



IALM Scientific Committee (2013 – 2015)

Professor Douglas H. Ubelaker (U.S.A.)

Name: Douglas H. Ubelaker

Born: August 23, 1946
Horton, Kansas

Present Position: Curator, Department of Anthropology
National Museum of Natural History
Smithsonian Institution
Washington, D.C. 20560

Adjunct Positions:

- Consultant in Forensic Anthropology to the FBI, 1978-present
- Professorial Lecturer, Department of Anatomy, The George Washington University, Washington, D.C., 1986-present
- Professorial Lecturer, Department of Anthropology, The George Washington University, Washington, D.C., 1986-present
- Professor, Department of Anthropology, Michigan State University, East Lansing, Michigan, 2009-present

Education: B.A. (honors) University of Kansas, 1968
Ph.D. University of Kansas, 1973

Major Consultant Work: Analysis of human skeletal remains 1976 to present. Over 855 individual cases reported on.

Professional Organizations and Titles:

American Board of Forensic Anthropology: Diplomate (25), American Board of Forensic 1979-Present; Board Member, 1992-1998; President, 1995-1998. *American Academy of*

Forensic Sciences: Member, 1974-Present; Fellow, 1987-Present; Physical Anthropology Section Program Chairman, 1988; Secretary, 1989-1990; Chair, 1990-1991; Member, American Academy of Forensic Sciences Council, 1989-1991; Member, American Academy of Forensic Sciences Membership Committee, 1989-1991; Chair, 2007-2008; Member, American Academy of Forensic Sciences Nominating Committee, 1990-1991; 2012-2013; Chair 2012-2013; Elected Member, Board of Directors, 2002-2008; Elected to At Large Member of Executive Committee, 2004-2006; Member, Committee to assess recognition for Sept 11 related forensic contributions, 2003; Member, American Academy of Forensic Sciences, Forensic Sciences Foundation, 2002-2007; Nominating Committee, 2002, 2003, 2007; Program Co-Chair, 2005; Program Chair, 2006; Vice-President, 2007-2008; Treasurer, 2008-2010; President-Elect 2010-2011; President 2011-2012; Chair, Nominations Committee 2012-2013; Chair, Awards Committee 2012-2013; *American Association of Physical Anthropology*: Member, 1970-Present; Editorial Board, 1985-1992; Executive Committee, 2000-2003; Chair Nominations Committee, 2001-2003; *Paleopathology Association*: Member, 1985-Present; Co-chairman, Preservation Committee 1986-1991. *Washington Academy of Sciences*: Member, 1998-Present; Fellow, 2000-Present. *International Academy of Legal Medicine*: Member, Forensic Anthropology Society of Europe Section, 2004-Present; Scientific Committee, 2009 to present; Panel Expertos, Comisión Asesora; Presidencial Para Las Políticas de Derechos Humanos, Santiago de Chile 2006-2007; Comité Internacional de Expertos del Servicio Médico Legal, Santiago Chile, 2007-2010; *International Commission on Missing Persons*, Steering Committee 2007-2010; *Scientific Working Group for Forensic Anthropology (SWGANTH)*, 2007-2012; *National Missing and Unidentified Persons System Unidentified Decedent Advisory Group*; Scientific Committee, *International Journal of Forensic Anthropology*, 2008 to present; *La Sociedad de Odontólogos Forenses Ibero Americanos, Miembro Honorario*, 2009; Honorary International Advisor for Sri Lanka Journal of Forensic Medicine, Science and Law, 2010; Scientific Advisor, Forensic Unit, International Committee of the Red Cross, 2010-present; International Scientific Committee, *La Revue de Médecine Légale*, 2010-present

Editorial Boards:

Journal of Forensic Sciences, 1990-present; Book Review Editor, 2008-present; *Homo, Journal of Comparative Human Biology*, 1994-present; Editorial Board; *Revista Española de Medicina Legal*, 1996-1999; *Anthropologie, International Journal of the Science of Man*, 1997-2004; Board of International Collaborators of *Variability and Evolution*, 1997-present; *Forensic Science Communications*, 1999-present; Ellis R. Kerley Forensic

Sciences Foundation Board of Directors, 2000-Present; *Medico-Legal Update, An International Journal*, 2005; *Bioarcheology of the Mideast*, 2008; *Human Evolution*, 2007-2008; *International Journal of Anthropology*, 2007-2008; *Global Bioethics*, 2007-2008; *Revista Española de Antropología Física*, 2010; *International Journal of Legal Medicine*, 2011-present; *Anthropological Review*, 2012 ; *Revista Española de Antropología Física*, 2012. *The Open Forensic Science Journal*, 2010

Honors:

Recipient of the Memorial Medal of Dr. Aleš Hrdlička, Humpolec, Czech Republic, 1999; Recipient of the Anthropology Award of the Washington Academy of Sciences, 2000; Recipient of the T.Dale Stewart Award by the Physical Anthropology Section of the American Academy of Forensic Sciences, 2001; Recipient of the FBI Director's Award for Exceptional Public Service, August 15, 2002; Recipient of the Federal Highway Administration Pennsylvania Division Historic Preservation Excellence Award, best representative project for archaeology and preservation, April, 2003; Recipient of a special recognition award from the FBI, March, 2004; Elected Miembro Honorario of the Sociedad de Odontostomatólogos Forenses Ibero Americanos, November, 2009.

Publication

- 1984 Douglas H. Ubelaker. Positive Identification from the Radiographic Comparison of Frontal Sinus Patterns. In *Human Identification Case Studies in Forensic Anthropology*, edited by Ted A. Rathbun and Jane E. Buikstra, pp. 399-411. Charles C. Thomas, Springfield.
- 1986 Douglas Ubelaker. Estimation of Age at Death from Histology of Human Bone. In *Dating and Age Determination of Biological Materials*, edited by Michael R. Zimmerman and J. Lawrence Angel, pp. 240-247. Croom Helm, London.
- 1988 Douglas H. Ubelaker and Norman D. Sperber. Alterations in Human Bones and Teeth as a Result of Restricted Sun Exposure and Contact with Corrosive Agents. *Journal of Forensic Sciences* 33(2):540-548.
- 1989 Douglas H. Ubelaker. The Estimation of Age at Death from Immature Human Bone. In *Age Markers in the Human Skeleton*, edited by Mehmet Yasar Iscan, pp. 55-70. Charles C. Thomas, Springfield.
- 1991 Douglas H. Ubelaker. Perimortem and Postmortem Modification of Human Bone. Lessons from Forensic Anthropology. *Anthropologie* 24(3):171-174.
- 1992 D.W. Owsley, R.W. Mann, D. H. Ubelaker and J.A. DiZinno. Unknown to Positive ID: A Forensic Anthropological Investigation. *Journal of Forensic Identification* 42(6):523-530.
- 1992 Douglas H. Ubelaker. Hyoid Fracture and Strangulation. *Journal of Forensic Sciences* 37(5):1216-1222.
- 1994 Jane E. Buikstra and Douglas H. Ubelaker (editors). *Standards for Data Collection from Human Skeletal Remains, Proceedings of a Seminar at The Field*

- Museum of Natural History*. Arkansas Archeological Survey Research Series No. 44. Arkansas Archeological Survey, Fayetteville. 206 pages, 171 figures, 7 tables, 29 attachments.
- 1995 Douglas H. Ubelaker and Bradley J. Adams. Differentiation of Perimortem and Postmortem Trauma Using Taphonomic Indicators. *Journal of Forensic Sciences* 40(3):509-512.
- 1997 Douglas H. Ubelaker. Taphonomic Applications in Forensic Anthropology. In *Forensic Taphonomy*, edited by W. D. Haglund and M. H. Sorg, pp. 77-90. CRC Press, New York.
- 1997 Michael S. Pollanen and Douglas H. Ubelaker. Forensic Significance of the Polymorphism of Hyoid Bone Shape. *Journal of Forensic Sciences* 42(5):890-892.
- 1997 Douglas H. Ubelaker. La práctica de la antropología forense. In *Estudios de Antropología Biológica*, Vol. VIII, edited by R.M. Ramos Rodríguez and M. E. Peña Reyes, pp. 105-125. Universidad Nacional Autónoma de México, Instituto de investigaciones antropológicas, México.
- 1998 D. H. Ubelaker. The Evolving Role of the Microscope in Forensic Anthropology. In *Forensic Osteology, Advances in the Identification of Human Remains*, 2nd edition, edited by K.J. Reichs pp 514-532. Charles C. Thomas, Springfield, Illinois.
- 1999 Helen D. Donoghue, Douglas H. Ubelaker and Mark Spigelman. The Use of Paleomicrobiological Techniques in a Current Forensic Case. In *Tuberculosis Past and Present*, edited by G. Pálfi, O. Dutour, J. Deák and I. Hutás, pp. 363-368. Golden Book Publisher, Ltd., Tuberculosis Foundation, Szeged, Hungary.
- 2001 Dawn M. Mulhern and Douglas H. Ubelaker. Differences in Osteon Banding Between Human and Nonhuman Bone. *Journal of Forensic Sciences* 46(2):220-222.
- 2001 Cassady Yoder, Douglas H. Ubelaker and Joseph F. Powell. Examination of Variation in Sternal Rib End Morphology Relevant to Age Assessment. *Journal of Forensic Sciences* 46(2):223-227.
- 2001 Douglas H. Ubelaker. Artificial Radiocarbon as an Indicator of Recent Origin of Organic Remains in Forensic Cases. *Journal of Forensic Sciences* 46(6/November):1285-1287.
- 2002 Douglas H. Ubelaker and Crystal G. Volk. A Test of the Phenice Method for the Estimation of Sex. *Journal of Forensic Sciences* 47(1):19-24.
- 2002 Debra A. Prince and Douglas H. Ubelaker. Application of Lamendin's Adult Dental Aging Technique to a Diverse Skeletal Sample. *Journal of Forensic Sciences* 47(1):107-116.
- 2002 Douglas H. Ubelaker, Dennis C. Ward, Valéria S. Braz and John Stewart. The Use of SEM/EDS Analysis to Distinguish Dental and Osseous Tissue from Other Materials. *Journal of Forensic Sciences* 47(5):940-943.
- 2002 Douglas H. Ubelaker and Max M. Houck. Using Radiocarbon Dating and Paleontological Extraction Techniques in the Analysis of a Human Skull in an Unusual Context. *Forensic Science Communications* 4(4/October):4 pages.
- 2003 Douglas H. Ubelaker and John E. Smialek. The Interface of Forensic Anthropology and Forensic Pathology in Trauma Interpretation. In *Hard*

- Evidence, Case Studies in Forensic Anthropology*, edited by Dawnie Wolfe Steadman, pp. 155-159. Prentice Hall, New Jersey.
- 2004 Douglas H. Ubelaker, Jerold M. Lowenstein and Darden G. Hood. Use of Solid-Phase Double-Antibody Radioimmunoassay to Identify Species from Small Skeletal Fragments. *Journal of Forensic Sciences* 49(5):924-929.
- 2006 Douglas H. Ubelaker and Bruce A. Buchholz. Complexities in the Use of Bomb-Curve Radiocarbon to Determine Time Since Death of Human Skeletal Remains. *Forensic Science Communications* 8(1):9 pages.
- 2006 Joshua D. Reuther, Jerold M. Lowenstein, S. Craig Gerlach, Darden Hood, Gary Scheuenstuhl and Douglas H. Ubelaker. The Use of an Improved pRIA Technique in the Identification of Protein Residues. *Journal of Archaeological Science* 33:531-537.
- 2006 Douglas H. Ubelaker, Bruce A. Buchholz and John E. B. Stewart. Analysis of Artificial Radiocarbon in Different Skeletal and Dental Tissue Types to Evaluate Date of Death. *Journal of Forensic Sciences* 51(3):484-488.
- 2006 Jerold M. Lowenstein, Joshua D. Reuther, Darden G. Hood, Gary Scheuenstuhl, S. Craig Gerlach, and Douglas H. Ubelaker. Identification of animal species by protein radioimmunoassay of bone fragments and bloodstained stone tools. *Forensic Science International* 159:182-188.
- 2006 Mary S. Megyesi, Douglas H. Ubelaker and Norman J. Sauer. Test of the Lamendin Aging Method on Two Historic Skeletal Samples. *American Journal of Physical Anthropology* 131(3):363-367.
- 2008 Douglas H. Ubelaker. Issues in the Global Applications of Methodology in Forensic Anthropology. *Journal of Forensic Sciences* 53(3):606-607.
- 2008 Douglas H. Ubelaker and Roberto C. Parra. Application of Three Dental Methods of Adult Age Estimation from Intact Single Rooted Teeth to a Peruvian Sample. *Journal of Forensic Sciences* 53(3):608-611.
- 2008 Douglas H. Ubelaker. Forensic anthropology: methodology and diversity of applications. In *Biological Anthropology of the Human Skeleton*, Second Edition, edited by M. Anne Katzenberg and Shelley R. Saunders, pp. 41-69. John Wiley and Sons, Inc., Hoboken, NJ.
- 2009 Douglas H. Ubelaker and John E. Smialek. The Interface of Forensic Anthropology and Forensic Pathology in Trauma Interpretation. In *Hard Evidence: Case Studies in Forensic Anthropology*, Second Edition, edited by Dawnie Wolfe Steadman, pp. 221-224. Prentice Hall, New Jersey.
- 2009 Douglas H. Ubelaker. Approaches to Facial Reproduction and Photographic Superimposition. In *Hard Evidence: Case Studies in Forensic Anthropology*, Second Edition, edited by Dawnie Wolfe Steadman, pp. 248-257. Prentice Hall, New Jersey.
- 2009 Douglas H. Ubelaker. The Forensic evaluation of burned skeletal remains: A synthesis. *Forensic Science International* 183:1-5.
- 2009 Lisa M. Misner, Andrea C. Halvorson, Jennifer L. Dreier, Douglas H. Ubelaker and David R. Foran. The Correlation between Skeletal Weathering and DNA Quality and Quantity. *Journal of Forensic Sciences* 54(4):822-828.
- 2010 Douglas H. Ubelaker. Recent Advances in the Estimation of Age at Death from the Assessment of Immature Bone. In *Age Estimation of the Human Skeleton*,

- edited by Krista E. Latham and Michael Finnegan, pp. 177-189. Charles C. Thomas, Springfield, IL.
- 2010 Douglas H. Ubelaker. Recent Advances in Forensic Anthropology. In *Acta Medicinae Legalis et Socialis*, edited by D.N Vieira, A. Busuttil, D. Cusack and P. Beth, pp. 29-32. Imprensa Da Universidade De Coimbra, Coimbra.
- 2011 Douglas H. Ubelaker and Roberto C. Parra. Radiocarbon analysis of dental enamel and bone to evaluate date of birth and death: Perspective from the southern hemisphere. *Forensic Science International* 208:103-107.
- 2011 Douglas H. Ubelaker. The Forensic Sciences: International Perspectives, Global Vision. *Journal of Forensic Sciences* 56(5):1091-1093.
- 2011 Douglas H. Ubelaker and Kristin M. Montaperto. Biomechanical and Remodeling Factors in the Interpretation of Fractures in Juveniles. Chapter 4, pp. 33-48 in *The Juvenile Skeleton in Forensic Abuse Investigations*, edited by Ann H. Ross and Suzanne M. Abel. Humana Press, Springer, New York.
- 2012 Dawn M. Mulhern and Douglas H. Ubelaker. Differentiating Human from Nonhuman Bone Microstructure. In *Bone Histology: An Anthropological Perspective*, edited by Christian Crowder and Sam Stout, pp. 109-134. CRC Press, Boca Raton, FL.
- 2012 Douglas H. Ubelaker. New Research Directions in the Forensic Sciences. *International Journal of Legal Medicine*, Volume 126, Supplement 1, p.58.
- 2012 Douglas H. Ubelaker. Contributions of Forensic Anthropology to Medicolegal Investigation. Chapter 12, pp. 1-11 in Sean M. Kery, Editor, *Guidelines for Marine Forensic Investigations*. The Society of Naval Architects and Marine Engineers, Technical and Research Bulletin No. 8-1. New Jersey.
- 2012 Douglas H. Ubelaker and Kristin M. Montaperto. Recovery and Analysis of Human Remains from Aquatic Contexts. Chapter 13, pp. 1-11 in Sean M. Kery, Editor, *Guidelines for Marine Forensic Investigations*. The Society of Naval Architects and Marine Engineers, Technical and Research Bulletin No. 8-1. New Jersey.
- 2013 Douglas H. Ubelaker, Editor. *Forensic Science: Current Issues, Future Directions*. 404p. Wiley-Blackwell, West Sussex, UK.
- 2013 Joyce K. Stocking, Macarena D. Hevia and Douglas H. Ubelaker. Radiocarbon Analysis of Fly Pupal Cases to Estimate Date of Death. *Proceedings of the American Academy of Forensic Sciences*. Volume XIX: p. 380.
- 2013 Claudia E. Garrido-Varas, Douglas H. Ubelaker and Marisol A. Intriago-Leiva. The Use of Radiocarbon Analysis in a Chilean Human Rights Commingled Case. *Proceedings of the American Academy of Forensic Sciences*. Volume XIX: p. 425.