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## Jane E. Buikstra

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### EDUCATION

DePauw University, B.A. (Anthropology)	1967
University of Chicago, M.A. (Anthropology)	1969
University of Chicago, Ph.D. (Anthropology)	1972

### AWARDS:

McMahan Scholar, Alpha Lambda Delta, DePauw University	1963-1967
Phi Beta Kappa, DePauw University	1967
National Science Foundation Graduate Fellowship	1967-1970
Student Advisory Board, Teaching Award, Northwestern University	1981
National Academy of Sciences, elected	1987
Harold H. Swift, Distinguished Service Professor University of Chicago	1989-1995
National Association of Student Anthropologists, AAA, Service Award	1991
Distinguished Professor of Anthropology University of New Mexico	1995-2000
Leslie Spier Distinguished Professor of Anthropology University of New Mexico	2001-2005
UNM General Library Award for Research Achievement	2002
George E. Burch Fellow in Theoretic Medicine and Affiliated Sciences at the Smithsonian Institution	2003-2007
Annual Research Lecturer, University of New Mexico	2003
Pomerance Award for Scientific Contributions to Archaeology, Archaeology Institute of America	2005
Fulbright Senior Specialist Candidate	2004

### ACADEMIC EMPLOYMENT:

Teaching Assistant, Department of Anthropology University of Chicago	1968-1969
Instructor, Northwestern University	1970-1972
Assistant Professor, Northwestern University	1972-1976
Associate Professor, Northwestern University	1976-1982
Associate Dean for Studies, Northwestern University	1981-1984
Research Associate, Field Museum of Natural History	1981-

Research Associate, Museum of the American Indian	1983-1986
Professor, Northwestern University	1982-1986
School of American Research, Resident Scholar	1984-1985
Professor, University of Chicago	1986-1995
Committees: Human Nutrition and Nutritional Biology; Evolutionary Biology	
Research Associate, University of Chicago	1995-
Professor, University of New Mexico	1995-2005
Interim Chair, Spring Semester, 1998	
Adjunct Professor of Anthropology, Washington University	1986-
Research Associate, University of Florida	1991-1997
Research Associate in Anthropology, Field Museum of Natural History	2003-2008
Research Associate, National Museum of Natural History	2005-2009
Professor of Bioarchaeology and Director, Center for Bioarchaeological Research, Arizona State University	2005-

## RESEARCH GRANTS:

National Science Foundation, Predoctoral Research Grant GS-2831	1969-1970
Hinds Fund, University of Chicago Committee on Evolutionary Biology	1970-1971
Bio-Medical Sciences Support Grant FR7028-05, National Institute of Health	1971
National Science Foundation Grant GS-41242 Consultant in Prehistoric Human Biology	1974-1976
National Science Foundation Grant GS-42969 A Paleobiological Perspective on the Hopewell "Decline", Principal Investigator	1974-1976
Northwestern University Summer Research Grant	1974-1985
Wenner-Gren Foundation, Bio-Archaeological Research	1978-1979
Wenner-Gren Foundation, Spinal Pathology in <u>Australopithecus africanus</u>	1983
National Science Foundation, Latin American Program, Division of International Programs: Archaeological Research on Marajo Island, Brazil, Co-principal Investigator	1983-1984
National Science Foundation Grant BNS83-18587 Cementum Annulation and Age Determination in <u>Homo Sapiens</u> , Co-principal Investigator	1984-1985
National Geographic Society, Gatas Project (Spain) Consultant in Physical Anthropology, Dr. Robert Chapman, Principal Investigator	1986-1989
National Endowment for the Humanities RO-21541-87 Consultant in Physical Anthropology, Shiqmim Project (Israel) Dr. Thomas E. Levy, Principal Investigator	1987-1989
National Science Foundation Grant BNS88-06389 Carbon Isotope Analysis in the Prehistoric Midcontinent: A Perspective on Agricultural Intensification, Principal Investigator	1988-1989

National Science Foundation Grant ESI-8955622 Archaeology and the Natural Sciences, Co-principal Investigator	1990-1992
National Science Foundation Grant BNS89-20769 Chiribaya: A Biocultural Approach to the Study of a Prehistoric Andean Polity, Principal Investigator	1990-1993
National Science Foundation Grant BNS-9110734 Improvement in the Condition and Management of the Records at the Kampsville Archaeological Center, Co-principal Investigator	1991-1993
National Science Foundation Grant ESI-9155027 Archaeology and the Natural Sciences, Co-principal Investigator	1992-1994
National Science Foundation Grant ESI-9352983 Archaeology and the Natural Sciences, Co-principal Investigator	1994-1995
National Science Foundation Grant SBR-9321377 Prehispanic Alpaca and Llama Production on the South Coast of Peru, Co-principal Investigator	1994-1996
National Science Foundation Grant ESI-9552910 Archaeology and the Natural Sciences, Co-principal Investigator	1996-1997
National Science Foundation Grant SBER-9708001 Strontium Isotope Analysis and Prehistoric Residential Change, Co-principal Investigator	1997-2000
National Science Foundation Grant SBR-9732417 Consultant in Research for Undergraduates, Site in Physical Anthropology: Preparing Students for Science Careers: Research Experiences and Socialization through Osteological Analyses and Scientific Visualization of Human Skeletal Remains, Co-principal Investigators M. K. Sanford and G. Kissling	1998-2001
National Science Foundation, Doctoral Dissertation Research (Supervisor): BNS77-04095 DeRousseau BNS79-06052 Gordon BNS79-19489 Pickering BNS85-15371 Bullington BNS87-17590 Williams BNS91- 527744 Wright SBR-9319784 Begley SBR-9910504 Rakita BCS-0221962 Lewis BCS-0242941 Nystrom BCS0034849 Wilbur BCS-0336402 East	
National Geographic Society Grant Early Copan Acropolis Project	1997-2000
Illinois Department of Transportation Grants for the following projects: Elizabeth Mound Group Kuhlman Mound Group Alexander Mound Group Jo Daviess County Site Jd-111 Gauwitz Mound Group	1974, 1979-1981 1979-1981 1979 1979 1980
Illinois Historic Preservation Agency, The Mound House site	1994
Federal Emergency Management Agency / Grafton, Illinois: The Grafton Cemetery Project	1995-1999
Ahua Foundation: Isotope Studies at Copan	2002-2004
Foundation for the Advancement of MesoAmerican Studies, Inc: Radiography at Copan	2002-2004

National Science Foundation Archaeometry Grant 041347 Human Migration in Ancient Mesoamerica	2004-2006
National Science Foundation Grant ESI-042386 ITEST, Co-principal Investigator	2004-2007

## **FIELD EXPERIENCE:**

North American Midwest, 18 Projects, 1966-  
Canadian Arctic, 1 Project, 1969  
Argentina, Santa Fe la Vieja, 1980-1982, 1984, 1987  
Brazil, Marajo Expedition, 1983-1986  
Peru, Programa Contisuyu, 1984-  
Spain, Gatas Expedition, 1986-  
Turkey, Çayönü Tepesi, 1988  
Honduras, 1995-

## **PUBLICATIONS:**

### **Monographs/Books**

Jane E. Buikstra and Lynne Goldstein. Perrins Ledge Crematory: Analysis and Interpretation of a Complex Crematory Site. Illinois State Museum Reports of Investigations, No. 28. Illinois Valley Archaeological Program Research Papers, Vol. 8. (1973).

Jane E. Buikstra. Hopewell in the Lower Illinois River Valley: A Regional Approach to the Study of Biological Variability and Mortuary Activity. Northwestern University Monograph, No. 2. (1976).

Jane E. Buikstra, ed., Prehistoric Tuberculosis in the Americas. Author of two substantive chapters: Chapter 1 "An Historical Introduction" and Chapter 10 (with D.C. Cook) "Pre-Columbian Tuberculosis in West-Central Illinois: Prehistoric Disease in Biocultural Perspective." Northwestern University Archeological Program Research Paper (1981). Translated and published in serial form as "La Tuberculosis Prehistorica en las Americas." In Revista Argentina de Tuberculosis. Enfermedades Pulmonares y Salud. Vol. 47, 48, 49, and 50. (1986-1989).

Ted Rathbun and Jane E. Buikstra, eds., Human Identification: Case Studies in Forensic Anthropology. Co-editor and senior author of one chapter: "The Case of the Severed Skull: Individuation in Forensic Anthropology." Charles C. Thomas. (1984).

Douglas K. Charles, Stephen Leigh and Jane E. Buikstra, eds., The Archaic and Woodland Cemeteries of the Elizabeth site in the Lower Illinois Valley. Kampsville Archaeology Center, Research Series, Volume 7. (1988).

Jane E. Buikstra and George R. Milner. Fifty Years of Research at Dickson Mounds. Illinois State Museum. (1989).

Jane E. Buikstra, ed., A Life in Science: Papers in Honor of J. Lawrence Angel. Author of two chapters: "Introduction" (with L. M. Hoshower) and "A Case of Juvenile Rheumatoid Arthritis from Pre-Columbian Peru" (with A. Poznanski, M.C. Lozada, P. Goldstein, and L. Leuschner). Biological Anthropology Unit of the American Anthropological Association, by the Center for American Archaeology. (1990).

Jerome C. Rose, Susan Anton, Arthur Aufderheide, Jane E. Buikstra, L. Eisenberg, et al. Paleopathology Association Skeletal Database Committee Recommendations. Paleopathology Association, Detroit. (1991). Translated and published as Asociación de Paleopatología Recomendaciones del Comité para la Base de Datos de Restos Osteos. (1994) and "Recommandations du Comité 130es Squelettiques en Paléopathologie." In Lésions

Ostéo-Archéologiques Recueil et Identification. (1994).

Jane E. Buikstra and Douglas Ubelaker , eds., Standards for Data Collection from Human Skeletal Remains: Proceedings of a Seminar at the Field Museum of Natural History. Arkansas Archaeological Survey Press, Fayetteville. (1994).

Jane E. Buikstra, Douglas K. Charles and Gordon F. M. Rakita. Staging Ritual: Hopewell Ceremonialism at the Mound House Site, Greene County, Illinois. Kampsville Studies in Archeology and History, No. 1. Center for American Archeology. (1998).

Jane E. Buikstra, ed., Never Anything So Solemn: An Archaeological, Biological and Historical Investigation of the 19th Century Grafton Cemetery. Author of four chapters: 1. Introduction; 2. Historic Bioarcheology and the Beautification of Death; 3. A Matter of Life and Death I: Disease, Medical Practice, and Funerals; and 9. Summary and Conclusions; Coauthor of one chapter : (Houdek, Buikstra, Stojanowski) 7. Skeletal Biology. Kampsville Studies in Archeology and History, No. 3. Center for American Archeology. (2000).

Maria Cecilia Lozada and Jane E. Buikstra. El Señorío de Chiribaya en la Costa Sur del Perú. Instituto de Estudios Peruanos, Lima-Peru. (2002).

Charlotte A. Roberts and Jane E. Buikstra. The Bioarchaeology of Tuberculosis: A Global View on a Reemerging Disease. University Press of Florida. (2003).

Gordon F.M. Rakita , Jane E. Buikstra, Lane A. Beck, and Sloan R. Williams, eds., Interacting with the Dead: Perspectives on Mortuary Archaeology for the New Millennium. University Press of Florida.. Author or coauthor of three chapters: Gordon, F.M. Rakita, Jane E. Buikstra, Lane A. Beck, and Sloan R. Williams, "Interacting with the Dead: An Historical Introduction; Chapter 5: Jane E. Buikstra, Maria Cecilia Lozada Cerna, Paula Tomczak, and Gordon Rakita "Chiribaya Political Economy: A Bioarchaeological Perspective; Chapter 12: Gordon F.M. Rakita, and Jane E. Buikstra. "Corrupting Flesh: Reexamining Hertz's Perspective on Mummification and Cremation" . (2005).

Douglas K. Charles and Jane E. Buikstra, eds., Recreating Hopewell. University Press of Florida. (2006).

Jane E. Buikstra and Lane A. Beck, eds., Bioarchaeology: The Contextual Study of Human Remains. Senior editor and author of Chapter 1: An Historical Introduction; Chapter 15: The Engagement of 21<sup>st</sup> Century Bioarchaeology; co-author of O. M. Pearson and Jane E. Buikstra, Chapter 8: Behavior and the Bones. Elsevier Press, Inc. (accepted for publication)

Debra Komar and Jane E. Buikstra Forensic Anthropology: Methods and Theories. Oxford University Press (under contract, in preparation).

## **Articles/Chapters**

Jane E. Buikstra. "Healed Fractures in *Macaca mulatta*: Age, Sex and Symmetry." Folia Primatologica 23:140-148. (1975).

Charles D. McLaughlin, Joseph B. Lambert, Ann Magennis, and Jane E. Buikstra. "X-ray Fluorescence Analysis of a Glaze-like Skeletal Coating from the Helton Site." Transactions. Illinois State Academy of Science 68(3):315-319. (1975).

Jane E. Buikstra. "The Caribou Eskimo: General and Specific Disease." American Journal of Physical Anthropology 43:350-368. (1976).

Jane E. Buikstra. "Biocultural Dimensions of Archeological Study: A Regional Perspective." In Biocultural Adaptation in Prehistoric America, Robert L. Blakely, ed., Southern Anthropological Society Proceedings, No.11.

pp. 67-84. (1977).

Jane E. Buikstra. "Differential Diagnosis: An Epidemiological Model." Yearbook of Physical Anthropology [1976] pp. 316-328. (1977).

Carol B. Szpunar, Joseph B. Lambert, and Jane E. Buikstra. "Analysis of Excavated Bone by Atomic Absorption." American Journal of Physical Anthropology 48(2):199-202. (1978).

James M. Cheverud and Jane E. Buikstra. "A Study of Intragroup Biological Change Induced by Social Group Fission in *Macaca mulatta* Using Discrete Cranial Traits." American Journal of Physical Anthropology 48(1):41-76. (1978).

Jane E. Buikstra. "The Foods of Early Man in North America: Biological Costs and Benefits." In Nutrition in Transition: Proceedings, Western Hemisphere Nutrition Congress V. P. White and N. Selvey, eds., American Medical Association. pp. 297-304. (1978).

Jane E. Buikstra and Della C. Cook. "Pre-Columbian Tuberculosis: An Epidemiological Approach." MCV Quarterly 14(1):32-33. (1978).

James M. Cheverud, Jane E. Buikstra, and Elizabeth Twichell. "Relationships Between Non-Metric Skeletal Traits and Cranial Size and Shape." American Journal of Physical Anthropology 50(2):191-198. (1979).

Joseph B. Lambert, Carole B. Szpunar, and Jane E. Buikstra. "Chemical Analysis of Excavated Human Bone from Middle and Late Woodland Sites." Archaeometry 21:115-129. (1979).

Della C. Cook and Jane E. Buikstra. "Health and Differential Survival in Pre-historic Populations: Prenatal Dental Defects." American Journal of Physical Anthropology 51:649-664. (1979).

Jane E. Buikstra. "Contributions of Physical Anthropologists to the Concept of Hopewell: A Historical Perspective." Chapter 28. In Hopewell Archaeology: The Chillicothe Conference. D.S. Brose and N'omi Greber, eds., Kent State University Press. pp. 220-233. (1979).

Jane E. Buikstra and Claire C. Gordon. "Individuation in Forensic Study: Decapitation," Journal of Forensic Sciences 25:246-259 (1980).

Jane E. Buikstra and Della C. Cook. "Palaeopathology: An American Account." Annual Review of Anthropology 9:433-470. (1980). Portuguese translation: "Paleopatologia." In Paleopatologia & Paleoepidemiologia: Estudos Multidisciplinares. Adauto José Gonçalves de Araujo and Luiz Fernando Ferreira, coordenadores. ENSP, Rio de Janeiro. pp. 41-86. (1992).

Jane E. Buikstra. "Epigenetic Distance: A Study of Biological Variability in the Lower Illinois River Region." In Early Native Americans, David L. Browman, ed., Mouton Press, The Hague. pp. 271-299. (1981).

Claire C. Gordon and Jane E. Buikstra. "Soil pH, Bone Preservation and Sampling Bias at Mortuary Sites." American Antiquity 46:566-571. (1981).

James M. Cheverud and Jane E. Buikstra. "Quantitative Genetics of Skeletal Nonmetric Traits in the Rhesus Macaques on Cayo Santiago. I: Single Trait Heritabilities." American Journal of Physical Anthropology 54:43-49. (1981).

James M. Cheverud and Jane E. Buikstra. "Quantitative Genetics of Skeletal Nonmetric Traits in the Rhesus Macaques of Cayo Santiago. II: Phenotypic, Genetic, and Environmental Correlations Between Traits." American Journal of Physical Anthropology 54:51-58. (1981).

Jane E. Buikstra. "Mortuary Practices, Palaeodemography, and Palaeopathology: A Case Study from the Koster Site (Illinois)." In The Archaeology of Death. Robert Chapman, Ian Kinnes, and Klaus Randsborg, eds., Cambridge University Press. pp. 123-132. (1981).

Jane E. Buikstra. "Diet and Disease in Prehistory: New Directions." In Current Directions in Midwestern Archaeology: Selected Papers from the Mankato Conference. Occasional Publications in Minnesota Anthropology No. 9. Minnesota Archaeological Society, St. Paul. pp. 56-62. (1981).

Jane E. Buikstra and Claire C. Gordon. "The Study and Restudy of Human Skeletal Series: The Importance of Long-Term Curation." Annals of the New York Academy of Sciences 376:449-465. (1981).

James M. Cheverud and Jane E. Buikstra. "Quantitative Genetics of Skeletal Nonmetric Traits in the Rhesus Macaques on Cayo Santiago. III: Relative Heritability of Skeletal Nonmetric and Metric Traits." American Journal of Physical Anthropology 59:151-155. (1982).

Della C. Cook, Jane E. Buikstra, C. Jean DeRousseau, and D. Carl Johnson. "Vertebral Pathology in the Afar Australopithecines." American Journal of Physical Anthropology 60:83-102. (1983).

Joseph B. Lambert, Sharon M. Vlasak, Anne C. Thomet, and Jane E. Buikstra. "A Comparative Study of the Chemical Analysis of Ribs and Femurs in Woodland Populations." American Journal of Physical Anthropology 59:289-294. (1982).

Douglas K. Charles and Jane E. Buikstra. "Archaic Mortuary Sites in the Central Mississippi Drainage: Distribution, Structure, and Behavioral Implications." In The Midwest Archaic: Paleoecology, Stratigraphy and Archaeology. J. L. Phillips and J. A. Brown, eds., Academic Press. (1983).

Joseph B. Lambert, Sharon V. Simpson, Jane E. Buikstra, and Douglas Hanson. "Electron Microprobe Analysis of Elemental Distribution in Human Femurs." American Journal of Physical Anthropology 62(4): 409-423. (1983).

Joseph B. Lambert, Sharon V. Simpson, Jane E. Buikstra, and Douglas K. Charles. "Analysis of Soil Associated with Woodland Burials." In Advances in Chemistry Series #205. American Chemical Society, Washington, D.C. pp. 97-116. (1984).

Bruce Bradtmiller and Jane E. Buikstra. "Effects of Burning on Human Bone Microstructure: A Preliminary Study." American Journal of Forensic Sciences 29:535-540. (1984).

Janet W. McGrath, James M. Cheverud, and Jane E. Buikstra. "Genetic Correlations between Sides and Heritability of Asymmetry for Nonmetric Traits in Rhesus Macaques on Cayo Santiago." American Journal of Physical Anthropology 64:401-412. (1984).

Joseph B. Lambert, Sharon V. Simpson, Carol B. Szpunar, and Jane E. Buikstra. "Copper and Barium as Dietary Discriminants: The Effects of Diagenesis." Archaeometry 26:131-138. (1984).

Joan Richtsmeier, James Cheverud, and Jane E. Buikstra. "The Relationship between Cranial Metric and Non-Metric Traits in the Rhesus Macaques from Cayo Santiago." American Journal of Physical Anthropology 64:213-222. (1984).

Joseph B. Lambert, Sharon V. Simpson, Carole B. Szpunar, and Jane E. Buikstra. "Ancient Human Diet from Inorganic Analysis of Bone," Accounts of Chemical Research 17:298-305. (1984).

Jane E. Buikstra. "The Lower Illinois River Region: A Prehistoric Context for the Study of Ancient Health and Diet." In Paleopathology at the Origins of Agriculture. Mark N. Cohen and George Armelagos, eds., Academic Press. pp. 215-234. (1984).

- Jane E. Buikstra and James H. Mielke. "Demography, Diet, and Health." In The Analysis of Prehistoric Diets. R. I. Gilbert and J. H. Mielke, eds., Orlando: Academic Press. pp. 359-422. (1985).
- Jane E. Buikstra and Lyle Konigsberg. "Paleodemography: Critiques and Controversies." American Anthropologist 87:316-333. (1985).
- Jane E. Buikstra, Lyle Konigsberg, and Jill Bullington. "Fertility and the Development of Agriculture in the Prehistoric Midwest." American Antiquity 51:528-546. (1986).
- Jane E. Buikstra. "The Skeletal Biology of Prehistoric Illinois People." In Illinois Archaeology. Illinois Archaeological Survey, Bulletin No. 1, revised. pp. 109-118. (1985).
- Joseph B. Lambert, Sharon V. Simpson, Susan G. Weiner and Jane E. Buikstra. "Induced Metal-Ion Exchange in Excavated Human Bone." Journal of Archaeological Science 12:85-92. (1985).
- Joseph B. Lambert, Sharon V. Simpson, C. B. Szpunar, and Jane E. Buikstra. "Bone diagenesis and dietary analysis." Journal of Human Evolution 14: 477-482. (1985).
- Douglas K. Charles, Jane E. Buikstra, and Lyle Konigsberg. "Behavioral Implications of Terminal Archaic and Early Woodland Mortuary Practices in the Lower Illinois Valley." In Early Woodland Archaeology. K. Farnsworth and T. Emerson, eds., Center for American Archaeology Press. pp. 458-474. (1986).
- Jane E. Buikstra. "Paleobiologie et archeologie: Travaux Recents," Nouvelles de l'Archeologie 22:40-47. (1986).
- Douglas K. Charles, Keith Condon, James M. Cheverud, and Jane E. Buikstra. "Cementum Annulation and Age Determination in *Homo sapiens*. I. Tooth Variability and Observer Error." American Journal of Physical Anthropology 71:311-320. (1986).
- Keith Condon, Douglas K. Charles, James M. Cheverud, and Jane E. Buikstra. "Cementum Annulation and Age Determination in *Homo sapiens*. II. Estimates and Accuracy." American Journal of Physical Anthropology 71:321-330. (1986).
- Jane E. Buikstra, Jill Bullington, Douglas K. Charles, Della C. Cook, Susan Frankenberg, Lyle Konigsberg, Joseph B. Lambert, and Liang Xue. "Diet, Demography, and the Development of Horticulture." In Emergent Horticultural Economies of the Eastern Woodlands. W. Keegan, ed., Occasional Paper of the Center for Archaeological Investigations, Southern Illinois University. pp. 67-85. (1987).
- Douglas B. Hanson and Jane E. Buikstra. "Histomorphological alteration in buried human bone from the Lower Illinois Valley: Implications for Paleodietary Research." Journal of Archaeological Science 14:549-63. (1987).
- Jane E. Buikstra, William Autry, Emanuel Breitburg, Leslie Eisenberg, and Nikolaas van der Merwe. "Diet and Health in the Nashville Basin: Human Adaptation and Maize Agriculture in Middle Tennessee." In Diet and Subsistence: Current Archaeological Perspectives. Proceedings of the 19th Annual Chacmool Conference. Brenda V. Kennedy and Genevieve M. LeMoine, eds., Department of Archaeology, University of Calgary. pp. 243-259. (1988).
- Jane E. Buikstra. "The Mound Builders of Eastern North America: A Regional Perspective." Albert Egges van Giffen Instituut voor Prae- en Protohistorie, Universiteit van Amsterdam. (1988).
- Sloan R. Williams, Jane E. Buikstra, Niki R. Clark, Maria Cecilia Lozada Cerna and Elva Torres Pino. "Mortuary Site Excavations and Skeletal Biology in the Osmore Project." In Ecology, Settlement and History in the Osmore Drainage. Don S. Rice and Charles Stanish, eds., BAR, Oxford. pp. 329-346. (1989).
- Peter T. Bürgi, Sloan R. Williams, Jane E. Buikstra, Niki R. Clark, Maria Cecilia Lozada Cerna and Elva Torres



Pino. "Aspects of Mortuary Differentiation at the Site of Estuquiña, Southern Peru." In Ecology, Settlement and History in the Osmore Drainage. Don S. Rice and Charles Stanish, eds., BAR, Oxford. pp. 347-369. (1989).

Jane E. Buikstra, Susan Frankenberg, Joseph Lambert, and Liang Xue. "Multiple Elements--Multiple Expectations." In Bone Biochemistry and Past Behavior. D. Price, ed., Cambridge University Press, School of American Research Seminar Series. pp. 155-210. (1989).

Joseph B. Lambert, Liang Xue, and Jane E. Buikstra. "Physical Removal of Contaminative Inorganic Material from Buried Human Bone." Journal of Archaeological Science 16:1-11. (1989).

G. N. Van Vark, P. G. M. van der Sman, J. Dijema, and Jane E. Buikstra. "Some Multivariate Tests for Differences in Sexual Dimorphism Between Human Populations." Annals of Human Biology 16:301-310. (1989).

Lyle W. Konigsberg, Jane E. Buikstra, and Jill Bullington. "Paleodemographic Correlates of Fertility: A Reply to Corruccini, Brandon, and Handler and to Holland." American Antiquity 54:626-636. (1989).

Douglas K. Charles, K. Condon, James M. Cheverud, and Jane E. Buikstra. "Estimating age at death from growth layer groups in cementum." In Age Markers in the Human Skeleton, Mehemet Yasar Iscan, ed. Charles C. Thomas Pub., Springfield, Illinois (1989).

Jane E. Buikstra. "Sumario de la Investigacion de Restos Humanos de Omo, Moquegua, y San Gerónimo, Ilo." In Trabajos Arqueologicos en Moquegua, Peru, Vol. II. L. K. Watanabe, M. E. Moseley, y F. Cabieses, Compiladores. Programa Contisuyu del Museo Peruano de Ciencias de la Salud y Southern Peru Copper Corporation, Lima, Peru, pp. 59-67 (1989).

Don S. Rice, Geoffrey W. Conrad, and Jane E. Buikstra. "Investigaciones en Estuquiña, Descripciones Preliminares 1985-1986." In Trabajos Arqueologicos en Moquegua, Peru, Vol. III. L. K. Watanabe, M. E. Moseley, y F. Cabieses, Compiladores. Programa Contisuyu del Museo Peruano de Ciencias de la Salud y Southern Peru Copper Corporation, Lima, Peru, pp. 39-93 (1989).

Sloan R. Williams, Niki R. Clark, and Jane E. Buikstra. "Excavaciones en los Cementerios de Estuquiña, Moquegua, Sur de Perú." In Trabajos Arqueologicos en Moquegua, Peru, Vol. III. L. K. Watanabe, M. E. Moseley, y F. Cabieses, Compiladores. Programa Contisuyu del Museo Peruano de Ciencias de la Salud y Southern Peru Copper Corporation, Lima, Peru, pp. 95-122 (1989).

J. E. Buikstra, P. Castro, R. W. Chapman, N. Gale, P. Gonzalez Marcen, A. Grant, M. Jones, V. Lull, M. Picaso, R. Risch, M. E. Sanahuja, and S. Stos-Gale. "Proyecto Gatas. II Fase:Informe Preliminar del Estudio de los Materiales," Anuario Arqueológico de Andalucía, 1988. (1989).

Jane E. Buikstra and Mark Swegle. "Bone Modification Due to Burning:Experimental Evidence." In Bone Modification, R. Bonnichsen and M. Sorg, eds., Center for the Study of the First Americans, Orno, Maine, pp. 247-258 (1989).

Joseph Lambert, Jane Weydert, Sloan Williams, and Jane E. Buikstra. "Comparison of Methods for the Removal of Diagenetic Material in Buried Bone," Journal of Archaeological Science 17:453-368 (1990).

Jane E. Buikstra, Susan R. Frankenberg, and Lyle W. Konigsberg. "Skeletal Biological Distance Studies in American Physical Anthropology:Recent Trends." American Journal of Physical Anthropology 82(1):1-8 (1990).

Sloan R. Williams and Jane E. Buikstra. "Los Restos Humanos de Estuquiña, Valle de Moquegua," Gaceta Arqueológica Andina 18/19:125-129 (1990).

Jane E. Buikstra and George R. Milner. "Isotopic and Archaeological Interpretations of Diet in the Central Mississippi Valley," Journal of Archaeological Science 18(3):319-330 (1991).

Joseph Lambert, Liang Xue, and Jane E. Buikstra. "Inorganic analysis of excavated human bone after surface removal," Journal of Archaeological Science 18(3):363- 384 (1991).

J. E. Buikstra, P. Castro Martínez, R. W. Chapman, P. Gonzalez Marcen, L. Hoshower, V. Lull, M. Picaso, R. Risch, and E. Sanahuja YII. "La Necropolis de Gatas" Anuario Arqueológico de Andalucía, 1990. (1991).

Jane E. Buikstra. "Out of the Appendix and into the Dirt: Comments on Ten Years of Bioarcheological Research." In What Mean These Bones? Studies in Southeastern Bioarchaeology, M. L. Powell, A. M. Mires, and P. Bridges, eds., University of Alabama Press , Tuscaloosa, pp. 172-188 (1991).

T. Levy, D. Alon, P. Goldberg, C. Grigson, P. Smith, A. Holl, J. E. Buikstra, S. Shatev, S. Rosen, S. Ben Itzhak, A. Ben Yosef. "Protohistoric Investigations at the Shiqmim Chalcolithic Village and Cemetery: Interim Report on the 1987 Season," BASOR Supplement 27 (1991).

Jane E. Buikstra and Sloan Williams. "Tuberculosis in the Americas: Current Perspectives." In Human Paleopathology: Current Syntheses and Future Options, Donald J. Ortner and Arthur C. Aufderheide, eds., Smithsonian Institution Press, Washington DC, pp. 161-172 (1991).

Jane E. Buikstra, Jerome Rose, and George R. Milner "A Carbon Isotopic Perspective on Dietary Variation in Late Prehistoric Western Illinois." In Agricultural Origins and Development in the MidContinent, W. Green, ed. Report No. 19, Office of the State Archaeologist, Iowa City, Iowa (1992).

Jane E. Buikstra. "Prehistoric Human Diseases in the Americas." In: The History and Geography of Human Disease, Kenneth F. Kiple, ed., Part 5. The History of Human Disease in the World Outside Asia, Cambridge University Press, pp. 305-317 (1992).

Jane E. Buikstra "Diet and Disease in Late Prehistory." In Disease and Demography in the Americas: Changing Patterns before and after 1492, J. Verano and D. Ubelaker, eds., Smithsonian Institution Press, Washington DC, pp. 87-101 (1992).

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“Human Osteology & Skeletal Radiology: An Atlas and Guide,” by E. W. Matshes, B. Burbridge, B. Sher, A. Mohamed, and B. H. Juurlink. Journal of Forensic Sciences 50: (in press).

## **INVITED LECTURES/COLLOQUIA:**

Quad Cities Archaeological Association (1971, 1978); Illinois Association for the Advancement of Archaeology annual meeting (1972); Rush-Presbyterian St. Luke's Medical Center Renal and Nutrition Department (1972); Indiana Center for Criminal Justice Training (1972, 1973, 1976); State of Illinois-American College of Physicians annual meeting (1972); Loyola Medical School (1972); Chicago Historical Society (1974, 1978, 1981); American Medical Association (1974); Midwest Medical Research Association annual meeting (1974); Chicago Anthropological Society (1974); University of Arkansas Department of Anthropology (1975, 1978); Case Western Reserve University Department of Anthropology (1975); Chicago Archaeological Society (1975,1994); Carleton College (1976); Northwestern University College of Arts & Sciences Faculty Colloquium (1976); Chicago Academy of Sciences (1976); Northwestern University Program in Nutrition (1976); Technical Society of Chicago (1976); Earth Science Club of Northern Illinois (1976); Pike County Historical Society (1976); University of Tennessee Department of Anthropology (1977); University of Michigan Museum of Anthropology (1977); Marquette University Phi Eta Sigma Lecture in Anthropology (1977); University of Wisconsin, Milwaukee, Department of Anthropology (1977); American Medical Association, Division of Scientific Activities (1977); Milwaukee Chapter of the American Institute of Archaeology (1977); Chicago Nutrition Society (1977); German Medical Society of Chicago (1977); Two Rivers Chapter of the IAAA (1978); Instituut voor Prae-en Protohistorie, Amsterdam (1979, 1981); Arizona State University Department of Anthropology (1979); Southern Illinois University Department of Anthropology (1979); Lakeview Museum, Peoria, Illinois (1979); Northern Illinois Archaeological Society (1979); Anthropology Club/Department, Southern Methodist University Colloquium (1980); University of Minnesota, Anthropology Club/Department Annual Spring Conference Keynote Address (1980); Museo Etnografico, Santa Fe, Argentina (1980); Zoller Clinic, University of Chicago (1980); Northeastern Illinois University Department of Anthropology (1980); Georgia State University Department of Anthropology (1981); New York University Department of Anthropology (1981); Anthropology Study Group, Howard County, Maryland (1981); Indiana University Department of Anthropology (1981); American Institute for Archaeology Lecture Series:Rockford, Illinois; Oberlin, Ohio; Cleveland, Ohio; Springfield, Ohio (1981-82); Plattsburgh Conference, Plattsburgh, New York (1982); Early Woodland Conference, Kampsville, Illinois (1982); Taos Conference on Comparative Archaeology (1982); University of South Carolina Department of Anthropology

(1982); University of Pennsylvania Department of Anthropology (1982); Caddo Conference Symposium Discussant (1982); University of Calgary Chacmool Conference (1983); Johns Hopkins University Department of Cell Biology and Anatomy (1984); University of Wisconsin-Milwaukee (1984); Los Alamos National Laboratory (1984); University of Chicago, Department of Anthropology (1985); Nutrition for Optimal Health, Inc. (1986); Los Alamos Technology and Nutrition Symposium (1986); Louisiana State University, Department of Anthropology/Center for Study of Toxic Waste (1986); Georgia State University Department of Anthropology (1986); Louisiana State University Medical Center (1986); School of American Research, Symposium on Bone Biochemistry (1986); School of American Research, Conference on the Origins of Human Adaptations (1986); Southern Illinois University Conference on the Emergence of Horticulture (1986); Wisconsin Archaeological Society (1986); Dean's Inaugural Lecture, University of Chicago (1986); Grand Rounds, Department of Radiology, Children's Memorial Hospital (1987); Valparaiso University, Honor's College (1987); Notre Dame, Department of Anthropology (1987); Chicago Academy of Sciences (1987); University of Florida, Department of Anthropology (1988); University of Arkansas, Robert L. Stigler, Jr. Lecture Series (1988), Wesleyan University, Department of Anthropology (1989), Chicago State University Faculty Lecture Series (1989), University of Delaware, Department of Anthropology (1989), Hamline College, Department of Anthropology (1989), Florida Natural History Museum (1989), SUNY --Buffalo, Department of Anthropology (1989), Washington University, Department of Anthropology (1989), Harvard University, Department of Anthropology (1990); Ball State University, Department of Anthropology (1991), University of Nebraska, Department of Anthropology (1991), Earth Science Club of Northern Illinois (1991), Curso/Taller "Reconstrucción de Dietas Prehispánicas: Métodos y Técnicas," Lima, Peru (1991); Dumbarton Oaks Conference on Monuments and the Andean Ancestors (1991); Department of Anthropology, University of New Mexico (1992); F.B.I./Naperville Police Department Advanced Course in Forensic Investigation (1992); Department d'Història de les Societats Pre-capitalistes i d'Antropologia Social Universitat Autònoma de Barcelona (1992); Alaska Anthropological Association, Keynote Address (1993); University of California at Berkeley, Department of Anthropology, Washburn Lecture (1994); Museo Arqueológico Nacional, Madrid (1994); Conference on Preservation and Use of Olduvai Gorge, Laetoli, Rock Art and other Paleoanthropological Resources in Tanzania, Bellagio, Italy (1995); Sigma Xi Lecture, University of New Mexico (1996); University of Wisconsin, Madison (1996); Tulane University (1996); Northwestern University (1996); Twentieth Annual Mildred Trotter Lecture, Washington University, St. Louis (1996); Weiner Laboratory, Athens, Greece (1997); The Evolution and Palaeoepidemiology of Tuberculosis, International Congress, Szeged, Hungary (1997); Loren Eiseley Society, University of Pennsylvania Museum, Philadelphia (1997); IX Coloquio Internacional de Antropología Física Juan Comas, Mexico City (1997); University of Oklahoma, Department of Anthropology (1998); Western Michigan University Visiting Scholars and Artists Program and The Anthropology Department (1998); University of North Carolina, Greensboro, Women's Studies Science Initiative (1998); University of N. Carolina, Dept Anthropol (1999,2000); York University Papers in Honor of Don Brothwell (1999); Maya Weekend UCLA (2000); University of Copenhagen (Denmark), Laboratory of Biological Anthropology (2001); University of Stockholm (Sweden), Laboratory of Biological Anthropology (2001); American School of Classical Studies in Athens (Greece) (2001); Waring Lecture, University of West Georgia (2001); University of California-Riverside, Department of Anthropology (2001); University of California, San Diego, Department of Anthropology (2002); Lecture Series, Bioarchaeology Short Course, Palma, Mallorca, Spain (2002); Wiener Laboratory of the American School of Classical Studies in Athens (2002); Texas A&M, Department of Anthropology (2003); Texas A&M, Women in Science & Engineering Annual Conference (2003); Los Restos Humanos como Informantes de Nuestra Historia, Alicante, Spain (2003); German Anthropological Association, Annual Meeting (2003); Pennsylvania State University, Department of Anthropology (2003); SUNY-Binghamton, Department of Anthropology (2003); Universidad Autónoma de Yucatán, Facultad de Ciencias Antropológicas, Mérida, México (2003); XIII Encuentro Internacional "Los Investigadores de la Cultural Maya", Campeche, México (2003). University College, London, Department of Anthropology (2004); Autonomous University of Barcelona, Short Course in Bioarchaeology (2004), Sheffield University Anthropology Society (UK)(2005).

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

American Anthropological Association

American Association for the Advancement of Science (elected Fellow, 1985)

American Academy of Forensic Sciences (elected Fellow, 1980)  
American Association of Physical Anthropologists  
Association of Latin American Bioanthropologists  
Central States Anthropological Society  
Centro de Estudios Hispanoamericanos (Corresponding Member)  
Illinois Archaeological Survey  
Illinois Association for the Advancement of Archaeology  
Missouri Archaeological Society  
Paleopathology Association  
Sigma Xi  
Society for American Archaeology  
Society for Archaeological Sciences  
Register of Professional Archaeologists (Founding Member of the Society of Professional Archaeologists)  
Wisconsin Archaeological Society

## **PROFESSIONAL COMMITTEES:**

Advisory Committee for the Field Museum of Natural History's Center for Advanced Study, 1977-79.

American Anthropological Association, Committee on the Status of Women in Anthropology, 1978-81 (Chair 1980-81); Executive Board, 1980-83; Field Editor for Biological Anthropology, 1985-1987; Search Committee for Executive Director (1986-87); President-Elect 1987-89; Search Committee for Editor of the American Anthropologist (1988-89); President 1989-91; Finance Committee 1993-1997, Centennial Committee 1999-Present; Resource Development 2000-Present.

American Association for the Advancement of Science, Nominations Committee, Member 1986-1989, Chair 1988-1989; Chair-elect and Chair 1994-1997.

American Association of Physical Anthropologists, Nominations Committee, 1977-78; Associate Editor of the Journal of the Association, 1978-81; 1991- ; Procedures Committee, 1979-80; Secretary-Treasurer, 1981-85; President, 1985-87.

American Board of Forensic Anthropology, Executive Board 1998-2003; Ethics Committee, 1994-Present; Committee to Review Application Standards, 1999-2000.

Archeological Conservancy; Board of Directors 1986-1991.

American Institute of Archaeology; Pomerance Science Medal Committee.

Bioanthropology Foundation, Peru, Board Member 1997-present.

Evolutionary Anthropology, Editorial Board, 1992-1995.

External Review Committees, University of Tennessee Department of Anthropology, 1981, 1990, 1993; SUNY-Buffalo Department of Anthropology, 1985; University of California, Berkeley, Department of Anthropology, 1986,1998; Smithsonian Institution Department of Anthropology, 1987; University of Michigan, Museum and Department of Anthropology, 1989; University of New Mexico, Graduate Program in Anthropology, 1989; Visiting Committee, Harvard College Department of Anthropology, 1989-1992; University of Arizona, 1990, 1997; Notre Dame, Department of Anthropology 1990; University of Missouri, Department of Anthropology, 1991; University of Pittsburgh, Department of Anthropology, 1992; Center for Materials Research in Archaeology and Ethnology, Massachusetts Institute of Technology, 1993; Texas A&M, Department of Anthropology, 1993; University of Maryland, Department of Anthropology, 1994; Dartmouth University, Department of Anthropology, 1994;

University of Oregon, Department of Anthropology, 1994; Northwestern University, Department of Anthropology, 1996; University of California, Los Angeles, 1998; University of Illinois at Chicago, 1998; University of California, Santa Cruz, 2000; University of Iowa, 2001; University of California, San Diego, 2003; Texas A&M, 2004.

Ford Foundation Pre-doctoral and Post-doctoral Minority Fellowship Selection Committee, Member of Social Sciences B Committee: 2003, Chair of Anthropology Committee: 2004.

Foundation for Illinois Archeology/Center for American Archeology, Board of Directors, 1980-; Executive Committee, 1980- ; President, 1984- ; Acting Director, 1985-1998.

Harvard University, (ad hoc) Department of Anthropology Visiting Committee 1989, 1996.

HOMO, Member of the Editorial Board, 2004.

Human Biology Council, Nominations Committee, 1979-81, (Co-Chair, 1980-81); Executive Committee, 1984-88.

Illinois Archaeological Survey, Board of Directors, 1975-79; Chair of Quality Control Committee, 1975-76; President-elect, 1976-77; Chair of Membership Committee, 1976-77; President, 1977-78; Cultural Resources Management Committee, 1979-81; Chair of Nominations Committee, 1978-80.

Illinois Historic Sites Advisory Council, 1976-78.

Illinois State Museum: NAGPRA Review Committee, 1999.

Member of Scientific Committees: “The Evolution and Palaeoepidemiology of Tuberculosis”, Szeged, Hungary, 1997; “Leprosy, Past and Present”, Bradford, England, 1999; European Meeting of the Paleopathology Association, 2004.

International Journal of Osteoarchaeology, Editorial Board, 1989-1993.

Journal of Anthropological Archaeology, Editorial Board, 1981-1993.

Journal of Anthropological Research, Editorial Board, 2000-present.

Journal of Forensic Sciences, Editorial Board, Member, 1989-2008.

National Academy of Sciences, Class V Membership Committee (1989, 1997, 2000, 2001, 2004); Council Nominations Committee (1992); NRC Liaison 2000-Present; Member, Nominating Committee for the 2002 NAS Award for Scientific Reviewing (2001); NAS Committee on Gender Differences in Careers of Faculty in Science, Mathematics, and Engineering (2004 – 2005); Nominating Committee (2004 – 2005).

National Research Council - Member, Committee on Women in Science 1995-1998.

National Science Foundation, Graduate Fellowship Committee, 1976 1978, (Chair, 1978, 1979); Research Grant Review Committee, 1981-83; External Review of Anthropology Program, 1985, 1989.

Paleopathology Association, Member of Reorganization Committee, 1997-2000; President, 2003-2005.

Reviews in Anthropology, Advisory Board, 1979-86.

Revista Chungara, Member of the Editorial Board (Comité Asesor Editorial de Chungara), 2003.

Smithsonian Institution, Search Committee for Director of Natural History Museum 1987-88.

Smithsonian Institution, National Museum of Natural History. Chair, Human Sciences Review Committee, 1998-1999. Member, Integrated Review Committee, 1998-2000.

Society for American Archaeology Interim Committee on Professional Standards, 1976; Search Committee for Executive Director, 1992. Member, Lifetime Achievement Award Committee, 2003-2007.

Society of Professional Archaeologists, Board of Directors and Chair of By-Laws Committee, 1976; Alternate Counselor, Standards Board, 1979; Action Committee, 1980.

Wenner-Gren Foundation for Anthropological Research, Inc: Individual Research Grant Review Panel, 2004-2006.

Wiener Laboratory of the American School of Classical Studies, Athens, Ad hoc Advisory Committee, 1998; Member of Wiener Laboratory Committee of Managing Committee, 1998-2006; Chair 2005-2006.

Wellcome Trust (UK) Member of the Bioarchaeological Panel, 2000-2005.

## **CONSULTATION:**

Forensic anthropology: Indiana State Police; Cook County (Illinois) Sheriff's Police; Cook County Police; Lake County, Illinois; Kane County, Illinois, St. Louis County Medical Examiner; McHenry County, Illinois; Floyd County, Kentucky; Office of the Medical Investigator, New Mexico

Bio-archaeology: Film "Where Man Lies Buried," produced and directed by Margaret Farlie and Kenneth A.R. Kennedy; Film "The Moundbuilders," Odyssey, Public Television

Discovery Channel. Film "The Mummies of the South-Central Andes."

Discovery Channel. Film "Copan, Honduras: The Physical Cost of Being King."

## **CERTIFICATIONS AND REGISTRATIONS:**

Society of Professional Archaeologists: Field Research, Collections Research, Education (1977-1998)

American Board of Forensic Anthropology: Forensic Anthropologist (1979-present)

Instituto de Cultura (Peru):DB-8826 (1990-present)

Illinois Historical Preservation Agency: Certified Human Osteologist (1994-present)

Register of Professional Archaeologists (1998- present)

## **PRIMARY RESEARCH GOALS:**

Intensive study of prehistoric skeletal populations from the Americas emphasizing micro-evolutionary change and biological response to environmental stress; approach is multi-disciplinary, including programs in archaeology and the medical sciences. Bone microstructure; individuation; experimental cremation; social dimensions of mortuary behavior; demography; forensic anthropology; paleopathology; paleonutrition; biological distance; biological impact of European colonization in the Americas.

