

# CURRICULUM VITAE

## Horst Dieter Steklis, Ph.D.

Phone: 520-730-0423; email: steklis@email.arizona.edu

**MARITAL STATUS:** Married, three children

**EDUCATION:** University of California, Berkeley

**DEGREES:** A.B. in Biological Anthropology, 1968  
M.A. in Biological Anthropology, 1972  
Ph.D. in Biological Anthropology, 1974

### **HONORS & AWARDS:**

Phi Beta Kappa, 1968  
National Defense and Education Act Fellowship, 1971-1972  
National Institutes of Health Traineeship,  
1972-1974  
Rutgers University Faculty Merit Award,  
1981-1982; 1983-1984; 1984-1985; 1985-1986; 1987-1988; 1990-1991;  
1998-1999; 2001-2002  
Champions of Wildlife Award, 2002, The Explorer's Club.

### **EMPLOYMENT:**

#### University of Arizona

July 2008- Present	Associate Dean for Academic Affairs, Chief Academic Officer, and Interim Chair, Division of Commerce and BAS Programs, University of Arizona South; Professor of Psychology, and Adjunct Professor of Family Studies and Human Development, University of Arizona.
Sept 2007- June 2008	Program Coordinator and Adjunct Professor of Psychology, University of Arizona South.

#### The Ammonius Foundation:

Sept 2005- Sept 2007	Program Director, The Ammonius Foundation, a non-profit organization committed to reviving systematic philosophy.
-------------------------	---

Rutgers University

- Jan 2004- Present Professor Emeritus of Primatology
- Jul 1987- Dec 2003 Professor, Department of Anthropology
- Jul 1983- Dec 1991 Chair, Department of Anthropology
- Jul 1980- Jun 1987 Associate Professor, Department of Anthropology
- Jul 1974- Jun 1980 Assistant Professor, Department of Anthropology and Adjunct Assistant Professor, Department of Psychiatry, UMDNJ-Rutgers Medical School, Piscataway, New Jersey
- Jan-Jun 1974 Co-adjunct Lecturer, Department of Anthropology, Rutgers University

The Dian Fossey Gorilla Fund International:

- Dec 1995- Sept. 2005 Chief Scientist and Vice-President
- Jul 1993- Dec 1995 Executive Director
- Dec 1991- Jul 1993 Director, Karisoke Research Center, Rwanda (Central-East Africa)

Sepulveda Veterans Administration Medical Center and UCLA

- Jan 1981- Jul 1982 Clinical Neurophysiologist, Sepulveda Veterans Administration Medical Center, Sepulveda, California, and Visiting Associate Professor Department of Psychiatry and Biobehavioral Sciences, NPI, UCLA School of Medicine, Los Angeles, California

**EDITORSHIPS, BOARDS & PROFESSIONAL AFFILIATIONS:**

- Editor, American Journal of Primatology, 1988-1991.
- Associate Editor, American Journal of Primatology, 1991-2003.
- Editorial Board, Behavioral and Brain Sciences, 1990-2008.

- Editorial Review Board, The Evolutionary Review, SUNY Press, 2009-Present
- Affiliate Scientist, The Dian Fossey Gorilla Fund Int. 2005-Present
- Founding Board Member, The Bellows Institute, 2007-Present.
- Visiting Scholar on a Continuing Basis, Dept. of Anthropology, University of Arizona, 2004-Present
- Wild Minds, LLC, co-founder, www.wild-minds.org, 2005-Present
- Executive Committee Member, Ironwood Tree Experience, a program of Prescott College Center for Children in Nature, 2008-Present
- Mentor, Prescott College, Prescott, AZ, 2008-Present
- Affiliated Faculty, McClelland Inst. for Children, Youth, and Families, Family Studies and Human Development Div., Norton School of Family and Consumer Sciences, Univ. of Arizona, 2009-Present.

#### **GRANT AWARDS:**

Rutgers University Biomedical Sciences Support Grant, 1976, \$1,400 (Principal Investigator).  
 Wenner-Gren Foundation for Anthropological Research Grant #3082, 1975, \$3,000 (Principal Investigator).  
 Grant Foundation, 1975, \$10,000 (Principal Investigator).  
 Epilepsy Foundation of America, Grant #27-2601, 1976-78, \$24,000 (Principal Investigator).  
 Rutgers University Biomedical Research Support Grant, 1979, \$1600 (Principal Investigator).  
 Rutgers University Biomedical Research Support Grant, 1976, \$1400 (Principal Investigator).  
 The Graduate School, Rutgers University, 1977, \$500 (Principal Investigator).  
 Rutgers University Research Council, 1977, \$500 (Principal Investigator).  
 Wenner-Gren Foundation for Anthropological Research Grant, 1984, \$1450 (Principal Investigator).  
 Rutgers University, Douglass College Fellows Opportunity Fund, 1984, \$250 (Travel Grant).  
 Rutgers University, Douglass College Fellows Opportunity Fund, 1986, \$200 (Travel Grant).  
 Rutgers University Travel Grant, 1986, \$300.  
 NSF Travel Grant, 1986, \$500.  
 Rutgers University Travel Grant, 1988, \$1500.  
 L.S.B. Leakey Foundation, 1989, \$10,000 (Principal Investigator).  
 Rutgers University Research Council, 1989, \$1500 (Principal Investigator).  
 Jane Goodall Institute for Research, Conservation and Education, 1989, \$4900 (Principal Investigator).  
 National Geographic Society, 1990, \$30,000, (Principal Investigator).

Jane Goodall Institute for Research, Conservation and Education, 1990, \$4900 (Principal Investigator)  
Rutgers University Research Council, 1991, \$2000 (Principal Investigator)  
United States Agency for International Development, 1993, \$30,000 (Co-Principal Investigator)  
National Geographic Society, 1999, \$10,000 (P.I.)  
United States Agency for International Development, 2001 \$574,000 (Principal Investigator)  
United States Agency for International Development, 2002 \$600,000 (Principal Investigator)  
United States Agency for International Development, 2003 \$595,000 (Principal Investigator)  
The John D. MacArthur Fdn., 2003, \$125,000 (Principal Investigator)  
L.S.B. Leakey Foundation, 2003, \$21,400 (Co-Principal Investigator).  
McClelland Inst. for Children, Youth, and Families, Family Studies and Human Development Div., Norton School of Family and Consumer Sciences, The “Fathers, Parenting, and Families” Research Initiative Fund, Univ. of Arizona, 2009, \$5,000 (Co-Principal Investigator)

#### **BOOKS, CHAPTERS IN BOOKS, EDITED WORKS:**

Harnad, S. R., Steklis, H. D., and Lancaster, J. (eds.) Origins and Evolution of Language and Speech. Ann. N.Y. Acad. Sci. 280, 1976, pp. 1-998.

Steklis, H. D. and Harnad, S. R. From Hand to Mouth: Some Critical Stages in the Evolution of Language. In: Origins and Evolution of Language and Speech. Ann. N.Y. Aca. Sci. 280, 1976, pp. 445-455.

Steklis, H.D. and Raleigh, M. J. (eds.) Neurobiology of Social Communication in Primates: An Evolutionary Perspective, N.Y.: Academic Press, 1979.

Steklis, H. D. and Raleigh, M. J. Introductory Comments and Overview. In: Neurobiology of Social Communication in Primates: An Evolutionary Perspective, H. D. Steklis and M. J. Raleigh (eds.) N.Y.: Academic Press, 1979, pp. 1-10.

Steklis, H. D. and Raleigh, M. J. Behavioral and neurobiological aspects of primate vocalization and facial expression. In: Neurobiology of Social Communication in Primates: An Evolutionary Perspective. H. D. Steklis and M. J. Raleigh (eds.) N.Y.: Academic Press, 1979, pp. 257-282.

Steklis, H. D. and Raleigh, M. J. Requisites for Language: Interspecific and Evolutionary Aspects. In: Neurobiology of Social Communication in

Primates: An Evolutionary Perspective. H. D. Steklis and M. J. Raleigh (eds.) N.Y.: Academic Press, 1979, pp. 283-314.

Kling, A. S. and Steklis, H. D. The Effects of Drugs and Hormones on Social Behavior in Nonhuman Primates. In: Advanced Views in Primate Biology. B. Chiarelli and R. S. Corruccini (eds.) New York: Springer, 1982, pp. 212-216.

Steklis, H. D. and Kling, A. S. (eds.) Hormones, Drugs and Social Behavior in Primates. N.Y.: Spectrum Publications, 1983.

Steklis, H. D., Linn, G. S., Howard, S. M., Kling, A., and Tiger, L. Progesterone and Socio-Sexual Behavior in Stumptailed Macaques (Macaca arctoides): Hormonal and Socio-Environmental Interactions. In: Hormones, Drugs and Social Behavior in Primates. H. D. Steklis and A. S. Kling (eds.) N.Y.: Spectrum Publications, 1983, pp.107-134.

Steklis, H. D. and Kling, A. S. Introduction. In: Hormones, Drugs and Social Behavior in Primates. H. D. Steklis and A. S. Kling (eds.) N.Y.: Spectrum Publications, 1983, pp. 1-5.

Steklis, H. D. and Kling, A. S. Neurobiology of Affiliative Behavior in Nonhuman Primates. In: The Psychobiology of Attachment and Separation. M. Reite and T. Field (eds.) N.Y.: Academic Press, 1985, pp. 93-134.

Steklis, H. D. and Erwin, J. (eds.) Neurosciences, Vol. 4 in the series Comparative Primate Biology, J. Erwin, series ed., N.Y.: Alan R. Liss, Inc. (1988).

Steklis, H.D. and Erwin, J. Preface. In: Neurosciences, Vol. 4 in the series Comparative Primate Biology, J. Erwin, series ed., N.Y.: Alan R. Liss, Inc. (1988).

Steklis, H.D. Primate communication, comparative neurology, and the origin of human language re-examined. In: The Genesis of Language. M. Landsberg, ed., N.Y.: Walter de Gruyter and Co. 1988, pp. 37-63. (Reprint of journal article)

Steklis, H. D. Evolution. In: The Opposite Sex. A. Campbell, ed., Massachusetts: Salem House, 1989, pp. 132-141.

Steklis, H.D. Primate socioecology from the bottom up. In: Milestones in Human Evolution. A. Almquist and A. Manyak, eds., IL: Waveland Press, Inc., 1993, pp. 39-74.

Steklis, H.D. Temperament, Social Cognition, and the Evolution of Social Organization in Primates. H.D. Steklis (guest editor) Proceedings of the

1992 IPS Symposium. American Journal of Primatology , Vol. 37 (2), 1995.

Steklis, H.D. The Primate Brain and the Origins of Intelligence. In: The New Physical Anthropology, S. Strum and D. Lindburg, eds., pp. 49-63, NJ: Prentice-Hall, 1999.

Wallis, J. (ed.) Primate Conservation: The Role of Zoological Parks. vol. 1, Special Topics in Primatology, H.D. Steklis, series editor, The American Society of Primatologists. 1997.

Steklis, H.D. and Gerald-Steklis, C.N. Status of the Virunga Mountain Gorilla Population. In: Mountain Gorillas, M. Robbins, P. Sicotte and K. Stewart, eds. pp. 391-412, Cambridge: Cambridge University Press, 2001.

Stoinski, T., Steklis, H.D. and Mehlman, P.T. (eds.) Conservation in the 21<sup>st</sup> Century: Gorillas as a Case Study. New York, NY: Springer, 2007.

Gerald Steklis, N. and Steklis, H.D. The value of long-term research: The mountain gorilla as a case study. In: Stoinski, T., Steklis, H.D. and Mehlman, P.T. (eds.) pp. 150-173, Conservation in the 21<sup>st</sup> Century: Gorillas as a Case Study. New York, NY: Springer, 2007.

Steklis, H.D., Madry, S., Gerald Steklis, N. and Faust, N. An integrated Geomatics research program for mountain gorilla behavior and conservation. In: Stoinski, T., Steklis, H.D. and Mehlman, P.T. (eds.), pp. 228-252, Conservation in the 21<sup>st</sup> Century: Gorillas as a Case Study. New York, NY: Springer, 2007.

#### **ARTICLES IN REFEREED JOURNALS:**

Kling, A. S. and Steklis, H. D. A Neural Substrate for Affiliative Behavior in Nonhuman Primates. Brain, Behavior, and Evolution 13: 216-238, 1976.

Steklis, H. D. and King, G. E. The Craniocervical Killing Bite: Toward an Ethology of Primate Predatory Behavior. Journal of Human Evolution 7: 567-581, 1978.

Raleigh, M. J., Steklis, H. D., Ervin, F.R., Kling, A.S., and McGuire, M.T. The Effects of Orbitofrontal Lesions on the Aggressive Behavior of Vervet Monkeys (Cercopithecus aethiops sabeus). Experimental Neurology 66: 158-168, 1979.

Kling, A. S., Steklis, H. D. and Deutsch, S. Radio-telemetered Activity from the Amygdala During Social Interactions in the Monkey. Experimental Neurology 66: 88-96, 1979.

Deutsch, R. D., Kling, A. S., and Steklis, H. D. Influence of Frontal Lobe Lesions on Behavioral Interactions in Man. Research Communications in Psychology, Psychiatry and Behavior 4: 415-431, 1979.

Raleigh, M. J. and Steklis, H. D. The Effects of Orbitofrontal and Temporal Neocortical Lesions on the Affiliative Behavior of Vervet Monkeys (Cercopithecus aethiops sabeus). Experimental Neurology 73: 378-389, 1981.

Steklis, H. D., Linn, G. S., Howard, S. M., Kling, A. S. and Tiger, L. Effects of Medroxyprogesterone Acetate on Socio-Sexual Behavior of Stumptail Macaques. Physiology and Behavior 28 (3): 535-544, 1982.

King, G. S. and Steklis, H. D. New Evidence for the Craniocervical Killing Bite in Primates. Journal of Human Evolution 13: 469-481, 1984.

Steklis, H. D., Brammer, G. L., Raleigh, M. J., and McGuire, M. T. Serum Testosterone, Male Dominance, and Aggression in Captive Groups of Vervet Monkeys (Cercopithecus aethiops sabaeus). Hormones and Behavior 19: 154-163, 1985

Steklis, H. D. Primate Communication, Comparative Neurology, and the Origin of Language Re-examined. J. Human Evolution 14: 157-173, 1985.

Pollack, A. and Steklis, H. D. Urinary Catecholamines and Stress in Male and Female Police Cadets. Human Biology 58 (2): 209-220, 1986.

Marchant, L. F. and Steklis, H. D. Hand Preference in a Captive Island Group of Chimpanzees (Pan troglodytes). American J. Primatology 10: 301-314, 1986.

Steklis, H. D., Raleigh, M. J., Kling, A. S., and Tachiki, K. Biochemical and Hormonal Correlates of Social Behavior in All-Male Groups of Squirrel Monkeys (Saimiri sciureus). American J. Primatology 11: 133-145, 1986.

Steklis, H.D. and Fox, J.R. Menstrual cycle phase and sexual behavior in semi-free-ranging stumptail macaques. Int. J. of Primatology 9(5): 443-456, 1988

Steklis, H.D. and Whiteman, C. Loss of estrus in human evolution: too many answers, too few questions. Ethology and Sociobiology 10: 417-434, 1989

Linn, G. S. and Steklis, H. D. The effects of Depo-Medroxyprogesterone Acetate (DMPA) on copulation-related and agonistic behaviors in an island colony of stumptail macaques (Macaca arctoides). Physiology and Behavior 47: 403-408, 1990.

Steklis, H. D. and Walter, A. Culture, biology, and human behavior: A mechanistic approach. Human Nature 2(2):137-169, 1991.

Steklis, H.D., Gerald-Steklis, N. and Madry, S. The mountain gorilla: Conserving an endangered primate in conditions of extreme political instability. Primate Conservation 17:145-151,1997.

Steklis, H.D. Arthur S. Kling: Pioneer of the primate social brain. American Journal of Primatology 44:227-230, 1998.

C.S. Sherwood, M.R. Cranfield, P.T. Mehlman, A.A. Lilly, J. Garbe, C.A. Whittier, F.B. Nutter, T.R. Rein, H.J. Bruner, R.L. Holloway, C.Y. Tang, T.P. Naidich, B.N. Delman, H.D. Steklis, J.M. Erwin and P.R. Hof. Brain Structure of Mountain Gorillas (*Gorilla Beringei Beringei*) Compared With Other Great Apes. American Journal of Primatology 63:149-164, 2004.

Bradley, B.J., Robbins, M.M., Williamson, E.A., Steklis, H.D., Gerald Steklis, N., Eckhardt, N., Boesch, C., and Vigilant, L. Mountain gorilla tug-of-war: silverbacks have limited control over reproduction in multi-male groups. Proceedings of the National Academy of Sciences. 102(26):9418-9423, 2005

Robbins, M.M., Robbins, A.M., Gerald-Steklis, N., and H.D. Steklis. Long-term dominance relationships in female mountain gorillas: strength, stability, and determinants of rank. Behaviour 142:779-809, 2005

Robbins, A.M., Robbins, M.M., Gerald-Steklis, N. and H. D. Steklis. Age-related patterns of reproductive success among female mountain gorillas. American Journal of Physical Anthropology, 131:511-521, 2006

Robbins, M.M., Robbins, A.M., Gerald-Steklis, N. and H. D. Steklis. Socioecological influences on the reproductive success of female mountain gorillas (*Gorilla beringei beringei*). Behavioral Ecology and Sociobiology, 61(6):919-931, 2007.

#### **REVIEWS & SHORT COMMUNICATIONS IN REFEREED JOURNALS:**

Steklis, H. D. and Raleigh, M. J. Comment on "Primate Communication and the Gestural Origin of Language." G. W. Hewes, Current Anthropology 14 (1-2): 16-17, 1973.

Steklis, H. D. and Raleigh, M. J. Comment on "Did the Australopithecines Sing." F. B. Livingstone, Current Anthropology 14 (1-2): 27, 1973.

Steklis, H. D. and Raleigh, M. J. Comment on "Evolution of Brain Size, Speech, and Psychosexual Development." A. E. Mourant, Current Anthropology 14 (1-2): 31, 1973.



Ervin, F. R., Raleigh, M. J. and Steklis, H. D. The Orbital Frontal Center and Monkey Social Behavior. Abstract, Proc. 5th Ann. Meeting Soc. Neurosci.: 554, 1975.

Harnad, S. R. and Steklis, H. D. Comment on "The Split-Brain and Culture-Cognition Paradox." J. A. Paredes and J. J. Hepburn, Current Anthropology 17 (2): 320-322, 1976.

Steklis, H. D. Comment on "Gender Differences in Mental Function: A Clue to the Origin of Language." D. F. Jonas, Current Anthropology 17 (2): 328-329, 1976.

Steklis, H. D. Comment on "Language, Communication, Chimpanzees." G. Mounin, Current Anthropology 17 (1): 15-16, 1976.

Steklis, H. D. Of Gonads and Ganglia. Journal of Behavioral and Brain Sciences 1 (2): 317-318, 1978.

Steklis, H. D., Linn, G. S., Howard, S. M., Harvey, N., Kling, A. S., and Tiger, L. Hormonal and Social Environmental Influences on Sexual Behavior of Stumptail Macaques (Macaca arctoides), Abstract, Antropologia Contemporanea 3 (2): 277, 1980.

Steklis, H. D. Problems of Comparative Primate Sexuality. Journal of Behavioral and Brain Sciences 3 (2): 199-200, 1980.

Steklis, H. D. Review of "Primate Ecology and Human Origins." (I. S. Bernstein and E. O. Smith, eds., N.Y.: Garland Press, 1980). Journal of Ethology and Sociobiology 2: 159-161, 1981.

Steklis, H. D. Review of "Studies in Neurolinguistics," vol. 4 (H. Whitaker and H. A. Whitaker, eds., N.Y.: Academic Press, 1979). Ars Semeiotica 4 (3): 322-327, 1981.

Steklis, H. D., Howard, S. M., and Linn, G. S. Effects of Medroxyprogesterone acetate (Depo-Provera) on Socio-sexual Behavior of Semi-Free-Ranging and Laboratory Housed Stumptailed Macaques (Macaca arctoides). Abstract, Amer. J. Primatology 1: 344-345, 1981.

Steklis, H. D., Brammer, G. L., Raleigh, M. J., McGuire, M. T. Serum Testosterone, Male Dominance, and Aggression in Captive Groups of Vervet Monkeys (Cercopithecus aethiops sabeus). Abstract, Int. J. Primatology 3 (3): 337, 1982.

Steklis, H. D. Control Mechanisms of Vocalization and the Evolution of Speech. Journal of Behavioral and Brain Sciences 5 (2): 287, 1982.

Steklis, H. D. and Raleigh, M. J. The Evolution of Social Bonds: The Contribution of Neural Mechanisms. Abstract, Amer. J. Physical Anthropology 63 (2): 221, 1984.

Steklis, H. D. The Proper Domain of Neuroethology. Journal of Behavioral and Brain Sciences 7(3): 401-402, 1984.

Steklis, H.D. and Raleigh, M.J. Biochemical and Hormonal Correlates of Dominance in Squirrel Monkeys. Abstract, American Journal of Primatology 6(4):423-424, 1984.

Steklis, H.D. Emotion in the Brain, Review of "The Psychobiology of Affective Development" (N. A. Fox and R.J. Davidson, eds., Hillsdale, N.J.: LEA, Assoc., 1984). American J. Primatology 8 (3): 265-266, 1985.

Linn, G.S. and Steklis, H.D. The Effects of Medroxyprogesterone Acetate (MPA) on Agonistic and Copulation-Related Behaviors in Semi-Free Ranging Stumptail Macaques (Macaca Arctoides). Abstract, Amer. J. Primatology 8 (4): 349, 1985.

Steklis, H.D. Review of "Primate Communication" (C.T. Snowdon, et al., eds., N.Y.: Cambridge Univ. Press, 1982). J. Ethology and Sociobiology 6: 231-234, 1985.

Steklis, H.D. Group stability, testosterone, cortisol, and affiliative interactions in captive vervet monkeys. Abstract, Amer. J. Primatology 10: 433, 1986.

Steklis, H.D. Sexual Behavior during phases of the menstrual cycle in stumptailed macaques. Abstract, Amer.J. Primatology 12(3):373, 1987.

Steklis, H.D. Wearing out your welcome. (Review of "Ostracism: A Social and Biological Phenomenon", M. Gruter and R.D. Masters, eds., N.Y.: Elsevier Pub. Co.). American Journal of Primatology 13: 207-208, 1987.

Steklis, H.D. and Marchant, L.F. Primate handedness: Reaching and grasping for straws ? Behavioral and Brain Sciences 10:284-286, 1987.

Steklis, H.D. Climbing the evolutionary ladder of success: The scala naturae in models of brain evolution. Behavioral and Brain Sciences 11:101-102, 1988.

Steklis, H.D. Comment on, "Female primate sexual behavior and conception: Are there really sperm to spare?" (M.F. Small), Current Anthropology 29:92-93, 1988.

Steklis, H.D. The nature-nurture debate: Same old wolf in new sheep's clothing ? Behavioral and Brain Sciences 11:649-650, 1988.

Steklis, H. D. Chimpanzees in an unusual habitat - The Ishasha River region, eastern Zaire. (Abstract) American Journal of Primatology 20 (3): 235, 1990.

Sept, J.M., Steklis, H.D., Mubalama, K. The Ishasha River Project: A Site Update. Abstract of a poster presented in the "Understanding Chimpanzees" Symposium, December 1991, Chicago Academy of Sciences. Proceedings of the Chicago Academy of Sciences, 1992.

Steklis, H.D. The fate of the mountain gorilla in war-torn Rwanda: Current research efforts at the Karisoke Research Center. (Abstract) American Journal of Primatology 33(3): 241, 1994.

Steklis, H.D. Lifelines to a sinking cause. Behavioral and Brain Sciences, 22(5):907-909, 1999.

Steklis, H.D. Monkey see, monkey do? Current Anthropology, 41(5): 884-886, 2001.

Gerald-Steklis, N. and H. Steklis. Reproductive benefits for female mountain gorillas in multi-male groups. American Journal of Primatology 54 (Supplement 1): 60-61, 2001.

Steklis, H.D. Primate Cognition Redux. American Journal of Primatology 68 (3):301-306, 2006.

#### **OTHER PUBLICATIONS:**

Steklis, H.D. Abandoned in the Mist. The New York Times. Pp. A21, March 17, 1993.

Steklis, H.D. and Gerald Steklis, N. Minding Gorillas and the Gorilla's Mind. International Society for Neuroethology Newsletter, April 2009, pp. 2-5.

#### **PUBLICATIONS IN PREPARATION:**

Steklis, H.D. and Gerald Steklis, C.N. Primate Behavior and Biology. Prentice Hall, Inc.

Steklis, H.D. and Gerald Steklis, N. Reframing Primate Conservation Education.

Lane, R.D. and Steklis, H.D. An Evolutionary Perspective on the Neural Basis of Emotional Awareness.

**PAPERS PRESENTED AT SCIENTIFIC MEETINGS OR SYMPOSIA  
AND INVITED LECTURES:**

Invited lecture on "Temporal lobe ablations and primate social behavior," January, 1974, Neuropsychology Laboratory, NIMH, Bethesda, Maryland.

Invited lecture on "Inferotemporal cortex and primate social behavior." October, 1974, New Jersey Society for Neuroscience.

Steklis, H. D. Evolution of Language. Presented at Conference on the Evolution of Language. Chairman: Dr. Thomas, Lock Haven, March, 1975.

Invited lecture. Steklis, H. D. and King, G. E. The Phylogenetic Basis for Hominid Predatory and Feeding Behavior. Presented at Animal Behavior Society Meetings, May 22-26, 1975, Wilmington, North Carolina.

Steklis, H. D. Placidity After Amygdalectomy: A Case of Unilateral Neglect? Presented at Eastern Psychiatric Research Association Meetings, October, 1975, New York City.

Invited lecture: "Evolution of the Brain and Language," November, 1975, Monmouth College Anthropology Society.

Steklis, H. D. Neuroscience and Biosocial Anthropology. Presented at Annual Meeting of the American Anthropological Association, 1976, Washington, D.C.

Invited lecture (with A. S. Kling), "Neural substrates for affiliative behavior in nonhuman primates." November, 1976, Psychiatry Faculty Symposia, Rutgers Medical School (UMDNJ).

Kling, A. S., Deutsch, S., and Steklis, H. D. Radio-telemetered Electrical Activity from Amygdala During Social Behavior in Monkey. Paper presented at 7th Annual Meeting of the Society for Neuroscience, November, 1977, Anaheim, California.

Marchant, L. and Steklis, H. D. Hand use and hand preference among captive island groups of chimpanzees. Presented at Annual Meeting of the American Society of Primatologists, September 6-9, 1978, Atlanta, Georgia.

Steklis, H. D. Animal brains and human behavior. Presented at Animal Behavior Society Regional Meeting, October 20-23, 1978, Monmouth College, New Jersey.

Marchant, L. and Steklis, H. D. Hand preference among a captive island group of chimpanzees. Presented at Annual Meeting of the American Anthropological Association, November, 1978, Los Angeles, California.

Steklis, H. D. Communication in Nonhuman Primates and the Development of Language. Invited paper for symposium on "Group Boundary Formation." May 24, 1979, Rutgers Medical School (UMDNJ).

Invited lecture: "Neural Correlates of Social Interest and Affiliation in Primates." October 19, 1979, William Patterson College of New Jersey. Colloquium Series in Biopsychology.

Steklis, H. D., Howard, S. M., Linn, G. S., Kling, A. S., and Tiger, L. Effects of Medroxyprogesterone Acetate (Depo-Provera) on Sexual Behavior of Semi-Free-Ranging and Laboratory Housed Stumptail Macaques (Macaca arctoides). Paper presented at East Coast Reproductive Behavior Society Meetings, Rockefeller University, New York, June, 1980.

Steklis, H. D., Linn, G. S., Howard, S. M., Harvey, N., Kling, A. S. and Tiger, L. Hormonal and Social Environmental Influences on Sexual Behavior in Stumptail Macaques (Macaca arctoides). Presented at International Primatological Society Satellite Symposium, Pisa, Italy, July, 1980.

Kling, A. S. and Steklis, H. D. Symposium Report on the Influence of Drugs and Hormones on Social Behavior in Primates. Presented at International Primatological Society Congress, Florence, Italy, July, 1980.

Steklis, H. D., Howard, S. M., Linn, G. S., Kling, A. and Tiger, L. Effects of medroxyprogesterone acetate (MPA) on sexual behavior of semi-free-ranging and laboratory-housed stumptail macaques. Presented at Eastern Psychological Association Meetings, New York, New York, April, 1981.

Steklis, H. D., Howard, S. M. and Linn, G. S. Effects of medroxyprogesterone acetate (Depo-Provera) on socio-sexual behavior of semi-free-ranging and laboratory-housed stumptail macaques (Macaca arctoides). Presented at American Society of Primatologists Meetings, San Antonio, Texas, June, 1981.

Steklis, H. D., Brammer, G. L., Raleigh, M. J., McGuire, M. T. Serum testosterone, male dominance, and aggression in captive groups of vervet monkeys (Cercopithecus sabaues). Presented at International Primatological Society Congress, Atlanta, Georgia, August, 1982.

Steklis, H. D. Hormones, dominance and aggression in primates. Invited lecture presented at Philadelphia Anthropological Society Meeting, Philadelphia, Pennsylvania, September, 1982.

Steklis, H. D., "Primate communication, comparative neurology, and the origin of language reexamined." Invited lecture presented at Symposium on Origins of Language, Phase II of the XIth ICAES, August 20-23, 1983, Vancouver, B.C., Canada.

Steklis, H. D. and Raleigh, M. J. The evolution of social bonds: the contribution of neural mechanisms. Presented at the 53rd Annual Meeting of the American Association of Physical Anthropologists, April, 1984, Philadelphia, Pennsylvania.

Steklis, H. D. and Raleigh, M. J. Biochemical and hormonal correlates of dominance in squirrel monkeys. Presented at 6th Annual Meeting, American Society of Primatologists, June 29 - July 3, 1984, Arcata, Ca.

Linn, G.S. and Steklis, H.D. The effects of medroxyprogesterone acetate (MPA) on agonistic and copulation-related behaviors in semi-free ranging stump-tail macaques (Macaca arctoides). Presented at 7th Ann. Mtg. American Society of Primatologists, June 1-4, 1985, Niagara Falls, N.Y.

Steklis, H.D. Group stability, testosterone, cortisol, and affiliative interactions in captive vervet monkeys. Invited symposium paper, presented at 8th Ann. Mtg. American Society of Primatologists, June 28-July 2, 1986, Austin, Texas.

Steklis, H.D. Sexual behavior during phases of the menstrual cycle in stump-tailed macaques. 9th Annual Mtg., American Society of Primatologists, June 1987, Madison, WI.

Steklis, H.D. Mechanisms and proximate causes of human behavior: an evolutionary perspective. Invited lecture. Graduate Program in Anthropology, CUNY, February 10, 1989.

Steklis, H.D. Sociobiology and unconscious social information processing. Rutgers University Ethology Seminar Series, Feb. 21, 1989.

Steklis, H.D. Social mediation of hormonal response in vervets and stump-tail macaques. Invited paper, II. Simposio de Primatologia, Estacion de Biologia-UNAM, Mexico, 29-31 March, 1989.

Steklis, H.D. Social modulation of hormone-behavior relationships in nonhuman primates. Invited paper, Chicago Regional Primatology Group, May 10, 1989.

Steklis, H. D. Free-will, biology and human behavior. Invited paper, American Anthropological Association symposium "Exploring the Interface of Mind, Culture and Neurobiology," (Lee S. Blonder, organizer), November 15-18, Washington, D.C., 1989.

Steklis, H. D. Chimpanzees in an unusual habitat - the Ishasha river region, eastern Zaire. American Society of Primatologists meeting, Davis, C.A., June 11-14, 1990.

Sept, J., Cachel, S. and Steklis, H. D. Chimpanzees as a guide to a better understanding of early hominid behavior. Invited paper, L.S.B. Leakey Foundation Symposium, "The Human Career: Our Biological and Cultural Origins" Rutgers University, New Brunswick, N.J., October 20, 1990.

Steklis, H.D. Problems in chimpanzee social ecology: The Ishasha River, Zaire, and beyond. Invited seminar, Dept. of Biological Anthropology and Anatomy, Duke University, Durham, N.C., January 15, 1991.

Steklis, H.D. The fate of the mountain gorilla in war-torn Rwanda: Current research efforts at the Karisoke Research Center. American Society of Primatologists Meeting, Seattle, July 27-31, 1994.

Steklis, H. D., Madry, S., and Gerald, C.N. The mountain gorilla: conserving an endangered primate in conditions of extreme political instability. International Primatological Society Meeting, Madison, WI, August 11-16, 1996

Gerald-Steklis, C.N. and Steklis, H.D. Mountain gorilla demography and conservation status. AZA Annual Conference, Albuquerque, NM, September 14-18, 1997.

Steklis, H.D. and Gerald-Steklis, C.N. Are mountain gorilla faces deadpan? Invited paper. Max-Planck Institute for Evolutionary Anthropology symposium "Mountain gorillas of Karisoke: Research synthesis and potentials" January 18-19, 1999, Leipzig, Germany.

Gerald-Steklis, C. N. and Steklis, H.D. Variation in reproductive success among female mountain gorillas. Invited paper. Max-Planck Institute for Evolutionary Anthropology symposium "Mountain gorillas of Karisoke: Research synthesis and potentials" January 18-19, 1999. Leipzig, Germany.

Gerald-Steklis, C.N. and Steklis, H.D. Reproductive benefits for female mountain gorillas in multi-male groups. American Society of Primatologists Meeting, August 7-12, 2001, Savannah, GA.

Bailey, N., Steklis, H.D., Mehlman, P., Stoinski, T.S., Ellis, C.M., and Wallis, J. Solutions to the African Bushmeat Crisis: The Bushmeat Crisis Task Force and Collaborative Action Planning. American Society of Primatologists annual meeting, June 1-4, 2002, Oklahoma City, OK.

Steklis, H.D. A brief history and current assessment of poaching activity in the Virunga region of Central-East Africa. American Society of Primatologists annual meeting, June 1-4, 2002, Oklahoma City, OK.

Steklis, H.D. Nature in nurture: The construction of the human environment and culture. Annual meeting of the Human Behavior and Evolution Society, June 19-23, 2002, New Brunswick, NJ.

Jacobson, A., Steklis, H.D., Steklis, N., LeClair, J. and Fawcett, K. Exploring the application of human facial fluctuating asymmetry methodology in a great ape. Annual meeting of the Human Behavior and Evolution Society, July 21-25, 2004, Berlin, Germany.

Muyisa, A., Steklis, H. D., Mehlman, P.T., and Lilly, A. The ecosystem health approach: gorillas, humans, and conservation. International Primatological Society Congress, August, 21-28, 2004, Torino, Italy.

Steklis, H.D., and Gerald-Steklis, N. Mountain gorilla vocalizations: functions, comparative aspects, and new research directions. International Primatological Society Congress, August, 21-28, 2004, Torino, Italy.

Steklis, H.D., Hodgkinson, C., Fawcett, K., Gerald-Steklis, N., Czekala, N., Lilly, A., and Mehlman, P.T. The impact of tourism on mountain gorillas. International Primatological Society Congress, August, 21-28, 2004, Torino, Italy.

Hodgkinson, C., Fawcett, K., Steklis, H.D., Gerald-Steklis, N., and Mehlman, P.T. Tourists' evaluations of mountain gorilla tourism in Volcanoes National Park, Rwanda. International Primatological Society Congress, August, 21-28, 2004, Torino, Italy.

Venturoli, C., Fawcett, K., Steklis, H.D., Gerald-Steklis, N., and Mehlman, P.T. Mountain gorilla female sexual behavior during pregnancy. International Primatological Society Congress, August, 21-28, 2004, Torino, Italy.

Steklis, H.D., Gerald Steklis, N., Madry, S., Faust, N. and Kayijamahe, E. A geomatics approach to mountain gorilla behavior and conservation. Invited keynote address at ESRI International User Conference, Conservation Keynote Session: GIS for Primate Conservation, San Diego, CA, July 25-29, 2005

Gerald Steklis, N and Steklis, H.D. Evaluating costs and benefits of long-term research for conservation of mountain gorillas. International Primatological Congress annual meeting, August, 2008, Edinburgh, Scotland.

Lane, R. and Steklis, H.D. From Mother Teresa to Fort Hood: Everything you always wanted to know about emotion but were afraid to ask. Invited lecture, Yale Club of Tucson, December 1, 2009, Tucson, Arizona



## **CONFERENCE AND SYMPOSIA ORGANIZATION:**

Co-organizer: Conference on "Origins and Evolution of Language and Speech," New York Academy of Sciences, New York, September 22-25, 1975.

Co-organizer and discussant: Symposium on "Evolution of Communication," Annual Meeting of the American Anthropological Association, 1976, Washington, D.C.

Co-organizer and chairperson: Symposium on "Empirical Studies of Inclusive Fitness," at Animal Behavior Society Regional Meeting, October 20-23, 1978, Monmouth College, New Jersey.

Co-organizer: Conference on "Sex Differences in Human Behavior: Recent Cross-Disciplinary Developments." Rutgers University, New Brunswick, New Jersey, April 1-2, 1978.

Co-organizer: Plenary Sessions, Animal Behavior Society Regional Meeting, October 20-23, 1978, Monmouth College, New Jersey.

Co-organizer: Symposium on "Influence of Hormones and Drugs on Social Behavior in Primates," 8th Congress of the International Primatological Society, July, 1980, Florence, Italy.

Co-organizer: Symposium on "In Honor of Sherwood Washburn," 53rd Annual Meeting of the American Association of Physical Anthropologists, April 12-14, 1984, Philadelphia, Pennsylvania.

Organizer: Symposium on "Biology of Primate Social Cognition", as part of XIth Congress of the International Primatological Society, 20-25 July, 1986, Göttingen, FR Germany.

Co-organizer: Symposium on "Temperament, Social Cognition, and the Evolution of Social Organization in Primates", XIVth Congress of the International Primatological Society, 16-21 August, 1992, Strasbourg, France.

Co-organizer: Workshop on the status of research on the behavior, anatomy, and ecology of the mountain gorilla. XVth Congress of the International Primatological Society, 11-16 August, 1996, Madison, Wisconsin.

Organizer: International Language Origins Society Meeting, September 5-9, 2000, Rutgers University, New Brunswick, NJ.

Co-organizer: Workshop on “Novel Approaches to Gorilla Conservation”, annual meeting of the American Society of Primatologists, June 1-4, 2002, Oklahoma City, OK.

Co-organizer: Symposium on “The role of Zoos in Gorilla Conservation”. Annual meeting of the Association of Zoos and Aquaria, Fort Worth, TX, September 2002.