

Herbert H. Covert, Professor of Anthropology
University of Colorado, Boulder, Colorado

Born: Tulsa, Oklahoma
September 7, 1954

Education:

Ph.D. in Anthropology Duke University 1985
M.A. in Anthropology Arizona State University 1978
B.A. in Anthropology University of Massachusetts 1976

Title of Dissertation: "The adaptations and evolutionary relationships of the Eocene Primate Family Notharctidae", advisor: Dr. Richard F. Kay.

Professional History:

Professor of Anthropology, University of Colorado, 2005 – present.
Associate Professor of Anthropology, University of Colorado, 1993 - 2005.
Assistant Professor of Anthropology, University of Colorado, 1986 - 1993.
Associate Curator, University of Colorado Museum, 1989 – present.
Post-Doctoral Fellow, Department of Orthodontics, University of Connecticut Health Center, 1985-1986.
Visiting Instructor of Anthropology, University of Massachusetts, 1983-1985.

Professional Affiliations

Member, American Association of Physical Anthropologists.
Member, Society of Vertebrate Paleontologists.
Member, American Association of Anthropologists.
Member, International Society of Primatology.
Member, Southeast Asia Primatology Association.

Honors

Recipient of the Boulder Faculty Assembly Excellence in Teaching Award, 1998-1999.
Recipient of a Junior Teaching Scholar Award from the President's Teaching Scholars Program, University of Colorado. Nov. 1989.
The Ales Hrdlicka Prize, student paper award, 51st Meeting of the American Association of Physical Anthropologists, 1981.
James B. Duke Fellowship, Duke University, 1978 - 1981.
Duke University Graduate School Research Award, 1979.

Internal Funding

- Junior Faculty Development Award from Council on Research and Creative Work, The Graduate School, University of Colorado, 1987. "Quantitative Analysis of the Dental Microwear of the Earliest Primates: A New Hypothesis on Dietary Specialization". Total award, \$5,000.
- Council on Teaching Grant-in-Aid Award, Academic Affairs, University of Colorado, 1987. "Early Cenozoic Paleontology in Colorado: Opportunities for Undergraduate Students to Participate in Scientific Research." Total award, \$4,300.
- Council on Teaching Undergraduate Enrichment Award, Academic Affairs, University of Colorado (with Dennis P. Van Gerven), 1988. "Teaching the fossil evidence for human evolution." Total award, \$4,950.
- Undergraduate Research Opportunities Program Project, University of Colorado, 1988. "Undergraduate research opportunities in vertebrate paleontology." Total award, \$2,207.50.
- Undergraduate Research Opportunities Program Project, University of Colorado, 1989. "Vertebrate Paleontology of the Washakie Basin, Wyoming." Total award, \$2,250.00.
- Council on Teaching Undergraduate Enrichment Award, Academic Affairs, University of Colorado, 1990. "Videos of endangered animals for classroom use." Total award, \$4,492.00.
- William H. Burt Museum Fund small grant, University of Colorado Museum, 1990. "Vertebrate Paleontology of the Washakie Basin, Wyoming." Total award, \$803.00.
- William H. Burt Museum Fund small grant, University of Colorado Museum, 1991. "Vertebrate Paleontology of the Washakie Basin, Wyoming." Total award, \$530.00.
- Undergraduate Enrichment Grant, University of Colorado (with Dr. Darna L. Dufour, Ms. Andre LaFlamboy, and Mr. F.M. Partin) 1992. "Enhancing Undergraduate Learning in a Natural Science Lab." Total award, \$5,000.
- Program for Excellence in Undergraduate Education in the College of Arts and Sciences, University of Colorado (with Dr. Darna L. Dufour, Mr. F.M. Partin, and Ms. A. LaFlamboy) 1992. Total award, \$6,100.
- Undergraduate Research Opportunities Program Project, University of Colorado, 1992. "Vertebrate Paleontology of the Washakie Basin, Wyoming." Total award, \$1,684.00.
- Grant-in-aid, Council on Research and Creative Work, The Graduate School, University of Colorado, 2003. "Paleoanthropology of the Neogene of Vietnam." \$6450
- Seed Grant, Council on Research and Creative Work, The Graduate School, University of Colorado, 2003. "Primate Conservation in Vietnam." \$7000
- CARTSS Scholars Grant, University of Colorado, 2004 "Workshops on Primate Conservation in Vietnam at CU" \$1000
- Implementation of Multicultural Perspectives and Approaches in Research and Teaching Award, University of Colorado, 2004 "Workshops on Primate Conservation in Vietnam at CU Boulder Campus. \$4000

External Funding

- National Science Foundation Grant with Dr. Darna L. Dufour "Enhancing Undergraduate Learning in the Natural Sciences: A New Curriculum for Laboratory Classes in Biological Anthropology." \$160,468 for Feb. 1993 through July, 1996.
- L.S.B. Leakey Foundation Grant "New North American Omomyid Material: Adaptive Diversity and Phylogenetic Implications". \$6,000 for July 1, 1994 through June 30, 1995

- L.S.B. Leakey Foundation Grant with Dr. Mark Hamrick “Survey for Primate Paleontological Resources in the Socialist Republic of Vietnam.” \$12,000 for May 1, 1998 through April 30, 1999
- National Geographic Society Grant with Dr. Mark Hamrick “Fossil Primates from the Socialist Republic of Vietnam.” \$14,000 for May 1, 1998 through August 15, 1999
- Wenner-Gren Foundation for Anthropological Research Grant with Dr. Mark Hamrick "International Collaborative Research: Paleoanthropology in the Socialist Republic of Vietnam." \$25,000 for May 1, 1999 through August 15, 2000
- National Science Foundation Grant proposal "High Risk, Exploratory Research: Collaborative Research -- Paleoanthropology in the Socialist Republic of Vietnam. \$12,000 for January 2001 to December 2001
- Fulbright Scholar Program “In Search of Ancient Primates: Paleoanthropology in Vietnam” \$34,950 support for seven months residence in Vietnam, September, 2001 through May, 2002
- L.S.B. Leakey Foundation Grant proposal "Paleoanthropology of the Neogene in the Socialist Republic of Vietnam" \$7500 for May 2003 - January 2004
- Primate Conservation, Inc. “Survey of Hatinh and Red-shanked Douc Langurs in Phong Nha-Ke Bang National Park, Viet Nam” \$2400 for May -August 2004
- Zoological Society of San Diego “Southeast Asian leaf monkey ecology and conservation” \$22,500 July 2004 – July 2005.
- National Geographic Society Grant “Survey of Hatinh and Red-shanked Douc Langurs in Phong Nha-Ke Bang National Park, Viet Nam.” \$20,000.
- National Science Foundation “Ecology and Conservation of the critically endangered Tonkin snub-nosed monkey at Du Gia Protected area, Vietnam.” With Barth Wright and Le Khac Quyet. Submitted July 2006 requesting approximately \$200,000 for three years.
- Margot Marsh Biodiversity Foundation “Conservation of the critically endangered Tonkin snub-nosed monkey in the Khau Ca area of Ha Giang Province, Vietnam.” With Barth Wright and Le Khac Quyet. Submitted August 2006 requesting \$ 23,622 for one year.

Bibliography

A. Refereed Journal Articles in Print (names of student coauthors are underlined):

- 1981 Covert, H.H. and R.F. Kay Dental microwear and diet: implications for feeding behaviors of extinct primates with a comment on the dietary pattern of *Sivapithecus*. *Am. J. Phys. Anthropol.*, 55:331-336.
- 1981 Simons, E.L. and H.H. Covert Paleoprimatological research over the last 50 years: foci and trends. *Am. J. Phys. Anthropol.*, 56:373-382.
- 1983 Kay, R.F. and H.H. Covert True grit: a microwear experiment. *Am. J. Phys. Anthropol.*, 61:33-38.
- 1986 Wikander, R., H.H. Covert, D.D. DeBlieux Ontogenetic, intraspecific, and interspecific variation of the prehallux in Primates: implications for its utility in the assessment of phylogeny. *Am. J. Phys. Anthropol.*, 70:513-524.
- 1987 Wible, J.R. and H.H. Covert Primates: cladistic diagnosis and relationships. *J. Hum. Evol.*, 16:1-22.

This article has been republished in: Grine, F.E., J.G. Fleagle, and L.B. Martin (eds.)

Primate Phylogeny. Academic Press, San Diego, CA (1988).

- 1988 Covert, H.H. Ankle and foot morphology of *Cantius mckennai*: adaptations and phylogenetic implications. *J. Hum. Evol.* 17: 57-70.

This article has been republished in: Strasser, E. and M. Dagosto (eds.) *The Primate Postcrania Skeleton, Studies in Adaptation and Evolution*. Academic Press, San Diego, CA pp. 57-70 (1988).

- 1990 Covert, H.H. Phylogenetic relationships among the Notharctinae. *Am. J. Phys. Anthropol.*, 81:381-398.
- 1991 Sheridan, S.G., D.M. Mittler, D.P. Van Gerven, and H.H. Covert Evidence for the mandible-as-lever model from a Medieval Nubian population. *Am. J. Phys. Anthropol.* 85:201-207.
- 1991 Covert, H.H. and B.A. Williams The anterior lower dentition of *Washakius insignis* and adapid - anthropoid affinities. *J. Human Evol.* 21:463-467.
- 1993 Covert, H.H. and M.W. Hamrick Description of new skeletal remains of the early Eocene anaptomorphine primate *Absarokius* (Omomyidae) and a discussion about its adaptive profile. *J. Human Evol.* 25:351-362.
- 1994 Williams, B.A. and H.H. Covert New early Eocene anaptomorphine primate (Omomyidae) from the Washakie Basin, Wyoming, with comments on the phylogeny and paleobiology of anaptomorphines. *Am. J. Phys. Anthropol.* 93:323-340.
- 1999 Payseur, B.A., Covert, H.H., Vinyard, C.J., and Dagosto, M. New body mass estimate for *Omomys carteri* a middle Eocene primate from North America. *Am. J. Phys. Anthropol.* 109:41-52.
- 2000 Ross, C. and H.H. Covert The petrosal of *Omomys carteri* and the evolution of the primate basicranium. *J. Hum. Evol.* 39:225-251.
- 2000 Anemone, R.L. and H.H. Covert New skeletal remains of *Omomys* (Primates: Omomyidae): functional morphology of the hindlimb and locomotor behavior of a middle Eocene Primate. *J. Hum. Evol.* 38:607-633.
- 2001 Covert, H.H., Hamrick, M.W., Dzanh, T., and McKinney, K.C. Fossil mammals from the late Miocene of Vietnam. *Journal of Vertebrate Paleontology.* 21(3):633-636.
- 2004 Byron, C. and Covert, H.H. Unexpected Locomotor Behavior: brachiation by an Old World Monkey from Vietnam. *Journal of Zoology, London* 263:101-106.
- 2005 Workman, C.C. and Covert, H.H. Learning the Ropes: the ontogeny of locomotion in red-shanked douc (*Pygathrix nemaeus*), Delacour's (*Trachypithecus delacouri*), and Hatinh langurs (*Trachypithecus hatinhensis*) I. Positional Behavior. *Amer. J. Phys. Anthropol.* 128:371-380.

B. Refereed Book Chapters in Print:

- 1984 Kay, R.F. and H.H. Covert Anatomy and behavior of extinct primates. In D.J. Chivers, B.A. Wood, and A. Bilsborough (eds.) *Food Acquisition and Processing in Primates*. Plenum Press, N.Y., pp. 346-388 [invited].
- 1986 Covert, H.H. Biology of early Cenozoic Primates. In D.R. Swindler and J. Erwin (eds.) *Comparative Primate Biology, Systematics, Evolution, and Anatomy*. Alan R. Liss, Inc.

- Press, N.Y., pp.335-359 [invited].
- 1994 Covert, H.H. and B.A. Williams Recently recovered North American Eocene omomyids and adapids and their bearings of debates about anthropoid origins. J.G. Fleagle and R.F. Kay (eds.) *Anthropoid Origins*. Plenum Press, N.Y. pp.29-54 [invited].
- 2002 Covert, H.H. The earliest fossil primates and the evolution of prosimians: Introduction. In W.C. Hartwig (ed) *The Primate Fossil Record*. Cambridge University Press, Cambridge pp. 13-20 [invited].
- 2003 Covert, H.H. Does Overlap Among the Adaptive Radiations of Omomyoids, Adapoids, and Early Anthropoids Cloud our Understanding of Anthropoid Origins? In C. Ross and R.F. Kay (eds) *Anthropoid Origins*. Kluwer Academic Press, NY, P. 129-145 [invited].

C. Non-refereed Articles and Book Chapters in Print:

- 1995 Covert, H.H. Locomotor adaptations of Eocene primates: adaptive diversity among the earliest primates. In K. Izard, L. Alterman, and G.A. Doyle (eds.) *The Nocturnal Prosimians*. Plenum Press, N.Y. pp.495-509[invited] .
- 1997 Covert, H.H. The early primate adaptive radiations and new evidence about anthropoid origins. N.T. Boaz and L.D. Wolfe, (eds.) *Biological Anthropology: the State of the Science*. Oregon State University Press, OR, pp. 1-23 [invited].
- 2000 Dzanh, T., Covert, H.H., Hamrick, M.W., McKinney, K.C., Khuong, D.V., and Tac, L.V. First record of Placodontia (reptile) fossil in Viet Nam. *Journal of Geology, Series B*. No. 15-16:110-112.
- 2002 Covert, H.H., Trinh Dzanh, Do Duc Quang, Le Quoc Thanh, and Nguyen Manh Phi. New Mammalian Fossils from Ninh Binh Province, Viet Nam. *Journal of Geology, Series B*. No. 19-20: 109-112.
- 2002 Trinh Dzanh, Covert, H. H., Hamrick, M.W., McKinney, K., Dao Van Khuong, and Le Van Tac. Lan dau tien o Veit Nam phat hien hoa thach placodontia [First record of Placodontia (reptile) fossil in Viet Nam, revised version of article of same title above]. In Dao Van Khuong, Truong Quang Bich, and Do Van Lap (eds). Bao Ton Thein Nhien Vuon Quoc Gia Cuc Phuong [Cuc Phuong National Park: 40 years of the establishment and development]. Nha Xuat Ban Nong Nghiep: Ha Noi [invited].
- 2004 Covert, H.H., Workman, C.C., and Byron, C. The EPRC as an important research center: ontogeny of locomotor differences among Vietnamese colobines. In T. Nadler, U. Streicher, and Ha Thang Long (eds.) *Conservation of Primates in Vietnam*. Frankfurt Zoological Society and Haki Publishing: Ha Noi, pp.121-129 [invited].

D. Published Book Reviews

- 1999 H.H. Covert, review of "Reconstructing Human Origins: A Modern Synthesis" by Glenn Conroy, *American Anthropologist* 1999 vol. 101:662-664.
- 2002 Covert, H.H. Review of *Primates Face to Face: the Conservation Implications of Human - Nonhuman Primate Interconnections*. *Quarterly Review of Biology* 77:472.

E. Refereed Articles in Press:

Covert, H.H., Le Khac Quyet, and Wright, B.W. On the brink of extinction: conservation and

ecology of the Tonkin snub-nosed monkey (*Rhinopithecus avunculus*). J.G. Fleagle, ed. Volume in honor of the career of Dr. Elwyn Simons. Kluwer Academic/Plenum Publishers: New York.

Le Khac Quyet, Nguyen Anh Duc, Vu Anh Tai, Wright, B.W. and Covert, H.H. The diet of Tonkin snub-nosed monkeys (*Rhinopithecus avunculus*) in Ha Giang Province, Vietnam. Vietnamese Journal of Primatology.

F. Invited Articles in Press:

G. Articles Submitted to Refereed Journals and Books:

H. Published Abstracts

- 1979 Covert, H.H. The positional behavior of *Galago senegalensis*. *Am. J. Phys. Anthropol.*, 50:430-431.
- 1980 Covert, H.H. Primate litter size variation. *Amer. Zool.*, 20:745.
- 1980 Covert, H.H. and R.F. Kay Dental microwear and diet - implications for early hominid feeding behavior. *Am. J. Phys. Anthropol.*, 52:216.
- 1982 Covert, H.H. Dietary adaptations of *Pelycodus* and a comment about the phylogenetic position of *Copelemur*. *Am. J. Phys. Anthropol.*, 57:177.
- 1982 Kay, R.F. and H.H. Covert Species number determination and specimen allocation in fossil samples. *Am. J. Phys. Anthropol.*, 57:201.
- 1983 Covert, H.H. Newly discovered post-cranial remains of *Pelycodus*. *Am. J. Phys. Anthropol.*, 60:185-186.
- 1984 Covert, H.H. Phylogenetic relationships within the Notharctinae. *Am. J. Phys. Anthropol.*, 63:148.
- 1985 Covert, H.H. The skeleton of *Smilodectes gracilis*. *Am. J. Phys. Anthropol.*, 66:159.
- 1987 Covert, H.H. Tarsals of *Cantius mckennai*. *Am. J. Phys. Anthropol.*, 72:189-190.
- 1988 Covert, H.H. and B.A. Carlson The Adapidae - Omomyidae paradox revisited. *Am. J. Phys. Anthropol.*, 75:199.
- 1988 Covert, H.H. New early Eocene primate material from the Washakie Basin, Wyoming. *J. Vert. Paleont.*, 8:12.
- 1989 Covert, H.H. and B.A. Carlson Early Eocene anaptomorphine primates from the Washakie Basin, Wyoming. *Am. J. Phys. Anthropol.*, 78:207.
- 1989 Sheridan, S.G., D.M. Mittler, D.P. Van Gerven, and H.H. Covert Evidence for the mandible-as-lever model from a Medieval Nubian population. *Am. J. Phys. Anthropol.*, 78:301.
- 1989 Covert, H.H., M.W. Hamrick, and B.A. Carlson New erinaceomorph insectivores from the Washakie Basin, Wyoming. *J. Vert. Paleont.*, 9:17A.
- 1990 Covert, H.H. New adapid primates from Eocene deposits of the Washakie Basin, Wyoming. *Am. J. Phys. Anthropol.*, 81:209.
- 1990 Hamrick, M.W. and H.H. Covert A new "Lost Cabin" primate fauna from the Washakie Basin, Wyoming. *Am. J. Phys. Anthropol.*, 81:235.
- 1990 Harrisville-Wolff, C.L., D. Ayers-Darling, and H.H. Covert Variation over time and observer error in a sample of *Cantius* from the Bighorn Basin, Wyoming. *Am. J. Phys. Anthropol.*, 81:236-37.

- 1990 Covert, H.H. New *Copelemur* material from southern Wyoming. J. Vert. Paleont., 10:19A.
- 1991 Covert, H.H. and B. A. Williams New specimens of *Anemorhysis pearcei* from early Eocene deposits of the Washakie Basin, Wyoming. Am. J. Phys. Anthropol., suppl. 12:62.
- 1991 Williams, B.A., D. Ayers-Darling, and H.H. Covert New specimens of *Arapahovius gazini* from early Eocene deposits of the Washakie Basin, Wyoming. Am. J. Phys. Anthropol., suppl. 12:184.
- 1991 Hamrick, M.W. and H.H. Covert Last Wasatchian notharctine fossils from the Washakie Basin, Wyoming and a comment on omomyid diversity. Am. J. Phys. Anthropol., suppl. 12:86.
- 1992 Covert, H.H. and M.W. Hamrick New skeletal remains of the early Eocene anaptomorphine *Absarokius*. Am. J. Phys. Anthropol., suppl. 14:64.
- 1992 Williams, B.A. and H.H. Covert A new species of *Anemorhysis* from the Washakie Basin, Wyoming. Am. J. Phys. Anthropol., suppl. 14:173.
- 1993 Covert, H.H. and Hamrick, M.W. Recently recovered early Eocene notharctine primate postcranial remains and their implications for understanding notharctine phylogeny. Am. J. Phys. Anthropol., suppl. 16:74-75.
- 1993 Ayers-Darling, D. and Covert, H.H. Recently recovered Eocene notharctine primates and their implications for understanding the Wasatchian-Bridgerian transition. Am. J. Phys. Anthropol., suppl. 16:51-52.
- 1993 Hobbs, D.G., Williams, B.A., and Covert, H.H. Middle Wasatchian primatomorphs from the Washakie Basin, Wyoming. Am. J. Phys. Anthropol., suppl. 16:109.
- 1993 Covert, H.H. Late Wasatchian primates from the Washakie Basin, Wyoming. J. Vert. Paleontol. 13(3):31A.
- 1994 Covert, H.H. and Murphey, P.C. New middle Eocene omomyine skeletal material. Am. J. Phys. Anthropol., suppl. 18:72.
- 1995 Covert, H.H. and Jolley, L.A. The forelimb of *Omomys carteri*, a North American omomyine primate from the middle Eocene. Am. J. Phys. Anthropol., suppl. 20:72-73.
- 1995 Anemone, R.L. and Covert, H.H. The hip of *Omomys carteri*, a North American omomyine primate from the middle Eocene. Am. J. Phys. Anthropol., suppl. 20:60.
- 1996 Covert, H.H., Wright, B.W., Mulhern, D.M., and Galligan, J. Rethinking laboratory based instruction in biological anthropology, primate skeletal biology, and paleontology. Am. J. Phys. Anthropol., suppl. 22:90.
- 1996 Payseur, B. and Covert, H.H. Body size and shape variation among omomyid primates. Am. J. Phys. Anthropol., suppl. 22:183.
- 1997 Covert, H.H. and Payseur, B. Body shape estimation for *Omomys*, a middle Eocene primate from North America. Am. J. Phys. Anthropol. suppl. 24: 96.
- 1997 Covert, H.H. Adaptive implications of body size and shape of *Notharctus robustior*, a Bridger C primate from North America. J. Vert. Paleontol. 17(3): 40A.
- 1997 Amemone, R.L., Covert, H.H., and Nachman, B. Functional anatomy and positional behavior of *Omomys carteri*. J. Vert. Paleontol. 17(3): 29A.
- 1998 Covert, H.H., Harris, J.R., Payseur, B.A., and Vinyard, C.J. Body size and shape of a Bridger C notharctine primate: adaptive implications. Am. J. Phys. Anthropol. Suppl. 26:70.
- 1998 Covert, H.H., P. Robinson, and J.R. Harris Evidence of two lineages of *Notharctus* during the Bridger C and D. J. Vert. Paleontol. 18(3): 36A.
- 1999 Cuozzo, F. and H.H. Covert The phylogenetic significance of new *Copelemur* material from early Eocene beds of the Washakie Basin, Wyoming. Am. J. Phys. Anthropol. Suppl. 28:113.

- 2000 Covert, H.H., M.W. Hamrick, T. Dzanh, and K.C. McKinney Miocene mammals from the Hangmon Formation, Socialist Republic of Vietnam. *J. Vert. Paleontol.* 19(3): 34A.
- 2001 Nichols, K.A., Covert, H.H., and Zihlman, A.L. Variation and scaling within a wild vervet population with comparison to closely related cercopithecine taxa. *Am. J. Phys. Anthropol. Supl.* 32:113.
- 2002 Byron, C., H. Covert, T. Nadler, and Ha Thang Long. The positional behavior of douc langurs, Delacours' langurs, and white-cheeked gibbons at the Endangered Primate Rescue Center, Cuc Phuong National Park, Vietnam. Abstracted published in the *Am. J. Phys. Anthropol. Supl.* 34:51.
- 2002 Hamrick, M. and Covert, H. Phalanges of *Omomys carteri* from the Eocene of North America and the morphology of early primate grasping digits. *Am. J. Phys. Anthropol. Supl.* 34:81.
- 2002 Covert, H.H. and Byron, C. Positional behavior of the red-shanked douc langur, Delacour's langur and the white-cheeked crested gibbon at the Cuc Phuong Endangered Primate Rescue Center, Vietnam. *Caring for Primates: the program for the 19th Congress of the International Society of Primatology.* p. 200.
- 2002 Workman, C. and Covert, H. H. A comparison of the positional behavior of infant and adult red-shanked douc langurs, Delacour's langurs, and Hatinh langurs at the Cuc Phuong Endangered Primate Rescue Center, Vietnam. *Caring for Primates: the program for the 19th Congress of the International Primatological Society.* p. 216.
- 2003 Covert, H.H. and Trinh Dzanh New primate fossils from northern Vietnam. *Am. J. Phys. Anthropol. Supl.* 36:80.
- 2003 Byron, C. and Covert, H.H. Anatomical correlates for suspensory behaviors of douc langurs. *Am. J. Phys. Anthropol. Supl.* 36:73.
- 2003 Workman, C.C. and Covert, H.H. A comparison of substrate use among infant and adult red-shanked douc langurs, Delacour's langurs and Hatinh langurs at the Endangered Primate Rescue Center, Vietnam. *Am. J. Phys. Anthropol. Supl.* 36:227.
- 2004 Covert, HH Skeletal variation among some Vietnamese Colobines (abstract for presentation at IPS in Turino, Italy). *Folia Primatologica* 75:251.
- 2005 Covert, H.H., Le Khac Quyet, Wright, B. A recently discovered population of Tonkin snub-nosed monkeys. *Am. J. Phys. Anthropol. Supl.* 40:89.
- 2005 Nguyen Manh Ha and Covert, H.H. Effects of the illegal animal trade on primate conservation in Vietnam. *Am. J. Phys. Anthropol. Supl.* 40:157.
- 2005 Phan Duy Thuc, Covert, H., Polet, G., Becker, I., and Tran Văn Mùi New Survey data on *Pygathrix nigripes*, the black-shanked douc langur, from Cat Tien National Park, Viet Nam. *Am. J. Phys. Anthropol. Supl.* 40:165-66.
- 2005 Workman, C., Covert, H., and Pham Nhat Status of the Hatinh langur in Phong Nha – Ke Bang National Park. *Am. J. Phys. Anthropol. Supl.* 40:226.

I. Submitted Abstracts

- Le Khac Quyet, Covert, H.H., and Wright, B.W. Status of the critically endangered Tonkin snub-nosed monkey (*Rhinopithecus avunculus*) at Du Gia Nature Reserve, Ha Giang Province, Vietnam. (abstract for presentation at IPS in Entebbe, Uganda June 25-30, 2006)
- Covert, H.H., Le Khac Quyet, and Wright, B.W. A preliminary report of the positional behavior of the critically endangered Tonkin snub-nosed monkey (*Rhinopithecus avunculus*) at Du Gia

Nature Reserve, Ha Giang Province, Vietnam. (abstract for presentation at IPS in Entebbe, Uganda June 25-30, 2006)

Wright, B.W., Le Khac Quyet, and Covert, H.H. The dietary ecology of the Tonkin snub-nose monkey (*Rhinopithecus avunculus*) at Du Gia, Ha Giang Province, Vietnam. (abstract for presentation at IPS in Entebbe, Uganda June 25-30, 2006)

Wright, K.A., Stevens, N.J., Covert, H.H., and Nadler, T. Hanging around: a comparison of suspensory postures in langurs and gibbons at the Endangered Primate Research Center, Cuc Phuong National Park, Vietnam. (abstract for presentation at IPS in Entebbe, Uganda June 25-30, 2006)

Wright, B.W., Ulibarri, L., O'Brien, J., Covert, H.H., and Nadler, T. It's tough out there: Variation in the toughness of ingested leaves among four colobines in Vietnam. (abstract for presentation at IPS in Entebbe, Uganda June 25-30, 2006)

Covert, H.H., Le Khac Quyet, and Wright, B.W. The positional behavior of the Tonkin snub-nosed monkey (*Rhinopithecus avunculus*) at Du Gia Nature Reserve, Ha Giang Province, Vietnam. *Am. J. Phys. Anthropol.*

Stevens, N.J., Wright, K.A., Covert, H.H., and Nadler, T. Tail posture during arboreal quadrupedalism in four species of leaf monkeys at the Endangered Primate Research Center, Cuc Phuong National Park, Vietnam. *Am. J. Phys. Anthropol.*

O'Brien, J.A., Ulibarri, L., Wright, B.W., Wright, K.A., Covert, H.H., and Nadler, T. A preliminary analysis of the mechanics, chemistry, and color of leaves ingested by four colobine species in Vietnam. *Am. J. Phys. Anthropol.*

Ulibarri, L., O'Brien, J., Covert, H.H., Wright, B.W., and Nadler, T. The toughness of foods selected by four closely related Colobine species. *Am. J. Phys. Anthropol.*

Wright, B.W., Stevens, N.J., Ulibarri, L., O'Brien, J., Covert, H.H. and Nadler, T. Relationships between leaf toughness and food processing behavior among four Vietnam leaf monkeys. (abstract for the meeting of the Society of Integrative and Comparative Biology Orlando, Florida January 4-8, 2006)

Stevens, N.J., Wright, K.A., Covert, H.H. and Nadler, T. A comparison of vertebral kinematics of Hatinh and Delacour's langurs in the Cuc Phuong National Park of Vietnam. (abstract for the meeting of the Society of Integrative and Comparative Biology Orlando, Florida January 4-8, 2006)

J. Invited Papers

1992 Recently recovered North American Eocene omomyids and adapids: their bearing on debates about anthropoid origins. "Anthropoid Origins" at Duke University Medical School, Durham, NC, May 6-9. Sponsored By: Wenner-Gren Foundation for Anthropological Research, Inc. and The L.S.B. Leakey Foundation.

1993 Locomotor adaptations of Eocene primates: adaptive diversity among the earliest Prosimians. "Creatures of the Dark: The Nocturnal Prosimians" at Duke University Primate Center, Durham, NC June 9-12. Sponsored by: Duke Univ.

2002 The earliest primate adaptive radiations: how omomyoid and adapoid diversity clouds our understanding of anthropoid origins. At Powdermill Nature Preserve, PA. Sponsored by NSF and Wenner Gren Foundation for Anthropological Research.

2003 The EPRC as an important research center: ontogeny of locomotor differences among Vietnamese colobines. The Conservation of Primates in Vietnam International Symposium, Cuc Phuong National Park, Ninh Binh, Viet Nam. November 18-20, 2003.

Research in Progress

Description of the positional behavior primates at the Endanger Primate Rescue Center of Cuc Phuong National Park, Vietnam.

Survey of Red-shanked douc and Hatinh langurs in Ke Bang – Phong Nha National Park, Vietnam: ecology and preparation for a reintroduction program.

Conservation and ecology of Black-shanked douc langurs in Nui Chua National Park and Tonkin snub-nosed monkeys in Du Gai Protected area, Vietnam.

Survey of Paleogene deposits in Colorado and Southern Wyoming for mammal producing localities.

Description of newly discovered early Eocene mammalian taxa from the Washakie Basin, Wyoming.

Analysis of skeletal remains representing *Omomys* n. sp. From Bridger C deposits of the Bridger Basin, Wyoming.

Survey of Paleogene and Neogene deposits in the Socialist Republic of Vietnam for mammal producing localities.

Description of newly discovered Pleistocene mammalian taxa from the Ninh Binh Province of Vietnam.

Public Lectures and Appearances

1982 "Oligocene Primates from the Fayum Depression, Egypt: the earliest anthropoids", Department of Anthropology, University of Washington, Seattle, April.

1986 "Mammalian Paleontology of the Fayum Depression, Egypt: the Oligocene Radiation", Department of Zoology, University of Massachusetts, Amherst, February.

1988 "Recent Advances in African Oligocene Mammalian Paleontology", Department of Anthropology, Arizona State University, Tempe, Arizona, February 26.

1988 "Before Rameses II: the earliest human ancestors". Colorado Endowment for the Humanities. Cortez, April 28.

1989 "New Primates from the Washakie Basin, Wyoming", Institute of Human Origins. Berkeley, California.

1990 "New Eocene Primates from the Washakie Basin, Wyoming", Department of Anthropology, University of Florida, Gainesville, Florida.

1990 "Recent Advances in the Study of Human Evolution", the Boulder Rotary Club.

1990 "Recent Paleontology in the Washakie Basin, Wyoming", Duke University Primate Center, Duke University, Durham, North Carolina.

1991 "The earliest known higher primates: Ancestors from the Oligocene of Egypt", African Studies Program of the University of Washington, Seattle.

1991 "Early Eocene Mammalian Paleontology in the Washakie Basin, Wyoming", public lecture at Western Wyoming College, Rock Springs, Wyoming.

- 1991 "New Early Eocene Primates from the Washakie Basin: adaptations and phylogenetic relationships", Integrated Graduate Program in Evolutionary Biology, Northwestern Medical School, Chicago, Illinois.
- 1991 "New Early Eocene Primates from North America: Adaptive Diversity" Sigma Xi, University of Colorado, Boulder.
- 1992 Panel discussant on "Predictors of Success for Learning Disabled Post-secondary Students". At the First Conference on Learning Disabilities at the College Level at the University of Colorado, Boulder, June 12-13.
- 1994 "Locomotor variation among early primates." The Evolutionary Morphology Seminar Series at the Department of Biological Anthropology and Anatomy, Duke University, Durham, NC.
- 1995 "The skeleton of *Omomys*, an Eocene primate: adaptive and phylogenetic significance." Paleobiology Seminar Series at the Department of Anatomical Sciences, SUNY Stony Brook.
- 1998 "The potential importance of paleontological research in Vietnam." Department of Geology and Minerals of Vietnam. Hanoi, Vietnam.
- 2000 "Reconstructing the Natural History of Vietnam." Talk to the Press Club of Hanoi. Hanoi, Vietnam
- 2000 "Paleoanthropology in Vietnam." Talk to the United States of America Embassy in Vietnam. Hanoi, Vietnam.
- 2001 "Why Vertebrate Paleontology Research in Southeast Asia is Important." A two hour lecture to the Paleontological Association of Vietnam at the Geological Museum of Vietnam, Hanoi, Vietnam Sept. 26
- 2001 "Field Methods in Vertebrate Paleontology." A two hour lecture presented to the Paleontological Association of Vietnam at the Geological Museum of Vietnam, Hanoi, Vietnam Sept. 27
- 2002 " Primate Ecology and Conservation in South East Asia." A two hour lecture to the faculty and graduate students of the Department of Vertebrate Biology at the National University of Vietnam, Hanoi. January 15
- 2002 "Recent advances in the study of human evolution." A two hour lecture to the Paleontological Association of Vietnam at the Geological Museum of Vietnam, 6 Pham Ngu Lao Str. Hanoi. February 27
- 2002 "Paleontological survey in limestone fissure-fillings." A two hour lecture to the Paleontological Association of Vietnam at the Geological Museum of Vietnam, 6 Pham Ngu Lao Str. Hanoi. February 28
- 2002 "Unexpected Locomotor Diversity among langurs housed at the Endangered Primate Rescue Center." A 90 minute lecture to the administration and staff of Cuc Phuong National Park, Ninh Binh Province, Vietnam April
- 2003 "Primate Diversity and Conservation in Vietnam." A lecture to the Department of Anthropology at Colorado State University, Fort Collins, March 23.
- 2003 " Primate Diversity and Conservation in Vietnam." Public lectures in the "Inspired by the remarkable work of Jane Goodall series" Denver Museum of Nature and Science, April 28 and 29.
- 2003 "Global Primate Diversity and Primate Conservation in Vietnam" a two hour lecture to the Faculty of Forest Resources and Environmental Management of the Vietnam Forestry University, Xuan Mai, Viet Nam. May 16

2004 “Unexpected locomotor diversity among three critically endangered Southeast Asian primates and its anatomical foundations.” A lecture to the administration and staff of Cuc Phuong National Park, Ninh Binh Province, Vietnam, June 29.

2004 “Unexpected Locomotor Diversity Among Vietnamese Leaf Monkeys.” A presentation in the Paleontological Seminar Series at the National Museum of Natural Science, Smithsonian Institute, Washington, DC November 10.

2004 “Primate Diversity and Conservation in Vietnam.” A two hour lecture to students and staff of the Department of Anthropology, George Washington University, Washington, DC November 11.

2005 “The Importance of Feeding Ecology for the Conservation of the Tonkin Snub-Nosed Monkey. A lecture to government officials of Ha Giang Province, Vietnam June 14.

2005 “Primate Conservation in Vietnam.” A lecture to the staff of the Institute of Tropical Biology, Ho Chi Minh City Aug. 5.

Field Experience

7/80 - 8/80 Field assistant to Dr. E.L. Simons, paleontological research in the Bighorn Basin, Wyoming (lower Eocene deposits).

9/80 - 11/80 Field assistant to Dr. E.L. Simons and R.F. Kay, paleontological research in the Qatrani Formation of the Fayum Province, Egypt (Oligocene deposits).

6/81 - 7/81 Field assistant to Dr. T.M. Bown, paleontological research in the Bighorn Basin, Wyoming (lower Eocene deposits).

9/81 - 11/81 Field assistant to Dr. E.L. Simons and R.F. Kay, paleontological research in the Qatrani Formation of the Fayum Province and the Moghara Formation of the Qatara Depression, Egypt (Oligocene and Miocene deposits).

9/85 - 11/85 Field assistant to Dr. E.L. Simons, paleontological research in the Qatrani Formation of the Fayum Province, Egypt (Oligocene deposits).

5/87 - 8/87 Director of paleontological survey of early Eocene deposits in the Sand Wash Basin, Colorado and the Washakie Basin, Wyoming.

5/88 - 8/93 Director of paleontological survey of early and middle Eocene deposits in the Washakie Basin, Wyoming.

10/94 - 11/94 Field assistant to Dr. E.L. Simons, paleontological research in the Qatrani Formation of the Fayum Province, Egypt (Eocene and Oligocene deposits).

5/96 Field assistant to Dr. M.W. Hamrick, paleontological research in the Big Bend Region of the Marfa Basin, Texas (Eocene and Oligocene deposits).

5/97 - present Director of paleontological survey of early and middle Eocene deposits in the Washakie Basin, Wyoming.

5/98 - present Co-Director (with Dr. Trinh Dzanh) of paleontological survey of Paleogene and Miocene deposits in the Socialist Republic of Vietnam: a joint project with the Department of Geology and Minerals of Vietnam.

1/01 - present Co-Director of the study of primate positional behavior at the Endangered Primate Rescue Center of Cuc Phuong National Park, Ninh Binh Province, Vietnam.

6/04 – present Co-Director of the study of ecology and conservation of leaf monkeys in Phong Nha – Ke Bang National Park, Cat Tien National Park, and Du Gai Protected Area, Vietnam.

Courses Taught:

Introduction to Physical Anthropology (2010-2020)
Laboratory in Physical Anthropology 1 (2030)
Human Origins I (Honors 2050)
Human Paleontology (4110/5110)
Advanced Physical Anthropology (4120/5120)
Primate Comparative Anatomy (4030/5030)
Anthropological Perspectives: Contemporary Issues (4180)
Proseminar in Physical Anthropology (7020)
Undergraduate Seminar in Physical Anthropology (3020)
Primate Paleontology (4170/5170)
Advanced Seminar in Physical Anthropology (7120)
Graduate Core Course in Physical Anthropology (5790)
The Human Animal (3010)
Departmental Honors in Anthropology 1 and 2 Seminars (4710, 4720)

Graduate Student Advising**Principal Advisor of Doctoral Dissertation**

Dr. Blythe Williams (1994) "Phylogeny of the Omomyidae and implications for anthropoid origins"
Dr. Carol Harrisville-Wolff (1994) "Phylogeny and lateral variation of *Cantius* and *Hyopsodus* two common early Eocene mammalian genera"
Dr. Sandra Keeley (1994) "Women's secrets/Men's choices Subjections of gender in a northern California abortion clinic."
Dr. Diana Ayers-Darling (1996) "The use of platyrrhine hand during locomotion and skeletal Implications from the distal carpal row and metacarpals."
Dr. Shadrack M. Kamenya (1997) "Changes in land use patterns and their impacts on red colobus monkeys' behavior: implications for primate conservation in Gombe National Park, Tanzania."
Dr. Frank Cuzzo (2000) "Craniodental Variation in Dwarf Galagos (*Galagoides*) and Mouse Lemurs (*Microcebus*) and its Implications for the Paleotaxonomy of Small-Bodied Eocene Primates"

Principal Advisor of Masters Thesis

Ms. Blythe Williams (1989) "A New Early Wasatchian Fauna from the Washakie Basin, Wyoming."
Ms. Carol Harrisville-Wolff (1990) "Tempo and Mode of Evolutionary Change for *Cantius*, an early Eocene primate, in the Bighorn Basin, Wyoming."
Ms. Diana Ayers-Darling (1992) "The Wasatchian-Bridgerian Boundary and Early Primate Evolution."
Mr. Shadrack Kamenya (1992) "Primate behavior, interactions with humans, and problems of non-human primate conservation; a Case Study: Colobus monkeys in Tanzania."

- Ms. Joanne Cowan (1994) "An examination of the departure and dispersal of *Homo erectus* from East Africa during the early to middle Pleistocene.
- Mr. Barth Wright (1995) "The effects of behavioral enrichment and the utilization of tools within and between captive groups of western lowland gorillas and Bornean orangutans.
- Ms. Marianne Nitsch (1996) "Integration of two infant gorillas into a social group at the Cheyenne Mountain Zoo."
- Ms. Kim Nichols (1998) "Comparisons in linear skeletal dimensions of wild and captive western lowland gorillas.
- Ms. Amy Farnsbach (2001) "*Mycobacterium tuberculosis* in Past Populations: Integrating Molecular and Paleopathological Methods."
- Ms. Catherine Workman (2004) "Creating the Collection: Ontogeny of Locomotion in Vietnamese Colobines with Consequences for Life History."
- Mr. Shane Walker (2004) "FORDISC 2.0 and the Use of Craniometrics in the Race and Sex Identification of Two Christian Period Nubian Cemeteries."
- Mr. Larry Ulibarri (2006) "Food Fracture Toughness and Food Selection in Four Captive Vietnamese Colobines."
- Mr. Jonathan O'Brien (2006) "A Preliminary Analysis of the Chemistry and Color of Leaves Ingested by Four Colobine Species in Vietnam."

Current Graduate Student Advisees

- Ms. Kim Nichols, Ph.D. candidate
Mr. Larry Ulibarri, Ph.D. candidate
Mr. Jonathan O'Brien, Ph.D. candidate
Ms. Michaela Howells, Ph.D. candidate
Ms. Nicole Garrett, M.A. candidate
Ms. Meegan Anderson M.A. candidate

Committee Member for Dissertation/Thesis

- Ms. Sue Struthers, M.A. (1988)
Ms. Rosemary Beck, M.A. (1988)
Ms. Lisa Staten, M.A. (1990)
Mr. Ken Doi, M.A. (1990)
Ms. Diane Mittler, M.A. (1991)
Dr. Sandra Karhu, Ph.D. (1991)
Dr. Stacey Zamudio, Ph.D. (1991)
Dr. Sue Sheridan, Ph.D. (1992)
Dr. Sue Woods, Ph.D. (1992)
Dr. Logan Ivy, Ph.D. (1993)
Dr. Kim Gruenwald, Ph.D. (1994)
Ms. Kathryn MacCafferty, M.A. (1994)
Ms. Dawn Mulhern, M.A. (1994)
Dr. Lawrence B. Conyer, Ph.D. (1995)
Dr. Scott Simmons, Ph.D. (1996)
Mr. Eric Dewar, M.A. (1996)

Dr. Yashka Hallein Ph.D. (1996)
Dr. Dawn Mulhern Ph.D. (1996)
Dr. Brendan Schaefer Ph.D. (1997)
Dr. Warren Wilson Ph.D. (1997)
Ms. Jennifer Richtsmeier M.A. (1998)
Dr. Colleen Ramos Ph.D. (1998)
Ms. Julie Steckler M.A. (1999)
Mr. Jon Bennett M.A. (2001)
Ms. Mary Steiner-Muro M.A. (2003)
Ms. Heather Williams M.A. (2005)
Mr. Ian Cunningham M.A. (2005)
Dr. Matthew Tornow Ph.D. (2005)
Ms. Emily Mertz M.A. (2006)
Mr. Paul Sandberg M.A. (2006)
Dr. David Hoffman Ph.D. (2006)

Departmental Administrative Service

Associate Chair of Anthropology and director of Undergraduate Studies (Sept. 1993 - May 1996)
Associate Chair of Anthropology and director of Graduate Studies (Aug. 1998 to May 2000)
Associate Chair of Anthropology and director of Graduate Studies (June 2002 to May 2006)

University Committee Service

Member, Arts and Sciences Natural Sciences curriculum revision committee (1987-1988).
Member, Undergraduate research opportunities program advisory committee (1988 - 1990).
Member, University Museum advisory committee (1988 - 1994).
Chair, University Museum advisory committee (Jan. 1991 - 1994).
Member, CRCW committee (Aug. 1995 - May 1998).
Member, University Museum advisory committee (Jan. 1996 - Sept. 1997).
Member, Enrollment Management Team (April, 1996 - May 1998).
Member, Honors Council (Aug. 1998 – present).
Member, Biological Sciences Initiative Advisory Board (Sept., 1999 - present).
Chair, BFA Research Awards selection committee (Spring, 2001).
Member, Director of Honors Search Committee (Fall, 2005).
Member, CU Museum Director Exploratory Committee (Spring, 2006).

Professional Service

Associate Editor, Program for Fifty-third Annual Meeting of the American Association of Physical Anthropologists (1984).
Judge, Student Award Contest at the Fifty-eighth Annual Meeting of the American Association of Physical Anthropologists (1989).
Co-Chaired day long symposium with Dr. Vu Ngoc Thanh, Director of the Hanoi Museum of Zoology, Thursday Nov. 20th of the Conservation of Primates in Vietnam, International Symposium, Cuc Phuong National Park, Ninh Binh, Viet Nam (2003).

Co-nominator, with Mr. Don DeBlieux, of Prithijit Chatrath for the Morris F. Skinner Prize of the Society of Vertebrate Paleontology, Award was given to Mr. Chatrath at the 62nd Annual Meeting of the SVP in Oct. 2003.

Judge, Student Award Contest for the Primate Interest Group at the seventy-fifth Annual Meeting of the American Association of the Physical Anthropology (2006).

Editor for the Vietnam Journal of Primatology (2006).

Lead Instructor for Primate Conservation Training course in Hanoi, Vietnam. Host institution: Hanoi University of Science, Primary Sponsor: Conservation International (Aug. 7-28, 2006)

Professional Consulting

Senior Paleontologist, Historic Properties Inventory and Evaluation Report for Cultural Resources on the Proposed Altamont Gas Pipeline Project in Wyoming. Total Contract for Paleontology: \$40,000 (1991-92)