

Name: Joan A. Bytheway
Title: Associate Professor, Forensic Science Department
College of Criminal Justice
Sam Houston State University

Degrees Earned:

Bachelor's of Art, University of Pittsburgh, Oakland, Pennsylvania 1996
Doctor of Philosophy, University of Pittsburgh, Oakland Pennsylvania 2003

Professional Licensure and Certifications

American Board of Forensic Anthropology, 2014

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

Gretchen R. Dabbs, Joan A. Bytheway, Melissa Connor "Comparing assessment of human decomposition from digital images to on-site observations" Journal of Forensic Sciences. Accepted November 2016 JFO13409

Gretchen R. Dabbs, Melissa Connor, Joan A. Bytheway, "Interobserver reliability of the total body score system for quantifying human decomposition" Journal of Forensic Sciences. March 2016 Vol.61 No.2, p445-451

J. A. Aitkenhead-Peterson, J. P. Fanche², M. B. Alexander M. Hamilton, J. A. Bytheway and D. J. Wescott "Application of soil in forensic science: residual odor and human remains detection dogs" Forensic Science International. April 2015 249:304-313

Joan A. Bytheway, Melissa Connor, Gretchen R. Dabbs, Cheryl A. Johnston, Michelle Sunkel, "The ethics and best practices of human decomposition facilities in the United States" Forensic Science Policy & Management. 2015 Vol.6 Issue 3/4, p59-68

Joan A. Bytheway, Nicole C. Larison, Ann H. Ross "Comparison of atypical and normal burn patterns of human remains and recognition of pre-cremation blunt force trauma" Earth and Environmental Science – Anthropology Online. ISSN 2332-0915 November 13, 2014

Jeffrey R. Wozniak, Monte L. Thies, Joan A. Bytheway, William I. Lutterschmidt "A hydrologic retention system and water quality monitoring program for a human decomposition research facility: concept and design" Journal of Forensic Sciences Jan 2015 60(1):54-60

Bytheway, JA and SM Pustilnik "Glycoproteinous adhesion deposits by *Balanus improvisus* on human skeletal and dental remains: A case report" Journal of Forensic Sciences Jan 2013

JA Aitkenhead-Peterson, CG Owings, MB Alexander, N Larison, JA Bytheway "Mapping the extent of human cadaver decomposition islands with soil chemistry" Forensic Science International October 2011 online

Ripley A, NC Larison, KE Moss, JD Kelly, JA Bytheway "Scavenging behavior of *Lynx rufus*

on human remains during the winter months of southeast Texas” Journal of Forensic Sciences March 2012 57(3):699-705.

Rhyu IJ, JA Bytheway, SJ Kohler, H Lange, KJ Lee, J Boklweski, K McCormick, NI Williams, GB Stanton, WT Greenough, JL Cameron, “Effects of aerobic exercise training on cognitive function and cortical vascularity in monkeys” Neuroscience June 2010 Vol 167 (4) pp 1239-1248

Lindgren NK, J Kelly, AD Archambeault, S Bucheli, JA Bytheway “Exclusion of forensically important flies due to burying behavior by the red imported fire ant (*Solenopsis invicta*) in southeast Texas” Forensic Science International June 2010 online.

Bucheli S, D Gangitano, JA Bytheway "Necrophagous caterpillars provide human mtDNA evidence," Journal of Forensic Sciences July 2010 Vol 55 (4) pp 1130-1132

Bytheway JA, AH Ross “A geometric morphometric approach to sex determination of the adult human os coxa” Journal of Forensic Sciences. July 2010 Vol 55 (4) pp 859-864

Bucheli S, JA Bytheway, J Florence, “Insect successional pattern of a corpse in cooler months of subtropical southeastern Texas: A case report” Journal of Forensic Sciences March 2009 Vol 54 (2) pp 452-455

Bytheway JA Book Review: Forensic Anthropology and Medicine: Complementary Sciences from recovery to cause of death Journal of Forensic Sciences. May 2007 Vol 52 (3) pp 746-747

Books

Chapters

Jacqueline A. Aitkenhead-Peterson, Michael B. Alexander, Joan A. Bytheway, David O. Carter, and Daniel J. Wescott Chapter 23: Applications of soil chemistry in forensic entomology in forensic entomology: International Dimensions and Frontiers, CRC Press

Proceedings

Artistic Performances

Artistic Exhibitions

Research Monographs and Technical Reports

Forensic Anthropology Reports, Valley Forensics P.L.L.C., McAllen, Texas 2009

Forensic Anthropology Reports, Montgomery County Sheriff's Office, Conroe, Texas 2006 to present

Forensic Anthropology Reports Galveston County Medical Examiner's Office, Texas City, Texas

Forensic Anthropology Report Osteological Analysis of skeletal remains from the mass grave site 2005 Ninawa0002, near Al Hatra, Iraq. Submitted to the United States Army Corps of Engineers, St. Louis, Missouri, United States Department of Justice, Washington D.C. and the Iraqi Special Tribunal, Baghdad, Iraq.

Forensic Anthropology Report Osteological Analysis of skeletal remains from the mass grave site, 2005 Province of Maysan, Iraq. Submitted to the United States Army Corp of Engineers, St. Louis, Missouri, United States Department of Justice, Washington D.C. and the Iraqi Special Tribunal, Baghdad, Iraq.

Forensic Anthropology Report Osteological analysis of skeletal remains from the mass grave site, 2005 Muthana Province, Iraq. Submitted to the United States Army Corp of Engineers, St. Louis, Missouri, United States Department of Justice, Washington D.C. and the Iraqi Special Tribunal, Baghdad, Iraq.

Funded External Grants

2014 National Institute of Justice, 2014-DN-BX-K009 \$495,853
2012 CTE Forensic Science Program, Texas Education Agency
2008 Bureau of Justice Travel Scholarship
2008 InnovX-systems X-ray Fluorescence Academic and Research Relations
1996 Summer grant, University of Pittsburgh

Peer-Review Presentations/Posters

INTER-OBSERVER RELIABILITY OF THE TOTAL BODY SCORE SYSTEM FOR QUANTIFYING HUMAN DECOMPOSITION Gretchen R. Dabbs, PhD*; Melissa A. Connor, PhD; Joan A. Bytheway, PhD AAFS 67th Annual Scientific Meeting February 2015

DIFFERENCES IN SKELETAL PATHOLOGY AS SEEN IN AN INDIVIDUAL WITH QUADRIPLÉGIA SECONDARY TO DUCHENNE MUSCULAR DYSTROPHY Kaitlin Main, MS, Stacie Gray, BS, Kevin Derr, BA, Joan A. Bytheway, PhD* AAFS 66th Annual Scientific Meeting February 2014

QUANTIFICATION OF COLOR CHANGES IN HUMAN DECOMPOSITION USING IMAGE PROCESSING SOFTWARE. *Joe Treviño, BS, Darren Williams, Ph.D., Joan Bytheway, Ph.D. AAFS 66th Annual Scientific Meeting February 2014

ESTIMATION OF THE POSTMORTEM INTERVAL OF HUMAN REMAINS IN A SUBTROPICAL, HUMID ENVIRONMENT USING ACCUMULATED DEGREE-DAYS AND TOTAL BODY SCORING. Steve A. Noser, BS, Kevin Derr, Ashleigh Gallaway BS, Angela Rippley, Joan A. Bytheway, PhD. College of Criminal Justice, Sam Houston State University, 2. Montgomery County Sheriff's Office, Montgomery County, Texas AAFS 65th Annual Scientific Meeting February 2013

STAGES OF DECOMPOSITION OF HUMAN REMAINS IN A SUBTROPICAL HUMID ENVIRONMENT. Ashleigh Gallaway, BS, Joan A. Bytheway, PhD. Montgomery County Sheriff's Office, Montgomery County, Texas, College of Criminal Justice, Sam Houston State University, Huntsville Texas AAFS 65th Annual Scientific Meeting February 2013

AN ATYPICAL BURN PATTERN ASSOCIATED WITH FORENSICALLY SIGNIFICANT HUMAN REMAINS, Joan A. Bytheway, Nicole C. Larison. College of Criminal Justice Sam, Houston State University, Department of Biological Sciences, Sam Houston State University.

THE EFFECTS OF AVIAN AND TERRESTRIAL SCAVENGER ACTIVITY ON HUMAN REMAINS IN THE PINEY WOODS OF SOUTHEAST TEXAS. Kathryn E. Moss, Angela D. Rippley, Joan A. Bytheway. University of Houston, Anthropology Department, College of Criminal Justice, Sam Houston State University.

TAPHONOMIC CHANGES OBSERVED ON SKELETAL REMAINS IN SOUTHEAST TEXAS. Charity Owings, Nicole C. Larison, Joan A. Bytheway. Entomology Department, Texas A & M University, Department of Biological Sciences, Sam Houston State University, College of Criminal Justice, Sam Houston State University.

INSECT SUCCESSION MODEL FOR SOUTHEAST TEXAS IN EARLY SPRING Jeffrey Kelly, Natalie K. Lindgren, Alan D. Archambeault, Sybil R. Bucheli, Ph.D., and Joan A. Bytheway, PhD, Sam Houston State University, College of Criminal Justice, Department of Biological Sciences.

SOUTHEAST TEXAS APPLIED FORENSIC SCIENCE FACILITY (STAFS) AT SAM HOUSTON STATE UNIVERSITY: A NEW FORENSIC ANTHROPOLOGY HUMAN DECOMPOSITION FACILITY Joan A. Bytheway, Ph.D.*, College of Criminal Justice, Sam Houston State University, Huntsville, Texas, 77341-2525

PRECISION OF COORDINATE LANDMARK DATA ACQUIRED FROM THE OS COXA Joan A. Bytheway, Ph.D.*, College of Criminal Justice, Forensic Science, Sam Houston State University, Huntsville, Texas, 77341-2525; Ann H. Ross, Ph.D., Department of Sociology and Anthropology, NC State University, CB 8107, Raleigh, NC 27695-8107

POSTMORTEM INTERVAL OF SURFACE REMAINS IN SPRING SEASON IN SOUTHEAST TEXAS Katelyn Stafford; Nicole Larison, Angela D. Rippley, Natalie Lindren, Joan Bytheway, Sam Houston State University, Chemistry Department, College of Criminal Justice, Department of Biological Sciences, Sam Houston State University.

EXCLUSION OF FORENSICALLY IMPORTANT FLIES BY THE RED IMPORTED FIRE ANT (*SOLENOPTIS INVICTO* BUREN) IN SOUTHEASTERN TEXAS Natalie K. Lindgren, Jeffrey Kelly, Alan D. Archambeault, Sybil R. Bucheli, Ph.D, Joan A. Bytheway Ph.D., Sam Houston State University, College of Criminal Justice, Department of Biological Sciences.

WHAT LIES BENEATH: RE-EXAMINING A COLD CASE HOMICIDE FROM A FORENSIC ANTHROPOLOGICAL PERSPECTIVE: A CASE REPORT Joan A. Bytheway, Kathryn Moss, Stephen M. Pustilnik, Sam Houston State University, College of Criminal Justice, University of Houston, Anthropology Department, Galveston County Medical Examiner's Office.

SKELETAL REMAINS IN A FLUVIAL ENVIRONMENT: MICROSCOPIC EVIDENCE OF GLYCOPROTEINOUS ADHESIVE OF *BALANUS IMPROVISUS* ON THE OCCLUSAL SURFACE OF MANDIBULAR TEETH Amanda Johnson, Joan A. Bytheway, Stephen M. Pustilnik' Sam Houston State University, College of Criminal Justice, Galveston County Medical Examiner's Office.

FORENSIC LOGISTIC LABORATORY PROCESS OF THE MASS FATALITY UTILIZING SUPPLY-CHAIN OPERATIONS REFERENCE MODEL, J.A. Bytheway, R.D. Bytheway. Criminal Justice, Sam Houston State University, Satellite Logistics Group, Houston, Texas.

3-D LANDMARK COORDINATE DATA SEX DETERMINATION OF THE ADULT HUMAN FRAGMENTED OS COXA AND THE POTENTIALITY OF EUCLIDEAN DISTANCE MATRIX ANALYSIS. Joan Bytheway, Anthropology, University of Pittsburgh.

SEX DETERMINATION OF THE ADULT HUMAN FRAGMENTED PELVIS USING EUCLIDEAN DISTANCE MATRIX ANALYSIS J.A. Bytheway, Anthropology, University of Pittsburgh.

TRAUMA, PATHOLOGY, AND NON-METRIC VARIANTS IN A MONONGAHELAN INDIAN POPULATION J.A. Bytheway, Anthropology, University of Pittsburgh

EXERCISE TRAINING LEADS TO INCREASED PARTICIPATION IN COGNITIVE TESTING IN FEMALE CYNOMOLGUS MONKEYS. J.A. Bytheway, H.Lange, J. Lamb, K. McCormick, N.I. Williams, W.T. Greenough, and J.L. Cameron. Depts. Psychiatry, Anthropology, Neuroscience, Univ. Pittsburgh, Pittsburgh, PA 15213; Pennsylvania State Univ., and Univ. Illinois at Champaign-Urbana.

Work or Professional Experiences

Honors and Awards

Other Competencies