild Horse Herd Management Area (HMA), SE Oregon ... issued professional report to Friends of Animals. This study began in October 2016. On February 3, delivered talk & Power Point presentation on wild horses & burros at Northeastern Nevada Museum, Elko, & had a table selling my book *The Wild Horse Conspiracy*, etc. on this & following day. Part of series of events offered in Elko during Cowboy Poetry Festival. March-June: Administer & oversee project to stop killing of wild burros to supply Chinese merchants in NW Peru with grant from The Donkey Sanctuary. Successful in stopping this terrible cruelty in an extensive area around Sullana & Ayabaca. April 21-May 1: Travel to Oregon to deliver speech and Power Point on wild horses & burros in McKenzie River resort area & at Salem, Oregon's capitol on 4/23/17, as part of Earth Day events. Afterward visit Big Summit Wild Horse HMA in Ochoco National Forest, near Prineville & later Paisley Wild Horse HMA, camping out in both places. Note large monopoly by cattle ranchers, loggers, etc., of resources that should be going to the wild horses. Many photos taken. May 12: Slide presentation & talk at C.C. Meneley School on endangered Mountain Tapir, Gardnerville Ranchos, Nevada. 6/23: Hosted on Aggressive Talk Radio, Ark.

**2016:** January: finalize & issue wild horse report concerning Alberta wild horses west of Sundre. Sent to Alberta natural resources department & various Canadian wild horse groups. Published by Zoochek.com. Various interviews defending wild horses & burros done with American Wild Horse Institute & broadly shared on internet (also in 2017). Jan. 23: Guest on "Voices & Views" Great Falls Montana Nat. Publ. Radio, defending wild horses. Mar. 24: Guest on Blue Sky Horse Radio (Waterloo, Ontario) with host Jennifer Stronge, defending wild horses. Apr. 3: Realize census & habitat evaluation, Lighthawk flight

over Twin Peaks Wild Horse HMA, NE Calif. & NW Nevada, with envir. scientist Jesica Johnston. Afterwards prepare report on findings. Report later published. Apr. 5: testify on behalf of wild horses before SE Oregon Resource Advisory Committee (by phone). April 16-24: Visit far southern California to give a talk & show photos, sell books, etc., as part of a benefit for Coachella Valley Horse Rescue (1/2 sales donated) on 4/17. Later visit Palm Springs BLM office & visit Coyote Canyon Wild Horse HMA near Palm Springs. Discover that BLM officials did not realize that the Aguas Calientes tribe had zeroed out this herd ca. one decade before. Learn about other gross neglect of wild horses & wild burros by BLM & USFS in southern California, including WHs & WBs near Arizona. Apr. 23: Visit & photo wild horses & burros at Ridgecrest BLM WH & B Holding & Adoption Facility on way back home. Apr. 26: Interview with Brandon Loomis of "The Arizona Republic" newspaper in northern Pine Nut Mountain while filming wild horses. Excerpts of interview included in national AP story several months later. June 6-21: Travel first to Idaho for nephew's wedding, then to Pryor Mountain Wild Horse Range, Montana, to conduct ecological evaluations, observe & photo these famous wild mustangs, & assess the area for Reserve Design. Later issue report with my findings & recommendations, which is shared with Billings BLM. On way back home after 6/16, visit McCullough Peaks Wild Horse HMA. Wild horses seem adversely affected by large-scale administration of PZP, stallions very frustrated, social structure adversely affected. Also visit zeroed-out wild horse HMA between this HMA & the Pryor Mountain WHR, whose resources are being almost totally monopolized by cattle & sheep ranchers, who haul in water to get nearly 100% of forage. June 27: Visit Palomino Valley WH & B BLM Holding & Adoption Facility north of Reno. Photo equids & conditions of pens, later do report w/ photos of deplorable situation, shared with Horseback Magazine. July 7-10: Attend Animal Rights National Conference, Sheraton, Los Angeles. Share a table with horse defenders, able to sell my book The Wild Horse Conspiracy, musical CD Wild Horse Rhapsody, & gather signatures on behalf of SAFE bill & my "Stop the Excessive Roundups" Move On petition, & make contacts. Aug. 19-21: Share a table with Dimond L Ranch Horse Rescue at Western Legends & Wild Horse Event, 5-Clover Ranch, Carson Valley, Nevada. Able to sell my books, musical CD, pass out info, gather signatures, renew/make new contacts. Sept. 7-8: Attend field tour (7<sup>th</sup>) & first day (8<sup>th</sup>) of National Wild Horse & Burro Advisory Board meeting, Stockman's Hotel, Elko, Nevada. Give strong oral & written message to the board defending rights of wild horses/burros, urging they not continue to undermine them. Accompany Meghan Dixon & mother, who also testify. Sept. 21: Guest on Wild Horse & Burro Radio along w/ Mae Lee Sun re: Australian Brumbies, w/ host Debbie Coffey. Oct. 5-14: Conduct ecological evaluation & Reserve Design assessment for Three Fingers Wild Horse HMA. Observe & photo wild horses. Later complete report presented to BLM for Friends of Animals (also see follow up evaluation & flight & report, May-June, 2017). Nov. 2: Guest on Wild Horse & Burro Radio re: points raised in defense of WHs & WBs in my book The Wild Horse Conspiracy, & related. 11/10-16: Travel to Decatur, Illinois via flight to St. Louis, to coordinate with wild horse advocates incl. host Saramanda Hall, & to give a widely promoted power point presentation & speech about wild horses & burros at the Decatur Public Library on the evening of Nov. 14<sup>th</sup>. Sold books, CDs, distributed information, petitions, renewed/new contacts, sign ups for Alert List: [www.thewildhorseconspiracy.org](http://www.thewildhorseconspiracy.org).

**2015:** Completed three ecological evaluations with wild horse herd assessments as follows: Pine Nut Mountain wild horse herd area/herd management area, Nevada, March to July, report given to Friends of Animals who submitted it to Bureau of Land Management, Carson City, Nevada; Salt River wild horse herd and habitat ecological evaluation, September, Salt River, Arizona, on Tonto National Forest lands above Mesa, AZ. Submitted to USFS by Friends of Animals; Rocky Mountain foothills and wild horse herd

ecological evaluation, west of Sundre, Alberta, November. Submitted to Albertan natural resource authorities and wild horse supporters, reviewed in publications. --All 3 of these helped save wild horses!

Delivered hour speech at my alma mater University of California-Berkeley to students and faculty as well as horse interested people from the community. Subject: Wild Horse and Burros. April 20, 2015. Well attended. Sold my books The Wild Horse Conspiracy, and musical CD Wild Horse Rhapsody. At Pacific Film Archive and UC Berkeley Art Museum auditorium. Film on wild horses followed. Well attended. Lively discussion. Many interested in helping wild horse & burros be restored to rightful land/resource.

Continued northern Peru project to save the endangered Andean Tapir. Oversaw project, raised/sent funds to keep this long & successful conservation project going in Piura & Cajamarca. Andean Tapir Fund

#### **2006-2014:**

Work for protection of endangered mtn. tapirs, especially northern Peru. [www.andeantapirfund.com](http://www.andeantapirfund.com)  
Prepared plant & animal descriptive species inventory for Cerro Negro area, Huancabamba Depression, & ecological justification for nature sanctuary in this part of northern Peru, now nearing declaration.

Intensify work for fairer treatment of wild horses & burros of N. Am. [www.thewildhorseconspiracy.org](http://www.thewildhorseconspiracy.org)

Perfect treatise on endangered mountain tapir for *Mammalian Species* publication of American Society of Mammalogists, published as co-authored on 26 July 2010 (see publications list below).

Appear on radio and TV talk shows defending wild horses and burros.

Give professional & popular talks on wild horses & burros/ mountain tapirs, including at Colorado Mountain College, Steamboat Springs, CO on 3/28/13; at Cottlesville Speakers Series, St. Charles Com. College on 4/26/13 (received an award); at King College, London, Ontario on May 2013; at "Wishing Well" animal sanctuary, Bradford; & at Glenn Rock Family Resort same month, all in Ontario; Medicine Horse Festival in April, 2012, Boulder CO; Wild Horse Festival, Santa Fe NM in June 2012; at Vail CO public library on Sept 18, 2013; at Jindabyne, NWS, Snowy River Riders Assoc., Australia 10/2014; more.

Prepared a peer reviewed professional publication on wild horses and burros (see publications 1/30/14).

Composed well-rounded 313-page book about wild horses and burros that was published in late 2011 and revised, updated and published in new edition in early 2014 (see publications list above).

Gave professional presentations at International Equine Conference in 2011 and again in 2012.

Gave poster presentation on wild horses at Ecological Society of Australia annual conference in Alice Springs, NT, 9/28-10/4/14. For 6 weeks toured several of Australia's brumby populations throughout Australia. Give talks and showed films, power points, slides to interested groups. Mostly supported.

Two talks given at Redlands University, s. Calif., & at National Museum of Animals and Society in Hollywood, California, 11/16 & 17, 2014. Very well attended. Sold my wild horse books and musical CD. Talk favorably written up in Redlands paper. An official university function promoted ½ year before.

Participated in efforts to restore US herds of wild horses and burros on USFS and BLM lands. Field expeditions, flights, and research resulting in publications. Present Reserve Design proposal for the restoration of long-term viable, ecologically well adapted, and naturally self-stabilizing populations of wild horses and burros. This proposal was put forth both in publications & in public meetings & official

hearings, incl. National Wild Horse & Burro Advisory Board. Input to BLM & USFS offices continues. Part of successful lawsuit to stop US Forest Service from rounding up wild horses in Ft. McDermitt, northern Nevada & southern Oregon, with Protect Mustangs. Gave testimony.

**Dec. 2006-Dec. 2008:**

Oversee conservation project in n. Peru to rescind mining permits and set up nature sanctuary for mtn. tapir. Procure funding for project.

Talk on wild horses & burros at Carson Valley Museum 6/14/07 w/slides. Helped set up a permanent mustang exhibit, contributing a film and photos as well as factual information and testimony.

Talk at Univ. Antioquia, Medellin, Colombia, on mtn. tapir to full auditorium. Fall 2006. Preparation of new conservation/research proposals w/biologists from Medellin & Quindio, Colombia. New documentation of mtn. tapir distribution. Preparation of article (see list of publications below).

**Mar.-Nov. 2006:**

International publication on wild horses in *ENS Insights* 7/7/2006;

Conducted investigations of wild horse status and treatment in West, including field surveys.

Continue to oversee project to set up tapir sanctuary in NW Peru with support from CEPA of France.

Major publication in German on mtn. tapir in book edited by Dr. Udo Ganslosser. Received German volunteers from Univ. of Erlangen in Germany during the 1990s. These helped with the mountain tapir study, and I helped them with their studies. Circa 30 total volunteers received in Ecuador. Deliver Power Point presentation on mtn. tapir & project to create new sanctuary in NW Peru at forum on "*In situ* Conservation Projects for the European Zoos and Aquaria", May 30-June 2, 2006, Angers, France. Support received to participate in this conference. Later traveled to observe Lascaux horse petroglyphs.

Power Point mtn. tapir talk given at Sacramento State University, Dept. of Biology, Oct. 5th, 2006.

**Mar. 2005-Feb. 2006:** Major international expeditions and publications including in northern Colombia and in Peru where I helped set up a project for a mtn. tapir sanctuary creation on n. border w/ Ecuador.

**Nov. 2003-Feb. 2004:**

Gave conservation talk/slide/film presentations in Colombia and Ecuador, esp. re: mtn. tapir & Andes.

**Apr. 2002-Oct. 2003:**

Wrote report on public inquiry around Sangay N.P. for sponsors + articles on tapirs of the world.

Oversaw project to apprehend traffickers in tapirs in n. Peru & prepared a mtn. tapir reserve proposal.

In western Nevada, I guided Carolyn Gohring of Munich Tech. Univ. in her research for M.S. study and dissertation write up concerning wild horses of the West. Field visits to wild horse herds of w. Nevada.

**Sept. 2001-Mar. 2002:**

Gave talk and submitted paper at Andean & Amazonian Biodiversity Conference, Cuzco, Peru. Then, in Ecuador, conducted a GPS-assisted tapir monitoring program in combination with the inspection of 5 rivers within Sangay National Park.

Also conducted a public attitude survey/conservation talk project in settlements around this park. Results published in a 2003 *Tapir Conservation* article, as well as in ZGAP publ. in German (see below).

**June 1999-Sept. 2000:**

Prepared articles for newsletters & scientific journals on mountain tapir.

Obtained support from ZGAP, German wildlife conservation organization, to return to Ecuador for tapir reintroduction project from November to early May; led German biology students into mtn. tapir habitats, sharing my knowledge, guiding them on ecological inquiries, & preparing for translocation.

Traveled to n. Peru, Dec.-Jan., to give talks, and prepared a proposal to establish a nature reserve.

**Dec. 1998-May 1999:**

Funded by Wildlife Conservation Society, returned to Ecuador to prepare the translocation of a pair of mountain tapirs to Golondrinas Sanctuary in Carchi state, a place where the species had disappeared.

**May-Nov. 1998:**

Data analyses & preparation of publications on mtn. tapir for Andean Tapir Fund, a non-profit conservation organization I founded in 1996.

Prepared & mailed off chapter on mtn. tapir with slide illustrations for Dr. Udo Ganslosser of *Institut Zoologie*, U. Erlangen-Nurnberg, Germany, for a book on tapirs of the world published in German.

**Feb.-Apr. 1998:**

Guided and helped to narrate a film on the mtn. tapirs of Sangay NP for INDECOM productions of Seoul, S. Korea. This film: *The Mountain Tapir: Flagship of the Northern Andes* (part of the "Green Age" series) was aired in S. Korea in April, 1998, and later shown at a Japanese wildlife film festival. Well received.

After film shooting, continued mtn. tapir study & conservation project, preparing for a translocation/reintroduction of a mtn. tapir pair to Golondrinas Sanctuary, Carchi province, n. Ecuador.

Prepared a paper on the effects of cattle invasion on the mtn. tapir for INEFAN, Ecuador's natural resource agency. Conducted a field class in Sangay N.P. for Univ. Pontif. de Quito (Catholic university).

**Dec. 1997:** 4 talks in Spanish + paper on Mtn. tapir w/slides & film, III Amazonian Fauna Conference, Santa Cruz de la Sierra, Bolivia.

**Sept. 1997-Jan. 1998:** Environmental Director for the Pyramid Lake (Northern) Paiute Tribe, Nixon, NV.

Prepared a 5-year environmental plan for this 1,000+-square-mile reservation. Presented wild horses in a positive light to these Native Americans. Helped institute livestock grazing reform. Represented the tribe at environmental meetings. Helped stop open-pit mine on edge of the reservation, due to my discovery of ancient petroglyphs in Pah Rah Range, to which I guided the tribal elders.



**1996-early 1997:** Continued mountain tapir study & conservation project in Ecuador.

Helped prepare & was interviewed in a short film on the mountain tapir & its ecological importance as a mutualistic seeder within the northern Andean watershed, for producer Freddy Ehlers, LA Television program (Quito), which aired nationally. Film helped spur the creation of new reserves for mountain tapir, Andean condor, spectacled bear, watershed preservation, etc., east of Quito, particularly Cayambe-Coca Ecological Reserve, later to become a National Park.

**1995:** Working for Living Planet Productions (Bristol, U.K.), accompanied filmer Sinclair Stammers in Ecuador & Colombia, to guide the filming of the mountain tapir & its wilderness habitats. Featured in film aired on Animal Planet/Discovery: *Esperanza: The Mountain Tapir*. This was broadcast worldwide on "Endangered" series. Producer: Richard Brock, whom I consulted on this film's preparation.

Continued tracking of 3 remaining, un-poached tapirs w/ active radio collars in Sangay N.P. to establish long-range, movement, activity & habitat use monitoring.

In the 2nd half of 1995, I finished the mtn. tapir chapter for IUCN SSC Tapir Specialist Group & translated this book with chapters on each of the world's four extant tapirs from English to Spanish, or vice versa.

**1994:** Academic Visitor at School of Biological Sciences, Univ. College of North Wales, Bangor.

Further analyzed data on mountain tapir & prepared scientific articles & IUCN SSC Tapir Specialist Group species resume & action plan for Mountain Tapir. Assisted by graduate students, professors & computer specialists. Delivered talks with slides on mountain tapir and habitat. Became adept at using Ranges IV home range analysis program, & was assisted by its creator: Dr. Robert Kenward.

**Oct.-Dec. 1993:** Began PhD data analysis/writeup at Univ. Durham. Talks w/slide illus. on Mtn. Tapir.

**1991-2001:** As Research Fellow at Wildlife Conservation International/Society, continued radio-tracking & ecological study of mtn. tapirs in Sangay N.P. (7 captured, examined, photoed, collared & released).

Semi-annual reports to Wildlife Conservation International/Society, Bronx, NY.

Supervisor for MSc program of Y. N. Guinan at School of Biol. Sci., Univ. Coll. N. Wales-Bangor.

Plant transects & species identifications, fecal dietary analyses, fecal germination experiments in Ecuador & U.S. Special training in micro-histological fecal diet analysis at Composition Anal. Lab, Ft. Collins-CO. Plant identifications at Missouri Botanical Garden, St. Louis. Illustr. talk at WCS, Bronx.

Conservation efforts helped lead to near doubling of Sangay National Park, a world heritage site. Gave conservation talks in Spanish in villages and cities around Sangay N.P. and at schools & universities including Banos, Cuenca, Riobamba, Ambato, Quito, Puyo, Loja. Guest on radio and television programs.

**Nov. 1989 - Dec. 1990:** Began field study of mountain tapir in Ecuador's Sangay N.P. Captured, radio-collared & released 3 mtn. tapirs in Dec. 1989, & another on 4th of July, 1990. Radio tracked mtn. tapirs & made direct field observations & ecological assessments. Supervised native guides, park rangers, & biologist counterpart.

**April & August 1988:** Two trips to scout out endangered mountain tapirs in Northern Peru. Reports w/ species lists sent to Univ. Durham, Biology Dept., where I was accepted for PhD program. "Report on Reconnaissance Trip Preliminary to Mountain Tapir Doctoral Study, April, 1988" for Department of

Zoology, Univ. of Durham, UK (5/16/88). Efforts in Peru spurred creation: Tabaconas-Namballe Ecological Reserve (w/ mtn. tapirs).

**1987-88:** Toured Peru with editor of Social Issues Resource Series, Boca Raton, FL. Photographed Amazonian & Andean subjects for use in publications. Wrote an educational book on tropical forests of the world.

**1987:** Managing Editor for *InterAction*, Global Tomorrow Coalition, Washington, DC. Compiled information from many conservationists/organizations on diverse subjects. Wrote/edited articles. Maintained membership list. Helped prepare environmental manual.

**1982-1987:** Major contributor: guide, researcher, and writer for documentary film: *Wild Horses of the Nevada Desert*, copyright 1987, by filmmaker Peter Dallas of Sacramento, with support from the Nevada State Commission for the Preservation of Wild Horses. Film substantiates horses as North American native species and as positive contributors to the ecosystem as well as to human society. Film reveals their beauty in the wild but exposes injustices toward them. Used in public education by state of Nevada and also distributed and aired nationally.

**1986:** Participated in Soviet Peace Odyssey, US-Russian cultural exchange. Sept.-Oct. 1986. Gave "World Peace and Unity" speech in Tbilisi, Georgia, to standing ovation. Message was that by awakening to the challenge to restore harmony between Humanity & Rest of Life/Nature, all peoples can truly unite for the greater Common Good. Many exquisite color slide pictures taken during this fantastic trip!

**1984 & Summer 1985:** Supervisor of young adults, Curriculum Coordinator, California Conservation Corps, Pomona, CA. Led work crews for variety of conservation projects, including in nature reserves. Project in Joshua Tree N.M. Designed personal improvement programs for individual corps-members.

Taught classes on conservation, ecology, safety, etc. Composed safety report. Received extensive training: CPR, fire-fighting, leadership, safety, driving, etc. Awarded for excellence.

**1981-1995:** Worked off and on with Friends of Chinquapin on northern Coastal Range of California to do descriptive plant and animal species inventory and ecological description that became part of a successful project to preserve an extensive natural area known as the Chinquapin Area of Critical Environmental Concern in the Trinity National Forest, including the world's tallest Golden Chinquapin.

**1980-1981:** Director of Research Services for Animal Protection Institute of America, Sacramento. Humane inves., endang. species rescue, wilderness/reserve designat., wild horses, articles, court cases.

**1977-79:** Wildlife ecologist, *Corporacion Valle de Cauca*, Cali, Colombia, as part of Peace Corps-Smithsonian Conservation Programme.

Vertebrate species inventory in nature parks & reserves. Specimen identification & preservation. Ecological assessment of Andean regions. Pioneer work in newly declared Las Herosas National Natural Park in Central Andes, where I encountered for first time endangered Mountain/Andean Tapir. Recommendations for government natural resource policy, resulted in set up of new department. Public educational talks/essays. Taught ecology course at *Universidad de Cali* w/ field excursions. Nature photography. Participated in conferences, gave illustrated talks related to nature conservation.

**1976:** Friends of Animals-Washington, DC. Investigation & report: Inhumane treatment of lab animals.

**1964-1994:** Occasional Civil Engineering and Land Surveying assistant, field and office work, for Downer Engineering with father and brother, both civil engineers. Land surveys, road, percolation, map prep.

**List of Organizations to which I belong:**

IUCN-World Conservation Union, Species Survival Commission, Tapir Specialist Group. American Society of Mammalogists. Ecological Society of Australia, Univ. Nevada-Reno, Univ. Calif.-Berkeley, & Univ. Durham-UK Alumni. Nevada Poetry Society, Equine Welfare Alliance, The Cloud Foundation, Wild For Life Foundation, Protect Mustangs, International Society for the Preservation of Mustangs & Burros.

**Public and Media Presentations and Appearances:**

Presentations at scientific, conservation, & popular conferences or special gatherings (sponsored by universities, government agencies & conservation organizations incl. IUCN & WCS): in United States, England, Wales, Holland, Canada, Finland, France, Peru, Ecuador, Colombia, Bolivia, Bonaire, Australia.

Was featured speaker for public event put on by Dept. of Animals and Ethics, Univ. of Redlands, CA, on Nov. 17, 2014, and before this on Nov. 16, at National Museum of Animals and Society, Hollywood, CA. Film & Slides shown. Title of both talks: "The Natural Healers: Why Wild Horses Belong."

Ecological Society of Australia (ESA), 2014 Annual Conference. As member of ESA, I presented poster on positive ecological contributions wild horses can make. Alice Springs, NT. Sept. 28 – Oct 4, 2014. For six weeks both preceding & after the conference I toured several brumby areas throughout Australia.

Talk and paper on wild horses & burros presented 6/15/12 at *The Nineteenth International Interdisciplinary Conference on the Environment*. June 14-17, 2013. Hilton Hotel, Portland, OR.

Translator and commentator at Public Interest Law Conference, Univ. of Oregon, Eugene. 3/90. Guest on TV and radio shows in U.S., England, Colombia, Ecuador, Peru.

Special Presentation, talk, slides, film: "Save the Mountain Tapir, Save the Tapirs." 8/10/96, at Avalon Theatre, Palisade, Colorado,. Sponsor: Tapir Preservation Fund.

Major speaker at Biodiversity Conference Andean-Amazonian, INKA, Cusco, Peru, 9/2001. Public talk with slides/film: 2/11/04, *Vivapalabra* organization, Medellin, Colombia.

Hosted on "Noticero", popular radio talk show, *La Luna*, Quito, Ecuador. Re: the mtn. tapir. 3/11/02.

Presentation w/slides at "mtn. tapir population viability workshop," 10/2004, Otun-Quimballa Reserve, Risaralda, Colombia, as function of IUCN SSC Tapir Specialist Group, of which I am a member.

Presentation on endangered mtn. tapir and spectacled bear, w/slides at "Mountains in the Mist" international conference on world's cloud forests, Waimea, Hawaii, 7-8/2004. Co-author of paper on mtn. tapir & spectacled bear published in conference proceedings (see below).

Hosted on "Observations TV" & KUNR "High Desert Forum" (PBS radio), Reno, Nevada, Spring 2005.

Talk with photos on mountain tapir presented at Endangered Species Conference at Doue zoological garden in Angers, France. April, 2006. Visited Lascaux caverns and viewed horse, auroch, mammoth, etc., ancient petroglyphs/paintings, after the conference. Stunning photos of Perigord Noir region taken.

Guest on KJFK-Reno, "The Solution Zone" with Christiane Brown 11/16/06. Program on wild horses, their place in North America, & the need for reform and restoration of the herds.

Talk w/slides on mtn. tapir at Universidad de Antioquia, Medellin, Colombia. 5/07. Talk w/slides at Carson Valley Museum on wild horses & burros 6/14/07, to launch mustang exhibit.

Wild Horse Summit, Las Vegas, org. by ISPMB. "Forever Wild and Free" speech delivered on Columbus Day, 10/12/08 to standing ovation. Speech later published on various websites concerning wild horses.

Gave talk & led panel discussion on wild horses at 34<sup>th</sup> International Wildlife Film Festival, 5/2011. Missoula, MT. Two films supporting place of wild horses in N. Am. presented at festival. Helped promote Katia Louise' "Saving America's Horses: A Nation Betrayed" in which I represented justifications for wh's.

Wild Horse talk/slides Gold Hill Hotel, G.H., NV, 4/08, & several times since, including 8/6/13 & 8/12/14. Part of Nevada Historic Talk series.

Commemorative speech given for 40<sup>th</sup> anniversary of passage of Wild Free-Roaming Horses and Burros Act of 1971, on Dec. 11, 2011 at Comma Café, Carson City, NV. Made into a YouTube.

Major talks given at schools and universities on wild horses of America and endangered Andean Tapir in Finland. Sept.-Oct. 2010, including University of Jyvaskyla. Visited Helsinki lab where Dr. Ann Forsten did her groundbreaking work. As a geneticist she proved Yukon horse to be same as modern horse species, putting the species' origin back at least 1.7 million years ago in North America. Spoke with academics.

Both oral and written testimony given before Wild Horse & Burro Advisory Committee in Reno, 6/08, 11/08, & 3/2009; and in Arlington, VA (9/28/09). Lobbied for Horses on the Hill day in US Senate & H. of R. on 9/29-30/09, & during March for Mustangs week, 3/2010. Presented my Move-On petition: "Stop the Excessive Roundups" with several thousand signatures & comments in late January and early February, 2014, to office of Secretary of Interior, BLM & USFS wild horse and burro program offices, & numerous Senators and Representatives and their staff.

Interviewed on SouthWestBlend Magazine radio-internet show in Sept, 2008, and cohosted program for BigBlend Magazine radio-internet show on wild horses 1/23/09.

Several events for Streams of the Soul poetry book in NV & CA, 2005-2014, recitation of original poems.

2013-2014: Frequent guest *Mustang Matters* radio program, Reno, NV, w/ hosts Lacy J. Dalton; E. Floyd.

### **Languages:**

Fluent in native English & Spanish (intensive language instruction while in Peace Corps, Colombia). Competent in French, mainly for reading and writing. Other languages studied. Possess excellent vocabulary. I believe that upgrading our use of language is very important to our/all of life's progression.

### **Honors and Awards, Contributions Received:**

High School: Honor Society, Daughters of American Revolution Award for Excellence in US History.  
University of Nevada: Honor Roll & Dean's List. University of California, Berkeley: Honor Roll. CCC-CA.

Contributions/Grants from: Wildlife Conservation Society-NYZS; San Diego Zoological Society, Los Angeles Zoological Foundation, Tapir Preservation Fund, World Nature Association, Georgia Earth Alliance, Nevada Humane Society, Tropical Rainforest Network (High Desert Chapter), Sigma Xi Conservation Award, ZGAP-Germany, CEPA-France, Chicago Zoological Society, Moore Foundation, Plant Foundation, Zurich Animal Protection Society, The Cloud Foundation, among others.

**References:** For these, please contact me at one of my contact addresses given at the top of this C.V.