

## **CURRICULUM VITAE**

C. Owen Lovejoy

**DATE OF BIRTH:** February 11, 1943

**PLACE OF BIRTH:** Paducah, Kentucky

**MAILING ADDRESS:** Dept. of Anthropology  
Kent State University  
Kent, Ohio 44242

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### **EDUCATION:**

Western Reserve University	B.A.	1965	Psychology
Case Institute of Technology	M.A.	1967	Biological Anthropology
University of Massachusetts	Ph.D.	1970	Biological Anthropology
Case Western. Reserve.	Certificate	1971-1972	Orthopaedic Biomechanics

**DISSERTATION:** Biomechanical methods for the analysis of skeletal variation with an application by comparison of the theoretical diaphyseal strength of platycnemic and euricnemic tibias.

### **PRESENT POSITIONS:**

Distinguished Professor of Human Evolutionary Studies  
Department of Anthropology  
Kent State University  
Kent, Ohio 44242

Technical Advisor in Biological Anthropology  
Medical Examiner's Office of Cuyahoga County  
11001 Cedar Avenue  
Cleveland, OH 44106-3043

Adjunct Professor of Orthopaedic Surgery  
Department of Orthopaedic Surgery  
University of Pittsburgh School of Medicine  
3471 Fifth Avenue, Pittsburgh, PA 15213

Research Associate  
The Cleveland Museum of Natural History  
1 Wade Oval  
Cleveland Ohio, 44106

#### **GENERAL PREPARED COURSES:**

Human Gross Anatomy  
Skeletal Biomechanics (statics and dynamics)  
Principles of Biological Anthropology  
Mammalian Musculoskeletal System  
Development and Evolution of the mammalian limb  
Plio/Pleistocene Hominid Morphology  
Human Osteology  
Forensic Anthropology  
Mammalian Palaeodemography  
Human Palaeontology  
Biology of *Ardipithecus*  
Human Origins

#### **AWARDS AND SPECIAL APPOINTMENTS:**

Elected Fellow, **American Academy of Arts and Sciences**, Class of 2014  
Election to **National Academy of Sciences**, Class of 2007  
Elected Fellow, **American Association for the Advancement of Science**, Class of 2001  
Elected Chair, Section 51 (Anthropology) **National Academy of Sciences** 2013-present  
Editorial Board, *Proceedings of the National Academy of Sciences*, 2009-present  
Editorial Board, *Anthropological Science*, 2003- present  
Editorial Board, *American Anthropologist* 1990-1993  
Distinguished Scholar Award, Kent State University, 2009  
Outstanding Mentoring Award, Graduate Student Senate, *Kent State University*, 2008  
Outstanding Achievement Award, General Science & Technology, *Northern Ohio Live* 1999  
**Governor=s Citation for Outstanding Contributions to Science, State of Ohio**, 1999  
**"ISI Most Highly Cited"**, Social Sciences, General category, *Institute for Scientific Information*,  
1999-present.  
Executive Committee, *Human Biology Council*, 1975-1976  
*Sigma Xi*, 1974-Present  
Burg Wartenstein, Wenner-Gren Foundation for Anthropological Research, 1979  
Board of Directors, Foundation for Research into the Origins of Man 1979-1985  
Board of Advisors, Institute for Human Origins, Berkeley, California 1987-1990  
Board of Advisors, Center for Research into the Anthropological Foundations of Technology;  
University of Indiana; 1990-present  
Academic Research Fellowships, *Kent State University Research Council*, 1975; 1983  
Outstanding Teacher in the Social Sciences, Student Advisory Council, 1972

## **FUNDED GRANTS:**

- Principal Investigator: "The histological preservation of archaeological bone", Kent State University Research Council, 1969-1970 \$5000
- Principal Investigator: "Kinematic models for the human knee"; National Institutes of Health, 1979 \$7,000
- Principal Investigator: "Multifactorial determination of skeletal age at death", National Science Foundation, 1977-1980 \$80,000
- Principal Investigator: "Anatomical, Biomechanical, and Morphometric Analysis of hominids of the Hadar Formation, Ethiopia", National Science Foundation, 1979-1982 \$65,000
- Principal Investigator: APostcranial Skeleton of *Ardipithecus ramidus*@ National Science Foundation, 1997-2001 \$115,000
- Principal Investigator: Doctoral Dissertation Research of Jon Kalmey: Collagen Fiber Orientation and Locomotor Loading in Primates. \$12,000. 2000-2001
- Principal Investigator: Doctoral Dissertation Research of Philip L. Reno: Elucidation of growth plate dynamics via immunohistochemistry of the mammalian metatarsal. \$12,000. 2003-2005
- Principal Investigator: Doctoral Dissertation Research of Burt A. Rosenman: Elucidation of hominid vertebropelvic evolution via observational and experimental analyses of murine embryogenetics and avian developmental biology. \$12,000. 2003-2005.
- Principal Investigator: Doctoral Dissertation Research of Maria A Serrat: Effects of temperature on growth plate physiology in an experimentally-induced mouse model of AAllen's Rule.@ \$12,000. 2005-2006.

**RESEARCH INTERESTS:** Human origins modeling, developmental biology of the vertebrate limb, bone/cartilage development and structure, orthopaedic biomechanics, human palaeontology, palaeodemography, sexual dimorphism in mammals, mammalian and human taxonomy, forensic medicine.

**PUBLICATIONS: h-index: 45 (ISI); 54 (google scholar)**

**Citations: 6,971 (ISI), 13,161 (google scholar).**

**Number of papers cited 100 times or more: 20 (ISI).**

**Research Gait: 14,452 "reads."**

- 156 Machnicki, A, Lovejoy, CO, and Reno, PL. 2016 Developmental biology versus typology: Lucy has only four sacral segments. *Am. J. Phys. Anthro.* **In press.** DOI:10.1002/ajpa.22997
- 155 Selby, Michael S., Simpson, SW., and Lovejoy, CO. 2016 The functional anatomy of the carpometacarpal complex in anthropoids and its implications for the evolution of the hominoid hand. *Anatomical Record*, **In press.** DOI 10.1002/ar.23333

- 154 Ruth, Aidan A, Raghanti MA, Meindl, RS, Lovejoy, CO. 2016 Locomotor pattern fails to predict foramen magnum angle in rodents, strepsirrhine primates, and marsupials. *J. Hum Evol.*, **94**: 45-52.
- 153 Haile-Selassie, Y., Latimer, B., & Lovejoy, C.O. & Mayer, M. 2016 Conclusions: Implications of KSD-VP-1/1 for early hominin paleobiology and insights into the Last Common Ancestor. In: *The Biology of Australopithecus afarensis: New Insights from KSD-VP-1/1*, Yohannes Haile-Selassie and Denise F. Su (Eds). Springer. New York. Pp:179-188.
- 152 Latimer, B., Lovejoy, C.O., & Haile-Selassie Y. 2016 The Thoracic Cage of KSD-VP-1/1. In: *The Biology of Australopithecus afarensis: New Insights from KSD-VP-1/1*, Yohannes Haile-Selassie and Denise F. Su (Eds). Springer. New York. Pp:143-154
- 151 Lovejoy, C.O., Latimer, B. Spurlock, L., & Haile-Selassie, Y. 2016 The Pelvic Girdle and Limb Bones of KSD-VP-1/1. In: *The Biology of Australopithecus afarensis: New Insights from KSD-VP-1/1*, Yohannes Haile-Selassie and Denise F. Su (Eds). Springer. New York. Pp:155-178.
- 150 Ingham, SJM, Teixeira de Carvalho, R, Martins CAQ, Lertwanich, P, Abdalla, RJ, Smolinski, P, Lovejoy, CO, Fu, FH. 2015 Anterolateral ligament anatomy: a comparative anatomical study. *Knee Surg Sports Traumatol Arthrosc.* DOI 10.1007/s00167-015-3956-2
- 149 Reno PL and Lovejoy CO 2015 From Lucy to Kadanuumuu: balanced analyses of *Australopithecus afarensis* assemblages confirm only moderate skeletal dimorphism. *PeerJ* 3:e925; DOI 10.7717/peerj.925
- 148 White, T.D., Lovejoy, C.O., Asfaw, B., Carlson, J., & Suwa, G. 2015 Neither chimpanzee nor human: *Ardipithecus* reveals the surprising ancestry of both. [Future of the Fossil Record Special Feature] *Proc. Natl. Acad. Sci. USA.*; 112 (16) 4877–4884.
- 147 Morimoto, N., Suwa, G., Nishimura, T., Ponce de Leon, M.S., Zollikofer, C.P.E., Lovejoy, C.O. & Nakatsukasa, M. 2015 Let bone and muscle talk together: a study of real and virtual dissection and its implications for femoral musculoskeletal structure of chimpanzees. *J. Anat.*, **226** (3): 258–267.
- 146 Sayers, K. & Lovejoy, C.O. 2014 Blood, Bulbs, and bunodonts: On evolutionary ecology and the diets of *Ardipithecus*, *Australopithecus*, and early *Homo*. *Quart. Rev. Biol.* **89** (4): 319-357.
- 145 White, T.D., Lovejoy, C.O., & Suwa, G. 2014 Comment on Thorpe, et al.: Ignoring *Ardipithecus* in an origins scenario for bipedality is ... lame, *Antiquity*, Issue **341**: 919-920.
- 144 Kjosness, Kelsey M., Jasmine E. Hines, C. Owen Lovejoy, and Philip L. Reno 2014 The

pisiform growth plate is lost in humans and supports a role for *Hox* in growth plate formation. *Journal of Anatomy* **225**: 527-538.

- 143 Lovejoy, C.O. 2014 *Ardipithecus* and early human evolution in light of Twenty-First-Century developmental biology. *Journal of Anthropological Research* **70**: 337-363.
- 142 Reno PL, Horton WE, Lovejoy, CO 2013 Metapodial or Phalanx? An Evolutionary and Developmental Perspective on the Homology of the First Ray's Proximal Segment. *J. Experimental Zool. Part B: Mol. Dev. Evol.* **320B**: 276-285.
- 141 Suwa G, Lovejoy C O, Asfaw, B, White, TD 2012 Proximal femoral musculoskeletal morphology of chimpanzees and its evolutionary significance: A critique of Morimoto et al. (2011) *Anat. Rec.*: **295**: 2039-2044.
- 140 Sayers K, Raghanti MA, Lovejoy CO 2012 Human evolution and the chimpanzee referential doctrine. *Ann. Rev. Anthro.* **41**: 119-138.
- 139 Reno, PL, McCollum, MA, Meindl, RS, Lovejoy, CO 2010 An enlarged postcranial sample confirms *Australopithecus afarensis* dimorphism was similar to modern humans. *Phil. Trans. R. Soc. B* **365**: 3289-3299.
- 138 Lovejoy, CO & McCollum, MA 2010 Why hominids have never relied on a Bent-Hip-Bent-Knee gait. *Phil. Trans. R. Soc. B* **365**: 3355-3363.
- 137 Haile-Selassie, Y, Latimer, BM, Alene, M, Deino, AL, Gibert, L, Melillo, SM, Saylor, BZ, Scott, GR, Lovejoy CO. 2010 An early *Australopithecus afarensis* postcranium from Woranso-Mille, Ethiopia. *Proc. Nat. Acad. Sci. USA*, **107**: 12121-12126.
- 136 White, TW, Suwa, G, Lovejoy, CO. 2010 Response to Comment on the Paleobiology and Classification of *Ardipithecus ramidus*. *Science* **328**: 1105.
- 135 Gleick, P, *et al.* 2010 Climate Change and the Integrity of Science. *Science* **328** 689-690.
- 134 McCollum, M, Rosenman, BA, Suwa, G, Meindl, RS, Lovejoy, CO. 2010 The vertebral Formula of the Last Common Ancestor of African Apes and Humans." *J. Exp. Zool. B; Mol. Dev. Evol.*, **314B**: 123-134.
- 133 Lovejoy, CO; Suwa, G; White, TW. 2010 Studying Extant Species to Model Our Past: Response. *Science* **327**: 410-411.
- 132 Lovejoy CO. 2009. Reexamining human origins in light of *Ardipithecus ramidus*. *Science* **326**:74e1-74e8.

- 131 Lovejoy CO, Latimer B, Suwa G, Asfaw B, and White TD. 2009. Combining prehension and propulsion: the foot of *Ardipithecus ramidus*. *Science* **326**:72e1-72e8.
- 130 Lovejoy CO, Simpson SW, White TD, Asfaw B, and Suwa G. 2009. Careful climbing in the Miocene: the forelimbs of *Ardipithecus ramidus* and humans are primitive. *Science* **326**:70e1-70e8.
- 129 Lovejoy CO, Suwa G, Simpson SW, Matternes JH, and White TD. 2009. The great divides: *Ardipithecus ramidus* reveals the postcrania of our last common ancestors with African apes. *Science* **326**:100-106.
- 128 Lovejoy CO, Suwa G, Spurlock L, Asfaw B, and White TD. 2009. The pelvis and femur of *Ardipithecus ramidus*: the emergence of upright walking. *Science* **326**:71e1-71e6.
- 127 McCollum MA, Rosenman BA, Suwa G, Meindl RS, and Lovejoy CO. 2010. The vertebral formula of the last common ancestor of African apes and humans. *J Exp Zool B Mol Dev Evol*, **314B**: 123-134.
- 126 Suwa G, Asfaw B, Kono RT, Kubo D, Lovejoy CO, and White TD. 2009. The *Ardipithecus ramidus* skull and its implications for hominid origins. *Science* **326**:68e1-68e7.
- 125 Suwa G, Kono RT, Simpson SW, Asfaw B, Lovejoy CO, and White TD. 2009. Paleobiological implications of the *Ardipithecus ramidus* dentition. *Science* **326**:94-99.
- 124 White TD, Asfaw B, Beyene Y, Haile-Selassie Y, Lovejoy CO, Suwa G, and WoldeGabriel G. 2009. *Ardipithecus ramidus* and the paleobiology of early hominids. *Science* **326**:75-86.
- 123 Meindl, R. S., Lovejoy, C. O., Mensforth, R. P. 2008. Skeletal age at death: accuracy of determination and implications for human demography. In: Brennan, E. R. (Ed.) *Mortality patterns in Anthropological populations*. Wayne State University Press., Detroit, Mi.
- 122 Serrat, M.A., King, D. and Lovejoy, C.O. 2008 Temperature regulates limb length in homeotherms by directly modulating cartilage growth. *Proc. Nat. Acad. Sci.*, **105**: 19348-19353.
- 121 Walker, R.A., Lovejoy, C.O. and Cordes, R. 2008 Histomorphological variation in the appendicular skeleton. *Open Anthro. Jour.*, **2**: 1-35.
- 120 Meindl, R.S., Mensforth, R.P., and Lovejoy, C.O. 2009 Comentarios sobre los principales errores del trabajo paleodemográfico: El cálculo de la mortalidad promedio, la estructura por edad y la tasa de crecimiento annual. Un ejemplo del Ohio prehistórico, en

Estados Unidos. In: P. Hernández, L. Márquez, and E. Gonzáles Licón (eds.) *Tendencias Actuales de la Bioarqueología en México*. Cuerpo Académico, México, pp. 15-36.

- 119 Cray Jr., James, Meindl, R.S., Sherwood, C.C. and Lovejoy, C.O. 2008 Ectocranial suture closure in *Pan troglodytes* and *Gorilla gorilla*: Pattern and phylogeny. *Am. J. Phys. Anthro*, **136**: 394-399.
- 118 Lovejoy, C.O. 2008 Comment: An early ape shows its hand. *Proc. R. Soc. B*, **274**: 2373-2374.
- 117 Sayers, K., and Lovejoy, C.O. 2008 The chimpanzee has no clothes: A critical examination of *Pan troglodytes* in models of human evolution. *Current Anthropology*, **49**: 87-114.
- 116 Serrat, M.A., Lovejoy, C.O., and King, D. 2007 Age and site specific decline in IGF-I receptor expression and growth plate activity in the mouse hindlimb. *Anat. Rec.* **290**: 375-381.
- 115 Meindl, R.S., Mensforth, R.P. and Lovejoy, C.O. 2008 Method and theory in palaeodemography, with an application to a hunting, fishing, and gathering village from the Late Eastern Woodlands of North America. In: *Biological Anthropology of the Human Skeleton, 2nd Ed.* Katzenberg, M.A. and Saunders, S.R, Eds. (Wiley-Liss, Hobokon, New Jersey), pp. 601-617.
- 114 Reno, P.L., M.A. McCollum, M.J. Cohn., R.S. Meindl, M. Hamrick, and Lovejoy, C.O. 2008 Patterns of correlation and covariation of anthropoid distal forelimb segments correspond to *Hoxd* expression territories. *J. Exp. Zool. B (Mol Dev Evol)*. **310B**: 240-258.
- 113 Reno, P.L., Horton, Jr., W.E., Elsey, R.M. and Lovejoy, C.O. 2007 Growth plate formation and development in alligator and mouse metapodials: evolutionary and functional implications *J. Exper. Zool., Part B: Mol. Develop. Evol.* **308B**: 283-296.
- 112 Serrat, M.A., Reno, P.L., McCollum, M.A., Meindl, R.S., Lovejoy, C.O. 2007 Variation in mammalian proximal femoral development: comparative analysis of two distinct ossification patterns. *J. Anat*, **210**: 249-258.
- 111 Meindl, R.S., Mensforth, R. P., and Lovejoy, C.O. 2008. The Libben Site: a Hunting, Fishing, and Gathering Village from the Eastern Late Woodlands of North America: Analysis and Implications for Palaeodemography and Human Origins. In Bocquet-Appel, J., Ed: *Recent Advances in Palaeodemography: Data, Techniques Patterns*. Springer-Verlag, Paris. Pp. 259-275.
- 110 Lovejoy, C.O. 2007 Evolution of the human lumbopelvic region and its relationship to

- some clinical deficits of the spine and pelvis. In: Vleeming, Mooney, V., and A. Stoockhart (Eds). *Movement, Stability and Lumbopelvic Pain: Integration of Research and Therapy 2<sup>nd</sup> Edition*. Elsevier, Edinburgh. pp.141-158.
- 109 White, T.D., WoldeGabriel G., Asfaw, B., Ambrose, S., Beyene, Y, Bernor, R.L., Boissarie, J, Currie, B., Gilbert, H., Haile-Selassie, Y., Hart, W.K., Hlusko, L.J., Howell, F.C. Kono, R.T., Lehmann, T., Louchart, A. Lovejoy, C.O., Renne, P.R., Saegusa, H., Vrba, E.S. Wesselman, H., Suwa, G. 2006. Asa Issie, Aramis, and the origin of *Australopithecus*. *Nature*. **440**: 883-889.
- 108 Lovejoy, C.O. 2007 The natural history of human gait and posture: Part 3: The knee. *Gait and Posture*, **25**: 325-341.
- 107 McCollum, M.A., Sherwood, C.C., Vineyard, CJ, Lovejoy, C.O., Schachat, F. 2006 Of muscle-bound crania and human brain evolution: The story behind the MYH16 headlines. *J. Hum. Evol.* **50**: 232-236.
- 106 Reno, P.L., McBurney, D.L., Lovejoy, C.O., Horton Jr., W.E. 2006 Ossification of the mouse metatarsal: Differentiation and proliferation in the presence/absence of a defined growth plate. *Anat. Rec., Part A*: **288A**: 104-118.
- 105 Reno, P.L., DeGusta, D, Serrat, M.A., Meindl, R.S., White, T.D., Eckhardt, R.B., Kuperavage, A.J., Galik, K, and Lovejoy, C.O. 2005 Plio-Pleistocene hominid limb proportions: Evolutionary reversals or estimation errors? *Current Anthro.* **46**:575-588.
- 104 Reno, P.L., McCollum, M.A., Meindl, R.M., and Lovejoy, C.O. 2005 The case is unchanged and remains robust: *Australopithecus afarensis* exhibits only moderate skeletal dimorphism. A reply to Plavcan et al., (2005). *J. Hum. Evol.*, **49**: 279-288
- 103 Howell F.C., White TD, Begun DR, Chaimanee Y, de Lumley MA, Gingerich PD, Groves C, Gulec E, Haile-Selassie Y, Hlusko L, Jaeger JJ, Kelley L, Kohler M, Liu W, Lordkipanidze D, Lovejoy CO, Martin LB, McCrossin ML, Moggi-Cecchi J, Moya-Sola S, Rook L, Smith P, Suwa G, Teaford M, Tobias PV, Walker A, Walker P, Ward S 2004 Geological issues in the Djourab. *S. Afr. J. Sci.*, **100**: 446.
- 102 Ohman JC, Lovejoy CO, White TD. 2005 Questions about Orrorin femur. *Science*, **307**: 845.
- 101 Lovejoy, C.O. 2005 The natural history of human gait and posture: Part 2: Hip and thigh. *Gait and Posture*, **21**: 113-124. Also available as: Lovejoy, C.O. 2005 Histoire naturelle de la marche et de la posture chez l'Homme: Partie 2. Hanche et cuisse. *EMC-Kinésithérapie*, **1**: 113-128.



- 100 Lovejoy, C.O. 2005 The natural history of human gait and posture: Part 1: Spine and pelvis. *Gait and Posture*, **21**: 95-112. Also available as: Lovejoy, C.O. 2005 Histoire naturelle de la marche et de la posture humaine : colonne vertébrale et pelvis. *EMC-Kinésithérapie*, **1**: 129-151.
- 99 Lovejoy, C.O., McCollum, M.A., Reno, P., and Rosenman, B. 2003 Developmental biology and human evolution. *Ann. Rev. Anthropol.*, **32**: 85-109.
- 98 Reno, P.L., R.S. Meindl, M.A. McCollum, and C.O. Lovejoy 2003 Sexual dimorphism in *Australopithecus afarensis* was similar to that of modern humans. *Proc. Nat. Acad. Sci.* **100**: 9404-9409.
- 97 Cohn, Martin J., Lovejoy, C.O., Wolpert, Lewis, and M.I. Coates. 2002 Branching, segmentation and the metapterygial axis: pattern versus process in the vertebrate limb. *Bioessays*, **24**: 460-465.
96. Rosenman, B., C.O. Lovejoy, and M.A. McCollum. 2002 Development of the vertebral column. In: *Human Skeletal Anatomy for Students of Chiropractic and Other Clinical Professions*, by R.Walker, C.O. Lovejoy, , M.E. Bedford, and W. C. Yee. F.A. Davis, Philadelphia, pp 53-80.
95. Lovejoy, C.O., T.D. White, J.C. Ohman, R.S. Meindl, K.G. Heiple. 2002. The Maka femur and its bearing on the antiquity of human walking: Applying contemporary concepts of morphogenesis to the human fossil record. *Am .J. Phys. Anthro.* **119**: 97-133.
94. Kalmey, Jon, and C.O. Lovejoy. 2002. Collagen fiber orientation in the femoral necks of chimpanzees and humans: Do their histological structures reflect differences in locomotor loading? *Bone* **31**: 327-332
93. Hamrick, M.W., McPherron, A.C., and Lovejoy, C.O. 2002 Bone mineral content and density in the humerus of adult myostatin-deficient mice. *Calcif. Tissue Int.* **71**: 63-68.
92. Lovejoy, C.O., Heiple K.G., Meindl, R.S. 2001 Did our ancestors knuckle-walk? *Nature*, **410**: 325-6.
91. Lovejoy, C.O. 2001 Hominid brain expansion and reproductive success. *Behavioral and Brain Sci.* **24**:290.
90. Lovejoy, C.O., Martin J. Cohn, and Tim D. White. N.D. 2001 The evolution of mammalian morphology: A developmental perspective. In: *Development, Growth and Evolution*, edited by M.J. Cohn and P. O'Higgins. Academic Press, pp. 41-55.

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88. Reno, P, M.A. McCollum, C.O. Lovejoy and R.S. Meindl. 2000 Adaptationism and the anthropoid postcranium: Selection does not govern the length of the radial neck. *J. Morphology* **246**:59-67
87. Asfaw, B.T., T.D. White, C.O. Lovejoy, B. Latimer, S. Simpson, and G. Suwa. 1999 *Australopithecus garhi*: A new species of early hominid from Ethiopia. *Science* **284**: 629-635.
86. Asfaw, B.T., T.D. White, C.O. Lovejoy, B. Latimer, S. Simpson, and G. Suwa. 1999 Cladistics and early hominid phylogeny: Response to Strait and Grine. *Science* **285**: 1209-1210.
85. Lovejoy, C.O., Martin J. Cohn, and Tim D. White. 1999 Morphological analysis of the mammalian postcranium: A developmental perspective. *Proc. Nat. Acad. Sci.* **96**: 13247-13252.
84. Lovejoy, C.O., R.S. Meindl, R.G. Tague and B. Latimer. 1997 The Comparative Senescent Biology of the Human Pelvis and its Implications for the Use of Age-at-death Indicators in the Human Skeleton. In: *Integrating Anthropological Demography: Multidisciplinary Approaches to Prehistoric Population*, R. Paine, ed. Center for Archaeological Investigation at Southern Illinois Univ: Carbondale, IL. pp. 43-63.
83. Tague, R.G., and C.O. Lovejoy 1998 AL288-1: Lucy or Lucifer: Gender confusion in the Pliocene. *J. Hum. Evol.* **35**: 75-94.
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81. Lovejoy, C.O. and B. Latimer. 1997 Evolutionary aspects of the human lumbosacral spine and their bearing on the function of the intervertebral and sacroiliac joints. In: *Movement, the Pelvis, and Low Back Pain*, edited by A. Vleeming, V. Mooney, T. Dorman, and C. Snijders. Churchill-Livingston, pp. 213-225.
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78. Walker, Robert A., C. Owen Lovejoy, and Richard S. Meindl. 1994 The histomorphological and geometric properties of human femoral cortex in individuals over 50: Implications for determination of age-at-death. *Am. J. Hum. Biol.* **6**: 659-667.
77. Lovejoy, C.O. 1993 Are we sexy because we're smart, or are we smart because we're sexy. In: D.T. Rasmussen, Editor: *The Origin of Humans and Humanness*, Bartlett and Jones, pp. 1-28.
76. Lovejoy, C. Owen 1993 Einmal vollkommen frei sein: Muss mandazu lowe werden? *P.M. Magazin* **15**: 6-12.
75. Bedford, Elizabeth M., Katherine F. Russell, C. Owen Lovejoy, Richard S. Meindl, Scott W. Simpson, and Patti Stuart-Macadam. 1993 Test of the multifactorial aging method using skeletons with known age-at-death from the Grant Collection. *Am. J. Phys. Anthro.* **91**: 287-297.
74. Russell, Katherine F., Scott W. Simpson, Jeremy Genovese, Mary D. Kinkel, Richard S. Meindl, and C. Owen 74. Lovejoy. 1993 An independent test of the fourth rib aging technique. *Am. J. Phys. Anthro.* **92**: 53-62.
73. Lovejoy, C. Owen, Kevin F. Kern, Scott W. Simpson, and Richard S. Meindl. 1992 A new method for the estimation of skeletal dimorphism in fossil samples with an application to *Australopithecus afarensis*. In: *Hominidae: Proceed. 2nd. Inter. Cong. Hum. Palaeon., Turin, Italy*, pp. 103-108.
72. Lovejoy, C. Owen. 1992 Die wurzeln des menschen in der nature. *P.M. Magazin* **14**: 52-60.
71. Simpson, S.W., C. Owen Lovejoy, and Richard S. Meindl. 1992 Further evidence on relative dental maturation and somatic developmental rate in hominoids. *Am. J. Phys. Anthro.* **87**: 29-38.
70. Simpson, Scott W., C. Owen Lovejoy, and Richard S. Meindl. 1991 Relative dental development in hominoids and its failure to predict somatic growth velocity. *Am. J. Phys. Anthro.* **86**: 113-120.
69. Lovejoy, C. Owen. 1991 Vermischung der passen: was hat das fur folgen? *P.M. Magazin* **13**: 18-26.
68. Latimer, Bruce M., and C. Owen Lovejoy. 1990 The hallucial tarso-metatarsal joint in *Australopithecus afarensis*. *Am. J. Phys. Anthro.* **82**: 125-133.
67. Lovejoy, C. Owen. 1990 Geht die evolution des Menschen immer weiter--oder kommt sie zum stillstand? *P.M. Magazin* **12**: 6-14.

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The pea-shaped human pisiform results from the evolutionary loss of a growth plate  
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A new method for estimation of skeletal dimorphism in fossil samples with an application to *Australopithecus afarensis*. Am Anthro Assoc, Phoenix, Arizona, (with S.W. Simpson, K. F. Kern, and R. S. Meindl), Nov. 18, 1988.

Sexual dimorphism in *Australopithecus afarensis*. Second International Congress of Human Paleontology, Nice, France, Oct. 2, 1987 (*in absentia*, read by T.D. White; with S.W. Simpson, K. Kern, and R.S. Meindl)

Morphological correlates of differential knee joint reaction forces in primates (with M. E. Bedford). *Am. J. Phys. Anthro.*, **66**: 143, Feb, 1985 (Abstract).

Accuracy and error in the sexing of the skeleton; implications for paleodemography (with R. S. Meindl). *Am. J. Phys. Anthro.*, **66**: 205, Feb., 1985 (Abstract).

Cephalopelvic compatibility in AL288: Implications for the birth process and evolution of the human pelvis (with R. G. Tague) Am. Anthro Assoc, Wash, D.C., Dec., 1985.

Identification by facial reconstruction. Annual Meeting of the Ohio State Coroner's Association, Ashtabula, Ohio, Apr. 27, 1984.

The radiographic preauricular groove; its nonrelationship to pregnancy (with D. B. Spring and G. N. Bender) 53rd Annual Meeting, Ame. Assoc. of Phys. Anthro., Phila. Pa, Apr. 12, 1984.

Morphology of the human foot and the analysis and interpretation of bare foot impression evidence. Fed. Bur. of Invest., Quantico, Virginia, Apr. 30, 1984.

The locomotor anatomy of *Australopithecus afarensis*. Symposium on the Locomotor Anatomy of *Australopithecus afarensis*. Institute for Human Origins, Berkeley, California, Apr. 22, 1983.

- Estimation of adult age at death based on the lateral-anterior sutures: methods and limits of inference in palaeodemography. 52nd Annual Meeting, Am. Assoc. Phys. Anthro., Indianapolis, Indiana, Apr. 7, 1983.
- Anatomical Correlates of the evolution of bipedal locomotion. Annual Meeting, Society for Behavioral Kinesiology, Cleveland, Ohio, Oct. 9, 1982.
- An analysis of locomotion in early hominids. Vice President's Symposium, Annual Meeting, Amer. Assoc. of Anatomists, Indianapolis, Indiana, Apr. 7, 1982.
- Biomechanics of the Homo erectus postcranial skeleton with special reference to the diaphyseal bending and torsional strengths of Tautavel Man. Premier Congres International de Paleontologie Humaine, Nice, France, Oct. 18, 1982.
- Primate Reproductive Strategies and the Origin of Man. American Association for the Advancement of Science, Toronto, Canada, Jan. 3, 1981.
- Determination of sex from supraorbital ridges on skull radiographs (with Benjamin Kaufman). Amer. Acad. For. Sci., Colorado Springs, Colorado, Feb. 19, 1981.
- Multifactorial determination of skeletal age at death: Accuracy of determination and implications for human demography (with Richard S. Meindl and Robert P. Mensforth). 50th Annual Meeting, Am. Assoc. Phys. Anthro., Detroit, Michigan, Apr. 14, 1981.
- Biomechanics and biological anthropology: A fruitful association. Keynote Address, Fifth Annual meeting, Amer. Assoc. of Biomech., Cleveland, Ohio, October 18, 1981.
- Skeletal biology: The last five decades (with George J. Armelagos). 50th Annual Meeting, Am. Assoc. Phys. Anthro., Detroit, Michigan, Apr. 15, 1981.
- Skeletal correlates of the aging process: confirmation of multifactorial age determination in the Libben skeletal population (with Richard S. Meindl and Robert P. Mensforth.) 20th Annual Meeting, Northeast. Anthro. Assoc., Amherst, Massachusetts, March 27, 1980.
- A multifactorial approach to the assessment of adult skeletal age in an archaeological population (with Richard S. Meindl and Robert P. Mensforth). 29th Annual Meeting, Northeast. Anthro. Assoc., Amherst, Massachusetts, March 27, 1980.
- Hominid origins: The role of bipedality. 49th Annual Meeting, Am. Assoc. Phys. Anthro., Niagara Falls, New York, Apr. 14, 1980.
- Anatomical, pathophysiological, and demographic correlates of the aging process: a confirmation of multifactorial age determination in the Libben skeletal population (with



Robert P. Mensforth). 49th Annual Meeting, Am. Assoc. Anthro., Niagara Falls, New York, Apr. 19, 1980.

Multifactorial determination of skeletal age at death: A double blind test on a population of known age (with Richard S.Meindl and Robert P. Mensforth). 49th Annual Meeting, Am. Assoc. Phys. Anthro., Niagara Falls, New York, Apr. 19, 1980.

Skeletal age at death: Accuracy of determination and implications for human demography (with Richard S.Meindl and Robert P. Mensforth): 79th Annual Meeting, Amer. Anthro. Assoc., Washington, D.C., Dec.5, 1980.

A reconstruction of the pelvis of AL-288, Hadar Formation, Ethiopia. 48th Annual Meeting, Am. Assoc. Phys. Anthro., San Francisco, California, Apr. 15, 1979.

Long bone growth velocity in a Late Woodland skeletal population (with Mary L. Harrison). 48th Annual Meeting, Am. Assoc. Phys. Anthro., San Francisco, California, Apr. 16, 1979.

Evidence for intelligent life in the universe from a perspective of human evolution. National Aeronautics and Space Administration, Moffett Field, California, June 21, 1979.

The origin of man: A demographic perspective. 78th Annual Meeting, Ame. Anthro. Assoc., Cincinnati, Ohio, Nov. 23, 1979.

The kinematics of the human knee. Annual Scientific Meeting of the Ohio Academy of Orthopaedic Surgeons, Akron, Ohio, February 10, 1978.

Femoral cortical involution in a Late Woodland skeletal population (with Robert P. Mensforth). 47th Annual Meeting, Am. Assoc. Phys. Anthro., Toronto, Ontario, Apr. 14, 1978.

The bioethnographic approach to human skeletal analysis with an illustration from a large Late Woodland ossuary from Northern Ohio. 2nd Annual Meeting, Human Biology Council, Seattle, Washington, Apr. 12, 1977.

Functional implications of the Afar knee joint (with Donald C. Johanson, Albert H. Burstein, and Kingsbury G. Heiple). 45th Annual Meeting, Am. Assoc. Phys. Anthro., St. Louis, Missouri, Apr. 15, 1976.

Biomechanical anatomy of the cranio-mandibular musculature of the Rhesus macaque (with Bruce P. Ferrini). 43rd Annual Meeting, Am. Assoc. Phys. Anthro., Amherst, Massachusetts, Apr. 12, 1974.

Wolff's Law and the biomechanical significance of platycnemia. 42nd Annual Meeting, Am. Assoc. Phys. Anthro., Dallas, Texas, Apr. 13, 1973.

Biomechanical perspectives on the lower limb of early hominids. IXth Inter. Cong. of Anthrop. and Ethnol. Sci., Chicago, Illinois, September 6, 1973.

The biomechanics of stride and their bearing on the gait of Australopithecus. 41st Annual Meeting, Am. Assoc. Phys. Anthro., Lawrence, Kansas, Apr. 12, 1972.

Femoral anatomy of Australopithecus africanus and robustus. (with Kingsbury G. Heiple), 40th Annual Meeting, Am. Assoc. Phys. Anthro., Boston, Massachusetts, Apr. 15, 1971.

#### **REVIEWS:**

Lovejoy, C. Owen. 1973 *Human Osteology: A Laboratory and Field Manual of the Human Skeleton*, by William M. Bass. *Am. J. Phys. Anthro.* **39**: 324-325.

Lovejoy, C. Owen. 1974 *Primate Locomotion*, Farish A. Jenkins, Ed. *Science* **184**: 679-681

Lovejoy, C. Owen. 1974 *New Perspectives on Ape and Human Evolution*, by Adriaan Kortlandt. *Cur. Anthro.* **15**: 434-435.

Lovejoy, C. Owen. 1974 *Early Hominid Posture and Locomotion*, by John T. Robinson. *Amer. Anthro.* **76**: 678-680.

Lovejoy, C. Owen. 1975 *Human Evolution*, Michael H. Day, Ed. *Hum. Biol.* **47**: 377-379.

Lovejoy, C. Owen. 1982 *Omnivorous Primates: Gathering and Hunting in Human Evolution*, Robert S. O. Harding and Geza Teleki, Eds., and *Woman the Gatherer*, Francis Dahlberg, Ed. *Nature* **296**: 471-472.

Lovejoy, C. Owen. 1982 *Quest for Fire*, Jean-Jacques Annaud, Dir. *Archaeol.*, July/Aug: 78-79.

Lovejoy, C. Owen. 1986 *Hominid Evolution: Past, Present and Future*, Phillip V. Tobias, Ed., and *Ancestors: The Hard Evidence*, Eric Delson, Ed. *Science* **232**: 1026.

#### **SELECTED PUBLIC LECTURES** (regular chronological order):

The gait of early man. Northern Illinois Symposium on Australopithecines and their Relation to Human Evolution, Northern Illinois University, Chicago, Illinois, Apr. 12, 1976.

The evidence for bipedality in Plio-Pleistocene hominids. Foundation for Research into the Origins of Man National Lecture Series, Davis, California, March 5, 1977.

The role of brain size in the evolution of human bipedality. Foundation for Research into the Origins of Man National Lecture Series, New School for Social Research, New York, March 7, 1978.

New perspectives on human evolution. Keynote Address, Gordon Research Conference on Bones and Teeth, Meridian, New Hampshire, July 12, 1979.

The natural history of man with some anatomic and pathophysiological correlates. Grand Rounds, Medical College of Wisconsin, Milwaukee, Wisconsin, Nov. 5, 1979.

Models of human origins. Foundation for Research into the Origins of Man National Lecture Series, Natural Science Museum of Minnesota, Minneapolis, Minnesota, May 5, 1979.

The origins of man: A demographic perspective. Foundation for Research into the Origins of Man National Lecture Series, Johns Hopkins University, Feb. 12, 1980.

New perspectives on human origins. University of New Hampshire Arts and Sciences Lecture Series, Durham, New Hampshire, Apr. 20, 1980.

A new view of human origins. Buffalo Zoological Society Public Lecture Series, Buffalo, New York, Apr. 21, 1980.

The evolution of the human foot, Grand Rounds, Cleveland Institute of Podiatric Medicine, Cleveland, Ohio, March 14, 1981.

The origin of man. Twenty-eighth Annual Robert J. Terry Lecture, School of Medicine, Washington University, St. Louis, Missouri, Apr. 9, 1981.

New evidence on the origin of man. Annual Sigma Xi Lecture, University of Cincinnati, Cincinnati, Ohio Apr. 28, 1981.

Rethinking human origins. Chicago Academy of Sciences, Chicago, Illinois, Sept. 22, 1981.

Man's place in Nature: 1981. University Lecture, University of Arkansas, Fayetteville, Arkansas, Oct. 21, 1981.

Bipedality: The Hallmark of Mankind. L.S.B. Leakey Foundation Annual Distinguished Lecture Series, California Institute of Technology, Pasadena, California, Nov. 14, 1981.

The anatomical correlates of upright walking. Grand Rounds, Mount Sinai Hospital, Cleveland, Ohio, Jan. 13, 1982.

Man's place in nature: the view in 1982. Ford Motor Corporation Research Laboratories, Detroit, Michigan, May 7, 1982.

Lucy: providing a new view of human evolution. General Motors Research Laboratories, Detroit, Michigan, June, 1982.

New perspectives on human evolution. Union Carbide Corporation Annual Sigma Xi Meeting, Bound Brook, New Jersey, July 16, 1982.

The origin of man: mind or mating? Fermi National Accelerator Laboratory, Batavia, Illinois, Sept. 16, 1982.

The origin of man. University of Illinois Forum: The Evolution of our World, Champagne, Illinois, Nov. 7, 1982.

Bipedality: the hallmark of mankind. L.S.B. Leakey Memorial Lecture, California Institute of Technology, Pasadena, California, Dec. 12, 1982.

New perspectives on human evolution. Annual Lecture Series, Cleveland Museum of Natural History, Cleveland, Ohio, June 14, 1983.

Bipedality: the hallmark of mankind. L.S.B. Leakey Distinguished Lecture Series, California Academy of Sciences, San Francisco, California, May 7, 1983.

Man's Place in Nature: 1983. Cleveland Museum of Natural History National Lecture Series, Cleveland, Ohio, June 3, 1983.

New Perspectives on the Origin of Man. Argonne National Accelerator Laboratory, Chicago, Illinois, Nov., 1983.

New Perspectives on the Origin of Man. Ohio Historical Society Artists-Lecture Series. Ohio Historical Center, Columbus, Ohio, Feb. 21, 1984.

Mating Strategy and the Origin of Man. L.S.B. Leakey National Lecture Series, University of Utah, Salt Lake City, Utah, Nov. 14, 1984.

Palaeodemography and Human Origins. University Lecture, Stanford University, Stanford, California, March 4, 1985.

Recent Developments in Human Origins. Sigma Xi Lecture, Kent State University, Apr. 8, 1985.

The Role of Radiology in Uncovering Human Origins. Keynote Address, Inaugural Ceremony for the School of Radiological Technology, Kent State University, Stark County, Ohio, Oct. 17, 1985.

Sex and the Human Fossil Record. "The Origins of Human Sexuality: A Symposium sponsored by the California Academy of Sciences and the Institute of Human Origins", Berkeley, California, Nov. 9, 1986.

The Origin of Man: Our View in 1987. University Lecture, Stanford University, Palo Alto, California, Feb. 16, 1987.

Did Human Reproductive Strategies Form the Basis of Human Intelligence. "Our Primate Relatives: A symposium in Honor of the Opening of Generations"; The Smithsonian, Washington D.C., Oct. 17, 1987.

The Human Fossil Record and the Evolution of Man. Annual Lecture Series, Westminster College, Alliance, Ohio, Apr. 11, 1987

Human Origins: View from the Laboratory. Kent State University Honors College Guest of Honor Series, Feb. 22, 1988.

The Origins of Man. Annual Humanism Lecture of the American Rheumatism Association, Houston, Texas, May 27, 1988.

Human Origins: Issues and Discoveries. Keynote Address, Seminar on Evolution and Education, Cleveland Museum of Natural History, Cleveland, Ohio, Apr. 7, 1989

The Evolution of Human Walking. Keynote Address, Regional Convention, Beta Beta Beta Biological Honor Society, Bowling Green, Ohio, Apr. 15, 1989

Human Ancestors: New Discoveries, New Interpretations. University of California at Berkeley Extension, Berkeley, California, October 22, 1989.

East Africa: Cradle of Mankind. Wayne College Contemporary Issues Forum. Wayne College, Orrville, Ohio, October 12, 1989.

The Origin of Man. Opening Lecture of the Eighth Southern Biomedical Engineering Conference, Richmond, Virginia, October 15, 1989.

Human Origins: The View in 1989. Raymond A. Dart Memorial Lecture Series, C.E. Smith Museum, California State University at Hayward, Hayward, California, May 16, 1989.

Modeling Human Origins: What are the Rules? Spring Lecture Series, Institute of Human Origins, Berkeley, California, May 15, 1989.

Reconstructing Human Origins. CRAFT Anthropology Lecture Series. Indiana University, Bloomington, Indiana, February 15, 1990.

The Origin of Man. Grand Rounds: Baylor University Medical Center, Dallas, Texas, April 23, 1990.

New Perspectives on the Origin of Man. Smithsonian National Museum of Natural History. Washington, D.C., June 12, 1990.

Modeling Human Origins: Are we sexy because we're smart, or are we smart because we're sexy. The Irving Stone Memorial Symposium: The origin and evolution of humans and humanness. UCLA Center for the Study of Evolution and the Origin of Life. University of California at Los Angeles, March 13, 1992.

Recent Developments in our Understanding of Human Origins. Anthropology and Biology Lecture, State University of New York at Buffalo, Buffalo, N.Y., November 14, 1991.

The Origin of Humans. Department of Geology, Oberlin College, Oberlin, Ohio, April 1992.

New Developments in the Origins of Man. Keynote address, 10th Anniversary celebration of the Cleveland Fossil Society, Cleveland Museum of Natural History, March 12, 1993.

Are we sexy because we're smart, or smart because we're sexy. Keynote Address: Sixth Annual Awards of the Institute for Human Origins. Union Club, New York, New York, November 1991.

How old is Eve? Reconsiderations of the age of our last common mtDNA ancestor. Center for Research into the Anthropological Foundations of Technology, Indiana University, Bloomington, IN, May 1993.

The age of bipedality: the evidence for upright walking in early hominids. Department of Anthropology Forum, Indiana University, Bloomington, IN, May 1993.

Modeling Human Origins. Keynote Address: On the occasion of the Retirement of Prof. Salvador PI. University of Barcelona, Barcelona, Spain, October, 1997

Archaic and woodland hunter-gatherers of the eastern USA: a comparative paleodemographic study. VII Congreso Internacional, Mexico City, October, 2002.

The Legacy of Early Human Behavior: Are we sexy because we're smart or smart because we're sexy. Psychiatry Grand Rounds, Akron General Medical Center, Akron, OH. February, 2003

The origin of hominids as an adaptive suite. Keynote Address. AAAS Gordon Research Conference: Craniofacial morphogenesis and tissue regulation. Ventura Beach, CA. Jan., 2004

The natural history of human walking. Keynote Address. 33<sup>rd</sup> Annual Midwest Connective Tissue Workshop. Cleveland, OH. Sept., 2004

Human origins as an adaptive suite. Keynote Address. 82<sup>nd</sup> Annual Meeting, Central States Anthropological Society, Oxford, OH., March, 2005

Modeling human origins. Warwick James Lecture, Guy's Hospital, King's College, London, England. June, 2005

Revealing human origins using an adaptive suite. Dept. of Zoology, University of Florida, Gainesville, FL. February, 2005

Ardi, Lucy, and the origins of humankind. President's Lecture. University of Tulsa, Tulsa OK, September, 2010

Ardi, Lucy, and Modern Humans: What would Darwin have thought? Darwin Sesquicentennial Celebration: "The vision and legacy of Charles Darwin" University of Cincinnati, Cincinnati, OH, November, 2009

Ardi, Lucy, and the origins of upright walking. Keynote. Society of Vertebrate Paleontology, Pittsburgh PA, September, 2010

Ardi, Lucy and the origins of humankind. Keynote. MENSA Annual Northeast Regional Meeting, Cleveland, OH, September, 2010

Ardipithecus ramidus: The oldest autopsy. Special Lecture, Scientific Program, National Association of Medical Examiners, Cleveland, OH, October 2010

#### **ARTICLES REPRINTED:**

"The Origin of Man" (Science, Vol. 211, pp. 341-350, January, 1981) In: *Primate Evolution and Human Origins*, Russell L. Chichon and John G. Fleagle, Eds., Benjamin Cummings, Menlo Park, California, 1985, pp. 289-298. In: *Evolutionary Ecology and Archaeology*, Jack E. Broughton and Michael D. Cannon, Eds, 2009, pp. 17-29.

"Identification via Pedal Morphology" (with Casimer J. Smerecki; The Police Chief, Vol. 51, No. 4, pp. 52-54, Apr., 1984) In: Identification News, Vol. 35, No. 12, pp. 5-12, December, 1985.

#### **INVITED RESEARCH SEMINARS:**

PLACE	DEPARTMENT	TOPIC	YEAR
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University of Chicago	Anthropology	Human Locomotion	1974
University of Toronto	Anthropology	Human Locomotion	1974
University of Kentucky	Anthropology	Human Locomotion	1975
Ohio State University	Anthropology	Palaeodemography	1975
University of Illinois	Anthropology	Human Locomotion	1976
Northern Ill. University	Anthropology	Human Locomotion	1976
Purdue University	Anthropology	Human Locomotion	1977
Harvard University	Anthropology	Palaeodemography	1977
University of Massachusetts	Anthropology	Human Osteology	1977
New York University	Anthropology	Palaeodemography	1977
Duke University	Anatomy	Human Hip Joint	1977
University of Michigan	Anthropology	Human Locomotion	1978
University of Calif.; Berkeley	Anthropology	Human Locomotion	1978
SUNY at Stony Brook	Anatomy	Human Locomotion	1979
University of Wisconsin	Pathology	Palaeopathology	1979
University of Calif.; Berkeley	Anthropology	Human Osteology	1980
Washington University	Anthropology	Human Locomotion	1980
SUNY at Stony Brook	Anatomy	Human Palaeontology	1981
SUNY at Stony Brook	Anatomy	Human Origins	1981
University of Arkansas	Anthropology	Human Osteology	1981
John Hopkins University	Cell Biology	The Human Knee	1981
Coker College	Psychology	Human Origins	1981
Ohio University	Anthropology	Human Origins	1981
University of Cincinnati	Anthropology	Human Origins	1981
Hosp. for Spec. Surg., NYC	Biomechanics	The Human Knee	1981
University of Calif., Riverside	Biology	Human Origins	1982
SUNY at Albany	Anthropology	Human Osteology	1982
University of Calif.; Berkeley	Anthropology	Human Origins	1982
New York University	Anthropology	Human Origins	1982
West Virginia University	Anatomy	Human Origins	1982
Washington University	Anatomy	Human Origins	1982
University of Chicago	Anatomy	Human Origins	1982
Univ. of Illinois; Chicago Circle	Anthropology	The Human Knee	1982
Wilfred Laurier University	Anthropology	Human Origins	1982
Westminster College	Psychology	Human Origins	1982
Muskingum College	Psychology	Human Origins	1982
Youngstown State Univ.	Anthropology	Human Origins	1982
Bowling Green University	Biology	Human Origins	1983
University of Toledo	Biology	Human Origins	1983
University of Illinois	Anthropology	Human Origins	1983
Ohio State University	Biology	Human Origins	1983
Stanford University	Psychology	Human Origins	1983
Univ. of Toledo	Biology	Human Origins	1983
West Virginia University	Anatomy	Human Locomotion	1983
Pfizer Laboratories	Hospital Products	Biomechanics/knee	1985
University of Kentucky	Anatomy	Biomechanics/hip	1986
Stanford University	Anthropology	Human Locomotion	1987
Mt. Union College	Psychology	Human Behavior	1987
Cleveland State University	Biology	Human Origins	1987
University of Calif., Berkeley	Anthropology	Human Origins	1988
Stanford University	Engineering	Knee Kinematics	1989
University of Calif., Hayward	Anthropology	Human Origins	1989
Indiana University	Anthropology	Human Origins	1990
Akron City Hospital	Orthopaedics	Comparative Anatomy	1990



Case Western Reserve Univ.	Law	Forensic Anthropology	1991
Indiana Univ. of Pennsylvania	Anthropology	Human Origins	1991
Oberlin College	Geology	Human Origins	1991
Indiana University	Anthropology	mtDNA	1993
Western Michigan University	Anthropology	Australopithecine Bipedality	1995
Cleveland Psychoanalytic Institute	Psychoanalysis	Pedagogy	1996
Miami University	Anthropology & Biology	Human Origins; Bipedality	1998
Indiana University	Anthropology & Biology	Hox genes and Bone Morphology	1999
Univ. of Florida	Zoology	Human Origins	2005
Stanford University	Anthropology & Biology	Models of Human Origins	2005
Univ. of Pittsburgh	Orthopaedic Surgery	Knee Kinematics	2007
Northern Illinois University	Anthropology & Biology	Models of Human Origins	2007
George Washington University	Anthropology	Australopithecine Locomotion	2007
Cornell University	Veterinary Medicine	Hominid & Human Locomotion	2008
Univ. of Pittsburgh	Orthopaedics Sports Med	Joints of Ardipithecus	2009
Univ. of Cincinnati	Biology	Biology of Ardipithecus	2009
Wright St. Univ.	Biology/Anthropology	Human Origins	2009
University of Tulsa	Biology/Anthropology	Human Origins	2010
University of Akron	Biology/Anthropology	Human Origins	2010
Kenyon College	Biology/Anthropology	Human Origins	2010
Franklin & Marshall	Biology/Anthropology	Human Origins	2010
Science Museum of Pittsburgh	Café Scientifique	Human Origins	2010
Ohio University	Darwin Lecture	Human Origins	2011
University of Toronto Scarborough	Biology/Anthropology	Human Origins	2013
University of Wooster	Anthropology	Ardipithecus	2013
University of New Mexico	Anthropology	Bone Development	2014